

2019–20 National Postsecondary Student Aid Study (NPSAS:20)

Appendixes M - P

NOVEMBER 2023

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Table M-1. Institution-level survey nonresponse bias analysis for selected variables—all undergraduate-enrolling institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Control and level of institution					(Effect size = 0.25)			(Effect size = 0.18)	
Public less-than-2-year	20	20	4.98	5.39	0.41	8.26	4.67	-0.31	-6.26
Public 2-year	690	250	16.78	19.66	2.88*	17.16	17.18	0.40	2.40
Public 4-year, non-doctorate-granting, primarily subbaccalaureate	130	40	2.97	3.53	0.56*	18.85	3.00	0.02	0.79
Public 4-year, non-doctorate-granting, primarily baccalaureate	180	40	3.97	5.12	1.15*	28.87	3.95	-0.02	-0.51
Public 4-year, doctorate-granting	320	50	6.62	9.11	2.48*	37.44	6.94	0.32	4.79
Private nonprofit less-than-4-year	10	20	4.87	4.55	-0.32	-6.58	7.62	2.75	56.48
Private nonprofit 4-year, non-doctorate-granting	260	110	12.59	13.55	0.96	7.59	12.42	-0.17	-1.34
Private nonprofit 4-year, doctorate-granting	290	90	10.71	13.15	2.43*	22.73	10.96	0.25	2.30
Private for-profit less-than-2-year	100	140	21.88	13.41	-8.47*	-38.70	16.62	-5.26	-24.04
Private for-profit 2-year	70	70	9.65	7.62	-2.03	-21.03	10.12	0.47	4.86
Private for-profit 4-year	60	60	4.96	4.91	-0.05	-1.05	6.51	1.55	31.26
Carnegie classification 2015: Basic					(Effect size = 0.19)			(Effect size = 0.04)	
Associate's	780	290	26.96	27.98	1.01	3.75	27.42	0.46	1.69
Research and doctoral	250	50	5.49	7.30	1.82*	33.09	5.78	0.29	5.32
Master's	450	130	12.99	15.59	2.60*	19.98	13.47	0.48	3.66
Baccalaureate	290	100	10.27	11.84	1.57*	15.25	10.35	0.08	0.75
Special focus and other	130	70	9.00	10.20	1.19	13.27	9.33	0.33	3.63
Unavailable or unknown	230	240	35.28	27.10	-8.18*	-23.20	33.65	-1.63	-4.61
Degree of urbanization					(Effect size = 0.12)			(Effect size = 0.15)	
Large city	420	160	24.78	23.59	-1.20	-4.83	22.81	-1.98	-7.97
Midsize city	230	120	10.97	8.60	-2.37	-21.60	9.10	-1.87	-17.05
Small city	290	130	11.90	11.69	-0.20	-1.72	14.15	2.25	18.95
Large suburb	340	160	24.12	26.88	2.76	11.42	27.22	3.10	12.86
Midsize suburb	70	30	2.62	2.47	-0.14	-5.51	2.05	-0.57	-21.63
Small suburb	60	10	1.50	1.92	0.42*	28.15	1.41	-0.09	-6.21
Urban area on fringe of town	50	20	1.91	1.72	-0.18	-9.68	1.35	-0.56	-29.43
Urban area distant from town	220	70	6.78	8.23	1.45*	21.33	7.57	0.78	11.56
Urban area remote from town	190	70	5.96	6.03	0.07	1.15	4.68	-1.28*	-21.54
Rural area on fringe of town	170	80	6.43	6.17	-0.27	-4.13	6.83	0.39	6.07
Rural area distant from town	50	30	2.05	1.56	-0.49	-23.99	1.56	-0.49	-23.83
Rural area remote from town	30	10	0.98	1.14	0.16	16.72	1.29	0.31	31.44

See notes at end of table.

Table M-1. Institution-level survey nonresponse bias analysis for selected variables—all undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Bureau of Economic Analysis region ⁴					(Effect size = 0.18)			(Effect size = 0.11)	
New England	150	70	6.86	8.42	1.57	22.82	7.00	0.14	2.00
Mideast	270	80	14.75	18.09	3.33*	22.60	16.45	1.70	11.49
Great Lakes	270	90	14.62	16.40	1.78	12.17	15.45	0.83	5.67
Plains	220	120	7.84	7.25	-0.59	-7.52	6.87	-0.98	-12.43
Southeast	600	240	25.05	25.98	0.93	3.72	27.01	1.96	7.84
Southwest	220	90	10.67	8.70	-1.96	-18.42	9.19	-1.47	-13.80
Rocky Mountains	120	60	3.79	3.84	0.06	1.49	3.72	-0.06	-1.63
Far West	250	130	14.30	9.98	-4.32	-30.23	13.14	-1.16	-8.13
Outlying Areas	40	10	2.12	1.33	-0.79	-37.22	1.16	-0.95	-45.10
Historically Black College or University					(Effect size = 0.05)			(Effect size = 0.01)	
Yes	70	10	1.99	2.70	0.71*	35.59	2.12	0.12	6.25
No or unavailable or unknown	2,050	870	98.01	97.30	-0.71*	-0.72	97.88	-0.12	-0.13
Hispanic-Serving Institution					(Effect size = 0.08)			(Effect size = 0.08)	
Yes	420	170	23.26	19.77	-3.49	-15.00	19.88	-3.37	-14.50
No	1,710	720	76.74	80.23	3.49	4.55	80.12	3.37	4.39
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁵					(Effect size = 0.07)			(Effect size = 0.11)	
0–3	540	240	20.25	18.17	-2.08	-10.27	17.42	-2.84	-14.01
4–8	580	210	22.40	23.36	0.96	4.29	23.27	0.87	3.89
9–17	480	190	21.61	23.67	2.05	9.51	24.99	3.38	15.65
18 or more	490	240	32.54	31.44	-1.09	-3.36	31.79	-0.74	-2.28
Unknown	40	10	3.19	3.35	0.16	4.96	2.52	-0.67	-21.10
Percentage of undergraduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁵					(Effect size = 0.08)			(Effect size = 0.07)	
0–1	780	350	39.57	40.86	1.29	3.26	41.06	1.49	3.77
2	380	160	16.94	15.93	-1.01	-5.94	15.23	-1.71	-10.08
3–5	470	230	19.27	21.26	1.99	10.35	20.68	1.41	7.32
6 or more	440	140	21.03	18.60	-2.44	-11.58	20.51	-0.52	-2.47
Unknown	40	10	3.19	3.35	0.16	4.96	2.52	-0.67	-21.10

See notes at end of table.

Table M-1. Institution-level survey nonresponse bias analysis for selected variables—all undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Percentage of undergraduate students enrolled: Hispanic ⁵					(Effect size = 0.04)		(Effect size = 0.07)		
0–4	520	250	25.83	26.30	0.47	1.82	27.20	1.37	5.29
5–9	550	240	20.86	21.45	0.59	2.82	22.09	1.23	5.89
10–20	480	190	23.23	23.87	0.64	2.73	23.75	0.52	2.23
21 or more	540	190	26.88	25.02	-1.85	-6.89	24.44	-2.44	-9.07
Unknown	40	10	3.19	3.35	0.16	4.96	2.52	-0.67	-21.10
Total undergraduate enrollment ⁵					(Effect size = 0.19)		(Effect size = 0.05)		
1–971	390	330	51.69	42.14	-9.55*	-18.48	49.46	-2.23	-4.31
972–3,050	540	220	20.18	22.92	2.75*	13.61	21.43	1.25	6.21
3,051–8,528	590	170	14.54	18.06	3.52*	24.21	15.13	0.59	4.06
8,529 or more	590	160	13.59	16.88	3.29*	24.19	13.97	0.38	2.82
Total male undergraduate enrollment ⁵					(Effect size = 0.18)		(Effect size = 0.05)		
1–378	400	340	50.81	42.09	-8.73*	-17.18	48.32	-2.49	-4.91
379–1,204	550	210	20.93	23.23	2.29	10.96	22.42	1.48	7.08
1,205–3,530	590	170	14.68	17.91	3.23*	22.03	15.31	0.63	4.28
3,531 or more	590	170	13.58	16.78	3.20*	23.57	13.96	0.38	2.82
Total female undergraduate enrollment ⁵					(Effect size = 0.21)		(Effect size = 0.05)		
1–566	390	330	49.42	39.14	-10.28*	-20.80	46.87	-2.55	-5.15
567–1,780	540	220	22.28	25.76	3.48*	15.60	23.96	1.68	7.53
1,781–4,918	590	170	14.71	18.17	3.46*	23.51	15.24	0.53	3.57
4,919 or more	600	160	13.59	16.93	3.35*	24.62	13.93	0.34	2.52
Percentage of undergraduate students receiving federal grant aid ⁵					(Effect size = 0.10)		(Effect size = 0.15)		
1–44	550	190	22.55	24.62	2.07	9.17	22.44	-0.12	-0.52
45–61	500	220	20.42	22.67	2.25	11.00	22.18	1.75	8.59
62–80	510	210	20.07	18.98	-1.09	-5.42	18.94	-1.13	-5.63
81 or more	460	210	29.84	26.10	-3.74	-12.55	26.11	-3.73	-12.49
None or unknown	110	50	7.11	7.63	0.52	7.27	10.33	3.22	45.28

See notes at end of table.

Table M-1. Institution-level survey nonresponse bias analysis for selected variables—all undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Percentage of undergraduate students receiving state/local grant aid ⁵					(Effect size = 0.15)		(Effect size = 0.14)		
1–8	450	290	41.62	35.10	-6.52*	-15.66	39.24	-2.38	-5.72
9–28	500	200	16.26	17.33	1.08	6.63	15.53	-0.72	-4.44
29–51	510	180	17.05	17.81	0.77	4.49	15.44	-1.61	-9.44
52 or more	550	160	17.96	22.12	4.16*	23.15	19.45	1.49	8.31
None or unknown	110	50	7.11	7.63	0.52	7.27	10.33	3.22	45.28
Percentage of undergraduate students receiving institution grant aid ⁵					(Effect size = 0.15)		(Effect size = 0.14)		
1–10	460	300	37.71	30.38	-7.33*	-19.44	34.07	-3.64	-9.66
11–36	490	180	18.43	19.95	1.52	8.24	19.14	0.71	3.86
37–78	550	170	18.50	20.57	2.07	11.20	17.99	-0.51	-2.74
79 or more	510	180	18.25	21.47	3.22*	17.67	18.46	0.22	1.19
None or unknown	110	50	7.11	7.63	0.52	7.27	10.33	3.22	45.28
Percentage of undergraduate students receiving student loan aid ⁵					(Effect size = 0.11)		(Effect size = 0.13)		
1–14	520	210	17.34	16.45	-0.88	-5.09	15.61	-1.72	-9.95
15–46	540	170	17.33	21.22	3.89*	22.44	17.69	0.36	2.08
47–68	520	190	24.96	24.57	-0.39	-1.57	23.38	-1.58	-6.34
69 or more	440	270	33.26	30.13	-3.13	-9.41	32.99	-0.27	-0.82
None or unknown	110	50	7.11	7.63	0.52	7.27	10.33	3.22	45.28
Average net price among students receiving grant or scholarship aid ⁵					(Effect size = 0.07)		(Effect size = 0.13)		
\$1–\$7,913	530	180	16.59	17.35	0.76	4.58	14.84	-1.75	-10.54
\$7,914–\$13,216	510	200	17.52	15.01	-2.51	-14.33	15.29	-2.24	-12.75
\$13,217–\$20,023	490	210	27.86	28.41	0.55	1.98	26.80	-1.06	-3.79
\$20,024 or more	480	230	29.61	30.68	1.07	3.61	31.91	2.30	7.76
None or unknown	120	60	8.42	8.55	0.13	1.55	11.16	2.74	32.55

See notes at end of table.

Table M-1. Institution-level survey nonresponse bias analysis for selected variables—all undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					(Effect size = 0.08)		(Effect size = 0.10)		
1–67	510	240	27.14	25.93	-1.21	-4.44	28.71	1.57	5.79
68–82	510	200	23.80	21.48	-2.32	-9.74	21.54	-2.26	-9.48
83–94	510	200	20.98	21.32	0.35	1.65	18.50	-2.48	-11.80
95 or more	510	210	22.82	25.33	2.52	11.03	24.96	2.14	9.37
None or unknown	90	30	5.27	5.93	0.66	12.52	6.29	1.02	19.41
Number of full-time, first-time undergraduate students living on campus ⁵					(Effect size = 0.16)		(Effect size = 0.03)		
0–114	260	110	9.26	10.35	1.09	11.75	9.68	0.41	4.47
115–274	270	90	9.17	10.56	1.39*	15.11	9.10	-0.07	-0.78
275–656	290	80	8.28	10.57	2.28*	27.55	8.78	0.49	5.96
657 or more	300	60	6.75	9.00	2.25*	33.36	7.08	0.34	4.97
Unknown	1,010	550	66.53	59.52	-7.01*	-10.53	65.36	-1.17	-1.76
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁵					(Effect size = 0.15)		(Effect size = 0.12)		
0–36	410	300	40.61	34.73	-5.89*	-14.50	36.74	-3.88	-9.54
37–90	490	210	20.67	20.56	-0.11	-0.54	19.98	-0.69	-3.36
91–218	520	180	16.60	18.61	2.01*	12.13	17.45	0.85	5.12
219 or more	570	130	13.36	17.20	3.83*	28.67	14.38	1.02	7.60
Unknown	130	70	8.75	8.91	0.15	1.75	11.46	2.70	30.90
Average amount of grant and scholarship aid received ⁵					(Effect size = 0.11)		(Effect size = 0.10)		
\$0–\$5,000	460	250	30.44	27.61	-2.82	-9.28	30.62	0.18	0.61
\$5,001–\$6,090	490	230	24.61	22.68	-1.93	-7.85	22.56	-2.05	-8.34
\$6,091–\$9,754	540	180	19.52	20.30	0.78	4.00	18.53	-0.99	-5.08
\$9,755 or more	540	180	18.58	22.13	3.55*	19.11	19.09	0.52	2.78
Unknown	110	50	6.85	7.28	0.43	6.22	9.20	2.34	34.19

See notes at end of table.

Table M-1. Institution-level survey nonresponse bias analysis for selected variables—all undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁵					(Effect size = 0.13)		(Effect size = 0.13)		
0–30	560	190	17.23	19.27	2.04	11.82	20.30	3.07	17.79
31–46	530	190	18.45	20.47	2.01	10.91	18.92	0.47	2.54
47–65	480	210	21.41	23.09	1.68	7.85	23.47	2.06	9.62
66 or more	460	250	36.89	30.90	-5.99*	-16.23	30.92	-5.97*	-16.18
Unknown	100	40	6.02	6.27	0.25	4.22	6.39	0.37	6.22

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the institution base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the institution base weight adjusted for nonresponse) and weighted full-sample mean (using the institution base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-2. Institution-level survey nonresponse bias analysis for selected variables—public less-than-2-year undergraduate-enrolling institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Degree of urbanization					(Effect size = ‡)			(Effect size = ‡)	
Large city	‡	‡	‡	‡	‡	‡	‡	‡	‡
Midsize city	‡	‡	‡	‡	‡	‡	‡	‡	‡
Small city	‡	‡	‡	‡	‡	‡	‡	‡	‡
Large suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Midsize suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ⁴					(Effect size = ‡)			(Effect size = ‡)	
New England	‡	‡	‡	‡	‡	‡	‡	‡	‡
Mideast	‡	‡	‡	‡	‡	‡	‡	‡	‡
Great Lakes	‡	‡	‡	‡	‡	‡	‡	‡	‡
Plains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southeast	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southwest	10	10	11.62	12.27	0.65	5.60	21.69	10.07	86.63
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	‡	‡	‡	‡	‡	‡	‡	‡	‡
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡
Hispanic-Serving Institution					(Effect size = ‡)			(Effect size = ‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡
No	20	20	98.01	98.12	0.12	0.12	98.26	0.26	0.26

See notes at end of table.

Table M-2. Institution-level survey nonresponse bias analysis for selected variables—public less-than-2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–2	10	10	12.93	12.21	-0.72	-5.59	12.62	-0.31	-2.42
3–4	‡	‡	‡	‡	‡	‡	‡	‡	‡
5–8	‡	‡	‡	‡	‡	‡	‡	‡	‡
9 or more	#	10	73.36	74.35	0.99	1.35	63.61	-9.75	-13.29
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–1	10	10	63.05	80.52	17.47	27.71	75.41	12.36	19.60
2	‡	‡	‡	‡	‡	‡	‡	‡	‡
3 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–3	#	10	12.31	9.45	-2.86	-23.21	14.85	2.53	20.57
4–9	#	10	10.57	12.04	1.47	13.91	16.27	5.70	53.92
10–14	‡	‡	‡	‡	‡	‡	‡	‡	‡
15 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–140	#	10	81.22	80.20	-1.02	-1.25	71.65	-9.56	-11.78
141–460	10	10	10.36	12.37	2.01	19.39	19.63	9.27	89.51
461–1,450	‡	‡	‡	‡	‡	‡	‡	‡	‡
1,451 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total male undergraduate enrollment ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–64	#	10	81.34	80.20	-1.13	-1.39	71.65	-9.68	-11.91
65–296	#	10	9.43	10.07	0.64	6.76	15.62	6.19	65.65
297–876	‡	‡	‡	‡	‡	‡	‡	‡	‡
877 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-2. Institution-level survey nonresponse bias analysis for selected variables—public less-than-2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Total female undergraduate enrollment ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–99	10	10	82.24	82.50	0.26	0.32	75.67	-6.58	-8.00
100–228	#	10	9.33	10.07	0.73	7.86	15.62	6.29	67.36
229–557	10	10	5.00	3.98	-1.02	-20.37	5.41	0.41	8.10
558 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving federal grant aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–29	‡	‡	‡	‡	‡	‡	‡	‡	‡
30–58	‡	‡	‡	‡	‡	‡	‡	‡	‡
59–74	‡	‡	‡	‡	‡	‡	‡	‡	‡
75 or more	#	10	11.98	10.05	-1.93	-16.13	13.62	1.64	13.70
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving state/local grant aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–3	‡	‡	‡	‡	‡	‡	‡	‡	‡
4–9	‡	‡	‡	‡	‡	‡	‡	‡	‡
10–35	10	10	4.42	2.62	-1.80	-40.71	3.50	-0.92	-20.81
36 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving institution grant aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
0	10	10	77.18	75.76	-1.42	-1.85	62.96	-14.22	-18.42
1–7	‡	‡	‡	‡	‡	‡	‡	‡	‡
8–29	‡	‡	‡	‡	‡	‡	‡	‡	‡
30 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving student loan aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
0	10	10	36.38	10.20	-26.17	-71.95	19.18	-17.20	-47.28
1–8	‡	‡	‡	‡	‡	‡	‡	‡	‡
9 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-2. Institution-level survey nonresponse bias analysis for selected variables—public less-than-2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Average net price among students receiving grant or scholarship aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
\$1–\$3,281	#	10	27.33	2.72	-24.61	-90.05	3.38	-23.95	-87.63
\$3,282–\$5,236	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$5,237–\$8,681	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$8,682 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	#	10	11.65	13.57	1.92	16.48	14.45	2.80	24.05
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–46	‡	‡	‡	‡	‡	‡	‡	‡	‡
47–65	‡	‡	‡	‡	‡	‡	‡	‡	‡
66–83	#	10	5.30	3.52	-1.78	-33.58	10.13	4.82	90.92
84 or more	#	10	13.20	12.35	-0.84	-6.39	17.64	4.44	33.66
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁵					(Effect size = ‡)			(Effect size = ‡)	
0	‡	‡	‡	‡	‡	‡	‡	‡	‡
1–10	‡	‡	‡	‡	‡	‡	‡	‡	‡
11 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	20	20	97.37	97.17	-0.20	-0.21	94.70	-2.67	-2.75
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–3	‡	‡	‡	‡	‡	‡	‡	‡	‡
4–11	‡	‡	‡	‡	‡	‡	‡	‡	‡
12–21	‡	‡	‡	‡	‡	‡	‡	‡	‡
22 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	10	10	14.39	14.92	0.53	3.72	15.81	1.43	9.94

See notes at end of table.

Table M-2. Institution-level survey nonresponse bias analysis for selected variables—public less-than-2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Average amount of grant and scholarship aid received ⁵					(Effect size = ‡)			(Effect size = ‡)	
\$0–\$3,048	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$3,049–\$3,955	#	10	4.75	1.37	-3.38	-71.15	2.21	-2.54	-53.41
\$3,956–\$5,239	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$5,240 or more	#	10	5.05	3.13	-1.92	-38.05	4.82	-0.23	-4.58
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–61	#	10	4.61	2.61	-2.00	-43.34	2.71	-1.90	-41.16
62–72	#	10	5.92	3.24	-2.68	-45.21	3.75	-2.17	-36.70
73–86	10	10	30.33	11.11	-19.22	-63.36	16.69	-13.64	-44.98
87 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than five nonrespondents).

¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the institution base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the institution base weight adjusted for nonresponse) and weighted full-sample mean (using the institution base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-3. Institution-level survey nonresponse bias analysis for selected variables—public 2-year undergraduate-enrolling institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Carnegie classification 2015: Basic					(Effect size = ‡)			(Effect size = ‡)	
Associate's	630	200	88.30	90.47	2.17*	2.46	89.16	0.86	0.97
Research and doctoral	‡	‡	‡	‡	‡	‡	‡	‡	‡
Master's	‡	‡	‡	‡	‡	‡	‡	‡	‡
Baccalaureate	‡	‡	‡	‡	‡	‡	‡	‡	‡
Special focus and other	10	10	1.70	1.29	-0.40	-23.77	1.34	-0.36	-21.05
Unavailable or unknown	60	40	10.00	8.23	-1.77*	-17.68	9.50	-0.50	-5.01
Degree of urbanization					(Effect size = 0.05)			(Effect size = 0.08)	
Large city	80	20	10.93	12.08	1.15*	10.53	11.48	0.55	5.03
Midsize city	50	20	7.32	7.05	-0.28	-3.76	7.10	-0.23	-3.11
Small city	80	30	11.46	10.79	-0.67	-5.88	11.34	-0.13	-1.10
Large suburb	110	40	15.95	16.00	0.06	0.35	15.68	-0.27	-1.69
Midsize suburb	20	10	2.97	2.73	-0.24	-8.04	2.51	-0.46	-15.50
Small suburb	20	10	2.65	2.88	0.22	8.42	2.43	-0.23	-8.59
Urban area on fringe of town	10	10	1.80	1.73	-0.08	-4.33	1.43	-0.37	-20.65
Urban area distant from town	80	20	11.14	11.79	0.65	5.84	11.81	0.66	5.95
Urban area remote from town	80	30	11.78	11.79	0.01	0.12	10.30	-1.48*	-12.53
Rural area on fringe of town	110	40	16.77	16.40	-0.37	-2.21	18.49	1.72	10.26
Rural area distant from town	30	20	5.09	4.75	-0.35	-6.83	5.02	-0.07	-1.43
Rural area remote from town	10	10	2.12	2.01	-0.11	-5.13	2.42	0.30	14.18
Bureau of Economic Analysis region*					(Effect size = ‡)			(Effect size = ‡)	
New England	40	10	4.88	5.47	0.58	11.96	5.05	0.17	3.46
Mideast	70	20	9.55	9.49	-0.06	-0.61	8.48	-1.07*	-11.18
Great Lakes	90	20	11.89	12.66	0.77	6.49	12.35	0.46	3.87
Plains	70	40	11.57	10.36	-1.21	-10.48	10.02	-1.55*	-13.38
Southeast	220	70	31.76	32.40	0.64	2.01	32.64	0.88	2.78
Southwest	90	30	12.42	12.95	0.53	4.25	13.23	0.82	6.57
Rocky Mountains	20	10	3.18	3.16	-0.02	-0.61	3.12	-0.07	-2.15
Far West	90	40	14.22	13.52	-0.70	-4.93	15.11	0.89	6.23
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-3. Institution-level survey nonresponse bias analysis for selected variables—public 2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Historically Black College or University					(Effect size = ‡)			(Effect size = ‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡
No or unavailable or unknown	680	250	98.94	98.71	-0.23	-0.24	98.89	-0.05	-0.05
Hispanic-Serving Institution					(Effect size = #)			(Effect size = 0.02)	
Yes	180	70	26.21	26.03	-0.18	-0.69	27.17	0.96	3.66
No	510	180	73.79	73.97	0.18	0.24	72.83	-0.96	-1.30
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁵					(Effect size = 0.03)			(Effect size = 0.04)	
0–3	200	70	28.76	28.34	-0.43	-1.48	28.56	-0.20	-0.70
4–8	160	70	24.09	23.30	-0.79	-3.28	22.73	-1.36	-5.64
9–17	160	50	22.53	23.19	0.67	2.96	24.19	1.67	7.39
18 or more	180	60	24.62	25.17	0.55	2.23	24.52	-0.11	-0.43
Percentage of undergraduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁵					(Effect size = 0.02)			(Effect size = 0.02)	
0–1	300	110	43.83	43.29	-0.54	-1.23	43.08	-0.75	-1.72
2	130	40	17.51	17.98	0.47	2.67	17.71	0.20	1.12
3–4	110	50	17.11	16.72	-0.39	-2.30	16.76	-0.35	-2.05
5 or more	150	50	21.54	22.01	0.46	2.15	22.45	0.91	4.22
Percentage of undergraduate students enrolled: Hispanic ⁵					(Effect size = 0.03)			(Effect size = 0.02)	
0–4	180	70	26.11	25.60	-0.51	-1.94	25.35	-0.76	-2.91
5–10	180	70	26.43	26.32	-0.10	-0.40	26.47	0.05	0.18
11–27	170	50	23.27	24.49	1.22	5.24	23.49	0.22	0.95
28 or more	160	60	24.20	23.59	-0.61	-2.52	24.69	0.49	2.04
Total undergraduate enrollment ⁵					(Effect size = 0.06)			(Effect size = 0.04)	
1–2,179	160	80	25.18	22.76	-2.42*	-9.60	23.64	-1.54	-6.11
2,180–5,086	180	50	24.94	26.47	1.53	6.11	25.88	0.94	3.75
5,087–10,883	180	60	24.94	25.89	0.95	3.81	25.89	0.95	3.82
10,884 or more	170	60	24.94	24.88	-0.06	-0.23	24.59	-0.35	-1.41

See notes at end of table.

Table M-3. Institution-level survey nonresponse bias analysis for selected variables—public 2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Total male undergraduate enrollment ⁵					(Effect size = 0.04)		(Effect size = 0.03)		
1–878	170	70	25.18	24.06	-1.12	-4.46	24.65	-0.53	-2.10
879–2,079	170	60	24.94	25.03	0.09	0.35	24.67	-0.27	-1.09
2,080–4,584	180	50	24.94	26.32	1.38	5.54	26.42	1.48	5.93
4,585 or more	170	60	24.94	24.60	-0.34	-1.38	24.26	-0.68	-2.72
Total female undergraduate enrollment ⁵					(Effect size = 0.07)		(Effect size = 0.05)		
1–1,314	150	80	25.28	22.47	-2.81*	-11.12	23.35	-1.93	-7.65
1,315–3,011	190	50	24.83	26.90	2.06*	8.31	26.39	1.55	6.26
3,012–6,282	180	60	24.94	25.17	0.23	0.92	25.05	0.11	0.46
6,283 or more	180	60	24.94	25.46	0.52	2.08	25.21	0.26	1.06
Percentage of undergraduate students receiving federal grant aid ⁵					(Effect size = 0.06)		(Effect size = 0.04)		
1–52	170	70	25.71	24.77	-0.93	-3.64	26.77	1.06	4.14
53–64	170	70	25.37	24.88	-0.48	-1.90	25.44	0.07	0.29
65–78	170	50	23.35	23.88	0.53	2.26	22.70	-0.64	-2.76
79 or more	180	50	24.30	25.75	1.44	5.94	24.22	-0.09	-0.35
None or unknown	10	10	1.27	0.72	-0.55	-43.53	0.87	-0.41	-32.01
Percentage of undergraduate students receiving state/local grant aid ⁵					(Effect size = 0.07)		(Effect size = 0.06)		
1–19	160	70	24.86	23.91	-0.95	-3.82	23.37	-1.49	-5.98
20–37	180	50	24.73	26.03	1.31	5.28	25.76	1.04	4.19
38–64	190	50	25.47	27.18	1.71*	6.73	26.61	1.14	4.48
65 or more	150	70	23.67	22.15	-1.52	-6.41	23.39	-0.28	-1.19
None or unknown	10	10	1.27	0.72	-0.55	-43.53	0.87	-0.41	-32.01
Percentage of undergraduate students receiving institution grant aid ⁵					(Effect size = 0.07)		(Effect size = 0.06)		
1–5	170	70	25.15	23.73	-1.42	-5.65	23.81	-1.34	-5.34
6–15	170	60	24.75	24.49	-0.27	-1.08	24.63	-0.13	-0.51
16–32	180	50	24.52	25.89	1.37	5.61	26.06	1.54	6.28
33 or more	180	50	24.30	25.17	0.87	3.57	24.64	0.34	1.38
None or unknown	10	10	1.27	0.72	-0.55	-43.53	0.87	-0.41	-32.01

See notes at end of table.

Table M-3. Institution-level survey nonresponse bias analysis for selected variables—public 2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Percentage of undergraduate students receiving student loan aid ⁵					(Effect size = 0.08)			(Effect size = 0.08)	
1	180	80	28.04	26.64	-1.40	-4.99	28.62	0.57	2.04
2–11	170	40	21.86	24.16	2.30*	10.53	24.48	2.61*	11.95
12–28	170	60	24.30	24.60	0.29	1.20	23.32	-0.99	-4.06
29 or more	170	70	24.52	23.88	-0.64	-2.61	22.72	-1.79*	-7.31
None or unknown	10	10	1.27	0.72	-0.55	-43.53	0.87	-0.41	-32.01
Average net price among students receiving grant or scholarship aid ⁵					(Effect size = 0.06)			(Effect size = 0.07)	
\$1–\$5,873	170	60	24.62	24.74	0.12	0.48	23.54	-1.08	-4.39
\$5,874–\$7,324	180	60	24.52	25.17	0.66	2.67	23.98	-0.54	-2.19
\$7,325–\$9,467	170	60	24.75	24.34	-0.41	-1.66	24.50	-0.25	-1.01
\$9,468 or more	170	60	24.52	24.88	0.37	1.50	26.99	2.48*	10.10
None or unknown	10	10	1.59	0.86	-0.73*	-45.79	0.98	-0.61	-38.24
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–64	180	70	26.66	26.36	-0.31	-1.15	26.54	-0.13	-0.48
65–76	180	50	24.52	26.18	1.66*	6.78	26.07	1.55	6.33
77–87	170	60	24.52	24.02	-0.50	-2.02	24.04	-0.48	-1.96
88 or more	160	70	23.99	23.16	-0.83	-3.45	23.07	-0.91	-3.80
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁵					(Effect size = 0.03)			(Effect size = 0.04)	
0–39	40	20	6.05	5.61	-0.44	-7.27	5.51	-0.54	-8.92
40–70	40	20	6.05	6.04	-0.01	-0.14	5.76	-0.29	-4.78
71–127	40	20	5.73	5.18	-0.55	-9.65	5.01	-0.72	-12.58
128 or more	40	10	5.84	5.90	0.06	1.03	5.97	0.14	2.31
Unknown	540	180	76.33	77.27	0.94	1.23	77.75	1.42	1.85

See notes at end of table.

Table M-3. Institution-level survey nonresponse bias analysis for selected variables—public 2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁵					(Effect size = 0.06)		(Effect size = 0.05)		
0–52	160	70	25.18	23.77	-1.41	-5.60	24.81	-0.37	-1.45
53–116	170	60	24.09	24.31	0.22	0.90	24.70	0.61	2.52
117–242	180	60	24.62	25.46	0.84	3.40	25.19	0.57	2.32
243 or more	180	50	24.30	25.31	1.01	4.16	24.08	-0.23	-0.93
Unknown	10	10	1.80	1.15	-0.65*	-36.22	1.22	-0.58	-32.42
Average amount of grant and scholarship aid received ⁵					(Effect size = ‡)		(Effect size = ‡)		
\$0–\$4,692	160	70	25.18	23.77	-1.41	-5.60	25.11	-0.06	-0.26
\$4,693–\$5,283	170	60	24.62	24.88	0.26	1.06	24.94	0.32	1.29
\$5,284–\$5,932	190	50	24.83	26.61	1.78*	7.15	25.94	1.11	4.47
\$5,933 or more	170	70	24.73	24.16	-0.56	-2.28	23.30	-1.43	-5.77
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁵					(Effect size = ‡)		(Effect size = ‡)		
0–23	190	60	26.85	27.18	0.33	1.24	26.39	-0.46	-1.72
24–30	170	50	23.88	24.60	0.72	3.00	24.83	0.95	3.96
31–39	170	60	24.09	24.02	-0.07	-0.29	24.02	-0.07	-0.30
40 or more	160	70	24.65	23.77	-0.88	-3.57	24.37	-0.28	-1.14
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the institution base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the institution base weight adjusted for nonresponse) and weighted full-sample mean (using the institution base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-4. Institution-level survey nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate undergraduate-enrolling institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Carnegie classification 2015: Basic					(Effect size = ‡)			(Effect size = ‡)	
Associate's	90	30	70.66	68.80	-1.86	-2.63	70.81	0.16	0.22
Research and doctoral	‡	‡	‡	‡	‡	‡	‡	‡	‡
Master's	‡	‡	‡	‡	‡	‡	‡	‡	‡
Baccalaureate	‡	‡	‡	‡	‡	‡	‡	‡	‡
Special focus and other	10	10	8.38	6.40	-1.98	-23.66	6.33	-2.05	-24.45
Unavailable or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Degree of urbanization					(Effect size = ‡)			(Effect size = ‡)	
Large city	20	10	12.57	12.80	0.23	1.79	11.39	-1.18	-9.39
Midsize city	‡	‡	‡	‡	‡	‡	‡	‡	‡
Small city	20	10	19.16	19.20	0.04	0.20	21.63	2.47	12.91
Large suburb	20	10	14.37	12.00	-2.37	-16.50	11.71	-2.66	-18.51
Midsize suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area on fringe of town	20	10	12.57	12.80	0.23	1.79	14.36	1.78	14.17
Rural area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ⁴					(Effect size = ‡)			(Effect size = ‡)	
New England	‡	‡	‡	‡	‡	‡	‡	‡	‡
Mideast	‡	‡	‡	‡	‡	‡	‡	‡	‡
Great Lakes	‡	‡	‡	‡	‡	‡	‡	‡	‡
Plains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southeast	30	10	23.95	24.80	0.85	3.54	24.14	0.19	0.78
Southwest	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	30	20	29.94	22.40	-7.54*	-25.18	25.45	-4.49	-14.99
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-4. Institution-level survey nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Hispanic-Serving Institution					(Effect size = 0.02)			(Effect size = 0.02)	
Yes	30	10	23.35	24.00	0.65	2.77	24.30	0.95	4.06
No	100	30	76.65	76.00	-0.65	-0.84	75.70	-0.95	-1.24
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–2	30	10	26.95	24.80	-2.15	-7.96	24.87	-2.08	-7.72
3–7	30	10	22.75	24.00	1.25	5.47	23.51	0.76	3.33
8–13	40	10	26.95	28.00	1.05	3.91	28.83	1.88	6.98
14 or more	30	10	22.75	22.40	-0.35	-1.56	22.18	-0.57	-2.52
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–1	50	10	34.13	36.00	1.87	5.47	34.73	0.60	1.75
2	30	10	18.56	20.80	2.24	12.05	20.15	1.59	8.56
3–5	30	10	25.75	24.80	-0.95	-3.68	25.38	-0.37	-1.43
6 or more	20	10	20.96	17.60	-3.36	-16.02	19.12	-1.84	-8.76
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–5	40	10	28.14	30.40	2.26	8.02	29.21	1.07	3.80
6–12	30	20	25.75	21.60	-4.15	-16.11	23.64	-2.11	-8.19
13–26	30	10	22.16	23.20	1.04	4.71	22.64	0.48	2.18
27 or more	30	10	23.35	24.00	0.65	2.77	23.89	0.54	2.31
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁵					(Effect size = 0.11)			(Effect size = 0.10)	
1–3,233	30	10	25.15	25.60	0.45	1.79	24.89	-0.26	-1.04
3,234–6,592	30	10	25.15	26.40	1.25	4.97	27.35	2.20	8.75
6,593–15,274	30	20	25.15	20.80	-4.35*	-17.30	21.26	-3.89	-15.48
15,275 or more	30	10	24.55	27.20	2.65	10.79	26.51	1.96	7.96

See notes at end of table.

Table M-4. Institution-level survey nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Total male undergraduate enrollment ⁵					(Effect size = 0.13)			(Effect size = 0.13)	
1–1,258	30	10	25.15	24.80	-0.35	-1.39	23.99	-1.16	-4.61
1,259–2,699	40	10	25.15	28.80	3.65*	14.51	29.60	4.45*	17.68
2,700–6,370	30	20	25.15	20.00	-5.15*	-20.48	20.84	-4.31	-17.15
6,371 or more	30	10	24.55	26.40	1.85	7.53	25.58	1.03	4.18
Total female undergraduate enrollment ⁵					(Effect size = 0.09)			(Effect size = 0.07)	
1–1,747	30	10	25.15	25.60	0.45	1.79	25.16	0.01	0.06
1,748–3,971	30	10	25.15	25.60	0.45	1.79	25.79	0.64	2.54
3,972–8,929	30	20	25.15	21.60	-3.55	-14.11	22.38	-2.77	-11.02
8,930 or more	30	10	24.55	27.20	2.65	10.79	26.67	2.12	8.63
Percentage of undergraduate students receiving federal grant aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–46	30	20	27.54	24.80	-2.74	-9.97	25.64	-1.91	-6.92
47–58	30	10	24.55	25.60	1.05	4.27	26.15	1.60	6.52
59–69	30	10	22.75	22.40	-0.35	-1.56	22.10	-0.66	-2.89
70 or more	30	10	23.95	25.60	1.65	6.88	24.77	0.81	3.40
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving state/local grant aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–18	40	10	26.35	30.40	4.05*	15.38	28.98	2.64	10.00
19–36	30	10	23.35	23.20	-0.15	-0.66	23.43	0.08	0.32
37–51	30	20	25.75	22.40	-3.35	-13.00	24.06	-1.69	-6.56
52 or more	30	10	23.35	22.40	-0.95	-4.08	22.18	-1.17	-5.02
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving institution grant aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–10	30	10	25.75	23.20	-2.55	-9.90	23.15	-2.60	-10.09
11–21	30	10	23.95	25.60	1.65	6.88	27.37	3.42	14.29
22–38	30	10	25.15	24.00	-1.15	-4.57	23.52	-1.63	-6.47
39 or more	30	10	23.95	25.60	1.65	6.88	24.60	0.65	2.73
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-4. Institution-level survey nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Percentage of undergraduate students receiving student loan aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–5	30	20	25.15	20.00	-5.15*	-20.48	20.22	-4.93*	-19.62
6–15	30	10	25.75	23.20	-2.55	-9.90	25.26	-0.49	-1.91
16–37	‡	‡	‡	‡	‡	‡	‡	‡	‡
38 or more	30	10	23.95	26.40	2.45	10.22	25.13	1.18	4.93
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Average net price among students receiving grant or scholarship aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
\$1–\$6,240	30	10	25.15	27.20	2.05	8.15	26.60	1.45	5.77
\$6,241–\$7,879	30	10	24.55	23.20	-1.35	-5.50	22.38	-2.17	-8.84
\$7,880–\$9,328	30	10	24.55	24.00	-0.55	-2.24	23.77	-0.78	-3.17
\$9,329 or more	30	10	24.55	24.00	-0.55	-2.24	25.90	1.35	5.49
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–59	30	10	26.95	27.20	0.25	0.94	28.37	1.43	5.30
60–71	30	10	23.35	20.80	-2.55	-10.93	21.53	-1.83	-7.82
72–83	30	10	25.15	24.00	-1.15	-4.57	24.09	-1.05	-4.19
84 or more	30	10	23.95	27.20	3.25	13.56	25.39	1.44	6.00
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–21	10	10	9.58	7.20	-2.38	-24.85	7.11	-2.48	-25.84
22–75	‡	‡	‡	‡	‡	‡	‡	‡	‡
76–215	10	10	9.58	8.80	-0.78	-8.15	8.95	-0.63	-6.62
216 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	80	20	62.28	64.00	1.72	2.77	63.73	1.45	2.34

See notes at end of table.

Table M-4. Institution-level survey nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–71	30	10	25.15	24.00	-1.15	-4.57	23.38	-1.77	-7.03
72–132	30	10	23.95	23.20	-0.75	-3.14	24.42	0.47	1.95
133–347	30	10	24.55	26.40	1.85	7.53	27.28	2.73	11.12
348 or more	30	10	24.55	24.80	0.25	1.01	23.57	-0.98	-4.00
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Average amount of grant and scholarship aid received ⁵					(Effect size = ‡)			(Effect size = ‡)	
\$0–\$4,914	40	10	25.15	28.00	2.85	11.33	27.57	2.42	9.61
\$4,915–\$5,564	30	10	24.55	24.80	0.25	1.01	25.40	0.85	3.45
\$5,565–\$6,239	30	20	25.15	20.80	-4.35*	-17.30	21.12	-4.03	-16.01
\$6,240 or more	30	10	24.55	25.60	1.05	4.27	25.30	0.75	3.04
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–19	30	10	25.15	27.20	2.05	8.15	28.16	3.01	11.98
20–28	40	10	29.34	30.40	1.06	3.61	30.45	1.11	3.77
29–35	30	10	20.36	20.80	0.44	2.16	20.67	0.31	1.50
36 or more	30	20	24.55	20.80	-3.75	-15.28	20.11	-4.44*	-18.09
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the institution base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the institution base weight adjusted for nonresponse) and weighted full-sample mean (using the institution base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-5. Institution-level survey nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate undergraduate-enrolling institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Carnegie classification 2015: Basic					(Effect size = ‡)			(Effect size = ‡)	
Associate's	‡	‡	‡	‡	‡	‡	‡	‡	‡
Research and doctoral	‡	‡	‡	‡	‡	‡	‡	‡	‡
Master's	90	20	51.12	51.93	0.81	1.59	51.90	0.78	1.52
Baccalaureate	70	20	40.36	40.33	-0.03	-0.07	39.39	-0.96	-2.39
Special focus and other	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unavailable or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Degree of urbanization					(Effect size = ‡)			(Effect size = ‡)	
Large city	‡	‡	‡	‡	‡	‡	‡	‡	‡
Midsize city	10	10	8.52	7.18	-1.34	-15.70	7.66	-0.86	-10.10
Small city	20	10	12.56	12.71	0.15	1.20	14.17	1.61	12.82
Large suburb	30	10	16.14	16.57	0.43	2.67	15.73	-0.42	-2.57
Midsize suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area on fringe of town	10	10	5.83	4.42	-1.41	-24.18	4.68	-1.15	-19.74
Rural area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ⁴					(Effect size = ‡)			(Effect size = ‡)	
New England	20	10	11.66	11.60	-0.06	-0.49	11.40	-0.26	-2.22
Mideast	40	10	21.97	24.31	2.34*	10.63	21.80	-0.17	-0.79
Great Lakes	10	10	8.52	7.18	-1.34	-15.70	7.55	-0.97	-11.41
Plains	10	10	10.31	7.73	-2.58*	-25.01	8.04	-2.27	-22.04
Southeast	40	10	21.52	22.65	1.13	5.24	23.97	2.44	11.36
Southwest	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	‡	‡	‡	‡	‡	‡	‡	‡	‡
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-5. Institution-level survey nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Historically Black College or University					(Effect size = ‡)			(Effect size = ‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡
No or unavailable or unknown	170	40	94.17	94.48	0.30	0.32	94.98	0.81	0.86
Hispanic-Serving Institution					(Effect size = #)			(Effect size = #)	
Yes	30	10	16.59	16.57	-0.02	-0.10	16.55	-0.04	-0.24
No	150	40	83.41	83.43	0.02	0.02	83.45	0.04	0.05
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–3	50	10	26.46	25.41	-1.04	-3.94	25.17	-1.29	-4.87
4–6	40	10	23.32	23.20	-0.11	-0.49	23.89	0.57	2.45
7–12	40	10	21.08	20.44	-0.63	-3.01	21.41	0.33	1.56
13 or more	40	10	21.52	21.55	0.02	0.10	21.51	-0.02	-0.08
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–1	70	20	38.57	37.02	-1.55	-4.02	36.14	-2.43	-6.29
2	30	10	15.25	14.36	-0.88	-5.78	15.48	0.24	1.55
3–4	30	10	17.04	17.13	0.09	0.51	18.24	1.20	7.02
5 or more	40	10	21.52	22.10	0.57	2.67	22.11	0.59	2.74
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–5	60	10	30.04	31.49	1.45	4.82	32.31	2.26	7.53
6–10	30	20	20.63	17.13	-3.50*	-16.97	18.46	-2.17	-10.52
11–19	40	10	20.18	21.55	1.37	6.78	20.89	0.71	3.54
20 or more	40	10	21.52	20.44	-1.08	-5.03	20.31	-1.21	-5.64
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁵					(Effect size = 0.06)			(Effect size = 0.06)	
1–2,088	50	10	25.11	25.97	0.85	3.40	25.43	0.32	1.28
2,089–3,809	40	20	25.11	22.65	-2.46	-9.80	23.06	-2.06	-8.19
3,810–6,457	50	10	25.11	24.86	-0.25	-1.00	24.69	-0.42	-1.67
6,458 or more	50	10	24.66	26.52	1.86	7.52	26.82	2.15	8.73

See notes at end of table.

Table M-5. Institution-level survey nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Total male undergraduate enrollment ⁵					(Effect size = 0.05)			(Effect size = 0.04)	
1–844	50	10	25.11	25.41	0.30	1.20	24.25	-0.87	-3.45
845–1,587	40	10	25.11	23.20	-1.91	-7.60	24.01	-1.10	-4.39
1,588–2,514	50	10	25.11	25.41	0.30	1.20	25.57	0.46	1.81
2,515 or more	50	10	24.66	25.97	1.30	5.28	26.18	1.51	6.14
Total female undergraduate enrollment ⁵					(Effect size = 0.05)			(Effect size = 0.06)	
1–1,205	50	10	25.11	25.41	0.30	1.20	25.18	0.06	0.25
1,206–2,224	40	10	25.11	23.20	-1.91	-7.60	22.94	-2.18	-8.67
2,225–3,879	50	10	25.11	24.86	-0.25	-1.00	25.10	-0.02	-0.06
3,880 or more	50	10	24.66	26.52	1.86	7.52	26.79	2.13	8.63
Percentage of undergraduate students receiving federal grant aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–45	40	10	23.32	24.31	0.99	4.25	25.72	2.40	10.29
46–60	40	10	21.97	19.34	-2.64	-12.00	20.19	-1.78	-8.10
61–80	40	10	22.42	20.99	-1.43	-6.36	20.45	-1.97	-8.80
81 or more	40	10	22.42	23.20	0.78	3.49	22.25	-0.17	-0.75
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving state/local grant aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–28	50	10	24.66	25.41	0.75	3.04	26.03	1.37	5.56
29–41	30	20	21.52	17.68	-3.85*	-17.86	17.24	-4.28*	-19.90
42–61	40	10	21.97	20.44	-1.53	-6.97	21.09	-0.88	-4.01
62 or more	40	10	21.97	24.31	2.34*	10.63	24.24	2.27	10.34
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving institution grant aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–41	40	10	23.32	24.31	0.99	4.25	23.99	0.67	2.88
42–61	40	10	21.97	20.99	-0.98	-4.45	21.40	-0.58	-2.62
62–81	40	10	23.32	23.20	-0.11	-0.49	24.22	0.90	3.86
82 or more	40	10	21.52	19.34	-2.19	-10.16	19.01	-2.52	-11.69
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-5. Institution-level survey nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Percentage of undergraduate students receiving student loan aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–40	40	10	23.77	23.20	-0.56	-2.37	23.31	-0.46	-1.94
41–52	40	10	21.97	19.89	-2.08	-9.48	20.70	-1.28	-5.81
53–67	‡	‡	‡	‡	‡	‡	‡	‡	‡
68 or more	40	10	21.97	19.34	-2.64	-12.00	18.85	-3.12*	-14.20
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Average net price among students receiving grant or scholarship aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
\$1–\$10,260	40	10	22.87	20.99	-1.88	-8.20	20.66	-2.21	-9.65
\$10,261–\$13,279	50	10	22.42	24.86	2.44*	10.88	25.31	2.89*	12.89
\$13,280–\$15,760	40	10	22.42	20.44	-1.98	-8.83	20.52	-1.90	-8.47
\$15,761 or more	40	10	22.42	21.55	-0.87	-3.90	22.11	-0.31	-1.37
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–72	40	10	23.32	23.76	0.44	1.88	24.47	1.15	4.92
73–85	40	20	24.66	22.10	-2.56	-10.40	22.18	-2.48	-10.05
86–92	40	10	21.97	21.55	-0.43	-1.94	21.47	-0.50	-2.28
93 or more	40	10	20.18	20.44	0.26	1.30	20.57	0.39	1.94
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁵					(Effect size = 0.06)			(Effect size = 0.04)	
0–138	40	10	19.28	19.34	0.05	0.28	19.44	0.16	0.81
139–241	30	10	18.39	16.57	-1.81	-9.85	16.92	-1.47	-7.99
242–550	30	10	18.83	18.23	-0.60	-3.20	18.43	-0.41	-2.15
551 or more	40	10	18.83	19.34	0.50	2.67	19.79	0.95	5.06
Unknown	50	10	24.66	26.52	1.86	7.52	25.43	0.77	3.10

See notes at end of table.

Table M-5. Institution-level survey nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–56	50	10	23.32	24.86	1.54	6.62	25.39	2.07	8.87
57–111	30	20	21.97	18.78	-3.19*	-14.51	18.99	-2.98	-13.56
112–219	40	10	22.87	20.99	-1.88	-8.20	21.26	-1.61	-7.05
220 or more	40	10	21.97	23.20	1.23	5.60	22.98	1.00	4.56
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Average amount of grant and scholarship aid received ⁵					(Effect size = ‡)			(Effect size = ‡)	
\$0–\$6,185	40	10	22.42	22.10	-0.32	-1.44	22.70	0.28	1.26
\$6,186–\$7,466	40	10	22.42	22.65	0.23	1.03	23.36	0.94	4.18
\$7,467–\$8,904	40	20	22.42	19.34	-3.08*	-13.76	18.98	-3.45*	-15.37
\$8,905 or more	40	10	22.42	23.20	0.78	3.49	23.14	0.72	3.20
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–35	40	10	23.77	23.20	-0.56	-2.37	23.13	-0.64	-2.68
36–46	40	10	21.52	19.89	-1.64	-7.60	20.49	-1.04	-4.83
47–58	40	10	21.52	22.10	0.57	2.67	21.70	0.17	0.80
59 or more	40	10	20.63	19.89	-0.74	-3.58	20.19	-0.43	-2.10
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the institution base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the institution base weight adjusted for nonresponse) and weighted full-sample mean (using the institution base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-6. Institution-level survey nonresponse bias analysis for selected variables—public 4-year, doctorate-granting undergraduate-enrolling institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Carnegie classification 2015: Basic					(Effect size = ‡)			(Effect size = ‡)	
Associate's	‡	‡	‡	‡	‡	‡	‡	‡	‡
Research and doctoral	170	30	52.15	52.17	0.02	0.04	51.62	-0.53	-1.02
Master's	130	20	40.86	40.68	-0.18	-0.43	40.38	-0.48	-1.17
Baccalaureate	‡	‡	‡	‡	‡	‡	‡	‡	‡
Special focus and other	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unavailable or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Degree of urbanization					(Effect size = ‡)			(Effect size = ‡)	
Large city	90	10	26.34	27.64	1.30	4.92	26.96	0.62	2.34
Midsize city	50	10	16.94	16.15	-0.79	-4.64	16.67	-0.27	-1.59
Small city	60	10	18.01	17.39	-0.62	-3.44	18.61	0.60	3.35
Large suburb	40	10	11.29	11.18	-0.11	-0.98	11.10	-0.19	-1.67
Midsize suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area distant from town	20	10	7.80	7.14	-0.65	-8.37	7.27	-0.53	-6.79
Urban area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ⁴					(Effect size = ‡)			(Effect size = ‡)	
New England	‡	‡	‡	‡	‡	‡	‡	‡	‡
Mideast	‡	‡	‡	‡	‡	‡	‡	‡	‡
Great Lakes	40	10	13.98	12.73	-1.25	-8.91	12.84	-1.14	-8.15
Plains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southeast	90	10	28.49	28.57	0.08	0.27	28.87	0.38	1.32
Southwest	40	10	13.44	13.35	-0.09	-0.65	13.53	0.09	0.68
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	‡	‡	‡	‡	‡	‡	‡	‡	‡
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-6. Institution-level survey nonresponse bias analysis for selected variables—public 4-year, doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Historically Black College or University					(Effect size = ‡)			(Effect size = ‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡
No or unavailable or unknown	300	50	93.01	92.55	-0.46	-0.50	93.15	0.14	0.15
Hispanic-Serving Institution					(Effect size = 0.02)			(Effect size = 0.01)	
Yes	60	10	18.82	19.57	0.75	3.98	19.35	0.53	2.82
No	260	40	81.18	80.43	-0.75	-0.92	80.65	-0.53	-0.65
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–4	100	20	31.18	30.75	-0.44	-1.40	30.55	-0.63	-2.03
5–7	60	10	19.35	19.57	0.21	1.09	19.71	0.35	1.83
8–17	80	10	24.73	24.53	-0.20	-0.80	25.20	0.46	1.88
18 or more	80	10	23.66	23.91	0.26	1.09	23.47	-0.18	-0.77
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–2	140	20	41.94	43.17	1.23	2.94	42.10	0.16	0.38
3	30	10	10.22	9.01	-1.21	-11.83	10.37	0.16	1.52
4–7	70	20	22.58	21.43	-1.15	-5.10	22.63	0.05	0.23
8 or more	80	10	24.19	25.16	0.96	3.98	23.83	-0.36	-1.49
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–5	90	20	30.38	29.19	-1.18	-3.90	29.40	-0.97	-3.20
6–8	70	10	19.89	20.50	0.60	3.04	20.96	1.06	5.35
9–20	80	10	24.19	23.91	-0.28	-1.16	24.09	-0.10	-0.43
21 or more	80	10	24.46	25.16	0.69	2.83	24.48	0.02	0.07
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁵					(Effect size = 0.03)			(Effect size = 0.04)	
1–7,161	80	10	25.00	24.53	-0.47	-1.86	24.63	-0.37	-1.47
7,162–12,746	80	10	25.00	25.78	0.78	3.11	25.86	0.86	3.44
12,747–23,490	80	10	25.00	25.78	0.78	3.11	26.10	1.10	4.38
23,491 or more	80	20	25.00	23.91	-1.09	-4.35	23.41	-1.59	-6.35

See notes at end of table.

Table M-6. Institution-level survey nonresponse bias analysis for selected variables—public 4-year, doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Total male undergraduate enrollment ⁵					(Effect size = 0.03)		(Effect size = 0.03)		
1–3,035	80	10	25.00	24.53	-0.47	-1.86	24.59	-0.41	-1.62
3,036–5,604	80	10	25.00	25.47	0.47	1.86	25.62	0.62	2.50
5,605–10,568	80	10	25.00	25.78	0.78	3.11	25.97	0.97	3.86
10,569 or more	80	20	25.00	24.22	-0.78	-3.11	23.82	-1.18	-4.74
Total female undergraduate enrollment ⁵					(Effect size = 0.04)		(Effect size = 0.05)		
1–4,101	80	20	25.00	24.22	-0.78	-3.11	24.35	-0.65	-2.58
4,102–7,146	80	10	25.00	26.09	1.09	4.35	26.43	1.43	5.71
7,147–12,605	80	10	25.00	25.78	0.78	3.11	25.82	0.82	3.27
12,606 or more	80	20	25.00	23.91	-1.09	-4.35	23.40	-1.60	-6.40
Percentage of undergraduate students receiving federal grant aid ⁵					(Effect size = ‡)		(Effect size = ‡)		
1–36	70	10	23.12	22.67	-0.45	-1.94	22.69	-0.43	-1.87
37–49	70	20	24.46	22.67	-1.79	-7.32	23.04	-1.42	-5.81
50–70	70	10	22.58	22.98	0.40	1.77	22.48	-0.10	-0.45
71 or more	80	10	22.31	23.91	1.60*	7.18	22.93	0.62	2.79
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving state/local grant aid ⁵					(Effect size = ‡)		(Effect size = ‡)		
1–21	70	20	23.92	21.74	-2.19*	-9.14	21.63	-2.29*	-9.57
22–38	70	10	22.31	22.67	0.36	1.61	22.37	0.06	0.26
39–60	80	10	23.12	23.91	0.79	3.44	23.62	0.50	2.16
61 or more	80	10	23.12	23.91	0.79	3.44	23.52	0.40	1.73
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving institution grant aid ⁵					(Effect size = ‡)		(Effect size = ‡)		
1–45	80	10	23.92	23.91	-0.01	-0.05	23.73	-0.19	-0.81
46–61	70	10	23.39	22.98	-0.41	-1.73	22.73	-0.66	-2.80
62–76	70	10	22.85	22.98	0.13	0.58	22.79	-0.06	-0.25
77 or more	70	10	22.31	22.36	0.05	0.22	21.89	-0.43	-1.91
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-6. Institution-level survey nonresponse bias analysis for selected variables—public 4-year, doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Percentage of undergraduate students receiving student loan aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–37	80	10	23.12	23.91	0.79	3.44	22.91	-0.20	-0.89
38–51	70	10	23.12	22.36	-0.76	-3.28	22.91	-0.21	-0.89
52–62	70	20	23.92	22.36	-1.56	-6.54	22.48	-1.44	-6.03
63 or more	80	10	22.31	23.60	1.29	5.78	22.83	0.52	2.34
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Average net price among students receiving grant or scholarship aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
\$1–\$12,302	70	10	23.12	22.36	-0.76	-3.28	21.77	-1.35	-5.85
\$12,303–\$14,757	70	10	23.12	22.67	-0.45	-1.94	22.30	-0.82	-3.53
\$14,758–\$17,383	80	10	23.12	23.60	0.48	2.09	23.44	0.32	1.39
\$17,384 or more	80	10	22.85	23.29	0.44	1.94	23.34	0.49	2.13
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–69	70	20	23.92	21.43	-2.50*	-10.43	21.38	-2.54*	-10.64
70–81	80	10	23.39	23.91	0.53	2.25	23.90	0.51	2.19
82–90	90	10	26.34	27.95	1.61*	6.10	27.46	1.12	4.25
91 or more	70	10	20.16	20.50	0.34	1.66	20.02	-0.14	-0.69
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–465	70	20	22.58	21.12	-1.46	-6.48	20.20	-2.38*	-10.54
466–900	70	10	22.58	22.67	0.09	0.40	22.87	0.29	1.26
901–1,551	80	10	22.58	23.29	0.71	3.15	23.35	0.77	3.40
1,552 or more	70	10	22.58	22.67	0.09	0.40	22.32	-0.26	-1.16
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-6. Institution-level survey nonresponse bias analysis for selected variables—public 4-year, doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁵					(Effect size = ‡)		(Effect size = ‡)		
0–181	70	20	23.12	21.12	-2.00*	-8.65	21.10	-2.02*	-8.72
182–330	80	10	23.12	23.29	0.17	0.75	23.44	0.32	1.41
331–508	80	10	23.12	24.84	1.73*	7.47	24.40	1.28	5.53
509 or more	70	10	22.85	22.67	-0.18	-0.78	21.90	-0.95	-4.16
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Average amount of grant and scholarship aid received ⁵					(Effect size = ‡)		(Effect size = ‡)		
\$0–\$7,027	70	10	23.39	22.67	-0.72	-3.06	23.00	-0.39	-1.65
\$7,028–\$8,427	80	10	23.39	23.60	0.22	0.92	23.56	0.17	0.72
\$8,428–\$9,919	70	10	23.39	22.98	-0.41	-1.73	22.50	-0.89	-3.79
\$9,920 or more	80	10	23.39	24.22	0.84	3.58	23.41	0.02	0.09
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁵					(Effect size = ‡)		(Effect size = ‡)		
0–45	80	10	24.46	24.84	0.38	1.56	24.37	-0.10	-0.39
46–54	70	20	22.85	21.74	-1.11	-4.86	21.70	-1.15	-5.01
55–67	80	10	23.92	24.53	0.61	2.55	24.42	0.49	2.05
68 or more	70	10	22.04	22.05	0.01	0.03	21.64	-0.40	-1.83
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the institution base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the institution base weight adjusted for nonresponse) and weighted full-sample mean (using the institution base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-7. Institution-level survey nonresponse bias analysis for selected variables—private nonprofit less-than-4-year undergraduate-enrolling institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Carnegie classification 2015: Basic					(Effect size = ‡)			(Effect size = ‡)	
Associate's	10	10	38.69	12.42	-26.27*	-67.89	17.86	-20.83	-53.83
Research and doctoral	‡	‡	‡	‡	‡	‡	‡	‡	‡
Master's	‡	‡	‡	‡	‡	‡	‡	‡	‡
Baccalaureate	‡	‡	‡	‡	‡	‡	‡	‡	‡
Special focus and other	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unavailable or unknown	10	10	60.95	87.58	26.63*	43.70	82.14	21.19	34.77
Degree of urbanization					(Effect size = ‡)			(Effect size = ‡)	
Large city	10	10	63.13	78.27	15.15	23.99	54.78	-8.34	-13.22
Midsize city	‡	‡	‡	‡	‡	‡	‡	‡	‡
Small city	‡	‡	‡	‡	‡	‡	‡	‡	‡
Large suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Midsize suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ⁴					(Effect size = ‡)			(Effect size = ‡)	
New England	‡	‡	‡	‡	‡	‡	‡	‡	‡
Mideast	‡	‡	‡	‡	‡	‡	‡	‡	‡
Great Lakes	‡	‡	‡	‡	‡	‡	‡	‡	‡
Plains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southeast	#	10	15.10	14.38	-0.72	-4.76	28.26	13.16	87.15
Southwest	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	‡	‡	‡	‡	‡	‡	‡	‡	‡
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-7. Institution-level survey nonresponse bias analysis for selected variables—private nonprofit less-than-4-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Historically Black College or University					(Effect size = ‡)			(Effect size = ‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡
No or unavailable or unknown	10	20	99.63	100.00	0.37	0.37	100.00	0.37	0.37
Hispanic-Serving Institution					(Effect size = ‡)			(Effect size = ‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡
No	10	20	83.41	94.43	11.03	13.22	96.17	12.77	15.30
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–2	‡	‡	‡	‡	‡	‡	‡	‡	‡
3–16	‡	‡	‡	‡	‡	‡	‡	‡	‡
17–40	#	10	16.33	8.05	-8.28	-50.71	12.18	-4.16	-25.45
41 or more	#	10	12.76	7.58	-5.18	-40.62	20.45	7.69	60.30
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0	#	10	18.27	8.20	-10.07	-55.14	21.78	3.51	19.18
1	#	10	51.78	62.08	10.29	19.88	29.18	-22.60*	-43.64
2–3	‡	‡	‡	‡	‡	‡	‡	‡	‡
4 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–1	#	10	61.70	67.69	5.99	9.71	42.67	-19.03	-30.84
2–4	‡	‡	‡	‡	‡	‡	‡	‡	‡
5–13	#	10	5.61	1.24	-4.37	-77.85	3.55	-2.07	-36.82
14 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–132	‡	‡	‡	‡	‡	‡	‡	‡	‡
133–336	‡	‡	‡	‡	‡	‡	‡	‡	‡
337–727	#	10	33.54	11.80	-21.74	-64.82	18.44	-15.10	-45.02
728 or more	#	10	10.47	6.19	-4.28	-40.91	4.76	-5.71	-54.55

See notes at end of table.

Table M-7. Institution-level survey nonresponse bias analysis for selected variables—private nonprofit less-than-4-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Total male undergraduate enrollment ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–24	‡	‡	‡	‡	‡	‡	‡	‡	‡
25–64	‡	‡	‡	‡	‡	‡	‡	‡	‡
65–156	#	10	27.99	5.57	-22.42	-80.12	4.35	-23.64	-84.47
157 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total female undergraduate enrollment ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–61	‡	‡	‡	‡	‡	‡	‡	‡	‡
62–190	‡	‡	‡	‡	‡	‡	‡	‡	‡
191–530	#	10	23.82	5.61	-18.21	-76.44	12.25	-11.57	-48.57
531 or more	#	10	16.55	5.57	-10.98	-66.37	3.13	-13.41	-81.06
Percentage of undergraduate students receiving federal grant aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–63	‡	‡	‡	‡	‡	‡	‡	‡	‡
64–69	#	10	19.48	6.81	-12.67	-65.05	7.81	-11.66	-59.88
70–95	#	10	10.34	1.24	-9.10	-87.98	3.84	-6.50	-62.86
96 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving state/local grant aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
0	#	10	20.30	8.20	-12.10	-59.62	22.67	2.37	11.67
1–2	‡	‡	‡	‡	‡	‡	‡	‡	‡
3–46	‡	‡	‡	‡	‡	‡	‡	‡	‡
47 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving institution grant aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
0	‡	‡	‡	‡	‡	‡	‡	‡	‡
1–29	‡	‡	‡	‡	‡	‡	‡	‡	‡
30–68	‡	‡	‡	‡	‡	‡	‡	‡	‡
69 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-7. Institution-level survey nonresponse bias analysis for selected variables—private nonprofit less-than-4-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Percentage of undergraduate students receiving student loan aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–45	‡	‡	‡	‡	‡	‡	‡	‡	‡
46–74	‡	‡	‡	‡	‡	‡	‡	‡	‡
75–92	‡	‡	‡	‡	‡	‡	‡	‡	‡
93 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Average net price among students receiving grant or scholarship aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
\$1–\$13,259	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$13,260–\$17,825	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$17,826–\$21,423	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$21,424 or more	#	10	2.44	0.62	-1.82	-74.53	0.30	-2.14	-87.70
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–75	‡	‡	‡	‡	‡	‡	‡	‡	‡
76–90	‡	‡	‡	‡	‡	‡	‡	‡	‡
91–100	#	10	32.26	9.39	-22.87	-70.89	19.00	-13.26	-41.10
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–33	‡	‡	‡	‡	‡	‡	‡	‡	‡
34–36	‡	‡	‡	‡	‡	‡	‡	‡	‡
37 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	10	20	95.61	99.38	3.77	3.95	97.45	1.85	1.93

See notes at end of table.

Table M-7. Institution-level survey nonresponse bias analysis for selected variables—private nonprofit less-than-4-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–11	‡	‡	‡	‡	‡	‡	‡	‡	‡
12–34	‡	‡	‡	‡	‡	‡	‡	‡	‡
35–81	‡	‡	‡	‡	‡	‡	‡	‡	‡
82 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Average amount of grant and scholarship aid received ⁵					(Effect size = ‡)			(Effect size = ‡)	
\$0–\$4,895	#	10	13.15	0.62	-12.53	-95.27	0.93	-12.22	-92.91
\$4,896–\$5,425	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$5,426–\$5,995	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$5,996 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–26	‡	‡	‡	‡	‡	‡	‡	‡	‡
27–50	#	10	19.93	3.21	-16.72	-83.92	12.04	-7.89	-39.58
51–70	‡	‡	‡	‡	‡	‡	‡	‡	‡
71 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the institution base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the institution base weight adjusted for nonresponse) and weighted full-sample mean (using the institution base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-8. Institution-level survey nonresponse bias analysis for selected variables—private nonprofit 4-year, non-doctorate-granting undergraduate-enrolling institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Carnegie classification 2015: Basic					(Effect size = ‡)			(Effect size = ‡)	
Associate's	‡	‡	‡	‡	‡	‡	‡	‡	‡
Research and doctoral	‡	‡	‡	‡	‡	‡	‡	‡	‡
Master's	60	30	23.25	21.44	-1.81	-7.77	19.64	-3.60	-15.50
Baccalaureate	150	60	51.79	57.07	5.28	10.20	56.48	4.69	9.06
Special focus and other	30	20	20.12	19.50	-0.62	-3.06	21.58	1.46	7.27
Unavailable or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Degree of urbanization					(Effect size = ‡)			(Effect size = ‡)	
Large city	40	20	19.93	18.02	-1.91	-9.58	16.02	-3.91	-19.64
Midsize city	30	10	8.15	8.90	0.75	9.24	8.55	0.40	4.96
Small city	30	10	14.60	15.63	1.04	7.09	18.03	3.43	23.49
Large suburb	40	10	22.10	20.60	-1.49	-6.75	18.20	-3.90	-17.65
Midsize suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area distant from town	50	20	14.78	15.73	0.95	6.44	17.84	3.06	20.73
Urban area remote from town	20	10	7.23	8.79	1.56	21.58	7.61	0.39	5.37
Rural area on fringe of town	10	10	4.61	3.10	-1.51	-32.75	4.46	-0.15	-3.23
Rural area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ⁴					(Effect size = ‡)			(Effect size = ‡)	
New England	30	20	8.87	7.94	-0.94	-10.58	7.14	-1.73	-19.50
Mideast	20	10	15.80	19.53	3.73	23.58	15.41	-0.39	-2.46
Great Lakes	40	20	16.03	16.20	0.17	1.09	17.06	1.04	6.46
Plains	50	20	13.24	14.20	0.96	7.25	15.72	2.48	18.76
Southeast	80	20	25.01	28.24	3.23	12.90	30.33	5.32	21.27
Southwest	10	10	4.37	3.86	-0.51	-11.77	4.23	-0.14	-3.27
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	10	10	9.68	2.61	-7.07	-73.06	3.67	-6.01	-62.07
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-8. Institution-level survey nonresponse bias analysis for selected variables—private nonprofit 4-year, non-doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Historically Black College or University					(Effect size = ‡)			(Effect size = ‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡
No or unavailable or unknown	230	100	93.12	91.60	-1.53	-1.64	91.95	-1.18	-1.26
Hispanic-Serving Institution					(Effect size = 0.09)			(Effect size = 0.10)	
Yes		10	9.50	6.81	-2.69	-28.30	6.61	-2.89	-30.42
No	240	100	90.50	93.19	2.69	2.97	93.39	2.89	3.19
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–3	60	30	18.04	17.41	-0.63	-3.50	17.42	-0.62	-3.42
4–7	60	30	28.63	30.14	1.51	5.26	27.47	-1.17	-4.07
8–16	60	20	26.49	24.39	-2.10	-7.92	28.36	1.87	7.07
17 or more	60	20	26.25	27.40	1.15	4.38	26.19	-0.06	-0.23
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–1	110	40	37.93	39.10	1.17	3.07	39.70	1.77	4.67
2	40	20	20.97	20.88	-0.08	-0.39	20.88	-0.08	-0.40
3–4	50	30	21.25	21.15	-0.10	-0.47	20.80	-0.46	-2.15
5 or more	50	20	19.25	18.19	-1.06	-5.50	18.05	-1.20	-6.24
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–4	70	30	29.21	30.34	1.13	3.87	31.84	2.63	9.01
5–7	60	30	21.95	23.36	1.41	6.41	22.84	0.89	4.06
8–11	50	30	18.50	18.73	0.23	1.22	19.24	0.74	4.02
12 or more	70	20	29.75	26.91	-2.84	-9.54	25.51	-4.24	-14.24
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁵					(Effect size = 0.15)			(Effect size = 0.03)	
1–775	60	40	29.03	22.38	-6.64	-22.89	28.85	-0.18	-0.60
776–1,392	60	30	27.48	28.13	0.65	2.37	26.43	-1.05	-3.82
1,393–2,068	70	20	24.71	28.66	3.94	15.96	25.57	0.85	3.46
2,069 or more	70	20	18.78	20.83	2.05	10.90	19.15	0.37	1.98

See notes at end of table.

Table M-8. Institution-level survey nonresponse bias analysis for selected variables—private nonprofit 4-year, non-doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Total male undergraduate enrollment ⁵					(Effect size = 0.12)			(Effect size = 0.08)	
1–306	60	40	31.79	26.79	-5.00	-15.72	30.96	-0.83	-2.60
307–568	70	20	27.19	27.34	0.15	0.56	26.58	-0.61	-2.24
569–918	60	30	22.87	24.37	1.50	6.55	21.46	-1.41	-6.15
919 or more	70	20	18.15	21.50	3.35*	18.44	20.99	2.84	15.64
Total female undergraduate enrollment ⁵					(Effect size = 0.15)			(Effect size = 0.02)	
1–413	60	30	26.64	21.26	-5.39	-20.22	25.87	-0.77	-2.91
414–763	60	30	28.61	27.33	-1.28	-4.47	28.20	-0.41	-1.44
764–1,186	70	20	24.18	27.34	3.16	13.05	24.92	0.74	3.06
1,187 or more	70	20	20.56	24.07	3.51	17.07	21.01	0.45	2.18
Percentage of undergraduate students receiving federal grant aid ⁵					(Effect size = 0.14)			(Effect size = 0.10)	
1–33	60	30	23.20	25.48	2.27	9.80	23.77	0.57	2.45
34–50	70	20	23.23	25.29	2.06	8.88	27.03	3.80	16.35
51–80	60	30	23.50	21.59	-1.91	-8.12	21.71	-1.79	-7.61
81 or more	60	30	22.65	23.49	0.84	3.72	20.61	-2.04	-9.00
None or unknown	10	10	7.42	4.15	-3.27	-44.11	6.88	-0.54	-7.29
Percentage of undergraduate students receiving state/local grant aid ⁵					(Effect size = 0.13)			(Effect size = 0.08)	
1–10	60	30	22.68	22.96	0.28	1.24	20.48	-2.21	-9.73
11–25	60	30	19.62	20.34	0.72	3.65	20.59	0.97	4.97
26–46	70	20	27.20	26.98	-0.22	-0.79	26.07	-1.13	-4.16
47 or more	60	20	23.08	25.57	2.49	10.79	25.98	2.90	12.58
None or unknown	10	10	7.42	4.15	-3.27	-44.11	6.88	-0.54	-7.29
Percentage of undergraduate students receiving institution grant aid ⁵					(Effect size = 0.16)			(Effect size = 0.05)	
1–79	60	30	29.03	28.46	-0.58	-1.99	27.74	-1.30	-4.47
80–98	70	20	22.60	27.20	4.60*	20.36	24.32	1.72	7.61
99–100	110	50	40.95	40.20	-0.75	-1.84	41.07	0.12	0.29
None or unknown	10	10	7.42	4.15	-3.27	-44.11	6.88	-0.54	-7.29

See notes at end of table.

Table M-8. Institution-level survey nonresponse bias analysis for selected variables—private nonprofit 4-year, non-doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Percentage of undergraduate students receiving student loan aid ⁵					(Effect size = 0.14)		(Effect size = 0.08)		
1–51	60	20	23.57	22.91	-0.66	-2.78	20.75	-2.82	-11.96
52–68	60	30	23.41	24.11	0.70	3.00	25.25	1.84	7.85
69–77	70	20	21.99	24.73	2.75	12.49	23.17	1.18	5.38
78 or more	50	30	23.61	24.09	0.48	2.03	23.95	0.34	1.44
None or unknown	10	10	7.42	4.15	-3.27	-44.11	6.88	-0.54	-7.29
Average net price among students receiving grant or scholarship aid ⁵					(Effect size = 0.13)		(Effect size = 0.08)		
\$1–\$17,785	60	30	26.26	27.93	1.67	6.36	29.44	3.17	12.08
\$17,786–\$22,359	60	20	19.98	20.30	0.33	1.64	18.73	-1.24	-6.23
\$22,360–\$26,628	60	30	23.34	23.71	0.37	1.58	22.41	-0.94	-4.01
\$26,629 or more	70	20	22.86	23.90	1.05	4.58	22.55	-0.31	-1.36
None or unknown	10	10	7.56	4.15	-3.41	-45.15	6.88	-0.68	-9.03
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					(Effect size = 0.17)		(Effect size = 0.09)		
1–95	70	20	32.72	36.12	3.40	10.38	33.48	0.75	2.30
96–99	70	30	23.65	22.23	-1.42	-6.00	22.57	-1.08	-4.57
100	110	50	38.13	39.79	1.66	4.34	40.23	2.10	5.50
None or unknown	10	10	5.50	1.86	-3.63	-66.13	3.73	-1.77	-32.15
Number of full-time, first-time undergraduate students living on campus ⁵					(Effect size = 0.18)		(Effect size = 0.09)		
0–137	50	30	20.44	18.66	-1.78	-8.71	19.12	-1.32	-6.46
138–233	50	20	21.18	20.29	-0.89	-4.22	20.22	-0.97	-4.57
234–369	60	20	19.74	24.93	5.19*	26.29	22.65	2.90	14.70
370 or more	60	20	17.15	19.95	2.79	16.29	18.29	1.14	6.63
Unknown	30	20	21.48	16.17	-5.31	-24.73	19.73	-1.75	-8.16

See notes at end of table.

Table M-8. Institution-level survey nonresponse bias analysis for selected variables—private nonprofit 4-year, non-doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁵					(Effect size = 0.17)		(Effect size = 0.11)		
0–26	50	40	22.13	18.55	-3.58	-16.19	20.38	-1.75	-7.89
27–43	60	30	25.66	25.01	-0.65	-2.53	23.30	-2.36	-9.21
44–72	70	20	23.89	28.97	5.08*	21.25	28.30	4.41	18.45
73 or more	70	20	19.63	21.87	2.24	11.42	19.80	0.17	0.87
Unknown	20	10	8.69	5.60	-3.09	-35.51	8.22	-0.47	-5.42
Average amount of grant and scholarship aid received ⁵					(Effect size = 0.18)		(Effect size = 0.08)		
\$0–\$11,821	60	30	28.41	28.43	0.03	0.10	29.25	0.84	2.96
\$11,822–\$19,702	60	30	21.55	23.68	2.13	9.90	22.55	1.00	4.65
\$19,703–\$26,070	60	20	23.32	21.23	-2.09	-8.94	21.72	-1.60	-6.86
\$26,071 or more	60	20	21.09	24.58	3.49	16.56	22.37	1.28	6.07
Unknown	10	10	5.64	2.07	-3.57	-63.28	4.11	-1.52	-27.01
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁵					(Effect size = 0.22)		(Effect size = 0.18)		
0–40	60	30	23.87	25.50	1.63	6.83	24.60	0.72	3.03
41–54	70	20	20.60	23.22	2.62	12.74	25.63	5.03	24.43
55–69	60	30	24.08	20.68	-3.40	-14.12	19.29	-4.79	-19.89
70 or more	60	20	23.47	27.63	4.17	17.77	25.10	1.63	6.96
Unknown	10	10	7.99	2.96	-5.02	-62.92	5.39	-2.60	-32.52

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the institution base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the institution base weight adjusted for nonresponse) and weighted full-sample mean (using the institution base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-9. Institution-level survey nonresponse bias analysis for selected variables—private nonprofit 4-year, doctorate-granting undergraduate-enrolling institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Carnegie classification 2015: Basic					(Effect size = ‡)			(Effect size = ‡)	
Associate's	‡	‡	‡	‡	‡	‡	‡	‡	‡
Research and doctoral	80	20	17.95	18.30	0.36	1.99	18.63	0.68	3.79
Master's	150	50	43.75	44.04	0.29	0.67	45.02	1.27	2.91
Baccalaureate	30	10	6.38	6.94	0.56	8.76	7.50	1.12	17.54
Special focus and other	40	20	31.75	30.71	-1.04	-3.28	28.85	-2.90	-9.14
Unavailable or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Degree of urbanization					(Effect size = ‡)			(Effect size = ‡)	
Large city	100	20	33.32	31.45	-1.87	-5.60	31.13	-2.19	-6.57
Midsized city	40	20	13.40	12.30	-1.09	-8.17	12.73	-0.67	-5.01
Small city	40	20	11.39	11.04	-0.34	-3.02	12.72	1.34	11.75
Large suburb	50	20	27.86	29.48	1.62	5.83	27.09	-0.77	-2.75
Midsized suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area distant from town	20	10	4.85	5.12	0.27	5.59	5.62	0.77	15.92
Urban area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ⁴					(Effect size = ‡)			(Effect size = ‡)	
New England	20	20	7.89	5.97	-1.92*	-24.36	5.90	-1.99*	-25.25
Mideast	50	20	18.05	17.96	-0.09	-0.51	16.85	-1.20	-6.64
Great Lakes	50	10	21.64	25.15	3.51	16.21	23.88	2.23	10.33
Plains	40	10	9.21	8.71	-0.50	-5.44	10.22	1.00	10.91
Southeast	70	20	18.88	20.03	1.14	6.05	20.84	1.96	10.36
Southwest	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	30	10	14.33	10.22	-4.12	-28.73	10.96	-3.37	-23.52
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-9. Institution-level survey nonresponse bias analysis for selected variables—private nonprofit 4-year, doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Historically Black College or University					(Effect size = ‡)			(Effect size = ‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡
No or unavailable or unknown	280	90	97.79	97.35	-0.43	-0.44	97.69	-0.10	-0.10
Hispanic-Serving Institution					(Effect size = 0.06)			(Effect size = 0.02)	
Yes	30	10	10.20	11.87	1.67	16.39	10.92	0.73	7.15
No	250	90	89.80	88.13	-1.67	-1.86	89.08	-0.73	-0.81
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–4	80	30	24.68	24.09	-0.59	-2.39	24.17	-0.51	-2.06
5–7	70	10	21.95	19.06	-2.89	-13.18	20.69	-1.26	-5.73
8–12	60	20	17.76	17.75	-0.01	-0.07	19.41	1.65	9.28
13 or more	60	30	24.11	24.22	0.12	0.48	23.91	-0.19	-0.79
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–2	110	40	33.74	34.78	1.04	3.08	35.95	2.21	6.56
3	40	10	13.68	14.69	1.01	7.36	16.04	2.36	17.24
4–7	60	30	18.93	17.35	-1.58	-8.33	17.50	-1.43	-7.58
8 or more	70	20	22.15	18.30	-3.85	-17.38	18.70	-3.45	-15.56
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–5	70	30	27.43	21.55	-5.88	-21.44	24.04	-3.39	-12.35
6–9	60	30	17.87	16.56	-1.31	-7.34	19.07	1.20	6.71
10–14	80	20	17.22	18.09	0.87	5.07	17.80	0.58	3.37
15 or more	70	20	25.98	28.92	2.94	11.33	27.27	1.30	5.00
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁵					(Effect size = 0.02)			(Effect size = 0.04)	
1–1,448	70	20	40.13	40.06	-0.07	-0.18	38.92	-1.22	-3.03
1,449–2,936	70	20	22.96	23.03	0.07	0.30	23.57	0.61	2.65
2,937–5,459	70	20	19.46	20.05	0.59	3.05	20.54	1.08	5.57
5,460 or more	70	30	17.45	16.86	-0.59	-3.39	16.97	-0.48	-2.74

See notes at end of table.

Table M-9. Institution-level survey nonresponse bias analysis for selected variables—private nonprofit 4-year, doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Total male undergraduate enrollment ⁵					(Effect size = 0.02)		(Effect size = 0.07)		
1–526	70	30	41.56	41.18	-0.38	-0.91	38.70	-2.86	-6.88
527–1,151	80	20	21.62	22.48	0.86	3.98	24.39	2.77	12.81
1,152–2,357	70	20	19.77	19.59	-0.18	-0.90	19.91	0.15	0.75
2,358 or more	70	20	17.05	16.74	-0.30	-1.77	16.99	-0.06	-0.33
Total female undergraduate enrollment ⁵					(Effect size = 0.02)		(Effect size = 0.03)		
1–889	70	20	40.26	40.46	0.19	0.48	39.78	-0.48	-1.19
890–1,777	70	30	23.24	22.93	-0.32	-1.36	23.08	-0.17	-0.72
1,778–3,054	70	20	18.92	19.54	0.63	3.31	19.95	1.03	5.47
3,055 or more	70	20	17.58	17.07	-0.50	-2.87	17.19	-0.39	-2.21
Percentage of undergraduate students receiving federal grant aid ⁵					(Effect size = 0.15)		(Effect size = 0.12)		
1–25	70	20	21.95	17.15	-4.81	-21.89	17.72	-4.23	-19.28
26–44	60	30	17.44	15.88	-1.56	-8.93	16.72	-0.72	-4.11
45–72	70	20	22.95	25.21	2.25	9.82	25.42	2.47	10.75
73 or more	70	20	21.89	22.44	0.55	2.53	21.91	0.02	0.10
None or unknown	20	10	15.77	19.32	3.56	22.55	18.23	2.46	15.60
Percentage of undergraduate students receiving state/local grant aid ⁵					(Effect size = 0.12)		(Effect size = 0.11)		
1–8	70	20	25.03	21.40	-3.63	-14.51	21.09	-3.94	-15.73
9–24	60	30	17.22	16.01	-1.21	-7.02	16.25	-0.97	-5.62
25–42	60	20	21.45	21.66	0.20	0.95	22.37	0.92	4.28
43 or more	70	20	20.54	21.62	1.08	5.26	22.06	1.53	7.43
None or unknown	20	10	15.77	19.32	3.56	22.55	18.23	2.46	15.60
Percentage of undergraduate students receiving institution grant aid ⁵					(Effect size = 0.13)		(Effect size = 0.09)		
1–77	70	20	22.83	18.29	-4.53	-19.86	19.52	-3.30	-14.47
78–97	70	30	25.74	26.46	0.72	2.79	25.54	-0.20	-0.78
98–99	60	20	17.05	17.25	0.20	1.15	17.56	0.51	2.98
100 or more	60	20	18.61	18.68	0.07	0.35	19.15	0.53	2.87
None or unknown	20	10	15.77	19.32	3.56	22.55	18.23	2.46	15.60

See notes at end of table.

Table M-9. Institution-level survey nonresponse bias analysis for selected variables—private nonprofit 4-year, doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Percentage of undergraduate students receiving student loan aid ⁵					(Effect size = 0.13)		(Effect size = 0.09)		
1–46	70	20	22.39	18.62	-3.77	-16.84	19.60	-2.78	-12.44
47–62	70	20	20.22	21.16	0.93	4.60	20.79	0.57	2.81
63–72	70	20	21.21	22.02	0.81	3.83	22.19	0.98	4.62
73 or more	60	30	20.42	18.89	-1.53	-7.49	19.19	-1.22	-6.00
None or unknown	20	10	15.77	19.32	3.56	22.55	18.23	2.46	15.60
Average net price among students receiving grant or scholarship aid ⁵					(Effect size = 0.07)		(Effect size = 0.10)		
\$1–\$19,342	70	20	23.77	26.05	2.28	9.58	27.02	3.24	13.63
\$19,343–\$24,386	70	20	17.81	18.77	0.96	5.40	19.31	1.50	8.42
\$24,387–\$29,981	70	20	19.91	19.51	-0.40	-1.99	19.41	-0.50	-2.51
\$29,982 or more	60	30	17.60	16.34	-1.26	-7.17	16.04	-1.56	-8.87
None or unknown	20	10	20.91	19.32	-1.58	-7.57	18.23	-2.68	-12.82
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					(Effect size = 0.10)		(Effect size = 0.07)		
1–90	70	20	25.52	22.60	-2.92	-11.44	23.17	-2.35	-9.19
91–98	80	20	21.79	21.96	0.17	0.79	21.92	0.13	0.62
99–100	120	40	36.80	36.12	-0.68	-1.84	36.68	-0.12	-0.32
None or unknown	20	10	15.90	19.32	3.42	21.54	18.23	2.33	14.65
Number of full-time, first-time undergraduate students living on campus ⁵					(Effect size = 0.06)		(Effect size = 0.10)		
0–194	60	20	22.34	23.57	1.23	5.51	23.64	1.30	5.82
195–415	70	20	17.01	18.30	1.29	7.59	19.15	2.15	12.61
416–738	70	20	17.66	18.24	0.59	3.34	18.85	1.20	6.79
739 or more	60	30	15.52	14.26	-1.26	-8.14	14.35	-1.17	-7.51
Unknown	30	20	27.47	25.63	-1.85	-6.73	24.00	-3.48	-12.66

See notes at end of table.

Table M-9. Institution-level survey nonresponse bias analysis for selected variables—private nonprofit 4-year, doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁵					(Effect size = 0.04)		(Effect size = 0.07)		
0–43	70	20	22.14	23.12	0.99	4.45	23.49	1.36	6.13
44–68	70	20	19.90	19.74	-0.16	-0.82	19.97	0.07	0.33
69–124	70	20	19.81	20.04	0.22	1.13	20.98	1.17	5.92
125 or more	70	20	17.08	17.57	0.49	2.85	17.10	0.03	0.15
Unknown	20	10	21.07	19.54	-1.53	-7.28	18.45	-2.62	-12.44
Average amount of grant and scholarship aid received ⁵					(Effect size = 0.05)		(Effect size = 0.07)		
\$0–\$15,784	70	20	22.00	23.34	1.34	6.10	23.52	1.52	6.91
\$15,785–\$22,032	60	20	18.94	18.69	-0.25	-1.30	18.99	0.05	0.26
\$22,033–\$27,903	70	20	20.62	20.45	-0.17	-0.81	20.66	0.04	0.20
\$27,904 or more	70	20	17.57	18.19	0.62	3.51	18.61	1.03	5.88
Unknown	20	10	20.87	19.32	-1.55	-7.42	18.23	-2.64	-12.67
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁵					(Effect size = 0.13)		(Effect size = 0.09)		
0–50	70	20	23.48	25.39	1.91	8.16	25.57	2.10	8.94
51–62	70	20	19.06	18.50	-0.56	-2.96	19.37	0.31	1.63
63–75	60	20	19.39	18.79	-0.60	-3.09	18.77	-0.63	-3.23
76 or more	70	20	22.26	18.24	-4.02	-18.08	18.87	-3.40	-15.25
Unknown	20	10	15.81	19.08	3.27	20.71	17.42	1.61	10.20

Rounds to zero.

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the institution base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the institution base weight adjusted for nonresponse) and weighted full-sample mean (using the institution base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-10. Institution-level survey nonresponse bias analysis for selected variables—private for-profit less-than-2-year undergraduate-enrolling institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Degree of urbanization					(Effect size = ‡)			(Effect size = ‡)	
Large city	20	30	25.50	26.26	0.76	2.96	21.45	-4.05	-15.90
Midsized city	10	30	17.17	8.15	-9.02	-52.55	10.27	-6.90	-40.18
Small city	20	20	14.49	14.01	-0.48	-3.29	22.31	7.82	53.99
Large suburb	30	40	27.55	37.00	9.45	34.31	33.93	6.38	23.15
Midsized suburb	10	10	4.63	5.28	0.65	13.92	4.07	-0.56	-12.14
Small suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area remote from town	#	10	3.07	0.84	-2.23	-72.52	0.61	-2.46	-80.08
Rural area on fringe of town	#	10	1.24	0.21	-1.03	-83.06	0.41	-0.84	-67.17
Rural area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ⁴					(Effect size = ‡)			(Effect size = ‡)	
New England	20	20	3.59	4.72	1.12	31.27	5.94	2.35	65.30
Mideast	20	10	10.70	20.95	10.25	95.80	18.09	7.39	69.07
Great Lakes	#	10	15.15	21.43	6.28	41.45	21.13	5.98	39.48
Plains	#	10	4.55	1.62	-2.93	-64.31	1.32	-3.23	-70.97
Southeast	20	40	22.85	29.57	6.73	29.44	29.34	6.49	28.42
Southwest	10	10	14.58	8.25	-6.33	-43.41	8.95	-5.63	-38.60
Rocky Mountains	10	20	3.98	3.08	-0.90	-22.58	2.36	-1.63	-40.86
Far West	10	10	20.53	10.38	-10.15	-49.46	12.88	-7.66	-37.29
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡
Hispanic-Serving Institution					(Effect size = 0.03)			(Effect size = 0.15)	
Yes	30	30	40.94	39.38	-1.56	-3.80	33.68	-7.26	-17.73
No	70	110	59.06	60.62	1.56	2.63	66.32	7.26	12.29

See notes at end of table.

Table M-10. Institution-level survey nonresponse bias analysis for selected variables—private for-profit less-than-2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–2	30	40	18.38	12.01	-6.36	-34.62	13.68	-4.70	-25.57
3–15	30	30	28.89	24.22	-4.67	-16.16	23.05	-5.84	-20.22
16–40	30	30	32.77	38.07	5.30	16.18	36.76	4.00	12.20
41 or more	20	40	18.89	25.70	6.81	36.04	26.51	7.62	40.35
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0	40	50	29.78	32.66	2.88	9.68	36.73	6.96	23.37
1	20	20	13.65	20.73	7.08	51.84	22.37	8.72	63.88
2–3	20	40	24.97	21.22	-3.75	-15.03	18.58	-6.39	-25.58
4 or more	20	30	30.52	25.40	-5.13	-16.80	22.31	-8.21	-26.90
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–3	20	40	17.66	24.48	6.82	38.65	26.45	8.79	49.80
4–8	30	30	16.23	10.25	-5.98	-36.86	15.37	-0.86	-5.29
9–24	20	30	23.24	25.21	1.96	8.45	22.51	-0.73	-3.14
25 or more	30	30	41.79	40.06	-1.73	-4.13	35.66	-6.13	-14.66
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁵					(Effect size = 0.25)			(Effect size = 0.37)	
1–97	20	40	28.20	23.32	-4.88	-17.32	25.12	-3.08	-10.93
98–210	20	40	32.92	32.60	-0.33	-1.00	27.67	-5.26	-15.97
211–402	30	30	20.93	17.16	-3.77	-18.03	15.39	-5.54	-26.47
403 or more	30	30	17.95	26.93	8.99	50.08	31.82	13.88*	77.33
Total male undergraduate enrollment ⁵					(Effect size = 0.08)			(Effect size = 0.06)	
1–5	30	40	36.55	36.71	0.15	0.42	35.29	-1.27	-3.46
6–19	20	40	17.88	18.13	0.24	1.36	16.95	-0.93	-5.23
20–57	30	30	26.32	28.64	2.32	8.82	28.78	2.46	9.33
58 or more	30	30	19.24	16.52	-2.72	-14.13	18.99	-0.26	-1.33

See notes at end of table.

Table M-10. Institution-level survey nonresponse bias analysis for selected variables—private for-profit less-than-2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Total female undergraduate enrollment ⁵					(Effect size = 0.34)		(Effect size = 0.40)		
1–71	20	40	27.47	22.19	-5.28	-19.24	24.06	-3.42	-12.44
72–171	20	40	34.35	33.49	-0.86	-2.50	27.93	-6.42	-18.68
172–300	20	40	19.53	13.17	-6.36	-32.57	13.88	-5.65	-28.93
301 or more	30	30	18.65	31.15	12.51*	67.06	34.13	15.49*	83.04
Percentage of undergraduate students receiving federal grant aid ⁵					(Effect size = 0.34)		(Effect size = 0.33)		
1–59	30	30	23.90	35.52	11.62	48.63	31.00	7.10	29.71
60–75	20	40	18.61	21.24	2.63	14.14	19.80	1.20	6.43
76–90	20	40	31.01	25.37	-5.64	-18.19	31.00	-0.01	-0.03
91 or more	20	30	23.12	13.20	-9.92	-42.89	11.60	-11.52	-49.84
None or unknown	10	10	3.36	4.67	1.30	38.79	6.60	3.24	96.24
Percentage of undergraduate students receiving state/local grant aid ⁵					(Effect size = 0.21)		(Effect size = 0.27)		
0	50	90	74.39	69.25	-5.14	-6.91	64.89	-9.50	-12.77
1–3	20	10	6.84	11.81	4.97	72.59	11.15	4.31	62.97
4 or more	20	30	15.41	14.28	-1.13	-7.35	17.36	1.95	12.66
None or unknown	10	10	3.36	4.67	1.30	38.79	6.60	3.24	96.24
Percentage of undergraduate students receiving institution grant aid ⁵					(Effect size = 0.46)		(Effect size = 0.35)		
0	50	70	58.37	39.19	-19.18*	-32.86	46.09	-12.28	-21.04
1–18	20	30	14.37	13.51	-0.86	-6.01	11.58	-2.78	-19.38
19 or more	20	30	23.90	42.64	18.74*	78.43	35.73	11.83	49.51
None or unknown	10	10	3.36	4.67	1.30	38.79	6.60	3.24	96.24
Percentage of undergraduate students receiving student loan aid ⁵					(Effect size = 0.42)		(Effect size = 0.54)		
1–62	20	40	30.72	19.56	-11.16	-36.32	14.88	-15.83*	-51.54
63–74	30	20	17.21	31.17	13.97*	81.17	34.18	16.97*	98.61
75–86	30	30	28.88	30.93	2.06	7.12	28.30	-0.57	-1.99
87 or more	10	40	19.84	13.66	-6.17	-31.11	16.04	-3.80	-19.15
None or unknown	10	10	3.36	4.67	1.30	38.79	6.60	3.24	96.24

See notes at end of table.

Table M-10. Institution-level survey nonresponse bias analysis for selected variables—private for-profit less-than-2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Average net price among students receiving grant or scholarship aid ⁵					(Effect size = 0.60)		(Effect size = 0.52)		
\$1–\$13,568	20	30	28.93	10.79	-18.14*	-62.71	14.06	-14.86	-51.39
\$13,569–\$16,625	20	40	24.87	16.05	-8.82	-35.48	14.00	-10.87	-43.70
\$16,626–\$20,274	20	30	23.56	45.31	21.75*	92.35	37.54	13.98*	59.34
\$20,275 or more	30	30	19.20	23.19	3.99	20.77	27.80	8.60	44.78
None or unknown	10	10	3.44	4.67	1.22	35.51	6.60	3.15	91.60
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					(Effect size = 0.33)		(Effect size = 0.18)		
1–62	20	40	17.73	15.37	-2.36	-13.33	14.82	-2.91	-16.40
63–72	20	40	19.20	11.55	-7.65	-39.85	16.39	-2.81	-14.64
73–85	30	30	28.06	24.73	-3.33	-11.87	26.38	-1.68	-5.98
86 or more	20	40	33.35	47.72	14.37	43.08	41.47	8.12	24.35
None or unknown	#	10	1.66	0.63	-1.03	-61.85	0.93	-0.72	-43.68
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁵					(Effect size = 0.30)		(Effect size = 0.38)		
0–12	20	40	37.77	25.06	-12.71	-33.64	24.66	-13.11	-34.72
13–24	20	30	23.29	23.46	0.17	0.75	19.51	-3.78	-16.22
25–54	20	30	17.17	19.79	2.63	15.29	20.44	3.27	19.04
55 or more	30	20	18.33	27.01	8.68	47.38	28.80	10.47	57.11
Unknown	10	10	3.44	4.67	1.22	35.51	6.60	3.15	91.60
Average amount of grant and scholarship aid received ⁵					(Effect size = 0.24)		(Effect size = 0.24)		
\$0–\$4,175	30	30	21.93	19.22	-2.71	-12.38	24.95	3.02	13.77
\$4,176–\$4,843	30	30	17.61	18.22	0.61	3.48	21.82	4.21	23.92
\$4,844–\$5,437	20	40	22.20	31.43	9.22	41.55	26.41	4.21	18.98
\$5,438 or more	20	40	36.44	30.51	-5.93	-16.29	25.88	-10.56	-28.97
Unknown	#	10	1.82	0.63	-1.19	-65.26	0.93	-0.89	-48.72

See notes at end of table.

Table M-10. Institution-level survey nonresponse bias analysis for selected variables—private for-profit less-than-2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁵					(Effect size = 0.48)		(Effect size = 0.42)		
0–59	30	30	22.09	32.51	10.42	47.19	36.07	13.98*	63.30
60–70	20	30	23.95	37.14	13.18	55.04	29.50	5.54	23.14
71–79	20	40	30.61	17.63	-12.99	-42.42	20.30	-10.31	-33.69
80 or more	20	30	20.39	11.88	-8.51	-41.75	13.03	-7.36	-36.11
Unknown	#	10	2.95	0.84	-2.11	-71.44	1.10	-1.85	-62.69

Rounds to zero.

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the institution base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the institution base weight adjusted for nonresponse) and weighted full-sample mean (using the institution base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-11. Institution-level survey nonresponse bias analysis for selected variables—private for-profit 2-year undergraduate-enrolling institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Carnegie classification 2015: Basic					(Effect size = ‡)			(Effect size = ‡)	
Associate's	40	40	70.09	77.32	7.23	10.32	70.34	0.26	0.37
Research and doctoral	‡	‡	‡	‡	‡	‡	‡	‡	‡
Master's	‡	‡	‡	‡	‡	‡	‡	‡	‡
Baccalaureate	‡	‡	‡	‡	‡	‡	‡	‡	‡
Special focus and other	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unavailable or unknown	30	30	29.70	22.26	-7.44	-25.06	29.06	-0.65	-2.19
Degree of urbanization					(Effect size = ‡)			(Effect size = ‡)	
Large city	30	20	21.87	16.41	-5.47	-24.99	15.92	-5.96	-27.24
Midsized city	10	10	5.01	6.74	1.73	34.47	9.54	4.53	90.31
Small city	10	10	7.56	6.04	-1.52	-20.11	11.96	4.39	58.08
Large suburb	20	20	40.84	52.96	12.11	29.65	47.47	6.63	16.22
Midsized suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area remote from town	#	10	6.41	0.37	-6.04	-94.21	0.21	-6.20	-96.79
Rural area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ⁴					(Effect size = ‡)			(Effect size = ‡)	
New England	‡	‡	‡	‡	‡	‡	‡	‡	‡
Mideast	‡	‡	‡	‡	‡	‡	‡	‡	‡
Great Lakes	‡	‡	‡	‡	‡	‡	‡	‡	‡
Plains	10	10	8.70	5.91	-2.79	-32.09	3.33	-5.37	-61.74
Southeast	20	10	29.77	42.60	12.83	43.09	38.61	8.84	29.68
Southwest	10	10	10.97	7.40	-3.57	-32.56	8.82	-2.15	-19.58
Rocky Mountains	10	10	4.87	3.34	-1.53	-31.39	3.00	-1.86	-38.29
Far West	10	20	15.20	11.60	-3.60	-23.71	26.05	10.85	71.36
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-11. Institution-level survey nonresponse bias analysis for selected variables—private for-profit 2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Hispanic-Serving Institution					(Effect size = 0.12)			(Effect size = 0.10)	
Yes	20	20	28.85	23.32	-5.53	-19.16	24.51	-4.34	-15.05
No	50	50	71.15	76.68	5.53	7.77	75.49	4.34	6.10
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁵					(Effect size = 0.36)			(Effect size = 0.41)	
0–3	20	20	22.32	11.09	-11.22	-50.29	9.92	-12.40	-55.55
4–11	10	20	19.00	26.98	7.98	42.02	30.33	11.33	59.60
12–27	20	20	39.77	43.12	3.35	8.42	43.62	3.85	9.67
28 or more	20	10	15.01	18.43	3.42	22.79	15.62	0.62	4.10
Unknown	#	10	3.90	0.37	-3.53	-90.49	0.51	-3.39	-86.89
Percentage of undergraduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁵					(Effect size = 0.43)			(Effect size = 0.40)	
0–1	40	20	41.41	49.85	8.44	20.38	37.72	-3.69	-8.90
2	10	10	12.34	4.29	-8.05	-65.26	4.78	-7.56	-61.24
3–4	10	10	14.53	24.62	10.09	69.46	24.64	10.11	69.59
5 or more	10	20	27.83	20.88	-6.95	-24.98	32.35	4.52	16.25
Unknown	#	10	3.90	0.37	-3.53	-90.49	0.51	-3.39	-86.89
Percentage of undergraduate students enrolled: Hispanic ⁵					(Effect size = 0.30)			(Effect size = 0.28)	
0–5	20	20	31.83	41.62	9.79	30.75	31.62	-0.22	-0.68
6–15	20	10	25.00	25.77	0.77	3.07	34.64	9.64	38.56
16–31	20	20	17.46	10.90	-6.56	-37.59	12.58	-4.88	-27.96
32 or more	10	20	21.81	21.34	-0.47	-2.14	20.66	-1.15	-5.28
Unknown	#	10	3.90	0.37	-3.53	-90.49	0.51	-3.39	-86.89
Total undergraduate enrollment ⁵					(Effect size = 0.13)			(Effect size = 0.10)	
1–208	20	20	35.88	35.84	-0.04	-0.10	35.10	-0.78	-2.18
209–609	20	20	27.32	27.75	0.43	1.56	27.66	0.34	1.23
610–1,087	20	10	23.89	27.29	3.40	14.24	26.94	3.05	12.77
1,088 or more	10	20	12.91	9.12	-3.79	-29.37	10.31	-2.60	-20.17

See notes at end of table.

Table M-11. Institution-level survey nonresponse bias analysis for selected variables—private for-profit 2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Total male undergraduate enrollment ⁵					(Effect size = 0.26)		(Effect size = 0.18)		
1–21	10	20	18.42	16.48	-1.94	-10.55	24.57	6.14	33.35
22–93	20	10	26.45	36.94	10.48	39.63	24.80	-1.65	-6.25
94–309	20	20	29.62	21.59	-8.04	-27.13	23.87	-5.75	-19.42
310 or more	20	20	25.50	25.00	-0.50	-1.97	26.76	1.26	4.95
Total female undergraduate enrollment ⁵					(Effect size = 0.09)		(Effect size = 0.17)		
1–111	20	20	28.61	25.26	-3.34	-11.69	35.77	7.16	25.03
112–272	20	20	35.17	38.25	3.08	8.75	28.69	-6.48	-18.42
273–663	20	10	22.48	21.61	-0.87	-3.85	22.50	0.02	0.10
664 or more	20	20	13.74	14.87	1.13	8.25	13.04	-0.70	-5.12
Percentage of undergraduate students receiving federal grant aid ⁵					(Effect size = 0.47)		(Effect size = 0.49)		
1–67	20	20	17.92	25.39	7.47	41.68	33.21	15.29	85.31
68–76	10	20	31.02	18.14	-12.88	-41.52	18.66	-12.36	-39.85
77–90	20	20	20.21	10.65	-9.56	-47.29	12.20	-8.01	-39.64
91 or more	20	10	21.86	36.17	14.30	65.42	28.72	6.86	31.36
None or unknown	#	10	8.99	9.65	0.67	7.43	7.22	-1.77	-19.69
Percentage of undergraduate students receiving state/local grant aid ⁵					(Effect size = 0.29)		(Effect size = 0.34)		
0	30	30	30.28	26.25	-4.03	-13.31	35.94	5.66	18.70
1–2	10	10	12.01	21.09	9.08	75.60	20.28	8.28	68.91
3–10	10	10	15.83	14.72	-1.12	-7.06	15.96	0.12	0.78
11 or more	20	10	32.90	28.30	-4.60	-13.98	20.61	-12.29	-37.36
None or unknown	#	10	8.99	9.65	0.67	7.43	7.22	-1.77	-19.69
Percentage of undergraduate students receiving institution grant aid ⁵					(Effect size = 0.43)		(Effect size = 0.28)		
0	40	20	31.42	20.77	-10.65	-33.89	33.97	2.56	8.15
1	#	10	10.08	16.07	5.99	59.43	14.04	3.96	39.28
2–23	10	20	25.63	39.38	13.75	53.65	31.04	5.41	21.10
24 or more	20	20	23.89	14.12	-9.76	-40.87	13.73	-10.16	-42.52
None or unknown	#	10	8.99	9.65	0.67	7.43	7.22	-1.77	-19.69

See notes at end of table.

Table M-11. Institution-level survey nonresponse bias analysis for selected variables—private for-profit 2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Percentage of undergraduate students receiving student loan aid ⁵					(Effect size = 0.17)		(Effect size = 0.14)		
1–67	20	20	37.78	44.71	6.94	18.36	44.45	6.67	17.67
68–76	20	20	15.07	11.20	-3.87	-25.71	12.93	-2.14	-14.18
77–84	20	20	25.66	24.20	-1.46	-5.68	23.66	-1.99	-7.76
85 or more	20	10	12.51	10.24	-2.27	-18.17	11.74	-0.78	-6.20
None or unknown	#	10	8.99	9.65	0.67	7.43	7.22	-1.77	-19.69
Average net price among students receiving grant or scholarship aid ⁵					(Effect size = 0.28)		(Effect size = 0.26)		
\$1–\$14,767	10	20	21.86	23.86	2.00	9.15	17.90	-3.96	-18.11
\$14,768–\$20,156	10	20	12.34	7.72	-4.61	-37.40	16.57	4.24	34.35
\$20,157–\$22,972	20	20	25.33	17.00	-8.33	-32.90	18.56	-6.77	-26.73
\$22,973 or more	30	10	31.30	41.40	10.09	32.24	39.57	8.27	26.40
None or unknown	#	10	9.17	10.02	0.85	9.31	7.40	-1.77	-19.32
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					(Effect size = 0.35)		(Effect size = 0.39)		
1–59	20	20	21.49	25.52	4.03	18.76	34.47	12.98	60.43
60–73	20	20	20.30	17.68	-2.62	-12.91	23.26	2.96	14.57
74–85	20	20	28.64	15.66	-12.97	-45.30	15.17	-13.47	-47.04
86 or more	20	10	20.88	31.49	10.61	50.83	20.20	-0.68	-3.25
None or unknown	#	10	8.70	9.65	0.95	10.94	6.91	-1.79	-20.61
Number of full-time, first-time undergraduate students living on campus ⁵					(Effect size = ‡)		(Effect size = ‡)		
0	‡	‡	‡	‡	‡	‡	‡	‡	‡
1–8	‡	‡	‡	‡	‡	‡	‡	‡	‡
9–59	‡	‡	‡	‡	‡	‡	‡	‡	‡
60 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	70	70	87.76	83.14	-4.62	-5.26	84.28	-3.49	-3.97

See notes at end of table.

Table M-11. Institution-level survey nonresponse bias analysis for selected variables—private for-profit 2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁵					(Effect size = 0.24)		(Effect size = 0.28)		
0–16	20	20	36.87	42.18	5.31	14.41	42.36	5.49	14.88
17–55	20	10	17.26	19.28	2.03	11.75	21.68	4.43	25.66
56–97	20	20	18.81	9.32	-9.49	-50.45	8.87	-9.94	-52.85
98 or more	20	20	17.89	19.19	1.30	7.24	19.69	1.80	10.06
Unknown	#	10	9.17	10.02	0.85	9.31	7.40	-1.77	-19.32
Average amount of grant and scholarship aid received ⁵					(Effect size = 0.11)		(Effect size = 0.16)		
\$0–\$4,149	20	20	25.27	24.44	-0.83	-3.28	23.58	-1.68	-6.67
\$4,150–\$4,779	20	20	20.34	22.75	2.41	11.83	23.70	3.35	16.48
\$4,780–\$5,500	20	10	10.27	12.07	1.79	17.45	13.65	3.38	32.87
\$5,501 or more	20	20	34.84	30.72	-4.12	-11.81	31.96	-2.88	-8.27
Unknown	#	10	9.28	10.02	0.75	8.03	7.12	-2.16	-23.31
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁵					(Effect size = 0.16)		(Effect size = 0.29)		
0–56	20	10	17.22	16.26	-0.96	-5.58	24.43	7.21	41.89
57–66	20	20	21.59	26.93	5.33	24.69	26.95	5.36	24.81
67–75	20	20	18.46	13.72	-4.74	-25.66	18.84	0.38	2.06
76 or more	20	20	34.22	33.82	-0.40	-1.17	23.08	-11.14	-32.56
Unknown	#	10	8.52	9.28	0.77	8.99	6.70	-1.81	-21.27

Rounds to zero.

‡ Reporting standards not met (fewer than five nonrespondents).

¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the institution base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the institution base weight adjusted for nonresponse) and weighted full-sample mean (using the institution base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-12. Institution-level survey nonresponse bias analysis for selected variables—private for-profit 4-year undergraduate-enrolling institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Carnegie classification 2015: Basic					(Effect size = ‡)			(Effect size = ‡)	
Associate's	‡	‡	‡	‡	‡	‡	‡	‡	‡
Research and doctoral	‡	‡	‡	‡	‡	‡	‡	‡	‡
Master's	10	10	12.24	10.28	-1.96	-16.02	18.78	6.54	53.38
Baccalaureate	#	20	15.83	2.80	-13.03*	-82.30	2.82	-13.01*	-82.17
Special focus and other	20	20	41.33	49.11	7.77	18.80	38.65	-2.68	-6.49
Unavailable or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Degree of urbanization					(Effect size = ‡)			(Effect size = ‡)	
Large city	20	20	50.12	55.44	5.31	10.60	52.51	2.38	4.75
Midsize city	10	10	19.13	10.00	-9.13	-47.73	10.31	-8.82	-46.10
Small city	#	10	5.62	3.79	-1.83	-32.61	4.78	-0.84	-14.99
Large suburb	20	10	20.56	28.47	7.91	38.48	30.38	9.82	47.75
Midsize suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ⁴					(Effect size = ‡)			(Effect size = ‡)	
New England	‡	‡	‡	‡	‡	‡	‡	‡	‡
Mideast	‡	‡	‡	‡	‡	‡	‡	‡	‡
Great Lakes	‡	‡	‡	‡	‡	‡	‡	‡	‡
Plains	#	10	5.52	3.67	-1.85	-33.48	3.07	-2.44	-44.30
Southeast	10	20	23.57	13.21	-10.36*	-43.96	11.40	-12.17*	-51.63
Southwest	10	10	16.13	5.08	-11.05	-68.53	9.00	-7.13	-44.21
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	10	10	15.23	20.97	5.73	37.64	26.32	11.09*	72.80
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-12. Institution-level survey nonresponse bias analysis for selected variables—private for-profit 4-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Hispanic-Serving Institution					(Effect size = 0.01)			(Effect size = 0.10)	
Yes	10	10	26.60	25.96	-0.64	-2.40	31.02	4.42	16.64
No	50	50	73.40	74.04	0.64	0.87	68.98	-4.42	-6.03
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–7	20	10	19.97	26.22	6.25	31.28	28.16	8.19	40.99
8–17	20	10	32.15	30.83	-1.31	-4.09	32.54	0.39	1.22
18–36	10	10	27.33	22.50	-4.83	-17.66	22.32	-5.01	-18.33
37 or more	10	20	15.90	13.55	-2.35	-14.78	12.04	-3.86	-24.28
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–1	20	20	33.13	19.42	-13.71*	-41.37	25.57	-7.56	-22.81
2	10	10	15.30	12.80	-2.50	-16.34	10.41	-4.89	-31.98
3–4	10	20	10.24	6.27	-3.97*	-38.74	6.03	-4.20	-41.05
5 or more	20	10	36.67	54.60	17.93*	48.89	53.03	16.36*	44.61
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–4	10	20	13.66	8.96	-4.70	-34.43	7.58	-6.07*	-44.47
5–8	10	10	18.39	16.84	-1.55	-8.44	26.13	7.74	42.11
9–17	20	10	25.63	32.57	6.93	27.05	24.95	-0.69	-2.67
18 or more	20	10	37.66	34.73	-2.92	-7.76	36.38	-1.28	-3.39
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁵					(Effect size = 0.25)			(Effect size = 0.39)	
1–597	20	10	35.56	46.09	10.52	29.59	53.59	18.03*	50.70
598–1,291	10	20	30.34	23.32	-7.02	-23.15	20.40	-9.94	-32.75
1,292–4,377	20	10	23.45	23.69	0.24	1.02	20.66	-2.79	-11.89
4,378 or more	10	20	10.65	6.91	-3.74*	-35.09	5.34	-5.30*	-49.81

See notes at end of table.

Table M-12. Institution-level survey nonresponse bias analysis for selected variables—private for-profit 4-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Total male undergraduate enrollment ⁵					(Effect size = 0.32)		(Effect size = 0.31)		
1–108	20	10	40.60	53.91	13.30*	32.76	53.99	13.39	32.98
109–328	10	20	24.88	13.47	-11.40	-45.84	16.17	-8.71	-34.99
329–1,083	20	10	22.07	22.33	0.26	1.19	22.43	0.36	1.65
1,084 or more	10	20	12.45	10.29	-2.16	-17.36	7.40	-5.05*	-40.55
Total female undergraduate enrollment ⁵					(Effect size = 0.16)		(Effect size = 0.23)		
1–344	20	10	40.22	45.51	5.29	13.16	49.95	9.73	24.20
345–948	10	20	31.29	27.70	-3.59	-11.47	28.66	-2.63	-8.41
949–3,395	20	10	17.85	19.88	2.03	11.40	16.05	-1.80	-10.09
3,396 or more	10	20	10.65	6.91	-3.74*	-35.09	5.34	-5.30*	-49.81
Percentage of undergraduate students receiving federal grant aid ⁵					(Effect size = 0.12)		(Effect size = 0.44)		
1–59	10	20	33.55	31.33	-2.22	-6.60	24.56	-8.99	-26.80
60–75	10	10	15.63	17.69	2.06	13.18	12.75	-2.89	-18.47
76–85	10	10	15.33	12.00	-3.33	-21.74	10.47	-4.85	-31.67
86 or more	20	10	24.42	26.40	1.98	8.10	28.67	4.25	17.39
None or unknown	10	10	11.07	12.58	1.51	13.64	23.55	12.48	112.78
Percentage of undergraduate students receiving state/local grant aid ⁵					(Effect size = 0.14)		(Effect size = 0.43)		
0	30	30	52.79	52.02	-0.77	-1.45	44.66	-8.13	-15.41
1–11	10	10	13.74	17.25	3.51	25.53	16.43	2.68	19.52
12 or more	10	10	22.40	18.15	-4.25	-18.98	15.36	-7.03	-31.40
None or unknown	10	10	11.07	12.58	1.51	13.64	23.55	12.48	112.78
Percentage of undergraduate students receiving institution grant aid ⁵					(Effect size = 0.29)		(Effect size = 0.57)		
0	20	10	28.24	38.99	10.74	38.04	41.84	13.60*	48.15
1–16	10	10	15.92	11.90	-4.02	-25.27	10.02	-5.90	-37.04
17–60	10	10	26.32	25.38	-0.93	-3.55	15.59	-10.73*	-40.77
61 or more	10	10	18.45	11.16	-7.30	-39.53	9.00	-9.46*	-51.25
None or unknown	10	10	11.07	12.58	1.51	13.64	23.55	12.48	112.78

See notes at end of table.

Table M-12. Institution-level survey nonresponse bias analysis for selected variables—private for-profit 4-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Percentage of undergraduate students receiving student loan aid ⁵					(Effect size = 0.09)		(Effect size = 0.47)		
1–60	10	20	33.72	31.71	-2.02	-5.98	21.36	-12.36*	-36.65
61–72	10	10	13.94	14.62	0.68	4.89	13.32	-0.62	-4.46
73–85	10	10	16.50	14.18	-2.32	-14.04	11.21	-5.29	-32.07
86 or more	20	10	24.77	26.91	2.14	8.64	30.56	5.79	23.37
None or unknown	10	10	11.07	12.58	1.51	13.64	23.55	12.48	112.78
Average net price among students receiving grant or scholarship aid ⁵					(Effect size = 0.28)		(Effect size = 0.41)		
\$1–\$17,192	20	10	10.23	11.67	1.44	14.03	11.73	1.50	14.62
\$17,193–\$21,638	10	10	17.23	16.04	-1.19	-6.91	17.02	-0.20	-1.18
\$21,639–\$26,336	10	10	28.80	17.29	-11.50	-39.95	14.63	-14.17*	-49.20
\$26,337 or more	10	10	26.24	33.82	7.58	28.90	25.89	-0.35	-1.33
None or unknown	10	10	17.51	21.18	3.68	20.99	30.73	13.23*	75.55
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					(Effect size = 0.41)		(Effect size = 0.45)		
1–67	20	10	37.15	52.68	15.53*	41.81	49.07	11.92	32.07
68–83	10	10	19.14	10.94	-8.21	-42.87	9.60	-9.54	-49.85
84–93	10	10	17.54	7.00	-10.55*	-60.11	6.88	-10.67*	-60.80
94 or more	10	10	15.81	16.23	0.42	2.66	17.03	1.21	7.68
None or unknown	10	10	10.35	13.15	2.80	27.08	17.43	7.08	68.40
Number of full-time, first-time undergraduate students living on campus ⁵					(Effect size = ‡)		(Effect size = ‡)		
0–37	‡	‡	‡	‡	‡	‡	‡	‡	‡
38–98	‡	‡	‡	‡	‡	‡	‡	‡	‡
99–128	‡	‡	‡	‡	‡	‡	‡	‡	‡
129 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	50	50	96.04	96.54	0.51	0.53	96.15	0.11	0.12

See notes at end of table.

Table M-12. Institution-level survey nonresponse bias analysis for selected variables—private for-profit 4-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁵					(Effect size = 0.32)		(Effect size = 0.43)		
0–7	10	10	30.68	40.50	9.82	32.00	34.32	3.64	11.87
8–34	10	10	11.32	11.36	0.04	0.38	9.84	-1.47	-13.03
35–115	10	10	31.63	17.58	-14.05*	-44.41	17.04	-14.58*	-46.11
116 or more	10	10	9.23	9.38	0.15	1.63	8.06	-1.17	-12.66
Unknown	10	10	17.15	21.18	4.03	23.52	30.73	13.58*	79.22
Average amount of grant and scholarship aid received ⁵					(Effect size = 0.18)		(Effect size = 0.36)		
\$0–\$4,701	10	10	35.76	41.71	5.96	16.66	33.97	-1.79	-5.01
\$4,702–\$5,827	10	10	10.90	8.46	-2.45	-22.43	13.23	2.33	21.39
\$5,828–\$7,126	10	10	24.27	19.56	-4.71	-19.40	16.57	-7.70	-31.72
\$7,127 or more	10	10	16.93	15.39	-1.54	-9.10	13.61	-3.31	-19.58
Unknown	10	10	12.15	14.88	2.74	22.53	22.61	10.47	86.20
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁵					(Effect size = 0.32)		(Effect size = 0.21)		
0–19	20	10	12.12	12.63	0.51	4.18	14.49	2.37	19.56
20–33	10	20	28.75	14.73	-14.02*	-48.77	25.96	-2.79	-9.71
34–49	10	10	25.94	30.06	4.13	15.91	19.15	-6.78	-26.16
50 or more	10	10	22.92	29.55	6.63	28.94	26.35	3.43	14.98
Unknown	10	10	10.28	13.03	2.76	26.84	14.05	3.77	36.72

Rounds to zero.

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the institution base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the institution base weight adjusted for nonresponse) and weighted full-sample mean (using the institution base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-13. Institution-level survey analysis after poststratification for selected variables—all undergraduate-enrolling institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Control and level of institution					
Public less-than-2-year	4.67	4.98	5.27	-0.60	-0.29
Public 2-year	17.18	16.78	16.82	0.36	-0.04
Public 4-year, non-doctorate-granting, primarily subbaccalaureate	3.00	2.97	2.92	0.08	0.05
Public 4-year, non-doctorate-granting, primarily baccalaureate	3.95	3.97	4.00	-0.05	-0.03
Public 4-year, doctorate-granting	6.94	6.62	6.77	0.17	-0.15
Private nonprofit less-than-4-year	7.62	4.87	3.90	3.72*	0.97
Private nonprofit 4-year, non-doctorate-granting	12.42	12.59	13.54	-1.12*	-0.95
Private nonprofit 4-year, doctorate-granting	10.96	10.71	10.71	0.25	#
Private for-profit less-than-2-year	16.62	21.88	20.14	-3.52*	1.74
Private for-profit 2-year	10.12	9.65	10.25	-0.13	-0.60
Private for-profit 4-year	6.51	4.96	5.69	0.82*	-0.73
Carnegie classification 2015: Basic					
Associate's	27.42	26.96	26.38	1.04	0.58
Research and doctoral	5.78	5.49	5.74	0.04	-0.25
Master's	13.47	12.99	12.97	0.50	0.02
Baccalaureate	10.35	10.27	10.93	-0.58*	-0.66
Special focus and other	9.33	9.00	9.29	0.04	-0.29
Unavailable or unknown	33.65	35.28	34.69	-1.04	0.59
Degree of urbanization					
Large city	22.81	24.78	21.18	1.63	3.60
Midsized city	9.10	10.97	9.09	0.01	1.88
Small city	14.15	11.90	15.34	-1.19*	-3.44
Large suburb	27.22	24.12	27.04	0.18	-2.92
Midsized suburb	2.05	2.62	2.22	-0.17	0.40
Small suburb	1.41	1.50	1.42	-0.01	0.08
Urban area on fringe of town	1.35	1.91	1.33	0.02	0.58
Urban area distant from town	7.57	6.78	8.07	-0.50*	-1.29*
Urban area remote from town	4.68	5.96	4.72	-0.04	1.24*
Rural area on fringe of town	6.83	6.43	6.56	0.27	-0.13
Rural area distant from town	1.56	2.05	1.65	-0.09	0.40
Rural area remote from town	1.29	0.98	1.38	-0.09	-0.40
Bureau of Economic Analysis region ³					
New England	7.00	6.86	7.37	-0.37	-0.51
Mideast	16.45	14.75	14.51	1.94	0.24
Great Lakes	15.45	14.62	16.34	-0.89	-1.72
Plains	6.87	7.84	7.03	-0.16	0.81
Southeast	27.01	25.05	27.33	-0.32	-2.28
Southwest	9.19	10.67	9.39	-0.20	1.28
Rocky Mountains	3.72	3.79	3.72	#	0.07
Far West	13.14	14.30	13.17	-0.03	1.13
Outlying Areas	1.16	2.12	1.14	0.02	0.98

See notes at end of table.

Table M-13. Institution-level survey analysis after poststratification for selected variables—all undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Historically Black College or University					
Yes	2.12	1.99	2.24	-0.12	-0.25
No or unavailable or unknown	97.88	98.01	97.76	0.12	0.25
Hispanic-Serving Institution					
Yes	19.88	23.26	20.41	-0.53	2.85
No	80.12	76.74	79.59	0.53	-2.85
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁴					
0–3	17.42	20.25	17.53	-0.11	2.72
4–8	23.27	22.40	21.78	1.49	0.62
9–17	24.99	21.61	25.03	-0.04	-3.42
18 or more	31.79	32.54	33.20	-1.41	-0.66
Unknown	2.52	3.19	2.45	0.07	0.74
Percentage of undergraduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁴					
0–1	41.06	39.57	42.00	-0.94	-2.43
2	15.23	16.94	15.69	-0.46	1.25
3–5	20.68	19.27	20.98	-0.30	-1.71
6 or more	20.51	21.03	18.88	1.63	2.15
Unknown	2.52	3.19	2.45	0.07	0.74
Percentage of undergraduate students enrolled: Hispanic ⁴					
0–4	27.20	25.83	27.40	-0.20	-1.57
5–9	22.09	20.86	22.20	-0.11	-1.34
10–20	23.75	23.23	22.82	0.93	0.41
21 or more	24.44	26.88	25.13	-0.69	1.75
Unknown	2.52	3.19	2.45	0.07	0.74
Total undergraduate enrollment ⁴					
1–971	49.46	51.69	50.61	-1.15	1.08
972–3,050	21.43	20.18	20.65	0.78	-0.47
3,051–8,528	15.13	14.54	14.91	0.22	-0.37
8,529 or more	13.97	13.59	13.84	0.13	-0.25
Total male undergraduate enrollment ⁴					
1–378	48.32	50.81	49.45	-1.13	1.36
379–1,204	22.42	20.93	21.75	0.67	-0.82
1,205–3,530	15.31	14.68	14.97	0.34	-0.29
3,531 or more	13.96	13.58	13.82	0.14	-0.24
Total female undergraduate enrollment ⁴					
1–566	46.87	49.42	47.91	-1.04	1.51
567–1,780	23.96	22.28	23.28	0.68	-1.00
1,781–4,918	15.24	14.71	15.02	0.22	-0.31
4,919 or more	13.93	13.59	13.79	0.14	-0.20

See notes at end of table.

Table M-13. Institution-level survey analysis after poststratification for selected variables—all undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students receiving federal grant aid ⁴					
1–44	22.44	22.55	22.25	0.19	0.30
45–61	22.18	20.42	23.54	-1.36	-3.12
62–80	18.94	20.07	19.13	-0.19	0.94
81 or more	26.11	29.84	26.20	-0.09	3.64
None or unknown	10.33	7.11	8.88	1.45	-1.77
Percentage of undergraduate students receiving state/local grant aid ⁴					
1–8	39.24	41.62	40.96	-1.72	0.66
9–28	15.53	16.26	15.74	-0.21	0.52
29–51	15.44	17.05	15.30	0.14	1.75
52 or more	19.45	17.96	19.11	0.34	-1.15
None or unknown	10.33	7.11	8.88	1.45	-1.77
Percentage of undergraduate students receiving institution grant aid ⁴					
1–10	34.07	37.71	34.31	-0.24	3.40
11–36	19.14	18.43	19.78	-0.64	-1.35
37–78	17.99	18.50	18.47	-0.48	0.03
79 or more	18.46	18.25	18.56	-0.10	-0.31
None or unknown	10.33	7.11	8.88	1.45	-1.77
Percentage of undergraduate students receiving student loan aid ⁴					
1–14	15.61	17.34	15.46	0.15	1.88
15–46	17.69	17.33	17.52	0.17	-0.19
47–68	23.38	24.96	24.43	-1.05	0.53
69 or more	32.99	33.26	33.70	-0.71	-0.44
None or unknown	10.33	7.11	8.88	1.45	-1.77
Average net price among students receiving grant or scholarship aid ⁴					
\$1–\$7,913	14.84	16.59	14.98	-0.14	1.61
\$7,914–\$13,216	15.29	17.52	15.05	0.24	2.47
\$13,217–\$20,023	26.80	27.86	28.12	-1.32	-0.26
\$20,024 or more	31.91	29.61	32.11	-0.20	-2.50
None or unknown	11.16	8.42	9.74	1.42	-1.32
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁴					
1–67	28.71	27.14	27.29	1.42	-0.15
68–82	21.54	23.80	21.56	-0.02	2.24
83–94	18.50	20.98	19.16	-0.66	1.82
95 or more	24.96	22.82	25.90	-0.94	-3.08
None or unknown	6.29	5.27	6.08	0.21	-0.81

See notes at end of table.

Table M-13. Institution-level survey analysis after poststratification for selected variables—all undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Number of full-time, first-time undergraduate students living on campus ⁴					
0–114	9.68	9.26	9.67	0.01	-0.41
115–274	9.10	9.17	9.28	-0.18	-0.11
275–656	8.78	8.28	8.52	0.26	-0.24
657 or more	7.08	6.75	7.01	0.07	-0.26
Unknown	65.36	66.53	65.51	-0.15	1.02
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁴					
0–36	36.74	40.61	38.42	-1.68	2.19
37–90	19.98	20.67	20.01	-0.03	0.66
91–218	17.45	16.60	17.17	0.28	-0.57
219 or more	14.38	13.36	14.33	0.05	-0.97
Unknown	11.46	8.75	10.07	1.39	-1.32
Average amount of grant and scholarship aid received ⁴					
\$0–\$5,000	30.62	30.44	31.79	-1.17	-1.35
\$5,001–\$6,090	22.56	24.61	21.68	0.88	2.93
\$6,091–\$9,754	18.53	19.52	19.79	-1.26*	-0.27
\$9,755 or more	19.09	18.58	19.19	-0.10	-0.61
Unknown	9.20	6.85	7.55	1.65	-0.70
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁴					
0–30	20.30	17.23	18.49	1.81	-1.26
31–46	18.92	18.45	18.68	0.24	-0.23
47–65	23.47	21.41	23.68	-0.21	-2.27
66 or more	30.92	36.89	32.78	-1.86*	4.11
Unknown	6.39	6.02	6.37	0.02	-0.35

Rounds to zero.

* $p < 0.05$.¹ Mean is calculated using the institution base weight adjusted for nonresponse.² Mean is calculated using the institution base weight adjusted for nonresponse and poststratification.

³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.

⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-14. Institution-level survey analysis after poststratification for selected variables—public less-than-2-year undergraduate-enrolling institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Degree of urbanization					
Large city	‡	‡	‡	‡	‡
Midsized city	‡	‡	‡	‡	‡
Small city	‡	‡	‡	‡	‡
Large suburb	‡	‡	‡	‡	‡
Midsized suburb	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡
Urban area distant from town	‡	‡	‡	‡	‡
Urban area remote from town	‡	‡	‡	‡	‡
Rural area on fringe of town	‡	‡	‡	‡	‡
Rural area distant from town	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ³					
New England	‡	‡	‡	‡	‡
Mideast	‡	‡	‡	‡	‡
Great Lakes	‡	‡	‡	‡	‡
Plains	‡	‡	‡	‡	‡
Southeast	‡	‡	‡	‡	‡
Southwest	21.69	11.62	21.69	#	-10.07
Rocky Mountains	‡	‡	‡	‡	‡
Far West	‡	‡	‡	‡	‡
Outlying Areas	‡	‡	‡	‡	‡
Hispanic-Serving Institution					
Yes	‡	‡	‡	‡	‡
No	98.26	98.01	98.26	#	-0.25
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁴					
0–2	12.62	12.93	12.62	#	0.31
3–4	‡	‡	‡	‡	‡
5–8	‡	‡	‡	‡	‡
9 or more	63.61	73.36	63.61	#	9.75
Unknown	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁴					
0–1	75.41	63.05	75.41	#	-12.36
2	‡	‡	‡	‡	‡
3 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-14. Institution-level survey analysis after poststratification for selected variables—public less-than-2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students enrolled:					
Hispanic ⁴					
0–3	14.85	12.31	14.85	#	-2.54
4–9	16.27	10.57	16.27	#	-5.70
10–14	‡	‡	‡	‡	‡
15 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁴					
1–140	71.65	81.22	71.65	#	9.57
141–460	19.63	10.36	19.63	#	-9.27
461–1,450	‡	‡	‡	‡	‡
1,451 or more	‡	‡	‡	‡	‡
Total male undergraduate enrollment ⁴					
1–64	71.65	81.34	71.65	#	9.69
65–296	15.62	9.43	15.62	#	-6.19
297–876	‡	‡	‡	‡	‡
877 or more	‡	‡	‡	‡	‡
Total female undergraduate enrollment ⁴					
1–99	75.67	82.24	75.67	#	6.57
100–228	15.62	9.33	15.62	#	-6.29
229–557	5.41	5.00	5.41	#	-0.41
558 or more	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving federal grant aid ⁴					
1–29	‡	‡	‡	‡	‡
30–58	‡	‡	‡	‡	‡
59–74	‡	‡	‡	‡	‡
75 or more	13.62	11.98	13.62	#	-1.64
None or unknown	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving state/local grant aid ⁴					
1–3	‡	‡	‡	‡	‡
4–9	‡	‡	‡	‡	‡
10–35	3.50	4.42	3.50	#	0.92
36 or more	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving institution grant aid ⁴					
0	62.96	77.18	62.96	#	14.22
1–7	‡	‡	‡	‡	‡
8–29	‡	‡	‡	‡	‡
30 or more	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-14. Institution-level survey analysis after poststratification for selected variables—public less-than-2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students receiving student loan aid ⁴					
0	19.18	36.38	19.18	#	17.20
1–8	‡	‡	‡	‡	‡
9 or more	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡
Average net price among students receiving grant or scholarship aid ⁴					
\$1–\$3,281	3.38	27.33	3.38	#	23.95
\$3,282–\$5,236	‡	‡	‡	‡	‡
\$5,237–\$8,681	‡	‡	‡	‡	‡
\$8,682 or more	‡	‡	‡	‡	‡
None or unknown	14.45	11.65	14.45	#	-2.80
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁴					
1–46	‡	‡	‡	‡	‡
47–65	‡	‡	‡	‡	‡
66–83	10.13	5.30	10.13	#	-4.83
84 or more	17.64	13.20	17.64	#	-4.44
None or unknown	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁴					
0	‡	‡	‡	‡	‡
1–10	‡	‡	‡	‡	‡
11 or more	‡	‡	‡	‡	‡
Unknown	94.70	97.37	94.70	#	2.67
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁴					
0–3	‡	‡	‡	‡	‡
4–11	‡	‡	‡	‡	‡
12–21	‡	‡	‡	‡	‡
22 or more	‡	‡	‡	‡	‡
Unknown	15.81	14.39	15.81	#	-1.42
Average amount of grant and scholarship aid received ⁴					
\$0–\$3,048	‡	‡	‡	‡	‡
\$3,049–\$3,955	2.21	4.75	2.21	#	2.54
\$3,956–\$5,239	‡	‡	‡	‡	‡
\$5,240 or more	4.82	5.05	4.82	#	0.23
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-14. Institution-level survey analysis after poststratification for selected variables—public less-than-2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁴					
0–61	2.71	4.61	2.71	#	1.90
62–72	3.75	5.92	3.75	#	2.17
73–86	16.69	30.33	16.69	#	13.64
87 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than five nonrespondents).

¹ Mean is calculated using the institution base weight adjusted for nonresponse.² Mean is calculated using the institution base weight adjusted for nonresponse and poststratification.

³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.

⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-15. Institution-level survey analysis after poststratification for selected variables—public 2-year undergraduate-enrolling institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Carnegie classification 2015: Basic					
Associate's	89.16	88.30	89.31	-0.15*	-1.01
Research and doctoral	‡	‡	‡	‡	‡
Master's	‡	‡	‡	‡	‡
Baccalaureate	‡	‡	‡	‡	‡
Special focus and other	1.34	1.70	1.32	0.02*	0.38
Unavailable or unknown	9.50	10.00	9.37	0.13*	0.63
Degree of urbanization					
Large city	11.48	10.93	11.60	-0.12*	-0.67
Midsized city	7.10	7.32	7.17	-0.07*	0.15
Small city	11.34	11.46	11.39	-0.05*	0.07
Large suburb	15.68	15.95	15.81	-0.13*	0.14
Midsized suburb	2.51	2.97	2.53	-0.02*	0.44
Small suburb	2.43	2.65	2.42	0.01	0.23
Urban area on fringe of town	1.43	1.80	1.42	0.01	0.38
Urban area distant from town	11.81	11.14	11.71	0.10*	-0.57
Urban area remote from town	10.30	11.78	10.20	0.10*	1.58*
Rural area on fringe of town	18.49	16.77	18.38	0.11*	-1.61
Rural area distant from town	5.02	5.09	4.96	0.06*	0.13
Rural area remote from town	2.42	2.12	2.40	0.02*	-0.28
Bureau of Economic Analysis region ³					
New England	5.05	4.88	5.06	-0.01	-0.18
Mideast	8.48	9.55	8.54	-0.06*	1.01
Great Lakes	12.35	11.89	12.36	-0.01	-0.47
Plains	10.02	11.57	9.99	0.03	1.58*
Southeast	32.64	31.76	32.46	0.18*	-0.70
Southwest	13.23	12.42	13.27	-0.04	-0.85
Rocky Mountains	3.12	3.18	3.08	0.04*	0.10
Far West	15.11	14.22	15.24	-0.13*	-1.02
Outlying Areas	‡	‡	‡	‡	‡
Historically Black College or University					
Yes	‡	‡	‡	‡	‡
No or unavailable or unknown	98.89	98.94	98.90	-0.01	0.04
Hispanic-Serving Institution					
Yes	27.17	26.21	27.38	-0.21*	-1.17
No	72.83	73.79	72.62	0.21*	1.17
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁴					
0–3	28.56	28.76	28.47	0.09*	0.29
4–8	22.73	24.09	22.74	-0.01	1.35
9–17	24.19	22.53	24.27	-0.08*	-1.74
18 or more	24.52	24.62	24.52	#	0.10

See notes at end of table.

Table M-15. Institution-level survey analysis after poststratification for selected variables—public 2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁴					
0–1	43.08	43.83	42.72	0.36*	1.11
2	17.71	17.51	17.70	0.01	-0.19
3–4	16.76	17.11	16.87	-0.11*	0.24
5 or more	22.45	21.54	22.71	-0.26*	-1.17
Percentage of undergraduate students enrolled: Hispanic ⁴					
0–4	25.35	26.11	25.17	0.18*	0.94
5–10	26.47	26.43	26.42	0.05*	0.01
11–27	23.49	23.27	23.54	-0.05*	-0.27
28 or more	24.69	24.20	24.87	-0.18*	-0.67
Total undergraduate enrollment ⁴					
1–2,179	23.64	25.18	23.27	0.37*	1.91
2,180–5,086	25.88	24.94	25.47	0.41*	-0.53
5,087–10,883	25.89	24.94	26.29	-0.40*	-1.35
10,884 or more	24.59	24.94	24.97	-0.38*	-0.03
Total male undergraduate enrollment ⁴					
1–878	24.65	25.18	24.26	0.39*	0.92
879–2,079	24.67	24.94	24.34	0.33*	0.60
2,080–4,584	26.42	24.94	26.77	-0.35*	-1.83*
4,585 or more	24.26	24.94	24.64	-0.38*	0.30
Total female undergraduate enrollment ⁴					
1–1,314	23.35	25.28	22.98	0.37*	2.30*
1,315–3,011	26.39	24.83	26.02	0.37*	-1.19
3,012–6,282	25.05	24.94	25.40	-0.35*	-0.46
6,283 or more	25.21	24.94	25.60	-0.39*	-0.66
Percentage of undergraduate students receiving federal grant aid ⁴					
1–52	26.77	25.71	26.89	-0.12*	-1.18
53–64	25.44	25.37	25.50	-0.06*	-0.13
65–78	22.70	23.35	22.67	0.03	0.68
79 or more	24.22	24.30	24.08	0.14*	0.22
None or unknown	0.87	1.27	0.86	0.01	0.41
Percentage of undergraduate students receiving state/local grant aid ⁴					
1–19	23.37	24.86	23.34	0.03	1.52
20–37	25.76	24.73	25.76	#	-1.03
38–64	26.61	25.47	26.61	#	-1.14
65 or more	23.39	23.67	23.41	-0.02	0.26
None or unknown	0.87	1.27	0.86	0.01	0.41

See notes at end of table.

Table M-15. Institution-level survey analysis after poststratification for selected variables—public 2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students receiving institution grant aid ⁴					
1–5	23.81	25.15	23.91	-0.10*	1.24
6–15	24.63	24.75	24.73	-0.10*	0.02
16–32	26.06	24.52	26.01	0.05	-1.49
33 or more	24.64	24.30	24.49	0.15*	-0.19
None or unknown	0.87	1.27	0.86	0.01	0.41
Percentage of undergraduate students receiving student loan aid ⁴					
1	28.62	28.04	28.52	0.10*	-0.48
2–11	24.48	21.86	24.55	-0.07*	-2.69*
12–28	23.32	24.30	23.36	-0.04	0.94
29 or more	22.72	24.52	22.71	0.01	1.81*
None or unknown	0.87	1.27	0.86	0.01	0.41
Average net price among students receiving grant or scholarship aid ⁴					
\$1–\$5,873	23.54	24.62	23.50	0.04	1.12
\$5,874–\$7,324	23.98	24.52	24.07	-0.09*	0.45
\$7,325–\$9,467	24.50	24.75	24.48	0.02	0.27
\$9,468 or more	26.99	24.52	26.96	0.03	-2.44*
None or unknown	0.98	1.59	0.98	#	0.61
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁴					
1–64	26.54	26.66	26.69	-0.15*	-0.03
65–76	26.07	24.52	26.10	-0.03	-1.58
77–87	24.04	24.52	24.02	0.02	0.50
88 or more	23.07	23.99	22.91	0.16*	1.08
None or unknown	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁴					
0–39	5.51	6.05	5.47	0.04*	0.58
40–70	5.76	6.05	5.73	0.03	0.32
71–127	5.01	5.73	4.99	0.02	0.74
128 or more	5.97	5.84	5.99	-0.02	-0.15
Unknown	77.75	76.33	77.81	-0.06*	-1.48
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁴					
0–52	24.81	25.18	24.48	0.33*	0.70
53–116	24.70	24.09	24.58	0.12*	-0.49
117–242	25.19	24.62	25.33	-0.14*	-0.71
243 or more	24.08	24.30	24.40	-0.32*	-0.10
Unknown	1.22	1.80	1.21	0.01	0.59

See notes at end of table.

Table M-15. Institution-level survey analysis after poststratification for selected variables—public 2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Average amount of grant and scholarship aid received ⁴					
\$0–\$4,692	25.11	25.18	25.05	0.06*	0.13
\$4,693–\$5,283	24.94	24.62	25.01	-0.07*	-0.39
\$5,284–\$5,932	25.94	24.83	26.02	-0.08*	-1.19
\$5,933 or more	23.30	24.73	23.22	0.08*	1.51
Unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁴					
0–23	26.39	26.85	26.55	-0.16*	0.30
24–30	24.83	23.88	24.87	-0.04	-0.99
31–39	24.02	24.09	24.06	-0.04	0.03
40 or more	24.37	24.65	24.13	0.24*	0.52
Unknown	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the institution base weight adjusted for nonresponse.² Mean is calculated using the institution base weight adjusted for nonresponse and poststratification.

³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.

⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-16. Institution-level survey analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate undergraduate-enrolling institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Carnegie classification 2015: Basic					
Associate's	70.81	70.66	71.05	-0.24*	-0.39
Research and doctoral	‡	‡	‡	‡	‡
Master's	‡	‡	‡	‡	‡
Baccalaureate	‡	‡	‡	‡	‡
Special focus and other	6.33	8.38	6.22	0.11*	2.16
Unavailable or unknown	‡	‡	‡	‡	‡
Degree of urbanization					
Large city	11.39	12.57	11.53	-0.14*	1.04
Midsize city	‡	‡	‡	‡	‡
Small city	21.63	19.16	21.77	-0.14*	-2.61
Large suburb	11.71	14.37	11.84	-0.13*	2.53
Midsize suburb	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡
Urban area distant from town	‡	‡	‡	‡	‡
Urban area remote from town	‡	‡	‡	‡	‡
Rural area on fringe of town	14.36	12.57	14.13	0.23*	-1.56
Rural area distant from town	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ³					
New England	‡	‡	‡	‡	‡
Mideast	‡	‡	‡	‡	‡
Great Lakes	‡	‡	‡	‡	‡
Plains	‡	‡	‡	‡	‡
Southeast	24.14	23.95	24.20	-0.06	-0.25
Southwest	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡
Far West	25.45	29.94	25.59	-0.14	4.35
Outlying Areas	‡	‡	‡	‡	‡
Hispanic-Serving Institution					
Yes	24.30	23.35	24.46	-0.16*	-1.11
No	75.70	76.65	75.54	0.16*	1.11
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁴					
0–2	24.87	26.95	24.77	0.10	2.18
3–7	23.51	22.75	23.43	0.08	-0.68
8–13	28.83	26.95	28.88	-0.05	-1.93
14 or more	22.18	22.75	22.31	-0.13	0.44
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-16. Institution-level survey analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁴					
0–1	34.73	34.13	34.30	0.43*	-0.17
2	20.15	18.56	20.21	-0.06	-1.65
3–5	25.38	25.75	25.66	-0.28*	0.09
6 or more	19.12	20.96	19.23	-0.11	1.73
Unknown	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Hispanic ⁴					
0–5	29.21	28.14	28.86	0.35*	-0.72
6–12	23.64	25.75	23.62	0.02	2.13
13–26	22.64	22.16	22.88	-0.24*	-0.72
27 or more	23.89	23.35	24.04	-0.15*	-0.69
Unknown	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁴					
1–3,233	24.89	25.15	24.44	0.45*	0.71
3,234–6,592	27.35	25.15	26.90	0.45*	-1.75
6,593–15,274	21.26	25.15	21.65	-0.39*	3.50
15,275 or more	26.51	24.55	27.00	-0.49*	-2.45
Total male undergraduate enrollment ⁴					
1–1,258	23.99	25.15	23.56	0.43*	1.59
1,259–2,699	29.60	25.15	29.21	0.39*	-4.06*
2,700–6,370	20.84	25.15	21.18	-0.34*	3.97
6,371 or more	25.58	24.55	26.06	-0.48*	-1.51
Total female undergraduate enrollment ⁴					
1–1,747	25.16	25.15	24.71	0.45*	0.44
1,748–3,971	25.79	25.15	25.38	0.41*	-0.23
3,972–8,929	22.38	25.15	22.74	-0.36*	2.41
8,930 or more	26.67	24.55	27.17	-0.50*	-2.62
Percentage of undergraduate students receiving federal grant aid ⁴					
1–46	25.64	27.54	25.80	-0.16*	1.74
47–58	26.15	24.55	26.16	-0.01	-1.61
59–69	22.10	22.75	22.09	0.01	0.66
70 or more	24.77	23.95	24.62	0.15*	-0.67
None or unknown	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving state/local grant aid ⁴					
1–18	28.98	26.35	28.79	0.19*	-2.44
19–36	23.43	23.35	23.52	-0.09	-0.17
37–51	24.06	25.75	24.05	0.01	1.70
52 or more	22.18	23.35	22.32	-0.14*	1.03
None or unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-16. Institution-level survey analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students receiving institution grant aid ⁴					
1–10	23.15	25.75	23.33	-0.18*	2.42
11–21	27.37	23.95	27.58	-0.21*	-3.63
22–38	23.52	25.15	23.46	0.06	1.69
39 or more	24.60	23.95	24.31	0.29*	-0.36
None or unknown	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving student loan aid ⁴					
1–5	20.22	25.15	20.19	0.03	4.96*
6–15	25.26	25.75	25.36	-0.10	0.39
16–37	‡	‡	‡	‡	‡
38 or more	25.13	23.95	24.86	0.27*	-0.91
None or unknown	‡	‡	‡	‡	‡
Average net price among students receiving grant or scholarship aid ⁴					
\$1–\$6,240	26.60	25.15	26.72	-0.12	-1.57
\$6,241–\$7,879	22.38	24.55	22.44	-0.06	2.11
\$7,880–\$9,328	23.77	24.55	23.74	0.03	0.81
\$9,329 or more	25.90	24.55	25.78	0.12	-1.23
None or unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁴					
1–59	28.37	26.95	28.56	-0.19*	-1.61
60–71	21.53	23.35	21.65	-0.12	1.70
72–83	24.09	25.15	24.06	0.03	1.09
84 or more	25.39	23.95	25.13	0.26*	-1.18
None or unknown	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁴					
0–21	7.11	9.58	7.09	0.02	2.49
22–75	‡	‡	‡	‡	‡
76–215	8.95	9.58	8.92	0.03	0.66
216 or more	‡	‡	‡	‡	‡
Unknown	63.73	62.28	63.93	-0.20*	-1.65
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁴					
0–71	23.38	25.15	23.01	0.37*	2.14
72–132	24.42	23.95	24.32	0.10	-0.37
133–347	27.28	24.55	27.41	-0.13	-2.86
348 or more	23.57	24.55	23.93	-0.36*	0.62
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-16. Institution-level survey analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Average amount of grant and scholarship aid received ⁴					
\$0–\$4,914	27.57	25.15	27.45	0.12	-2.30
\$4,915–\$5,564	25.40	24.55	25.39	0.01	-0.84
\$5,565–\$6,239	21.12	25.15	21.27	-0.15*	3.88
\$6,240 or more	25.30	24.55	25.29	0.01	-0.74
Unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁴					
0–19	28.16	25.15	28.10	0.06	-2.95
20–28	30.45	29.34	30.55	-0.10	-1.21
29–35	20.67	20.36	20.71	-0.04	-0.35
36 or more	20.11	24.55	20.04	0.07	4.51*
Unknown	‡	‡	‡	‡	‡

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the institution base weight adjusted for nonresponse.² Mean is calculated using the institution base weight adjusted for nonresponse and poststratification.³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-17. Institution-level survey analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate undergraduate-enrolling institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Carnegie classification 2015: Basic					
Associate's	‡	‡	‡	‡	‡
Research and doctoral	‡	‡	‡	‡	‡
Master's	51.90	51.12	50.94	0.96*	0.18
Baccalaureate	39.39	40.36	40.04	-0.65*	0.32
Special focus and other	‡	‡	‡	‡	‡
Unavailable or unknown	‡	‡	‡	‡	‡
Degree of urbanization					
Large city	‡	‡	‡	‡	‡
Midsize city	7.66	8.52	7.61	0.05	0.91
Small city	14.17	12.56	13.97	0.20	-1.41
Large suburb	15.73	16.14	15.83	-0.10	0.31
Midsize suburb	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡
Urban area distant from town	‡	‡	‡	‡	‡
Urban area remote from town	‡	‡	‡	‡	‡
Rural area on fringe of town	4.68	5.83	4.77	-0.09	1.06
Rural area distant from town	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ³					
New England	11.40	11.66	11.52	-0.12	0.14
Mideast	21.80	21.97	21.85	-0.05	0.12
Great Lakes	7.55	8.52	7.54	0.01	0.98
Plains	8.04	10.31	7.96	0.08	2.35
Southeast	23.97	21.52	24.00	-0.03	-2.48
Southwest	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡
Far West	‡	‡	‡	‡	‡
Outlying Areas	‡	‡	‡	‡	‡
Historically Black College or University					
Yes	‡	‡	‡	‡	‡
No or unavailable or unknown	94.98	94.17	94.89	0.09	-0.72
Hispanic-Serving Institution					
Yes	16.55	16.59	16.48	0.07	0.11
No	83.45	83.41	83.52	-0.07	-0.11
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁴					
0–3	25.17	26.46	25.28	-0.11	1.18
4–6	23.89	23.32	23.95	-0.06	-0.63
7–12	21.41	21.08	21.19	0.22	-0.11
13 or more	21.51	21.52	21.29	0.22	0.23
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-17. Institution-level survey analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁴					
0–1	36.14	38.57	36.59	-0.45*	1.98
2	15.48	15.25	15.41	0.07	-0.16
3–4	18.24	17.04	18.07	0.17	-1.03
5 or more	22.11	21.52	21.64	0.47*	-0.12
Unknown	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Hispanic ⁴					
0–5	32.31	30.04	32.58	-0.27	-2.54
6–10	18.46	20.63	18.44	0.02	2.19
11–19	20.89	20.18	20.55	0.34*	-0.37
20 or more	20.31	21.52	20.15	0.16	1.37
Unknown	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁴					
1–2,088	25.43	25.11	26.49	-1.06*	-1.38
2,089–3,809	23.06	25.11	24.01	-0.95*	1.10
3,810–6,457	24.69	25.11	23.73	0.96*	1.38
6,458 or more	26.82	24.66	25.77	1.05*	-1.11
Total male undergraduate enrollment ⁴					
1–844	24.25	25.11	25.25	-1.00*	-0.14
845–1,587	24.01	25.11	24.78	-0.77*	0.33
1,588–2,514	25.57	25.11	24.75	0.82*	0.36
2,515 or more	26.18	24.66	25.22	0.96*	-0.56
Total female undergraduate enrollment ⁴					
1–1,205	25.18	25.11	26.22	-1.04*	-1.11
1,206–2,224	22.94	25.11	23.72	-0.78*	1.39
2,225–3,879	25.10	25.11	24.31	0.79*	0.80
3,880 or more	26.79	24.66	25.75	1.04*	-1.09
Percentage of undergraduate students receiving federal grant aid ⁴					
1–45	25.72	23.32	25.70	0.02	-2.38
46–60	20.19	21.97	19.94	0.25*	2.03
61–80	20.45	22.42	20.53	-0.08	1.89
81 or more	22.25	22.42	22.10	0.15	0.32
None or unknown	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving state/local grant aid ⁴					
1–28	26.03	24.66	26.22	-0.19	-1.56
29–41	17.24	21.52	17.07	0.17	4.45*
42–61	21.09	21.97	20.92	0.17	1.05
62 or more	24.24	21.97	24.05	0.19	-2.08
None or unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-17. Institution-level survey analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students receiving institution grant aid ⁴					
1–41	23.99	23.32	23.92	0.07	-0.60
42–61	21.40	21.97	21.36	0.04	0.61
62–81	24.22	23.32	23.93	0.29*	-0.61
82 or more	19.01	21.52	19.06	-0.05	2.46
None or unknown	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving student loan aid ⁴					
1–40	23.31	23.77	23.21	0.10	0.56
41–52	20.70	21.97	20.67	0.03	1.30
53–67	‡	‡	‡	‡	‡
68 or more	18.85	21.97	19.01	-0.16	2.96
None or unknown	‡	‡	‡	‡	‡
Average net price among students receiving grant or scholarship aid ⁴					
\$1–\$10,260	20.66	22.87	20.54	0.12	2.33
\$10,261–\$13,279	25.31	22.42	25.54	-0.23	-3.12*
\$13,280–\$15,760	20.52	22.42	20.25	0.27*	2.17
\$15,761 or more	22.11	22.42	21.93	0.18	0.49
None or unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁴					
1–72	24.47	23.32	24.34	0.13	-1.02
73–85	22.18	24.66	21.86	0.32*	2.80
86–92	21.47	21.97	21.38	0.09	0.59
93 or more	20.57	20.18	20.77	-0.20	-0.59
None or unknown	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁴					
0–138	19.44	19.28	19.77	-0.33*	-0.49
139–241	16.92	18.39	17.04	-0.12	1.35
242–550	18.43	18.83	18.24	0.19	0.59
551 or more	19.79	18.83	19.07	0.72*	-0.24
Unknown	25.43	24.66	25.88	-0.45*	-1.22
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁴					
0–56	25.39	23.32	26.01	-0.62*	-2.69
57–111	18.99	21.97	19.15	-0.16	2.82
112–219	21.26	22.87	20.78	0.48*	2.09
220 or more	22.98	21.97	22.33	0.65*	-0.36
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-17. Institution-level survey analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Average amount of grant and scholarship aid received ⁴					
\$0–\$6,185	22.70	22.42	22.54	0.16	-0.12
\$6,186–\$7,466	23.36	22.42	23.12	0.24	-0.70
\$7,467–\$8,904	18.98	22.42	19.07	-0.09	3.35*
\$8,905 or more	23.14	22.42	23.08	0.06	-0.66
Unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁴					
0–35	23.13	23.77	22.98	0.15	0.79
36–46	20.49	21.52	20.49	#	1.03
47–58	21.70	21.52	21.50	0.20	0.02
59 or more	20.19	20.63	20.10	0.09	0.53
Unknown	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the institution base weight adjusted for nonresponse.² Mean is calculated using the institution base weight adjusted for nonresponse and poststratification.

³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.

⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-18. Institution-level survey analysis after poststratification for selected variables—public 4-year, doctorate-granting undergraduate-enrolling institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Carnegie classification 2015: Basic					
Associate's	‡	‡	‡	‡	‡
Research and doctoral	51.62	52.15	52.10	-0.48*	0.05
Master's	40.38	40.86	40.06	0.32*	0.80
Baccalaureate	‡	‡	‡	‡	‡
Special focus and other	‡	‡	‡	‡	‡
Unavailable or unknown	‡	‡	‡	‡	‡
Degree of urbanization					
Large city	26.96	26.34	27.06	-0.10	-0.72
Midsize city	16.67	16.94	16.65	0.02	0.29
Small city	18.61	18.01	18.67	-0.06	-0.66
Large suburb	11.10	11.29	11.19	-0.09*	0.10
Midsize suburb	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡
Urban area distant from town	7.27	7.80	7.22	0.05	0.58
Urban area remote from town	‡	‡	‡	‡	‡
Rural area on fringe of town	‡	‡	‡	‡	‡
Rural area distant from town	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ³					
New England	‡	‡	‡	‡	‡
Mideast	‡	‡	‡	‡	‡
Great Lakes	12.84	13.98	12.91	-0.07	1.07
Plains	‡	‡	‡	‡	‡
Southeast	28.87	28.49	28.84	0.03	-0.35
Southwest	13.53	13.44	13.48	0.05	-0.04
Rocky Mountains	‡	‡	‡	‡	‡
Far West	‡	‡	‡	‡	‡
Outlying Areas	‡	‡	‡	‡	‡
Historically Black College or University					
Yes	‡	‡	‡	‡	‡
No or unavailable or unknown	93.15	93.01	93.30	-0.15*	-0.29
Hispanic-Serving Institution					
Yes	19.35	18.82	19.40	-0.05	-0.58
No	80.65	81.18	80.60	0.05	0.58
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁴					
0–4	30.55	31.18	30.67	-0.12*	0.51
5–7	19.71	19.35	19.77	-0.06	-0.42
8–17	25.20	24.73	25.28	-0.08	-0.55
18 or more	23.47	23.66	23.23	0.24*	0.43
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-18. Institution-level survey analysis after poststratification for selected variables—public 4-year, doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁴					
0–2	42.10	41.94	41.68	0.42*	0.26
3	10.37	10.22	10.38	-0.01	-0.16
4–7	22.63	22.58	22.79	-0.16*	-0.21
8 or more	23.83	24.19	24.10	-0.27*	0.09
Unknown	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Hispanic ⁴					
0–5	29.40	30.38	29.18	0.22*	1.20
6–8	20.96	19.89	21.00	-0.04	-1.11
9–20	24.09	24.19	24.21	-0.12*	-0.02
21 or more	24.48	24.46	24.56	-0.08	-0.10
Unknown	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁴					
1–7,161	24.63	25.00	24.11	0.52*	0.89
7,162–12,746	25.86	25.00	25.32	0.54*	-0.32
12,747–23,490	26.10	25.00	26.65	-0.55*	-1.65
23,491 or more	23.41	25.00	23.91	-0.50*	1.09
Total male undergraduate enrollment ⁴					
1–3,035	24.59	25.00	24.08	0.51*	0.92
3,036–5,604	25.62	25.00	25.15	0.47*	-0.15
5,605–10,568	25.97	25.00	26.45	-0.48*	-1.45
10,569 or more	23.82	25.00	24.33	-0.51*	0.67
Total female undergraduate enrollment ⁴					
1–4,101	24.35	25.00	23.84	0.51*	1.16
4,102–7,146	26.43	25.00	25.96	0.47*	-0.96
7,147–12,605	25.82	25.00	26.30	-0.48*	-1.30
12,606 or more	23.40	25.00	23.90	-0.50*	1.10
Percentage of undergraduate students receiving federal grant aid ⁴					
1–36	22.69	23.12	23.00	-0.31*	0.12
37–49	23.04	24.46	23.13	-0.09	1.33
50–70	22.48	22.58	22.40	0.08	0.18
71 or more	22.93	22.31	22.74	0.19*	-0.43
None or unknown	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving state/local grant aid ⁴					
1–21	21.63	23.92	21.81	-0.18*	2.11*
22–38	22.37	22.31	22.35	0.02	-0.04
39–60	23.62	23.12	23.55	0.07	-0.43
61 or more	23.52	23.12	23.57	-0.05	-0.45
None or unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-18. Institution-level survey analysis after poststratification for selected variables—public 4-year, doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students receiving institution grant aid ⁴					
1–45	23.73	23.92	23.75	-0.02	0.17
46–61	22.73	23.39	22.84	-0.11*	0.55
62–76	22.79	22.85	22.75	0.04	0.10
77 or more	21.89	22.31	21.93	-0.04	0.38
None or unknown	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving student loan aid ⁴					
1–37	22.91	23.12	23.19	-0.28*	-0.07
38–51	22.91	23.12	23.05	-0.14*	0.07
52–62	22.48	23.92	22.46	0.02	1.46
63 or more	22.83	22.31	22.57	0.26*	-0.26
None or unknown	‡	‡	‡	‡	‡
Average net price among students receiving grant or scholarship aid ⁴					
\$1–\$12,302	21.77	23.12	21.75	0.02	1.37
\$12,303–\$14,757	22.30	23.12	22.24	0.06	0.88
\$14,758–\$17,383	23.44	23.12	23.46	-0.02	-0.34
\$17,384 or more	23.34	22.85	23.52	-0.18*	-0.67
None or unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁴					
1–69	21.38	23.92	21.62	-0.24*	2.30*
70–81	23.90	23.39	23.93	-0.03	-0.54
82–90	27.46	26.34	27.41	0.05	-1.07
91 or more	20.02	20.16	19.93	0.09*	0.23
None or unknown	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁴					
0–465	20.20	22.58	19.99	0.21*	2.59*
466–900	22.87	22.58	22.63	0.24*	-0.05
901–1,551	23.35	22.58	23.51	-0.16*	-0.93
1,552 or more	22.32	22.58	22.77	-0.45*	-0.19
Unknown	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁴					
0–181	21.10	23.12	20.82	0.28*	2.30*
182–330	23.44	23.12	23.35	0.09	-0.23
331–508	24.40	23.12	24.54	-0.14*	-1.42
509 or more	21.90	22.85	22.26	-0.36*	0.59
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-18. Institution-level survey analysis after poststratification for selected variables—public 4-year, doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Average amount of grant and scholarship aid received ⁴					
\$0–\$7,027	23.00	23.39	22.95	0.05	0.44
\$7,028–\$8,427	23.56	23.39	23.44	0.12*	-0.05
\$8,428–\$9,919	22.50	23.39	22.65	-0.15*	0.74
\$9,920 or more	23.41	23.39	23.54	-0.13*	-0.15
Unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁴					
0–45	24.37	24.46	24.04	0.33*	0.42
46–54	21.70	22.85	21.73	-0.03	1.12
55–67	24.42	23.92	24.51	-0.09	-0.59
68 or more	21.64	22.04	21.99	-0.35*	0.05
Unknown	‡	‡	‡	‡	‡

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the institution base weight adjusted for nonresponse.² Mean is calculated using the institution base weight adjusted for nonresponse and poststratification.³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-19. Institution-level survey analysis after poststratification for selected variables—private nonprofit less-than-4-year undergraduate-enrolling institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Carnegie classification 2015: Basic					
Associate's	17.86	38.69	20.85	-2.99	17.84
Research and doctoral	‡	‡	‡	‡	‡
Master's	‡	‡	‡	‡	‡
Baccalaureate	‡	‡	‡	‡	‡
Special focus and other	‡	‡	‡	‡	‡
Unavailable or unknown	82.14	60.95	79.15	2.99	-18.20
Degree of urbanization					
Large city	54.78	63.13	63.53	-8.75	-0.40
Midsize city	‡	‡	‡	‡	‡
Small city	‡	‡	‡	‡	‡
Large suburb	‡	‡	‡	‡	‡
Midsize suburb	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡
Urban area distant from town	‡	‡	‡	‡	‡
Urban area remote from town	‡	‡	‡	‡	‡
Rural area on fringe of town	‡	‡	‡	‡	‡
Rural area distant from town	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ³					
New England	‡	‡	‡	‡	‡
Mideast	‡	‡	‡	‡	‡
Great Lakes	‡	‡	‡	‡	‡
Plains	‡	‡	‡	‡	‡
Southeast	28.26	15.10	28.88	-0.62	-13.78
Southwest	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡
Far West	‡	‡	‡	‡	‡
Outlying Areas	‡	‡	‡	‡	‡
Historically Black College or University					
Yes	‡	‡	‡	‡	‡
No or unavailable or unknown	100.00	99.63	100.00	#	-0.37
Hispanic-Serving Institution					
Yes	‡	‡	‡	‡	‡
No	96.17	83.41	94.86	1.31	-11.45
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁴					
0–2	‡	‡	‡	‡	‡
3–16	‡	‡	‡	‡	‡
17–40	12.18	16.33	16.37	-4.19	-0.04
41 or more	20.45	12.76	18.37	2.08	-5.61
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-19. Institution-level survey analysis after poststratification for selected variables—private nonprofit less-than-4-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁴					
0	21.78	18.27	19.15	2.63	-0.88
1	29.18	51.78	39.24	-10.06*	12.54
2–3	‡	‡	‡	‡	‡
4 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Hispanic ⁴					
0–1	42.67	61.70	53.52	-10.85*	8.18
2–4	‡	‡	‡	‡	‡
5–13	3.55	5.61	3.76	-0.21	1.85
14 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁴					
1–132	‡	‡	‡	‡	‡
133–336	‡	‡	‡	‡	‡
337–727	18.44	33.54	24.79	-6.35	8.75
728 or more	4.76	10.47	6.40	-1.64	4.07
Total male undergraduate enrollment ⁴					
1–24	‡	‡	‡	‡	‡
25–64	‡	‡	‡	‡	‡
65–156	4.35	27.99	5.84	-1.49	22.15
157 or more	‡	‡	‡	‡	‡
Total female undergraduate enrollment ⁴					
1–61	‡	‡	‡	‡	‡
62–190	‡	‡	‡	‡	‡
191–530	12.25	23.82	16.47	-4.22	7.35
531 or more	3.13	16.55	4.21	-1.08	12.34
Percentage of undergraduate students receiving federal grant aid ⁴					
1–63	‡	‡	‡	‡	‡
64–69	7.81	19.48	10.50	-2.69	8.98
70–95	3.84	10.34	5.16	-1.32	5.18
96 or more	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving state/local grant aid ⁴					
0	22.67	20.30	21.35	1.32	-1.05
1–2	‡	‡	‡	‡	‡
3–46	‡	‡	‡	‡	‡
47 or more	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-19. Institution-level survey analysis after poststratification for selected variables—private nonprofit less-than-4-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students receiving institution grant aid ⁴					
0	‡	‡	‡	‡	‡
1–29	‡	‡	‡	‡	‡
30–68	‡	‡	‡	‡	‡
69 or more	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving student loan aid ⁴					
1–45	‡	‡	‡	‡	‡
46–74	‡	‡	‡	‡	‡
75–92	‡	‡	‡	‡	‡
93 or more	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡
Average net price among students receiving grant or scholarship aid ⁴					
\$1–\$13,259	‡	‡	‡	‡	‡
\$13,260–\$17,825	‡	‡	‡	‡	‡
\$17,826–\$21,423	‡	‡	‡	‡	‡
\$21,424 or more	0.30	2.44	0.18	0.12	2.26
None or unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁴					
1–75	‡	‡	‡	‡	‡
76–90	‡	‡	‡	‡	‡
91–100	19.00	32.26	14.50	4.50	17.76
None or unknown	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁴					
0–33	‡	‡	‡	‡	‡
34–36	‡	‡	‡	‡	‡
37 or more	‡	‡	‡	‡	‡
Unknown	97.45	95.61	98.51	-1.06	-2.90
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁴					
0–11	‡	‡	‡	‡	‡
12–34	‡	‡	‡	‡	‡
35–81	‡	‡	‡	‡	‡
82 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-19. Institution-level survey analysis after poststratification for selected variables—private nonprofit less-than-4-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Average amount of grant and scholarship aid received ⁴					
\$0–\$4,895	0.93	13.15	1.25	-0.32	11.90
\$4,896–\$5,425	‡	‡	‡	‡	‡
\$5,426–\$5,995	‡	‡	‡	‡	‡
\$5,996 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁴					
0–26	‡	‡	‡	‡	‡
27–50	12.04	19.93	7.07	4.97	12.86
51–70	‡	‡	‡	‡	‡
71 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the institution base weight adjusted for nonresponse.² Mean is calculated using the institution base weight adjusted for nonresponse and poststratification.³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-20. Institution-level survey analysis after poststratification for selected variables—private nonprofit 4-year, non-doctorate-granting undergraduate-enrolling institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Carnegie classification 2015: Basic					
Associate's	‡	‡	‡	‡	‡
Research and doctoral	‡	‡	‡	‡	‡
Master's	19.64	23.25	17.49	2.15*	5.76
Baccalaureate	56.48	51.79	56.39	0.09	-4.60
Special focus and other	21.58	20.12	23.46	-1.88	-3.34
Unavailable or unknown	‡	‡	‡	‡	‡
Degree of urbanization					
Large city	16.02	19.93	15.50	0.52	4.43
Midsize city	8.55	8.15	8.67	-0.12	-0.52
Small city	18.03	14.60	18.76	-0.73	-4.16
Large suburb	18.20	22.10	16.73	1.47*	5.37
Midsize suburb	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡
Urban area distant from town	17.84	14.78	18.37	-0.53	-3.59
Urban area remote from town	7.61	7.23	7.54	0.07	-0.31
Rural area on fringe of town	4.46	4.61	4.86	-0.40	-0.25
Rural area distant from town	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ³					
New England	7.14	8.87	6.68	0.46	2.19
Mideast	15.41	15.80	13.47	1.94*	2.33
Great Lakes	17.06	16.03	16.44	0.62	-0.41
Plains	15.72	13.24	16.89	-1.17	-3.65
Southeast	30.33	25.01	31.41	-1.08	-6.40
Southwest	4.23	4.37	4.53	-0.30	-0.16
Rocky Mountains	‡	‡	‡	‡	‡
Far West	3.67	9.68	4.05	-0.38	5.63
Outlying Areas	‡	‡	‡	‡	‡
Historically Black College or University					
Yes	‡	‡	‡	‡	‡
No or unavailable or unknown	91.95	93.12	91.51	0.44	1.61
Hispanic-Serving Institution					
Yes	6.61	9.50	6.51	0.10	2.99
No	93.39	90.50	93.49	-0.10	-2.99
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁴					
0–3	17.42	18.04	17.57	-0.15	0.47
4–7	27.47	28.63	26.41	1.06	2.22
8–16	28.36	26.49	28.99	-0.63	-2.50
17 or more	26.19	26.25	26.32	-0.13	-0.07
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-20. Institution-level survey analysis after poststratification for selected variables—private nonprofit 4-year, non-doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁴					
0–1	39.70	37.93	40.96	-1.26	-3.03
2	20.88	20.97	21.42	-0.54	-0.45
3–4	20.80	21.25	20.01	0.79	1.24
5 or more	18.05	19.25	16.91	1.14*	2.34
Unknown	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Hispanic ⁴					
0–4	31.84	29.21	33.63	-1.79	-4.42
5–7	22.84	21.95	21.53	1.31*	0.42
8–11	19.24	18.50	19.13	0.11	-0.63
12 or more	25.51	29.75	25.01	0.50	4.74
Unknown	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁴					
1–775	28.85	29.03	35.95	-7.10*	-6.92
776–1,392	26.43	27.48	25.14	1.29*	2.34
1,393–2,068	25.57	24.71	22.25	3.32*	2.46
2,069 or more	19.15	18.78	16.66	2.49*	2.12
Total male undergraduate enrollment ⁴					
1–306	30.96	31.79	36.69	-5.73*	-4.90
307–568	26.58	27.19	25.99	0.59	1.20
569–918	21.46	22.87	19.05	2.41*	3.82
919 or more	20.99	18.15	18.27	2.72*	-0.12
Total female undergraduate enrollment ⁴					
1–413	25.87	26.64	31.74	-5.87*	-5.10
414–763	28.20	28.61	28.29	-0.09	0.32
764–1,186	24.92	24.18	21.68	3.24*	2.50
1,187 or more	21.01	20.56	18.28	2.73*	2.28
Percentage of undergraduate students receiving federal grant aid ⁴					
1–33	23.77	23.20	21.93	1.84*	1.27
34–50	27.03	23.23	27.15	-0.12	-3.92
51–80	21.71	23.50	22.46	-0.75	1.04
81 or more	20.61	22.65	19.89	0.72	2.76
None or unknown	6.88	7.42	8.57	-1.69*	-1.15
Percentage of undergraduate students receiving state/local grant aid ⁴					
1–10	20.48	22.68	20.03	0.45	2.65
11–25	20.59	19.62	20.70	-0.11	-1.08
26–46	26.07	27.20	24.98	1.09	2.22
47 or more	25.98	23.08	25.72	0.26	-2.64
None or unknown	6.88	7.42	8.57	-1.69*	-1.15

See notes at end of table.

Table M-20. Institution-level survey analysis after poststratification for selected variables—private nonprofit 4-year, non-doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students receiving institution grant aid ⁴					
1–79	27.74	29.03	27.98	-0.24	1.05
80–98	24.32	22.60	22.73	1.59*	-0.13
99–100	41.07	40.95	40.71	0.36	0.24
None or unknown	6.88	7.42	8.57	-1.69*	-1.15
Percentage of undergraduate students receiving student loan aid ⁴					
1–51	20.75	23.57	19.44	1.31*	4.13
52–68	25.25	23.41	25.05	0.20	-1.64
69–77	23.17	21.99	22.08	1.09	-0.09
78 or more	23.95	23.61	24.85	-0.90	-1.24
None or unknown	6.88	7.42	8.57	-1.69*	-1.15
Average net price among students receiving grant or scholarship aid ⁴					
\$1–\$17,785	29.44	26.26	31.50	-2.06*	-5.24
\$17,786–\$22,359	18.73	19.98	17.50	1.23*	2.48
\$22,360–\$26,628	22.41	23.34	21.54	0.87	1.80
\$26,629 or more	22.55	22.86	20.89	1.66*	1.97
None or unknown	6.88	7.56	8.57	-1.69*	-1.01
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁴					
1–95	33.48	32.72	32.93	0.55	-0.21
96–99	22.57	23.65	22.23	0.34	1.42
100	40.23	38.13	40.19	0.04	-2.06
None or unknown	3.73	5.50	4.65	-0.92*	0.85
Number of full-time, first-time undergraduate students living on campus ⁴					
0–137	19.12	20.44	21.61	-2.49*	-1.17
138–233	20.22	21.18	20.42	-0.20	0.76
234–369	22.65	19.74	19.79	2.86*	-0.05
370 or more	18.29	17.15	15.91	2.38*	1.24
Unknown	19.73	21.48	22.26	-2.53*	-0.78
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁴					
0–26	20.38	22.13	23.48	-3.10*	-1.35
27–43	23.30	25.66	21.82	1.48*	3.84
44–72	28.30	23.89	26.86	1.44*	-2.97
73 or more	19.80	19.63	17.86	1.94*	1.77
Unknown	8.22	8.69	9.99	-1.77*	-1.30

See notes at end of table.

Table M-20. Institution-level survey analysis after poststratification for selected variables—private nonprofit 4-year, non-doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Average amount of grant and scholarship aid received ⁴					
\$0–\$11,821	29.25	28.41	31.40	-2.15*	-2.99
\$11,822–\$19,702	22.55	21.55	22.51	0.04	-0.96
\$19,703–\$26,070	21.72	23.32	20.74	0.98	2.58
\$26,071 or more	22.37	21.09	20.22	2.15*	0.87
Unknown	4.11	5.64	5.13	-1.02*	0.51
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁴					
0–40	24.60	23.87	25.83	-1.23	-1.96
41–54	25.63	20.60	26.59	-0.96	-5.99
55–69	19.29	24.08	17.96	1.33*	6.12*
70 or more	25.10	23.47	23.00	2.10*	0.47
Unknown	5.39	7.99	6.62	-1.23*	1.37

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the institution base weight adjusted for nonresponse.² Mean is calculated using the institution base weight adjusted for nonresponse and poststratification.

³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.

⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-21. Institution-level survey analysis after poststratification for selected variables—private nonprofit 4-year, doctorate-granting undergraduate-enrolling institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Carnegie classification 2015: Basic					
Associate's	‡	‡	‡	‡	‡
Research and doctoral	18.63	17.95	19.32	-0.69*	-1.37
Master's	45.02	43.75	45.26	-0.24	-1.51
Baccalaureate	7.50	6.38	7.45	0.05	-1.07
Special focus and other	28.85	31.75	27.97	0.88*	3.78
Unavailable or unknown	‡	‡	‡	‡	‡
Degree of urbanization					
Large city	31.13	33.32	31.24	-0.11	2.08
Midsize city	12.73	13.40	12.83	-0.10	0.57
Small city	12.72	11.39	12.71	0.01	-1.32
Large suburb	27.09	27.86	26.93	0.16	0.93
Midsize suburb	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡
Urban area distant from town	5.62	4.85	5.54	0.08	-0.69
Urban area remote from town	‡	‡	‡	‡	‡
Rural area on fringe of town	‡	‡	‡	‡	‡
Rural area distant from town	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ³					
New England	5.90	7.89	6.03	-0.13*	1.86
Mideast	16.85	18.05	17.00	-0.15	1.05
Great Lakes	23.88	21.64	23.56	0.32	-1.92
Plains	10.22	9.21	10.19	0.03	-0.98
Southeast	20.84	18.88	20.89	-0.05	-2.01
Southwest	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡
Far West	10.96	14.33	10.95	0.01	3.38
Outlying Areas	‡	‡	‡	‡	‡
Historically Black College or University					
Yes	‡	‡	‡	‡	‡
No or unavailable or unknown	97.69	97.79	97.71	-0.02	0.08
Hispanic-Serving Institution					
Yes	10.92	10.20	11.00	-0.08	-0.80
No	89.08	89.80	89.00	0.08	0.80
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁴					
0–4	24.17	24.68	24.35	-0.18	0.33
5–7	20.69	21.95	21.02	-0.33*	0.93
8–12	19.41	17.76	19.43	-0.02	-1.67
13 or more	23.91	24.11	23.75	0.16	0.36
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-21. Institution-level survey analysis after poststratification for selected variables—private nonprofit 4-year, doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁴					
0–2	35.95	33.74	35.72	0.23	-1.98
3	16.04	13.68	16.01	0.03	-2.33
4–7	17.50	18.93	17.62	-0.12	1.31
8 or more	18.70	22.15	19.20	-0.50*	2.95
Unknown	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Hispanic ⁴					
0–5	24.04	27.43	24.01	0.03	3.42
6–9	19.07	17.87	19.07	#	-1.20
10–14	17.80	17.22	18.14	-0.34*	-0.92
15 or more	27.27	25.98	27.34	-0.07	-1.36
Unknown	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁴					
1–1,448	38.92	40.13	37.71	1.21*	2.42
1,449–2,936	23.57	22.96	23.32	0.25	-0.36
2,937–5,459	20.54	19.46	21.34	-0.80*	-1.88
5,460 or more	16.97	17.45	17.63	-0.66*	-0.18
Total male undergraduate enrollment ⁴					
1–526	38.70	41.56	37.54	1.16*	4.02
527–1,151	24.39	21.62	24.16	0.23	-2.54
1,152–2,357	19.91	19.77	20.65	-0.74*	-0.88
2,358 or more	16.99	17.05	17.65	-0.66*	-0.60
Total female undergraduate enrollment ⁴					
1–889	39.78	40.26	38.57	1.21*	1.69
890–1,777	23.08	23.24	22.87	0.21	0.37
1,778–3,054	19.95	18.92	20.70	-0.75*	-1.78
3,055 or more	17.19	17.58	17.86	-0.67*	-0.28
Percentage of undergraduate students receiving federal grant aid ⁴					
1–25	17.72	21.95	18.31	-0.59*	3.64
26–44	16.72	17.44	17.00	-0.28*	0.44
45–72	25.42	22.95	25.26	0.16	-2.31
73 or more	21.91	21.89	21.75	0.16	0.14
None or unknown	18.23	15.77	17.68	0.55*	-1.91
Percentage of undergraduate students receiving state/local grant aid ⁴					
1–8	21.09	25.03	21.31	-0.22	3.72
9–24	16.25	17.22	16.60	-0.35*	0.62
25–42	22.37	21.45	22.30	0.07	-0.85
43 or more	22.06	20.54	22.10	-0.04	-1.56
None or unknown	18.23	15.77	17.68	0.55*	-1.91

See notes at end of table.

Table M-21. Institution-level survey analysis after poststratification for selected variables—private nonprofit 4-year, doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students receiving institution grant aid ⁴					
1–77	19.52	22.83	19.82	-0.30*	3.01
78–97	25.54	25.74	25.74	-0.20	#
98–99	17.56	17.05	17.61	-0.05	-0.56
100 or more	19.15	18.61	19.15	#	-0.54
None or unknown	18.23	15.77	17.68	0.55*	-1.91
Percentage of undergraduate students receiving student loan aid ⁴					
1–46	19.60	22.39	20.04	-0.44*	2.35
47–62	20.79	20.22	21.13	-0.34*	-0.91
63–72	22.19	21.21	22.22	-0.03	-1.01
73 or more	19.19	20.42	18.93	0.26*	1.49
None or unknown	18.23	15.77	17.68	0.55*	-1.91
Average net price among students receiving grant or scholarship aid ⁴					
\$1–\$19,342	27.02	23.77	26.76	0.26	-2.99
\$19,343–\$24,386	19.31	17.81	19.28	0.03	-1.47
\$24,387–\$29,981	19.41	19.91	19.74	-0.33*	0.17
\$29,982 or more	16.04	17.60	16.54	-0.50*	1.06
None or unknown	18.23	20.91	17.68	0.55*	3.23
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁴					
1–90	23.17	25.52	23.49	-0.32*	2.03
91–98	21.92	21.79	22.21	-0.29*	-0.42
99–100	36.68	36.80	36.62	0.06	0.18
None or unknown	18.23	15.90	17.68	0.55*	-1.78
Number of full-time, first-time undergraduate students living on campus ⁴					
0–194	23.64	22.34	23.13	0.51*	-0.79
195–415	19.15	17.01	19.11	0.04	-2.10
416–738	18.85	17.66	19.47	-0.62*	-1.81
739 or more	14.35	15.52	14.91	-0.56*	0.61
Unknown	24.00	27.47	23.39	0.61*	4.08
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁴					
0–43	23.49	22.14	23.03	0.46*	-0.89
44–68	19.97	19.90	20.12	-0.15	-0.22
69–124	20.98	19.81	21.35	-0.37*	-1.54
125 or more	17.10	17.08	17.61	-0.51*	-0.53
Unknown	18.45	21.07	17.90	0.55*	3.17

See notes at end of table.

Table M-21. Institution-level survey analysis after poststratification for selected variables—private nonprofit 4-year, doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Average amount of grant and scholarship aid received ⁴					
\$0–\$15,784	23.52	22.00	23.45	0.07	-1.45
\$15,785–\$22,032	18.99	18.94	19.10	-0.11	-0.16
\$22,033–\$27,903	20.66	20.62	20.69	-0.03	-0.07
\$27,904 or more	18.61	17.57	19.08	-0.47*	-1.51
Unknown	18.23	20.87	17.68	0.55*	3.19
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁴					
0–50	25.57	23.48	25.38	0.19	-1.90
51–62	19.37	19.06	19.36	0.01	-0.30
63–75	18.77	19.39	19.01	-0.24*	0.38
76 or more	18.87	22.26	19.36	-0.49*	2.90
Unknown	17.42	15.81	16.90	0.52*	-1.09

Rounds to zero.

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the institution base weight adjusted for nonresponse.² Mean is calculated using the institution base weight adjusted for nonresponse and poststratification.

³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.

⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-22. Institution-level survey analysis after poststratification for selected variables—private for-profit less-than-2-year undergraduate-enrolling institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Degree of urbanization					
Large city	21.45	25.50	21.26	0.19	4.24
Midsized city	10.27	17.17	9.63	0.64	7.54
Small city	22.31	14.49	23.19	-0.88	-8.70
Large suburb	33.93	27.55	33.22	0.71	-5.67
Midsized suburb	4.07	4.63	4.29	-0.22	0.34
Small suburb	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡
Urban area distant from town	‡	‡	‡	‡	‡
Urban area remote from town	0.61	3.07	0.64	-0.03	2.43
Rural area on fringe of town	0.41	1.24	0.44	-0.03	0.80
Rural area distant from town	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ³					
New England	5.94	3.59	5.87	0.07	-2.28
Mideast	18.09	10.70	18.07	0.02	-7.37
Great Lakes	21.13	15.15	21.32	-0.19	-6.17
Plains	1.32	4.55	1.25	0.07	3.30
Southeast	29.34	22.85	30.11	-0.77	-7.26
Southwest	8.95	14.58	8.74	0.21	5.84
Rocky Mountains	2.36	3.98	2.48	-0.12	1.50
Far West	12.88	20.53	12.16	0.72	8.37
Outlying Areas	‡	‡	‡	‡	‡
Hispanic-Serving Institution					
Yes	33.68	40.94	33.19	0.49	7.75
No	66.32	59.06	66.81	-0.49	-7.75
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁴					
0–2	13.68	18.38	13.38	0.30	5.00
3–15	23.05	28.89	22.96	0.09	5.93
16–40	36.76	32.77	37.17	-0.41	-4.40
41 or more	26.51	18.89	26.49	0.02	-7.60
Unknown	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁴					
0	36.73	29.78	37.67	-0.94	-7.89
1	22.37	13.65	20.75	1.62*	-7.10
2–3	18.58	24.97	18.84	-0.26	6.13
4 or more	22.31	30.52	22.74	-0.43	7.78
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-22. Institution-level survey analysis after poststratification for selected variables—private for-profit less-than-2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students enrolled: Hispanic ⁴					
0–3	26.45	17.66	26.64	-0.19	-8.98
4–8	15.37	16.23	15.61	-0.24	0.62
9–24	22.51	23.24	22.84	-0.33	0.40
25 or more	35.66	41.79	34.91	0.75	6.88
Unknown	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁴					
1–97	25.12	28.20	27.17	-2.05*	1.03
98–210	27.67	32.92	29.14	-1.47*	3.78
211–402	15.39	20.93	14.24	1.15*	6.69
403 or more	31.82	17.95	29.45	2.37*	-11.50
Total male undergraduate enrollment ⁴					
1–5	35.29	36.55	37.99	-2.70*	-1.44
6–19	16.95	17.88	17.13	-0.18	0.75
20–57	28.78	26.32	27.22	1.56*	-0.90
58 or more	18.99	19.24	17.66	1.33*	1.58
Total female undergraduate enrollment ⁴					
1–71	24.06	27.47	25.54	-1.48*	1.93
72–171	27.93	34.35	30.02	-2.09*	4.33
172–300	13.88	19.53	12.85	1.03*	6.68
301 or more	34.13	18.65	31.59	2.54*	-12.94*
Percentage of undergraduate students receiving federal grant aid ⁴					
1–59	31.00	23.90	31.48	-0.48	-7.58
60–75	19.80	18.61	19.82	-0.02	-1.21
76–90	31.00	31.01	30.46	0.54	0.55
91 or more	11.60	23.12	11.68	-0.08	11.44
None or unknown	6.60	3.36	6.56	0.04	-3.20
Percentage of undergraduate students receiving state/local grant aid ⁴					
0	64.89	74.39	65.44	-0.55	8.95
1–3	11.15	6.84	10.59	0.56*	-3.75
4 or more	17.36	15.41	17.42	-0.06	-2.01
None or unknown	6.60	3.36	6.56	0.04	-3.20
Percentage of undergraduate students receiving institution grant aid ⁴					
0	46.09	58.37	45.61	0.48	12.76
1–18	11.58	14.37	11.38	0.20	2.99
19 or more	35.73	23.90	36.44	-0.71	-12.54
None or unknown	6.60	3.36	6.56	0.04	-3.20

See notes at end of table.

Table M-22. Institution-level survey analysis after poststratification for selected variables—private for-profit less-than-2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students receiving student loan aid ⁴					
1–62	14.88	30.72	15.14	-0.26	15.58*
63–74	34.18	17.21	33.69	0.49	-16.48*
75–86	28.30	28.88	28.55	-0.25	0.33
87 or more	16.04	19.84	16.05	-0.01	3.79
None or unknown	6.60	3.36	6.56	0.04	-3.20
Average net price among students receiving grant or scholarship aid ⁴					
\$1–\$13,568	14.06	28.93	14.86	-0.80	14.07
\$13,569–\$16,625	14.00	24.87	14.29	-0.29	10.58
\$16,626–\$20,274	37.54	23.56	37.43	0.11	-13.87*
\$20,275 or more	27.80	19.20	26.86	0.94	-7.66
None or unknown	6.60	3.44	6.56	0.04	-3.12
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁴					
1–62	14.82	17.73	13.96	0.86*	3.77
63–72	16.39	19.20	15.57	0.82	3.63
73–85	26.38	28.06	26.01	0.37	2.05
86 or more	41.47	33.35	43.44	-1.97*	-10.09
None or unknown	0.93	1.66	1.01	-0.08	0.65
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁴					
0–12	24.66	37.77	26.38	-1.72*	11.39
13–24	19.51	23.29	20.44	-0.93	2.85
25–54	20.44	17.17	19.97	0.47	-2.80
55 or more	28.80	18.33	26.65	2.15*	-8.32
Unknown	6.60	3.44	6.56	0.04	-3.12
Average amount of grant and scholarship aid received ⁴					
\$0–\$4,175	24.95	21.93	23.55	1.40*	-1.62
\$4,176–\$4,843	21.82	17.61	21.42	0.40	-3.81
\$4,844–\$5,437	26.41	22.20	26.74	-0.33	-4.54
\$5,438 or more	25.88	36.44	27.28	-1.40*	9.16
Unknown	0.93	1.82	1.01	-0.08	0.81

See notes at end of table.

Table M-22. Institution-level survey analysis after poststratification for selected variables—private for-profit less-than-2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁴					
0–59	36.07	22.09	36.60	-0.53	-14.51*
60–70	29.50	23.95	30.46	-0.96	-6.51
71–79	20.30	30.61	19.13	1.17*	11.48
80 or more	13.03	20.39	12.62	0.41	7.77
Unknown	1.10	2.95	1.19	-0.09	1.76

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.

¹ Mean is calculated using the institution base weight adjusted for nonresponse.

² Mean is calculated using the institution base weight adjusted for nonresponse and poststratification.

³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.

⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-23. Institution-level survey analysis after poststratification for selected variables—private for-profit 2-year undergraduate-enrolling institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Carnegie classification 2015: Basic					
Associate's	70.34	70.09	67.48	2.86	2.61
Research and doctoral	‡	‡	‡	‡	‡
Master's	‡	‡	‡	‡	‡
Baccalaureate	‡	‡	‡	‡	‡
Special focus and other	‡	‡	‡	‡	‡
Unavailable or unknown	29.06	29.70	32.01	-2.95	-2.31
Degree of urbanization					
Large city	15.92	21.87	14.75	1.17	7.12
Midsized city	9.54	5.01	8.55	0.99	-3.54
Small city	11.96	7.56	12.26	-0.30	-4.70
Large suburb	47.47	40.84	51.27	-3.80*	-10.43
Midsized suburb	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡
Urban area distant from town	‡	‡	‡	‡	‡
Urban area remote from town	0.21	6.41	0.25	-0.04	6.16
Rural area on fringe of town	‡	‡	‡	‡	‡
Rural area distant from town	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ³					
New England	‡	‡	‡	‡	‡
Mideast	‡	‡	‡	‡	‡
Great Lakes	‡	‡	‡	‡	‡
Plains	3.33	8.70	4.07	-0.74	4.63
Southeast	38.61	29.77	37.55	1.06	-7.78
Southwest	8.82	10.97	7.49	1.33*	3.48
Rocky Mountains	3.00	4.87	3.06	-0.06	1.81
Far West	26.05	15.20	26.84	-0.79	-11.64
Outlying Areas	‡	‡	‡	‡	‡
Hispanic-Serving Institution					
Yes	24.51	28.85	21.11	3.40*	7.74
No	75.49	71.15	78.89	-3.40*	-7.74
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁴					
0–3	9.92	22.32	9.28	0.64	13.04
4–11	30.33	19.00	26.95	3.38*	-7.95
12–27	43.62	39.77	48.74	-5.12*	-8.97
28 or more	15.62	15.01	14.59	1.03	0.42
Unknown	0.51	3.90	0.43	0.08	3.47

See notes at end of table.

Table M-23. Institution-level survey analysis after poststratification for selected variables—private for-profit 2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁴					
0–1	37.72	41.41	37.78	-0.06	3.63
2	4.78	12.34	4.21	0.57	8.13
3–4	24.64	14.53	22.87	1.77	-8.34
5 or more	32.35	27.83	34.70	-2.35	-6.87
Unknown	0.51	3.90	0.43	0.08	3.47
Percentage of undergraduate students enrolled: Hispanic ⁴					
0–5	31.62	31.83	36.23	-4.61*	-4.40
6–15	34.64	25.00	34.81	-0.17	-9.81
16–31	12.58	17.46	10.75	1.83*	6.71
32 or more	20.66	21.81	17.77	2.89*	4.04
Unknown	0.51	3.90	0.43	0.08	3.47
Total undergraduate enrollment ⁴					
1–208	35.10	35.88	42.91	-7.81*	-7.03
209–609	27.66	27.32	25.48	2.18	1.84
610–1,087	26.94	23.89	22.86	4.08*	1.03
1,088 or more	10.31	12.91	8.75	1.56*	4.16
Total male undergraduate enrollment ⁴					
1–21	24.57	18.42	30.04	-5.47*	-11.62
22–93	24.80	26.45	26.99	-2.19	-0.54
94–309	23.87	29.62	20.26	3.61*	9.36
310 or more	26.76	25.50	22.71	4.05*	2.79
Total female undergraduate enrollment ⁴					
1–111	35.77	28.61	35.92	-0.15	-7.31
112–272	28.69	35.17	33.54	-4.85*	1.63
273–663	22.50	22.48	19.47	3.03*	3.01
664 or more	13.04	13.74	11.06	1.98*	2.68
Percentage of undergraduate students receiving federal grant aid ⁴					
1–67	33.21	17.92	33.34	-0.13	-15.42
68–76	18.66	31.02	17.33	1.33	13.69
77–90	12.20	20.21	12.06	0.14	8.15
91 or more	28.72	21.86	28.64	0.08	-6.78
None or unknown	7.22	8.99	8.63	-1.41	0.36
Percentage of undergraduate students receiving state/local grant aid ⁴					
0	35.94	30.28	37.69	-1.75	-7.41
1–2	20.28	12.01	17.30	2.98*	-5.29
3–10	15.96	15.83	14.31	1.65	1.52
11 or more	20.61	32.90	22.08	-1.47	10.82
None or unknown	7.22	8.99	8.63	-1.41	0.36

See notes at end of table.

Table M-23. Institution-level survey analysis after poststratification for selected variables—private for-profit 2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students receiving institution grant aid ⁴					
0	33.97	31.42	35.64	-1.67	-4.22
1	14.04	10.08	11.92	2.12	-1.84
2–23	31.04	25.63	30.86	0.18	-5.23
24 or more	13.73	23.89	12.95	0.78	10.94
None or unknown	7.22	8.99	8.63	-1.41	0.36
Percentage of undergraduate students receiving student loan aid ⁴					
1–67	44.45	37.78	46.87	-2.42	-9.09
68–76	12.93	15.07	11.38	1.55*	3.69
77–84	23.66	25.66	21.98	1.68	3.68
85 or more	11.74	12.51	11.14	0.60	1.37
None or unknown	7.22	8.99	8.63	-1.41	0.36
Average net price among students receiving grant or scholarship aid ⁴					
\$1–\$14,767	17.90	21.86	21.53	-3.63	0.33
\$14,768–\$20,156	16.57	12.34	19.21	-2.64	-6.87
\$20,157–\$22,972	18.56	25.33	16.44	2.12	8.89
\$22,973 or more	39.57	31.30	34.03	5.54*	-2.73
None or unknown	7.40	9.17	8.79	-1.39	0.38
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁴					
1–59	34.47	21.49	34.34	0.13	-12.85
60–73	23.26	20.30	21.31	1.95	-1.01
74–85	15.17	28.64	13.20	1.97*	15.44*
86 or more	20.20	20.88	22.71	-2.51	-1.83
None or unknown	6.91	8.70	8.45	-1.54	0.25
Number of full-time, first-time undergraduate students living on campus ⁴					
0	‡	‡	‡	‡	‡
1–8	‡	‡	‡	‡	‡
9–59	‡	‡	‡	‡	‡
60 or more	‡	‡	‡	‡	‡
Unknown	84.28	87.76	86.57	-2.29	1.19
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁴					
0–16	42.36	36.87	46.40	-4.04	-9.53
17–55	21.68	17.26	20.37	1.31	-3.11
56–97	8.87	18.81	7.73	1.14*	11.08
98 or more	19.69	17.89	16.71	2.98*	1.18
Unknown	7.40	9.17	8.79	-1.39	0.38

See notes at end of table.

Table M-23. Institution-level survey analysis after poststratification for selected variables—private for-profit 2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Average amount of grant and scholarship aid received ⁴					
\$0–\$4,149	23.58	25.27	20.58	3.00*	4.69
\$4,150–\$4,779	23.70	20.34	20.27	3.43*	0.07
\$4,780–\$5,500	13.65	10.27	13.24	0.41	-2.97
\$5,501 or more	31.96	34.84	37.20	-5.24*	-2.36
Unknown	7.12	9.28	8.70	-1.58	0.58
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁴					
0–56	24.43	17.22	25.63	-1.20	-8.41
57–66	26.95	21.59	23.23	3.72*	-1.64
67–75	18.84	18.46	17.85	0.99	0.61
76 or more	23.08	34.22	25.10	-2.02	9.12
Unknown	6.70	8.52	8.20	-1.50	0.32

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the institution base weight adjusted for nonresponse.² Mean is calculated using the institution base weight adjusted for nonresponse and poststratification.³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-24. Institution-level survey analysis after poststratification for selected variables—private for-profit 4-year undergraduate-enrolling institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Carnegie classification 2015: Basic					
Associate's	‡	‡	‡	‡	‡
Research and doctoral	‡	‡	‡	‡	‡
Master's	18.78	12.24	17.33	1.45	-5.09
Baccalaureate	2.82	15.83	2.78	0.04	13.05*
Special focus and other	38.65	41.33	38.34	0.31	2.99
Unavailable or unknown	‡	‡	‡	‡	‡
Degree of urbanization					
Large city	52.51	50.12	50.80	1.71	-0.68
Midsized city	10.31	19.13	11.10	-0.79	8.03
Small city	4.78	5.62	5.49	-0.71	0.13
Large suburb	30.38	20.56	30.24	0.14	-9.68
Midsized suburb	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡
Urban area distant from town	‡	‡	‡	‡	‡
Urban area remote from town	‡	‡	‡	‡	‡
Rural area on fringe of town	‡	‡	‡	‡	‡
Rural area distant from town	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ³					
New England	‡	‡	‡	‡	‡
Mideast	‡	‡	‡	‡	‡
Great Lakes	‡	‡	‡	‡	‡
Plains	3.07	5.52	3.60	-0.53	1.92
Southeast	11.40	23.57	12.71	-1.31	10.86*
Southwest	9.00	16.13	8.95	0.05	7.18
Rocky Mountains	‡	‡	‡	‡	‡
Far West	26.32	15.23	27.06	-0.74	-11.83*
Outlying Areas	‡	‡	‡	‡	‡
Hispanic-Serving Institution					
Yes	31.02	26.60	33.66	-2.64*	-7.06
No	68.98	73.40	66.34	2.64*	7.06
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁴					
0–7	28.16	19.97	30.15	-1.99	-10.18*
8–17	32.54	32.15	29.22	3.32*	2.93
18–36	22.32	27.33	22.55	-0.23	4.78
37 or more	12.04	15.90	13.75	-1.71*	2.15
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-24. Institution-level survey analysis after poststratification for selected variables—private for-profit 4-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁴					
0–1	25.57	33.13	26.37	-0.80	6.76
2	10.41	15.30	11.52	-1.11	3.78
3–4	6.03	10.24	5.92	0.11	4.32
5 or more	53.03	36.67	51.86	1.17	-15.19*
Unknown	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Hispanic ⁴					
0–4	7.58	13.66	7.85	-0.27	5.81*
5–8	26.13	18.39	24.12	2.01	-5.73
9–17	24.95	25.63	23.93	1.02	1.70
18 or more	36.38	37.66	39.78	-3.40*	-2.12
Unknown	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁴					
1–597	53.59	35.56	45.65	7.94*	-10.09
598–1,291	20.40	30.34	23.90	-3.50*	6.44
1,292–4,377	20.66	23.45	24.20	-3.54*	-0.75
4,378 or more	5.34	10.65	6.26	-0.92*	4.39*
Total male undergraduate enrollment ⁴					
1–108	53.99	40.60	49.72	4.27*	-9.12
109–328	16.17	24.88	15.97	0.20	8.91
329–1,083	22.43	22.07	25.64	-3.21*	-3.57
1,084 or more	7.40	12.45	8.67	-1.27*	3.78
Total female undergraduate enrollment ⁴					
1–344	49.95	40.22	42.81	7.14*	-2.59
345–948	28.66	31.29	32.13	-3.47*	-0.84
949–3,395	16.05	17.85	18.79	-2.74*	-0.94
3,396 or more	5.34	10.65	6.26	-0.92*	4.39*
Percentage of undergraduate students receiving federal grant aid ⁴					
1–59	24.56	33.55	24.08	0.48	9.47
60–75	12.75	15.63	14.57	-1.82*	1.06
76–85	10.47	15.33	11.74	-1.27*	3.59
86 or more	28.67	24.42	29.45	-0.78	-5.03
None or unknown	23.55	11.07	20.17	3.38*	-9.10
Percentage of undergraduate students receiving state/local grant aid ⁴					
0	44.66	52.79	42.94	1.72	9.85
1–11	16.43	13.74	19.24	-2.81*	-5.50
12 or more	15.36	22.40	17.65	-2.29*	4.75
None or unknown	23.55	11.07	20.17	3.38*	-9.10

See notes at end of table.

Table M-24. Institution-level survey analysis after poststratification for selected variables—private for-profit 4-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students receiving institution grant aid ⁴					
0	41.84	28.24	43.92	-2.08	-15.68*
1–16	10.02	15.92	11.49	-1.47*	4.43
17–60	15.59	26.32	14.43	1.16	11.89*
61 or more	9.00	18.45	9.99	-0.99	8.46
None or unknown	23.55	11.07	20.17	3.38*	-9.10
Percentage of undergraduate students receiving student loan aid ⁴					
1–60	21.36	33.72	21.18	0.18	12.54*
61–72	13.32	13.94	15.60	-2.28*	-1.66
73–85	11.21	16.50	12.60	-1.39*	3.90
86 or more	30.56	24.77	30.46	0.10	-5.69
None or unknown	23.55	11.07	20.17	3.38*	-9.10
Average net price among students receiving grant or scholarship aid ⁴					
\$1–\$17,192	11.73	10.23	13.33	-1.60*	-3.10
\$17,193–\$21,638	17.02	17.23	15.99	1.03	1.24
\$21,639–\$26,336	14.63	28.80	16.79	-2.16*	12.01
\$26,337 or more	25.89	26.24	25.61	0.28	0.63
None or unknown	30.73	17.51	28.28	2.45	-10.77
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁴					
1–67	49.07	37.15	47.78	1.29	-10.63
68–83	9.60	19.14	11.00	-1.40*	8.14
84–93	6.88	17.54	7.38	-0.50	10.16
94 or more	17.03	15.81	18.76	-1.73	-2.95
None or unknown	17.43	10.35	15.08	2.35*	-4.73
Number of full-time, first-time undergraduate students living on campus ⁴					
0–37	‡	‡	‡	‡	‡
38–98	‡	‡	‡	‡	‡
99–128	‡	‡	‡	‡	‡
129 or more	‡	‡	‡	‡	‡
Unknown	96.15	96.04	95.82	0.33	0.22
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁴					
0–7	34.32	30.68	31.90	2.42	-1.22
8–34	9.84	11.32	10.75	-0.91	0.57
35–115	17.04	31.63	19.63	-2.59*	12.00
116 or more	8.06	9.23	9.44	-1.38*	-0.21
Unknown	30.73	17.15	28.28	2.45	-11.13*

See notes at end of table.

Table M-24. Institution-level survey analysis after poststratification for selected variables—private for-profit 4-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Average amount of grant and scholarship aid received ⁴					
\$0–\$4,701	33.97	35.76	32.90	1.07	2.86
\$4,702–\$5,827	13.23	10.90	13.12	0.11	-2.22
\$5,828–\$7,126	16.57	24.27	18.97	-2.40*	5.30
\$7,127 or more	13.61	16.93	15.27	-1.66*	1.66
Unknown	22.61	12.15	19.74	2.87*	-7.59
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁴					
0–19	14.49	12.12	14.65	-0.16	-2.53
20–33	25.96	28.75	22.88	3.08*	5.87
34–49	19.15	25.94	19.14	0.01	6.80
50 or more	26.35	22.92	29.95	-3.60*	-7.03
Unknown	14.05	10.28	13.40	0.65	-3.12

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the institution base weight adjusted for nonresponse.² Mean is calculated using the institution base weight adjusted for nonresponse and poststratification.³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-25. Institution-level study nonresponse bias analysis for selected variables—all undergraduate-enrolling institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Control and level of institution					(Effect size = 0.25)			(Effect size = 0.09)	
Public less-than-2-year	20	20	4.98	5.35	0.36	7.30	6.05	1.07	21.40
Public 2-year	710	230	16.78	19.75	2.97*	17.68	18.04	1.26	7.49
Public 4-year, non-doctorate-granting, primarily subbaccalaureate	130	40	2.97	3.51	0.54*	18.12	3.05	0.07	2.40
Public 4-year, non-doctorate-granting, primarily baccalaureate	180	40	3.97	5.05	1.08*	27.07	3.71	-0.26	-6.53
Public 4-year, doctorate-granting	330	50	6.62	9.06	2.44*	36.78	6.66	0.04	0.60
Private nonprofit less-than-4-year	10	20	4.87	4.49	-0.38	-7.89	4.31	-0.57	-11.61
Private nonprofit 4-year, non-doctorate-granting	260	100	12.59	14.05	1.45	11.53	13.02	0.43	3.42
Private nonprofit 4-year, doctorate-granting	290	90	10.71	13.08	2.37*	22.10	10.99	0.28	2.61
Private for-profit less-than-2-year	100	140	21.88	13.32	-8.56*	-39.12	19.29	-2.58	-11.82
Private for-profit 2-year	70	70	9.65	7.51	-2.14	-22.14	10.05	0.40	4.16
Private for-profit 4-year	60	60	4.96	4.84	-0.12	-2.43	4.82	-0.14	-2.77
State, control, and level of institution					(Effect size = ‡)			(Effect size = ‡)	
Alabama									
Public 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	20	10	0.88	0.52	-0.37	-41.69	0.70	-0.18	-20.46
Alaska									
Public 2-year	†	†	†	†	†	†	†	†	†
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	‡	‡	‡	‡	‡	‡	‡	‡	‡
Arizona									
Public 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	20	20	1.68	1.05	-0.63	-37.64	0.77	-0.91	-54.21
Arkansas									
Public 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	10	20	0.90	0.51	-0.39	-43.20	1.92	1.02	113.54

See notes at end of table.

**Table M-25. Institution-level study nonresponse bias analysis for selected variables—all undergraduate-enrolling institutions:
2019–20—Continued**

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non- respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non- response adjusted	Estimated bias ³	Relative bias ²
California									
Public 2-year	70	30	1.87	2.04	0.17	8.84	2.08	0.21	11.49
Public 4-year	30	10	0.84	0.95	0.11	13.25	0.81	-0.03	-3.42
Other	20	10	7.60	3.25	-4.35	-57.19	3.42	-4.18	-55.04
Colorado									
Public 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	10	10	0.78	0.74	-0.04	-5.07	1.52	0.74	94.07
Connecticut									
Public 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year	10	10	0.18	0.14	-0.04	-21.72	0.21	0.03	15.73
Other	20	10	0.71	0.70	-0.01	-1.62	0.59	-0.12	-17.40
Delaware									
Public 2-year	†	†	†	†	†	†	†	†	†
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	10	10	0.25	0.17	-0.08	-32.90	0.16	-0.09	-36.32
District of Columbia									
Public 2-year	†	†	†	†	†	†	†	†	†
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	10	10	0.27	0.28	0.01	4.37	0.28	0.01	3.25
Florida									
Public 2-year	20	10	0.59	0.62	0.03	4.75	0.54	-0.05	-8.68
Public 4-year	40	10	0.75	0.98	0.23*	30.46	0.70	-0.05	-6.65
Other	20	10	2.60	3.54	0.93	35.82	3.21	0.60	23.17
Georgia									
Public 2-year	20	10	0.41	0.47	0.06	15.72	0.47	0.06	15.02
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	20	10	1.18	1.01	-0.17	-14.07	1.08	-0.10	-8.08
Hawaii									
Public 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	10	10	0.20	0.17	-0.03	-14.61	0.66	0.46	235.41

See notes at end of table.

**Table M-25. Institution-level study nonresponse bias analysis for selected variables—all undergraduate-enrolling institutions:
2019–20—Continued**

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non- respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non- response adjusted	Estimated bias ³	Relative bias ²
Idaho									
Public 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	20	10	0.52	0.53	0.01	2.57	0.37	-0.15*	-28.41
Illinois									
Public 2-year	40	10	0.85	1.09	0.23*	27.20	0.88	0.03	3.30
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	20	10	3.57	5.27	1.70	47.73	3.51	-0.06	-1.67
Indiana									
Public 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year	10	10	0.27	0.22	-0.04	-16.50	0.23	-0.04	-13.36
Other	20	10	1.16	1.35	0.19	16.34	1.07	-0.09	-7.78
Iowa									
Public 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	20	10	0.92	0.60	-0.31	-34.26	0.75	-0.17	-18.24
Kansas									
Public 2-year	10	20	0.45	0.28	-0.17*	-37.38	0.91	0.46	104.29
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	20	10	0.76	0.46	-0.30	-39.64	0.61	-0.15	-19.76
Kentucky									
Public 2-year	10	10	0.28	0.31	0.02	7.63	0.35	0.06	21.23
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	20	10	1.05	1.11	0.06	5.27	0.83	-0.23	-21.53
Louisiana									
Public 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	20	10	1.33	0.95	-0.38	-28.65	1.51	0.17	13.00
Maine									
Public 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

**Table M-25. Institution-level study nonresponse bias analysis for selected variables—all undergraduate-enrolling institutions:
2019–20—Continued**

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non- respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non- response adjusted	Estimated bias ³	Relative bias ²
Maryland									
Public 2-year	10	10	0.28	0.31	0.02	7.63	0.31	0.03	8.91
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	10	20	0.85	0.57	-0.28	-33.33	0.81	-0.04	-5.25
Massachusetts									
Public 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	20	10	3.30	4.60	1.30	39.45	3.54	0.23	7.11
Michigan									
Public 2-year	20	10	0.43	0.50	0.07	17.42	0.76	0.33	77.14
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	20	10	1.36	0.70	-0.66	-48.60	1.68	0.33	24.06
Minnesota									
Public 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	20	10	0.70	0.72	0.02	2.21	0.97	0.27	38.73
Mississippi									
Public 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	10	20	0.50	0.22	-0.28*	-55.27	1.20	0.70	140.74
Missouri									
Public 2-year	10	10	0.30	0.22	-0.08	-26.33	0.23	-0.07	-22.76
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	20	10	1.52	1.25	-0.27	-17.57	0.95	-0.57	-37.30
Montana									
Public 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	10	10	0.21	0.17	-0.05	-21.72	0.22	0.01	4.24
Nebraska									
Public 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	20	10	0.48	0.59	0.10	21.77	0.38	-0.10*	-21.12

See notes at end of table.

**Table M-25. Institution-level study nonresponse bias analysis for selected variables—all undergraduate-enrolling institutions:
2019–20—Continued**

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non- respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non- response adjusted	Estimated bias ³	Relative bias ²
Nevada									
Public 2-year	†	†	†	†	†	†	†	†	†
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	10	20	0.52	0.39	-0.13	-24.42	0.59	0.07	14.21
New Hampshire									
Public 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	10	10	0.41	0.28	-0.13	-31.93	0.18	-0.23*	-55.45
New Jersey									
Public 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	20	10	1.81	2.29	0.48	26.79	1.85	0.04	2.45
New Mexico									
Public 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	10	10	0.28	0.25	-0.03	-11.94	0.27	-0.02	-6.70
New York									
Public 2-year	30	10	0.66	0.78	0.12	18.48	0.58	-0.08	-11.51
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	20	10	2.93	3.67	0.75	25.54	2.95	0.02	0.71
North Carolina									
Public 2-year	50	10	1.03	1.34	0.31*	29.56	1.01	-0.02	-1.77
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	30	10	1.18	1.59	0.41*	34.38	1.15	-0.03	-2.18
North Dakota									
Public 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year	#	10	0.16	0.11	-0.05	-30.42	0.26	0.10	60.14
Other	10	10	0.25	0.14	-0.11	-44.09	0.13	-0.12	-48.39
Ohio									
Public 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	20	10	3.88	3.70	-0.19	-4.84	4.51	0.63	16.10

See notes at end of table.

**Table M-25. Institution-level study nonresponse bias analysis for selected variables—all undergraduate-enrolling institutions:
2019–20—Continued**

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non- respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non- response adjusted	Estimated bias ³	Relative bias ²
Oklahoma									
Public 2-year	20	10	0.39	0.45	0.05	13.86	0.35	-0.04	-10.72
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	20	10	1.30	0.92	-0.37	-28.82	0.96	-0.34	-26.05
Oregon									
Public 2-year	10	10	0.30	0.28	-0.02	-7.91	0.31	0.01	2.63
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	20	10	0.74	0.62	-0.12	-16.10	1.05	0.31	42.03
Pennsylvania									
Public 2-year	10	10	0.32	0.36	0.04	13.07	0.24	-0.08	-25.02
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	20	10	5.00	6.06	1.06	21.19	5.16	0.15	3.01
Puerto Rico									
Public 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	20	10	1.78	1.25	-0.53	-29.68	1.28	-0.50	-28.14
Rhode Island									
Public 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	10	10	0.30	0.22	-0.08	-26.33	0.91	0.61	201.98
South Carolina									
Public 2-year	10	10	0.34	0.25	-0.09	-25.84	0.55	0.21	61.88
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	‡	‡	‡	‡	‡	‡	‡	‡	‡
South Dakota									
Public 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	10	10	0.21	0.20	-0.02	-8.68	0.52	0.31	144.44
Tennessee									
Public 2-year	30	10	0.69	0.89	0.20*	28.46	0.67	-0.03	-4.22
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	20	10	1.57	1.64	0.07	4.45	2.34	0.77	48.60

See notes at end of table.

**Table M-25. Institution-level study nonresponse bias analysis for selected variables—all undergraduate-enrolling institutions:
2019–20—Continued**

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non- respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non- response adjusted	Estimated bias ³	Relative bias ²
Texas									
Public 2-year	40	10	1.00	1.23	0.23*	23.01	1.30	0.30	30.00
Public 4-year	40	10	0.89	1.20	0.31*	34.64	0.98	0.09	10.12
Other	20	10	3.82	1.89	-1.93	-50.44	2.14	-1.68	-43.95
Utah									
Public 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	20	10	0.95	0.67	-0.28	-29.32	0.46	-0.50*	-52.10
Vermont									
Public 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	10	10	0.23	0.20	-0.04	-15.70	0.16	-0.07	-30.53
Virginia									
Public 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	20	10	2.99	1.49	-1.50	-50.25	4.52	1.53	51.10
Washington									
Public 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year	20	10	0.66	0.64	-0.02	-2.68	0.56	-0.10	-15.05
Other	20	10	0.85	0.91	0.06	7.09	0.71	-0.14	-16.08
West Virginia									
Public 2-year	10	10	0.21	0.14	-0.07	-34.77	0.25	0.03	14.75
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	10	20	0.80	0.37	-0.43*	-53.35	0.50	-0.30	-37.80
Wisconsin									
Public 2-year	10	10	0.28	0.28	-0.01	-2.15	0.28	#	-0.22
Public 4-year	10	10	0.27	0.28	0.01	4.37	0.26	-0.01	-2.63
Other	10	20	0.83	0.49	-0.34	-40.72	1.58	0.75	90.19
Wyoming									
Public 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

**Table M-25. Institution-level study nonresponse bias analysis for selected variables—all undergraduate-enrolling institutions:
2019–20—Continued**

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non- respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non- response adjusted	Estimated bias ³	Relative bias ²
Carnegie classification 2015: Basic					(Effect size = 0.19)			(Effect size = 0.04)	
Associate's	790	280	26.96	27.92	0.96	3.54	27.53	0.57	2.10
Research and doctoral	250	40	5.49	7.35	1.86*	33.86	5.95	0.47	8.50
Master's	450	130	12.99	15.40	2.41*	18.52	12.55	-0.44	-3.42
Baccalaureate	290	100	10.27	12.05	1.78*	17.36	10.25	-0.02	-0.16
Special focus and other	130	70	9.00	10.14	1.14	12.61	9.76	0.76	8.45
Unavailable or unknown	230	240	35.28	27.14	-8.14*	-23.07	33.95	-1.33	-3.78
Degree of urbanization					(Effect size = 0.12)			(Effect size = 0.22)	
Large city	430	150	24.78	23.37	-1.42	-5.71	20.00	-4.79*	-19.32
Midsize city	240	120	10.97	8.62	-2.34	-21.38	8.96	-2.00	-18.27
Small city	290	130	11.90	11.68	-0.22	-1.82	17.19	5.29*	44.42
Large suburb	350	150	24.12	26.89	2.77	11.47	25.37	1.25	5.19
Midsize suburb	70	30	2.62	2.44	-0.18	-6.83	2.39	-0.23	-8.64
Small suburb	60	10	1.50	1.95	0.45*	30.07	1.35	-0.15	-10.18
Urban area on fringe of town	50	20	1.91	1.70	-0.21	-10.94	1.32	-0.58	-30.64
Urban area distant from town	230	70	6.78	8.14	1.36*	20.05	7.92	1.14	16.83
Urban area remote from town	190	70	5.96	6.00	0.04	0.67	4.66	-1.30	-21.80
Rural area on fringe of town	170	70	6.43	6.47	0.03	0.48	6.76	0.33	5.07
Rural area distant from town	50	30	2.05	1.56	-0.49	-23.70	2.59	0.54	26.23
Rural area remote from town	30	10	0.98	1.18	0.20	20.78	1.49	0.51	52.11
Bureau of Economic Analysis region*					(Effect size = 0.17)			(Effect size = 0.16)	
New England	150	70	6.86	8.40	1.54	22.39	7.22	0.36	5.23
Mideast	270	80	14.75	17.92	3.17*	21.45	14.65	-0.10	-0.69
Great Lakes	270	90	14.62	16.30	1.67	11.44	16.47	1.85	12.66
Plains	220	120	7.84	7.15	-0.69	-8.82	7.68	-0.16	-2.05
Southeast	600	230	25.05	25.76	0.71	2.82	29.46	4.41	17.59
Southwest	220	80	10.67	8.66	-2.00	-18.78	7.99	-2.67	-25.08
Rocky Mountains	120	50	3.79	3.82	0.03	0.81	3.94	0.16	4.18
Far West	250	120	14.30	10.28	-4.03	-28.14	10.88	-3.42	-23.91
Outlying Areas	40	10	2.12	1.72	-0.39	-18.52	1.70	-0.42	-19.77

See notes at end of table.

Table M-25. Institution-level study nonresponse bias analysis for selected variables—all undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Historically Black College or University					(Effect size = 0.05)		(Effect size = #)		
Yes	70	10	1.99	2.66	0.67*	33.69	1.99	#	#
No or unavailable or unknown	2,080	850	98.01	97.34	-0.67*	-0.69	98.01	#	#
Hispanic-Serving Institution					(Effect size = 0.07)		(Effect size = 0.11)		
Yes	430	160	23.26	20.32	-2.94	-12.64	18.50	-4.76*	-20.47
No	1,730	700	76.74	79.68	2.94	3.83	81.50	4.76*	6.20
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁵					(Effect size = 0.07)		(Effect size = 0.14)		
0–3	550	230	20.25	18.47	-1.78	-8.79	18.66	-1.59	-7.86
4–8	590	200	22.40	23.56	1.16	5.18	20.75	-1.65	-7.37
9–17	480	180	21.61	23.42	1.81	8.36	27.23	5.62*	25.99
18 or more	500	230	32.54	31.24	-1.30	-3.99	31.09	-1.45	-4.46
Unknown	40	10	3.19	3.31	0.11	3.49	2.27	-0.92	-28.88
Percentage of undergraduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁵					(Effect size = 0.07)		(Effect size = 0.12)		
0–1	800	330	39.57	40.95	1.38	3.49	41.46	1.89	4.78
2	380	160	16.94	15.71	-1.23	-7.26	13.71	-3.22*	-19.03
3–5	480	220	19.27	21.17	1.90	9.88	22.13	2.86	14.86
6 or more	450	130	21.03	18.86	-2.17	-10.31	20.42	-0.61	-2.90
Unknown	40	10	3.19	3.31	0.11	3.49	2.27	-0.92	-28.88
Percentage of undergraduate students enrolled: Hispanic ⁵					(Effect size = 0.03)		(Effect size = 0.14)		
0–4	520	240	25.83	26.17	0.34	1.30	30.64	4.81	18.60
5–9	550	230	20.86	21.32	0.46	2.21	22.52	1.65	7.93
10–20	490	190	23.23	23.65	0.41	1.78	21.39	-1.84	-7.93
21 or more	550	180	26.88	25.56	-1.32	-4.91	23.18	-3.69	-13.75
Unknown	40	10	3.19	3.31	0.11	3.49	2.27	-0.92	-28.88
Total undergraduate enrollment ⁵					(Effect size = 0.19)		(Effect size = 0.01)		
1–971	410	320	51.69	42.17	-9.52*	-18.42	51.40	-0.30	-0.57
972–3,050	550	210	20.18	23.13	2.95*	14.63	20.47	0.29	1.42
3,051–8,528	600	160	14.54	17.89	3.35*	23.05	14.50	-0.04	-0.27
8,529 or more	600	160	13.59	16.81	3.22*	23.68	13.64	0.05	0.35

See notes at end of table.

Table M-25. Institution-level study nonresponse bias analysis for selected variables—all undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Total male undergraduate enrollment ⁵					(Effect size = 0.18)			(Effect size = 0.01)	
1–378	410	330	50.81	42.09	-8.72*	-17.17	50.47	-0.35	-0.68
379–1,204	550	200	20.93	23.46	2.52*	12.06	21.19	0.26	1.23
1,205–3,530	600	170	14.68	17.72	3.04*	20.71	14.74	0.06	0.42
3,531 or more	600	160	13.58	16.74	3.16*	23.28	13.60	0.03	0.20
Total female undergraduate enrollment ⁵					(Effect size = 0.21)			(Effect size = 0.01)	
1–566	410	320	49.42	39.21	-10.21*	-20.65	49.28	-0.14	-0.28
567–1,780	550	210	22.28	25.89	3.61*	16.23	22.54	0.26	1.18
1,781–4,918	600	160	14.71	18.03	3.32*	22.54	14.58	-0.13	-0.90
4,919 or more	600	160	13.59	16.86	3.28*	24.11	13.59	0.01	0.04
Percentage of undergraduate students receiving federal grant aid ⁵					(Effect size = 0.10)			(Effect size = 0.12)	
1–44	550	190	22.55	24.45	1.90	8.40	21.79	-0.77	-3.40
45–61	510	210	20.42	22.89	2.46	12.06	22.43	2.01	9.83
62–80	510	210	20.07	18.83	-1.24	-6.19	17.62	-2.45	-12.19
81 or more	470	200	29.84	26.26	-3.58	-12.01	28.44	-1.40	-4.70
None or unknown	110	50	7.11	7.58	0.47	6.55	9.72	2.61	36.67
Percentage of undergraduate students receiving state/local grant aid ⁵					(Effect size = 0.15)			(Effect size = 0.13)	
1–8	460	290	41.62	34.85	-6.78*	-16.28	40.62	-1.01	-2.42
9–28	500	190	16.26	17.18	0.92	5.69	14.90	-1.35	-8.31
29–51	520	170	17.05	18.11	1.07	6.26	14.40	-2.64*	-15.50
52 or more	550	150	17.96	22.28	4.32*	24.04	20.35	2.39	13.32
None or unknown	110	50	7.11	7.58	0.47	6.55	9.72	2.61	36.67
Percentage of undergraduate students receiving institution grant aid ⁵					(Effect size = 0.15)			(Effect size = 0.13)	
1–10	470	290	37.71	30.52	-7.19*	-19.07	35.33	-2.38	-6.31
11–36	500	180	18.43	19.87	1.44	7.79	20.79	2.36	12.80
37–78	560	160	18.50	20.39	1.90	10.25	16.87	-1.63	-8.80
79 or more	510	180	18.25	21.64	3.39*	18.60	17.29	-0.96	-5.25
None or unknown	110	50	7.11	7.58	0.47	6.55	9.72	2.61	36.67

See notes at end of table.

Table M-25. Institution-level study nonresponse bias analysis for selected variables—all undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Percentage of undergraduate students receiving student loan aid ⁵					(Effect size = 0.11)		(Effect size = 0.11)		
1–14	530	190	17.34	16.83	-0.50	-2.91	17.63	0.30	1.71
15–46	540	160	17.33	21.11	3.79*	21.86	17.45	0.12	0.71
47–68	520	190	24.96	24.64	-0.32	-1.28	22.01	-2.95	-11.80
69 or more	440	270	33.26	29.83	-3.43	-10.31	33.18	-0.08	-0.25
None or unknown	110	50	7.11	7.58	0.47	6.55	9.72	2.61	36.67
Average net price among students receiving grant or scholarship aid ⁵					(Effect size = 0.07)		(Effect size = 0.08)		
\$1–\$7,913	540	170	16.59	17.69	1.10	6.63	15.41	-1.18	-7.09
\$7,914–\$13,216	510	200	17.52	14.86	-2.67	-15.21	17.16	-0.36	-2.08
\$13,217–\$20,023	500	210	27.86	28.12	0.26	0.95	28.03	0.17	0.62
\$20,024 or more	480	220	29.61	30.81	1.21	4.08	28.78	-0.82	-2.78
None or unknown	130	60	8.42	8.52	0.09	1.12	10.61	2.19	26.03
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					(Effect size = 0.09)		(Effect size = 0.15)		
1–67	520	240	27.14	25.89	-1.25	-4.61	24.98	-2.15	-7.93
68–82	520	190	23.80	21.29	-2.51	-10.54	21.24	-2.56	-10.76
83–94	510	190	20.98	21.25	0.28	1.32	21.00	0.03	0.13
95 or more	510	200	22.82	25.69	2.88*	12.60	24.61	1.79	7.86
None or unknown	90	30	5.27	5.88	0.61	11.48	8.17	2.89	54.89
Number of full-time, first-time undergraduate students living on campus ⁵					(Effect size = 0.16)		(Effect size = 0.02)		
0–114	260	110	9.26	10.29	1.03	11.09	9.39	0.12	1.35
115–274	270	90	9.17	10.80	1.62*	17.67	8.88	-0.30	-3.22
275–656	290	70	8.28	10.51	2.22*	26.84	8.67	0.38	4.62
657 or more	310	60	6.75	8.95	2.21*	32.73	6.96	0.21	3.14
Unknown	1,030	530	66.53	59.45	-7.08*	-10.64	66.11	-0.42	-0.64

See notes at end of table.

Table M-25. Institution-level study nonresponse bias analysis for selected variables—all undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁵					(Effect size = 0.14)		(Effect size = 0.10)		
0–36	420	290	40.61	35.01	-5.60*	-13.80	37.56	-3.06	-7.52
37–90	490	200	20.67	20.42	-0.26	-1.23	19.60	-1.07	-5.17
91–218	530	180	16.60	18.64	2.04*	12.32	18.01	1.42	8.53
219 or more	580	130	13.36	17.07	3.70*	27.71	13.96	0.59	4.45
Unknown	130	60	8.75	8.87	0.11	1.28	10.87	2.11	24.15
Average amount of grant and scholarship aid received ⁵					(Effect size = 0.11)		(Effect size = 0.12)		
\$0–\$5,000	470	240	30.44	27.57	-2.86	-9.41	32.15	1.71	5.61
\$5,001–\$6,090	490	220	24.61	22.50	-2.11	-8.58	21.53	-3.08	-12.51
\$6,091–\$9,754	540	170	19.52	20.40	0.88	4.52	18.90	-0.62	-3.18
\$9,755 or more	540	170	18.58	22.31	3.74*	20.13	18.05	-0.52	-2.81
Unknown	110	40	6.85	7.21	0.35	5.14	9.37	2.52	36.70
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁵					(Effect size = 0.12)		(Effect size = 0.12)		
0–30	560	190	17.23	19.11	1.88	10.91	18.91	1.68	9.77
31–46	540	180	18.45	20.43	1.98	10.72	18.42	-0.03	-0.17
47–65	480	210	21.41	23.18	1.77	8.26	22.39	0.97	4.55
66 or more	460	240	36.89	31.07	-5.82*	-15.78	32.30	-4.58	-12.43
Unknown	100	40	6.02	6.21	0.19	3.23	7.97	1.96	32.54

Rounds to zero.

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the institution base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the institution base weight adjusted for nonresponse) and weighted full-sample mean (using the institution base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Institution base weight" refers to the institution sampling weight. For the purpose of this table, "state" includes Puerto Rico and District of Columbia. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-26. Institution-level study nonresponse bias analysis for selected variables—public less-than-2-year undergraduate-enrolling institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Degree of urbanization					(Effect size = ‡)			(Effect size = ‡)	
Large city	‡	‡	‡	‡	‡	‡	‡	‡	‡
Midsized city	‡	‡	‡	‡	‡	‡	‡	‡	‡
Small city	‡	‡	‡	‡	‡	‡	‡	‡	‡
Large suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Midsized suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ⁴					(Effect size = ‡)			(Effect size = ‡)	
New England	‡	‡	‡	‡	‡	‡	‡	‡	‡
Mideast	‡	‡	‡	‡	‡	‡	‡	‡	‡
Great Lakes	‡	‡	‡	‡	‡	‡	‡	‡	‡
Plains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southeast	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southwest	10	10	11.62	12.73	1.11	9.53	12.39	0.77	6.65
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	‡	‡	‡	‡	‡	‡	‡	‡	‡
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡
Hispanic-Serving Institution					(Effect size = ‡)			(Effect size = ‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡
No	20	20	98.01	98.13	0.13	0.13	98.69	0.68	0.69

See notes at end of table.

Table M-26. Institution-level study nonresponse bias analysis for selected variables—public less-than-2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–2	10	10	12.93	12.15	-0.79	-6.09	8.83	-4.11	-31.76
3–4	‡	‡	‡	‡	‡	‡	‡	‡	‡
5–8	‡	‡	‡	‡	‡	‡	‡	‡	‡
9 or more	#	10	73.36	73.96	0.60	0.82	72.79	-0.57	-0.78
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–1	10	10	63.05	80.63	17.57	27.87	60.96	-2.09	-3.32
2	‡	‡	‡	‡	‡	‡	‡	‡	‡
3 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–3	#	10	12.31	9.41	-2.91	-23.61	6.60	-5.71	-46.38
4–9	‡	‡	‡	‡	‡	‡	‡	‡	‡
10–14	‡	‡	‡	‡	‡	‡	‡	‡	‡
15 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–140	#	10	81.22	79.78	-1.43	-1.76	77.44	-3.78	-4.65
141–460	10	10	10.36	12.30	1.94	18.77	13.90	3.54	34.15
461–1,450	‡	‡	‡	‡	‡	‡	‡	‡	‡
1,451 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total male undergraduate enrollment ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–64	#	10	81.34	79.78	-1.55	-1.91	77.44	-3.90	-4.79
65–296	#	10	9.43	10.01	0.58	6.20	7.99	-1.43	-15.22
297–876	‡	‡	‡	‡	‡	‡	‡	‡	‡
877 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-26. Institution-level study nonresponse bias analysis for selected variables—public less-than-2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Total female undergraduate enrollment ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–99	10	10	82.24	82.07	-0.17	-0.21	83.34	1.10	1.34
100–228	#	10	9.33	10.01	0.68	7.30	7.99	-1.34	-14.34
229–557	10	10	5.00	3.96	-1.04	-20.79	5.35	0.35	6.94
558 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving federal grant aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–29	‡	‡	‡	‡	‡	‡	‡	‡	‡
30–58	‡	‡	‡	‡	‡	‡	‡	‡	‡
59–74	‡	‡	‡	‡	‡	‡	‡	‡	‡
75 or more	#	10	11.98	10.00	-1.99	-16.57	31.79	19.80	165.26
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving state/local grant aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–3	‡	‡	‡	‡	‡	‡	‡	‡	‡
4–9	‡	‡	‡	‡	‡	‡	‡	‡	‡
10–35	‡	‡	‡	‡	‡	‡	‡	‡	‡
36 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving institution grant aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
0	10	10	77.18	75.36	-1.82	-2.36	53.74	-23.45	-30.38
1–7	‡	‡	‡	‡	‡	‡	‡	‡	‡
8–29	‡	‡	‡	‡	‡	‡	‡	‡	‡
30 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving student loan aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
0	10	10	36.38	10.67	-25.71	-70.66	14.56	-21.82	-59.98
1–8	‡	‡	‡	‡	‡	‡	‡	‡	‡
9 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-26. Institution-level study nonresponse bias analysis for selected variables—public less-than-2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Average net price among students receiving grant or scholarship aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
\$1–\$3,281	#	10	27.33	2.71	-24.62	-90.10	4.27	-23.06	-84.37
\$3,282–\$5,236	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$5,237–\$8,681	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$8,682 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–46	‡	‡	‡	‡	‡	‡	‡	‡	‡
47–65	‡	‡	‡	‡	‡	‡	‡	‡	‡
66–83	10	10	5.30	4.03	-1.28	-24.10	3.62	-1.69	-31.80
84 or more	#	10	13.20	12.29	-0.91	-6.88	37.69	24.49	185.63
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁵					(Effect size = ‡)			(Effect size = ‡)	
0	‡	‡	‡	‡	‡	‡	‡	‡	‡
1–10	‡	‡	‡	‡	‡	‡	‡	‡	‡
11 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	20	20	97.37	97.19	-0.18	-0.19	93.65	-3.72	-3.82
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–3	‡	‡	‡	‡	‡	‡	‡	‡	‡
4–11	‡	‡	‡	‡	‡	‡	‡	‡	‡
12–21	‡	‡	‡	‡	‡	‡	‡	‡	‡
22 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	10	10	14.39	15.36	0.98	6.80	10.44	-3.94	-27.41

See notes at end of table.

Table M-26. Institution-level study nonresponse bias analysis for selected variables—public less-than-2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Average amount of grant and scholarship aid received ⁵					(Effect size = ‡)			(Effect size = ‡)	
\$0–\$3,048	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$3,049–\$3,955	#	10	4.75	1.36	-3.39	-71.30	4.11	-0.63	-13.36
\$3,956–\$5,239	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$5,240 or more	#	10	5.05	3.11	-1.94	-38.38	6.47	1.42	28.18
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–61	10	10	4.61	3.12	-1.49	-32.32	3.07	-1.54	-33.49
62–72	#	10	5.92	3.23	-2.69	-45.49	4.51	-1.41	-23.77
73–86	10	10	30.33	11.06	-19.28	-63.55	8.64	-21.70	-71.52
87 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than five nonrespondents).

¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the institution base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the institution base weight adjusted for nonresponse) and weighted full-sample mean (using the institution base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-27. Institution-level study nonresponse bias analysis for selected variables—public 2-year undergraduate-enrolling institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Carnegie classification 2015: Basic					(Effect size = ‡)			(Effect size = ‡)	
Associate's	640	190	88.30	90.36	2.06*	2.34	88.78	0.48	0.55
Research and doctoral	‡	‡	‡	‡	‡	‡	‡	‡	‡
Master's	‡	‡	‡	‡	‡	‡	‡	‡	‡
Baccalaureate	‡	‡	‡	‡	‡	‡	‡	‡	‡
Special focus and other	10	10	1.70	1.41	-0.29	-16.85	2.99	1.29	75.80
Unavailable or unknown	60	40	10.00	8.22	-1.78*	-17.78	8.23	-1.77*	-17.70
Degree of urbanization					(Effect size = ‡)			(Effect size = ‡)	
Large city	90	20	10.93	12.00	1.07*	9.79	10.92	-0.01	-0.13
Midsize city	50	20	7.32	7.20	-0.12	-1.67	6.78	-0.54	-7.37
Small city	80	30	11.46	10.87	-0.59	-5.15	12.13	0.67	5.82
Large suburb	110	40	15.95	16.13	0.19	1.16	14.57	-1.38	-8.64
Midsize suburb	20	10	2.97	2.68	-0.29	-9.72	2.42	-0.56	-18.69
Small suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area on fringe of town	10	10	1.80	1.69	-0.11	-6.09	1.30	-0.51*	-28.07
Urban area distant from town	80	20	11.14	11.58	0.43	3.90	13.76	2.62	23.51
Urban area remote from town	80	30	11.78	11.58	-0.20	-1.72	11.38	-0.40	-3.38
Rural area on fringe of town	120	40	16.77	16.24	-0.53	-3.17	16.84	0.07	0.42
Rural area distant from town	30	10	5.09	4.80	-0.29	-5.76	4.24	-0.86	-16.85
Rural area remote from town	20	10	2.12	2.12	#	-0.22	3.35	1.23	57.91
Bureau of Economic Analysis region*					(Effect size = ‡)			(Effect size = ‡)	
New England	40	10	4.88	5.37	0.48	9.90	4.18	-0.70*	-14.37
Mideast	70	20	9.55	9.60	0.05	0.52	8.18	-1.37*	-14.37
Great Lakes	90	20	11.89	12.57	0.68	5.72	12.89	1.00	8.41
Plains	70	40	11.57	10.17	-1.40*	-12.12	12.82	1.25	10.79
Southeast	230	70	31.76	32.23	0.47	1.47	31.39	-0.37	-1.16
Southwest	90	30	12.42	12.99	0.57	4.61	12.81	0.40	3.18
Rocky Mountains	20	10	3.18	3.11	-0.08	-2.44	2.78	-0.40	-12.70
Far West	90	40	14.22	13.27	-0.95	-6.67	14.46	0.24	1.70
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-27. Institution-level study nonresponse bias analysis for selected variables—public 2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Historically Black College or University					(Effect size = ‡)			(Effect size = ‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡
No or unavailable or unknown	700	230	98.94	98.73	-0.21	-0.21	99.05	0.11	0.12
Hispanic-Serving Institution					(Effect size = #)			(Effect size = #)	
Yes	190	60	26.21	26.40	0.19	0.72	26.24	0.03	0.10
No	520	170	73.79	73.60	-0.19	-0.26	73.76	-0.03	-0.04
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁵					(Effect size = 0.03)			(Effect size = 0.10)	
0–3	200	70	28.76	28.66	-0.10	-0.34	28.51	-0.25	-0.88
4–8	160	60	24.09	23.01	-1.08	-4.47	21.42	-2.67*	-11.08
9–17	160	50	22.53	23.19	0.66	2.95	26.29	3.77	16.72
18 or more	180	50	24.62	25.13	0.51	2.07	23.78	-0.84	-3.42
Percentage of undergraduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁵					(Effect size = 0.02)			(Effect size = 0.06)	
0–1	310	100	43.83	44.05	0.22	0.50	45.34	1.51	3.44
2	130	40	17.51	17.65	0.14	0.79	18.67	1.16	6.62
3–4	110	50	17.11	16.41	-0.70	-4.09	15.40	-1.71	-9.99
5 or more	160	50	21.54	21.89	0.34	1.58	20.59	-0.96	-4.45
Percentage of undergraduate students enrolled: Hispanic ⁵					(Effect size = 0.03)			(Effect size = 0.01)	
0–4	180	70	26.11	25.56	-0.55	-2.11	26.12	0.02	0.06
5–10	190	60	26.43	26.12	-0.31	-1.16	26.25	-0.18	-0.69
11–27	170	50	23.27	24.32	1.05	4.52	23.70	0.43	1.85
28 or more	170	60	24.20	24.00	-0.19	-0.80	23.93	-0.27	-1.10
Total undergraduate enrollment ⁵					(Effect size = 0.05)			(Effect size = 0.11)	
1–2,179	160	70	25.18	23.33	-1.85*	-7.34	30.10	4.93*	19.56
2,180–5,086	190	50	24.94	26.26	1.32	5.30	23.12	-1.82	-7.30
5,087–10,883	180	50	24.94	25.70	0.76	3.03	23.97	-0.97	-3.89
10,884 or more	180	60	24.94	24.71	-0.23	-0.93	22.81	-2.13	-8.56

See notes at end of table.

Table M-27. Institution-level study nonresponse bias analysis for selected variables—public 2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Total male undergraduate enrollment ⁵					(Effect size = 0.03)		(Effect size = 0.13)		
1–878	170	60	25.18	24.60	-0.58	-2.29	30.80	5.62*	22.31
879–2,079	180	60	24.94	24.85	-0.09	-0.36	22.31	-2.63*	-10.56
2,080–4,584	190	50	24.94	26.26	1.32	5.30	24.47	-0.47	-1.88
4,585 or more	170	60	24.94	24.29	-0.66	-2.63	22.43	-2.52*	-10.09
Total female undergraduate enrollment ⁵					(Effect size = 0.06)		(Effect size = 0.10)		
1–1,314	160	80	25.28	23.05	-2.24*	-8.84	29.43	4.15	16.40
1,315–3,011	190	50	24.83	26.69	1.85*	7.46	24.05	-0.79	-3.17
3,012–6,282	180	60	24.94	24.99	0.05	0.20	23.25	-1.69	-6.77
6,283 or more	180	60	24.94	25.27	0.33	1.34	23.27	-1.67	-6.70
Percentage of undergraduate students receiving federal grant aid ⁵					(Effect size = 0.06)		(Effect size = 0.08)		
1–52	170	70	25.71	24.46	-1.25	-4.86	25.10	-0.61	-2.39
53–64	170	70	25.37	24.57	-0.80	-3.14	23.66	-1.70	-6.72
65–78	170	50	23.35	23.72	0.37	1.59	22.81	-0.54	-2.31
79 or more	190	40	24.30	26.40	2.10*	8.64	27.42	3.11	12.81
None or unknown	10	10	1.27	0.85	-0.43	-33.48	1.02	-0.25	-20.02
Percentage of undergraduate students receiving state/local grant aid ⁵					(Effect size = 0.07)		(Effect size = 0.06)		
1–19	170	70	24.86	23.75	-1.11	-4.45	26.73	1.87	7.51
20–37	180	50	24.73	25.84	1.11	4.49	23.10	-1.63	-6.59
38–64	190	50	25.47	27.25	1.78*	6.99	25.21	-0.26	-1.02
65 or more	160	70	23.67	22.31	-1.36	-5.74	23.94	0.28	1.17
None or unknown	10	10	1.27	0.85	-0.43	-33.48	1.02	-0.25	-20.02
Percentage of undergraduate students receiving institution grant aid ⁵					(Effect size = 0.05)		(Effect size = 0.07)		
1–5	170	70	25.15	24.29	-0.87	-3.45	22.96	-2.19	-8.71
6–15	170	60	24.75	24.32	-0.43	-1.75	23.96	-0.79	-3.19
16–32	180	50	24.52	25.70	1.18	4.82	25.81	1.29	5.26
33 or more	180	50	24.30	24.85	0.55	2.25	26.25	1.94	8.00
None or unknown	10	10	1.27	0.85	-0.43	-33.48	1.02	-0.25	-20.02

See notes at end of table.

Table M-27. Institution-level study nonresponse bias analysis for selected variables—public 2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Percentage of undergraduate students receiving student loan aid ⁵					(Effect size = 0.07)			(Effect size = 0.05)	
1	190	70	28.04	27.00	-1.04	-3.71	27.13	-0.91	-3.26
2–11	170	40	21.86	24.14	2.28*	10.44	23.39	1.53	6.98
12–28	170	60	24.30	24.43	0.12	0.51	23.13	-1.17	-4.82
29 or more	170	60	24.52	23.58	-0.94	-3.82	25.33	0.81	3.32
None or unknown	10	10	1.27	0.85	-0.43	-33.48	1.02	-0.25	-20.02
Average net price among students receiving grant or scholarship aid ⁵					(Effect size = 0.05)			(Effect size = 0.10)	
\$1–\$5,873	180	50	24.62	25.56	0.93	3.79	23.52	-1.10	-4.46
\$5,874–\$7,324	180	60	24.52	24.85	0.33	1.36	22.74	-1.78	-7.25
\$7,325–\$9,467	170	60	24.75	24.04	-0.72	-2.90	23.87	-0.88	-3.56
\$9,468 or more	170	60	24.52	24.57	0.05	0.21	28.75	4.23	17.26
None or unknown	10	10	1.59	0.99	-0.60	-37.91	1.12	-0.47	-29.83
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–64	180	70	26.66	26.30	-0.37	-1.38	24.55	-2.11	-7.92
65–76	180	50	24.52	25.98	1.46	5.97	23.79	-0.73	-2.97
77–87	170	60	24.52	24.14	-0.37	-1.52	26.08	1.57	6.38
88 or more	170	60	23.99	23.30	-0.69	-2.87	25.16	1.18	4.92
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁵					(Effect size = 0.03)			(Effect size = 0.07)	
0–39	40	20	6.05	5.65	-0.40	-6.64	6.25	0.20	3.36
40–70	40	10	6.05	6.07	0.02	0.36	7.70	1.65	27.31
71–127	40	20	5.73	5.08	-0.65	-11.31	5.04	-0.69	-12.13
128 or more	40	10	5.84	5.79	-0.05	-0.83	5.73	-0.10	-1.77
Unknown	550	170	76.33	77.41	1.08	1.41	75.28	-1.06	-1.38

See notes at end of table.

Table M-27. Institution-level study nonresponse bias analysis for selected variables—public 2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁵					(Effect size = 0.05)		(Effect size = 0.11)		
0–52	170	70	25.18	23.90	-1.28	-5.09	29.87	4.69	18.61
53–116	170	60	24.09	24.29	0.19	0.81	23.05	-1.05	-4.34
117–242	180	50	24.62	25.56	0.93	3.79	23.72	-0.90	-3.67
243 or more	180	50	24.30	24.99	0.69	2.83	22.03	-2.27*	-9.36
Unknown	10	10	1.80	1.27	-0.53	-29.57	1.34	-0.46	-25.75
Average amount of grant and scholarship aid received ⁵					(Effect size = ‡)		(Effect size = ‡)		
\$0–\$4,692	170	70	25.18	23.90	-1.28	-5.09	23.89	-1.29	-5.13
\$4,693–\$5,283	180	60	24.62	24.85	0.23	0.93	22.86	-1.76	-7.14
\$5,284–\$5,932	190	50	24.83	26.69	1.85*	7.46	27.91	3.07	12.38
\$5,933 or more	170	60	24.73	24.00	-0.73	-2.93	24.58	-0.15	-0.60
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁵					(Effect size = ‡)		(Effect size = ‡)		
0–23	190	60	26.85	26.97	0.12	0.44	27.27	0.42	1.55
24–30	170	50	23.88	24.43	0.55	2.29	24.43	0.55	2.31
31–39	170	60	24.09	24.14	0.05	0.22	22.46	-1.63	-6.78
40 or more	170	60	24.65	24.04	-0.61	-2.48	25.33	0.69	2.78
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the institution base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the institution base weight adjusted for nonresponse) and weighted full-sample mean (using the institution base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-28. Institution-level study nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate undergraduate-enrolling institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Carnegie classification 2015: Basic					(Effect size = ‡)			(Effect size = ‡)	
Associate's	90	30	70.66	69.05	-1.61	-2.28	66.03	-4.63	-6.56
Research and doctoral	‡	‡	‡	‡	‡	‡	‡	‡	‡
Master's	‡	‡	‡	‡	‡	‡	‡	‡	‡
Baccalaureate	‡	‡	‡	‡	‡	‡	‡	‡	‡
Special focus and other	10	10	8.38	6.35	-2.03	-24.26	10.47	2.09	24.92
Unavailable or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Degree of urbanization					(Effect size = ‡)			(Effect size = ‡)	
Large city	20	10	12.57	12.70	0.12	0.98	11.30	-1.28	-10.15
Midsize city	‡	‡	‡	‡	‡	‡	‡	‡	‡
Small city	20	10	19.16	19.05	-0.11	-0.60	19.17	0.01	0.06
Large suburb	20	10	14.37	12.70	-1.67	-11.64	11.47	-2.90	-20.17
Midsize suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area on fringe of town	20	10	12.57	12.70	0.12	0.98	15.47	2.89	22.99
Rural area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ⁴					(Effect size = ‡)			(Effect size = ‡)	
New England	‡	‡	‡	‡	‡	‡	‡	‡	‡
Mideast	‡	‡	‡	‡	‡	‡	‡	‡	‡
Great Lakes	‡	‡	‡	‡	‡	‡	‡	‡	‡
Plains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southeast	30	10	23.95	25.40	1.44	6.03	21.23	-2.72	-11.37
Southwest	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	30	20	29.94	22.22	-7.72*	-25.78	23.88	-6.06*	-20.23
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-28. Institution-level study nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Hispanic-Serving Institution					(Effect size = 0.03)			(Effect size = 0.09)	
Yes	30	10	23.35	24.60	1.25	5.35	27.14	3.79	16.22
No	100	30	76.65	75.40	-1.25	-1.63	72.86	-3.79	-4.94
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–2	30	10	26.95	24.60	-2.34	-8.69	27.04	0.10	0.36
3–7	30	10	22.75	23.81	1.06	4.64	25.16	2.40	10.56
8–13	40	10	26.95	27.78	0.83	3.09	26.63	-0.32	-1.18
14 or more	30	10	22.75	23.02	0.26	1.15	20.59	-2.17	-9.52
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–1	50	10	34.13	35.71	1.58	4.64	38.55	4.42	12.96
2	30	10	18.56	20.63	2.07	11.16	18.92	0.36	1.95
3–5	30	10	25.75	25.40	-0.35	-1.37	24.59	-1.15	-4.48
6 or more	20	10	20.96	17.46	-3.50	-16.69	17.34	-3.61	-17.25
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–5	40	10	28.14	30.16	2.02	7.16	30.78	2.63	9.36
6–12	30	20	25.75	21.43	-4.32*	-16.78	21.80	-3.95	-15.34
13–26	30	10	22.16	23.02	0.86	3.88	19.91	-2.24	-10.12
27 or more	30	10	23.35	24.60	1.25	5.35	26.93	3.57	15.30
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁵					(Effect size = 0.11)			(Effect size = 0.15)	
1–3,233	30	10	25.15	25.40	0.25	0.98	29.96	4.81	19.12
3,234–6,592	30	10	25.15	26.19	1.04	4.14	23.77	-1.38	-5.48
6,593–15,274	30	20	25.15	20.63	-4.51*	-17.95	19.75	-5.40*	-21.48
15,275 or more	40	10	24.55	27.78	3.23	13.14	26.52	1.97	8.03

See notes at end of table.

Table M-28. Institution-level study nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Total male undergraduate enrollment ⁵					(Effect size = 0.14)			(Effect size = 0.15)	
1–1,258	30	10	25.15	24.60	-0.55	-2.17	29.32	4.17	16.56
1,259–2,699	40	10	25.15	28.57	3.42*	13.61	25.79	0.64	2.56
2,700–6,370	30	20	25.15	19.84	-5.31*	-21.11	18.95	-6.20*	-24.64
6,371 or more	30	10	24.55	26.98	2.43	9.91	25.94	1.39	5.65
Total female undergraduate enrollment ⁵					(Effect size = 0.10)			(Effect size = 0.15)	
1–1,747	30	10	25.15	25.40	0.25	0.98	30.33	5.18	20.59
1,748–3,971	30	10	25.15	25.40	0.25	0.98	22.16	-2.99	-11.89
3,972–8,929	30	20	25.15	21.43	-3.72	-14.80	21.03	-4.12	-16.37
8,930 or more	40	10	24.55	27.78	3.23	13.14	26.48	1.93	7.86
Percentage of undergraduate students receiving federal grant aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–46	30	20	27.54	24.60	-2.94	-10.68	24.46	-3.09	-11.22
47–58	30	10	24.55	25.40	0.85	3.45	22.88	-1.67	-6.80
59–69	30	10	22.75	23.02	0.26	1.15	21.62	-1.13	-4.98
70 or more	30	10	23.95	25.40	1.44	6.03	29.67	5.72	23.86
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving state/local grant aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–18	40	10	26.35	30.16	3.81*	14.47	29.84	3.50	13.27
19–36	30	10	23.35	23.02	-0.34	-1.44	21.04	-2.32	-9.92
37–51	30	10	25.75	23.02	-2.73	-10.61	21.70	-4.05	-15.73
52 or more	30	10	23.35	22.22	-1.13	-4.84	26.05	2.69	11.53
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving institution grant aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–10	30	10	25.75	23.02	-2.73	-10.61	21.53	-4.22	-16.40
11–21	30	10	23.95	26.19	2.24	9.35	26.10	2.14	8.95
22–38	30	10	25.15	23.81	-1.34	-5.33	24.27	-0.88	-3.51
39 or more	30	10	23.95	25.40	1.44	6.03	26.74	2.78	11.62
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-28. Institution-level study nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Percentage of undergraduate students receiving student loan aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–5	30	20	25.15	19.84	-5.31*	-21.11	27.68	2.53	10.05
6–15	30	10	25.75	23.81	-1.94	-7.53	23.24	-2.51	-9.76
16–37	‡	‡	‡	‡	‡	‡	‡	‡	‡
38 or more	30	10	23.95	26.19	2.24	9.35	22.09	-1.86	-7.79
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Average net price among students receiving grant or scholarship aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
\$1–\$6,240	30	10	25.15	26.98	1.83	7.29	30.74	5.59	22.23
\$6,241–\$7,879	30	10	24.55	23.02	-1.54	-6.25	20.57	-3.98	-16.20
\$7,880–\$9,328	30	10	24.55	23.81	-0.74	-3.02	21.29	-3.26	-13.27
\$9,329 or more	30	10	24.55	24.60	0.05	0.21	26.02	1.47	5.97
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–59	30	10	26.95	26.98	0.04	0.14	26.31	-0.63	-2.34
60–71	30	10	23.35	21.43	-1.92	-8.24	21.73	-1.62	-6.93
72–83	30	10	25.15	23.81	-1.34	-5.33	19.66	-5.49*	-21.84
84 or more	30	10	23.95	26.98	3.03	12.66	31.71	7.76	32.39
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–21	10	10	9.58	7.14	-2.44	-25.45	12.14	2.56	26.68
22–75	‡	‡	‡	‡	‡	‡	‡	‡	‡
76–215	10	10	9.58	8.73	-0.85	-8.88	7.50	-2.08	-21.75
216 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	80	20	62.28	64.29	2.01	3.23	62.54	0.27	0.43

See notes at end of table.

Table M-28. Institution-level study nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁵					(Effect size = ‡)		(Effect size = ‡)		
0–71	30	10	25.15	23.81	-1.34	-5.33	25.61	0.46	1.82
72–132	30	10	23.95	23.02	-0.94	-3.91	25.69	1.73	7.24
133–347	30	10	24.55	26.19	1.64	6.68	24.13	-0.42	-1.71
348 or more	30	10	24.55	25.40	0.85	3.45	23.20	-1.35	-5.51
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Average amount of grant and scholarship aid received ⁵					(Effect size = ‡)		(Effect size = ‡)		
\$0–\$4,914	40	10	25.15	27.78	2.63	10.45	24.56	-0.59	-2.35
\$4,915–\$5,564	30	10	24.55	24.60	0.05	0.21	23.96	-0.59	-2.40
\$5,565–\$6,239	30	20	25.15	20.63	-4.51*	-17.95	22.74	-2.41	-9.57
\$6,240 or more	30	10	24.55	26.19	1.64	6.68	28.15	3.60	14.67
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁵					(Effect size = ‡)		(Effect size = ‡)		
0–19	30	10	25.15	26.98	1.83	7.29	32.89	7.74	30.78
20–28	40	10	29.34	30.16	0.82	2.79	28.58	-0.76	-2.58
29–35	30	10	20.36	20.63	0.28	1.35	19.28	-1.08	-5.29
36 or more	30	10	24.55	21.43	-3.12	-12.72	18.66	-5.89*	-23.99
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the institution base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the institution base weight adjusted for nonresponse) and weighted full-sample mean (using the institution base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-29. Institution-level study nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate undergraduate-enrolling institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Carnegie classification 2015: Basic					(Effect size = ‡)			(Effect size = ‡)	
Associate's	‡	‡	‡	‡	‡	‡	‡	‡	‡
Research and doctoral	‡	‡	‡	‡	‡	‡	‡	‡	‡
Master's	90	20	51.12	51.93	0.81	1.59	51.74	0.62	1.21
Baccalaureate	70	20	40.36	40.33	-0.03	-0.07	40.49	0.13	0.32
Special focus and other	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unavailable or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Degree of urbanization					(Effect size = ‡)			(Effect size = ‡)	
Large city	‡	‡	‡	‡	‡	‡	‡	‡	‡
Midsize city	10	10	8.52	7.18	-1.34	-15.70	6.65	-1.87	-21.97
Small city	20	10	12.56	12.71	0.15	1.20	14.79	2.23	17.78
Large suburb	30	10	16.14	16.57	0.43	2.67	16.70	0.55	3.43
Midsize suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area on fringe of town	10	10	5.83	4.42	-1.41	-24.18	3.95	-1.88	-32.25
Rural area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ⁴					(Effect size = ‡)			(Effect size = ‡)	
New England	20	10	11.66	11.60	-0.06	-0.49	12.19	0.53	4.56
Mideast	40	10	21.97	24.31	2.34*	10.63	21.80	-0.18	-0.81
Great Lakes	10	10	8.52	7.18	-1.34	-15.70	7.68	-0.84	-9.88
Plains	10	10	10.31	7.73	-2.58*	-25.01	7.87	-2.44	-23.70
Southeast	40	10	21.52	22.65	1.13	5.24	24.02	2.49	11.58
Southwest	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	‡	‡	‡	‡	‡	‡	‡	‡	‡
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-29. Institution-level study nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Historically Black College or University					(Effect size = ‡)			(Effect size = ‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡
No or unavailable or unknown	170	40	94.17	94.48	0.30	0.32	95.15	0.98	1.04
Hispanic-Serving Institution					(Effect size = #)			(Effect size = 0.02)	
Yes	30	10	16.59	16.57	-0.02	-0.10	15.77	-0.83	-4.97
No	150	40	83.41	83.43	0.02	0.02	84.23	0.83	0.99
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–3	50	10	26.46	25.41	-1.04	-3.94	24.66	-1.80	-6.81
4–6	40	10	23.32	23.20	-0.11	-0.49	21.93	-1.39	-5.95
7–12	40	10	21.08	20.44	-0.63	-3.01	22.37	1.30	6.15
13 or more	40	10	21.52	21.55	0.02	0.10	22.85	1.32	6.15
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–1	70	20	38.57	37.02	-1.55	-4.02	36.70	-1.87	-4.84
2	30	10	15.25	14.36	-0.88	-5.78	15.06	-0.19	-1.25
3–4	30	10	17.04	17.13	0.09	0.51	19.09	2.05	12.01
5 or more	40	10	21.52	22.10	0.57	2.67	20.97	-0.56	-2.60
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–5	60	10	30.04	31.49	1.45	4.82	32.70	2.65	8.82
6–10	30	20	20.63	17.13	-3.50*	-16.97	17.62	-3.01	-14.60
11–19	40	10	20.18	21.55	1.37	6.78	22.09	1.91	9.46
20 or more	40	10	21.52	20.44	-1.08	-5.03	19.41	-2.12	-9.84
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁵					(Effect size = 0.06)			(Effect size = 0.07)	
1–2,088	50	10	25.11	25.97	0.85	3.40	23.70	-1.41	-5.61
2,089–3,809	40	20	25.11	22.65	-2.46	-9.80	23.91	-1.20	-4.77
3,810–6,457	50	10	25.11	24.86	-0.25	-1.00	25.04	-0.07	-0.27
6,458 or more	50	10	24.66	26.52	1.86	7.52	27.34	2.68	10.85

See notes at end of table.

Table M-29. Institution-level study nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Total male undergraduate enrollment ⁵					(Effect size = 0.05)			(Effect size = 0.06)	
1–844	50	10	25.11	25.41	0.30	1.20	24.35	-0.76	-3.04
845–1,587	40	10	25.11	23.20	-1.91	-7.60	23.29	-1.82	-7.26
1,588–2,514	50	10	25.11	25.41	0.30	1.20	25.82	0.71	2.81
2,515 or more	50	10	24.66	25.97	1.30	5.28	26.55	1.88	7.63
Total female undergraduate enrollment ⁵					(Effect size = 0.05)			(Effect size = 0.08)	
1–1,205	50	10	25.11	25.41	0.30	1.20	23.29	-1.83	-7.27
1,206–2,224	40	10	25.11	23.20	-1.91	-7.60	22.97	-2.14	-8.52
2,225–3,879	50	10	25.11	24.86	-0.25	-1.00	26.66	1.54	6.15
3,880 or more	50	10	24.66	26.52	1.86	7.52	27.08	2.42	9.81
Percentage of undergraduate students receiving federal grant aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–45	40	10	23.32	24.31	0.99	4.25	23.47	0.15	0.63
46–60	40	10	21.97	19.34	-2.64	-12.00	21.20	-0.77	-3.52
61–80	40	10	22.42	20.99	-1.43	-6.36	19.95	-2.48	-11.04
81 or more	40	10	22.42	23.20	0.78	3.49	23.53	1.11	4.93
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving state/local grant aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–28	50	10	24.66	25.41	0.75	3.04	29.21	4.55*	18.44
29–41	30	20	21.52	17.68	-3.85*	-17.86	16.69	-4.84*	-22.47
42–61	40	10	21.97	20.44	-1.53	-6.97	19.53	-2.44	-11.12
62 or more	40	10	21.97	24.31	2.34*	10.63	22.71	0.73	3.34
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving institution grant aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–41	40	10	23.32	24.31	0.99	4.25	25.10	1.78	7.64
42–61	40	10	21.97	20.99	-0.98	-4.45	19.68	-2.29	-10.43
62–81	40	10	23.32	23.20	-0.11	-0.49	25.49	2.17	9.29
82 or more	40	10	21.52	19.34	-2.19	-10.16	17.87	-3.65*	-16.97
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-29. Institution-level study nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Percentage of undergraduate students receiving student loan aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–40	40	10	23.77	23.20	-0.56	-2.37	22.98	-0.79	-3.32
41–52	40	10	21.97	19.89	-2.08	-9.48	20.82	-1.15	-5.24
53–67	‡	‡	‡	‡	‡	‡	‡	‡	‡
68 or more	40	10	21.97	19.34	-2.64	-12.00	18.59	-3.38*	-15.40
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Average net price among students receiving grant or scholarship aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
\$1–\$10,260	40	10	22.87	20.99	-1.88	-8.20	20.30	-2.57	-11.24
\$10,261–\$13,279	50	10	22.42	24.86	2.44*	10.88	26.61	4.19*	18.68
\$13,280–\$15,760	40	10	22.42	20.44	-1.98	-8.83	19.78	-2.64	-11.77
\$15,761 or more	40	10	22.42	21.55	-0.87	-3.90	21.45	-0.97	-4.35
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–72	40	10	23.32	23.76	0.44	1.88	23.32	#	#
73–85	40	20	24.66	22.10	-2.56	-10.40	21.95	-2.72	-11.02
86–92	40	10	21.97	21.55	-0.43	-1.94	22.43	0.46	2.09
93 or more	40	10	20.18	20.44	0.26	1.30	20.48	0.30	1.49
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁵					(Effect size = 0.06)			(Effect size = 0.09)	
0–138	40	10	19.28	19.34	0.05	0.28	17.45	-1.83	-9.50
139–241	30	10	18.39	16.57	-1.81	-9.85	16.48	-1.91	-10.39
242–550	30	10	18.83	18.23	-0.60	-3.20	18.36	-0.47	-2.51
551 or more	40	10	18.83	19.34	0.50	2.67	20.78	1.95	10.33
Unknown	50	10	24.66	26.52	1.86	7.52	26.93	2.27	9.21

See notes at end of table.

Table M-29. Institution-level study nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–56	50	10	23.32	24.86	1.54	6.62	24.09	0.77	3.31
57–111	30	20	21.97	18.78	-3.19*	-14.51	18.98	-3.00	-13.64
112–219	40	10	22.87	20.99	-1.88	-8.20	22.37	-0.50	-2.17
220 or more	40	10	21.97	23.20	1.23	5.60	22.70	0.72	3.29
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Average amount of grant and scholarship aid received ⁵					(Effect size = ‡)			(Effect size = ‡)	
\$0–\$6,185	40	10	22.42	22.10	-0.32	-1.44	22.43	0.01	0.04
\$6,186–\$7,466	40	10	22.42	22.65	0.23	1.03	24.10	1.67	7.47
\$7,467–\$8,904	40	20	22.42	19.34	-3.08*	-13.76	18.92	-3.50*	-15.62
\$8,905 or more	40	10	22.42	23.20	0.78	3.49	22.17	-0.25	-1.12
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–35	40	10	23.77	23.20	-0.56	-2.37	21.63	-2.14	-9.01
36–46	40	10	21.52	19.89	-1.64	-7.60	20.41	-1.11	-5.17
47–58	40	10	21.52	22.10	0.57	2.67	23.48	1.96	9.10
59 or more	40	10	20.63	19.89	-0.74	-3.58	18.87	-1.76	-8.53
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the institution base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the institution base weight adjusted for nonresponse) and weighted full-sample mean (using the institution base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-30. Institution-level study nonresponse bias analysis for selected variables—public 4-year, doctorate-granting undergraduate-enrolling institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Carnegie classification 2015: Basic					(Effect size = ‡)			(Effect size = ‡)	
Associate's	‡	‡	‡	‡	‡	‡	‡	‡	‡
Research and doctoral	170	20	52.15	52.31	0.16	0.30	51.63	-0.52	-0.99
Master's	130	20	40.86	40.62	-0.24	-0.60	40.28	-0.58	-1.42
Baccalaureate	‡	‡	‡	‡	‡	‡	‡	‡	‡
Special focus and other	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unavailable or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Degree of urbanization					(Effect size = ‡)			(Effect size = ‡)	
Large city	90	10	26.34	27.69	1.35	5.12	27.19	0.85	3.22
Midsize city	50	10	16.94	16.00	-0.94	-5.52	16.51	-0.43	-2.53
Small city	60	10	18.01	17.23	-0.78	-4.33	17.86	-0.15	-0.81
Large suburb	40	10	11.29	11.08	-0.21	-1.89	11.00	-0.29	-2.53
Midsize suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area distant from town	20	10	7.80	7.08	-0.72	-9.22	7.47	-0.33	-4.24
Urban area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ⁴					(Effect size = ‡)			(Effect size = ‡)	
New England	‡	‡	‡	‡	‡	‡	‡	‡	‡
Mideast	‡	‡	‡	‡	‡	‡	‡	‡	‡
Great Lakes	40	10	13.98	12.62	-1.36	-9.75	13.42	-0.56	-4.03
Plains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southeast	90	10	28.49	28.62	0.12	0.42	28.68	0.19	0.66
Southwest	40	10	13.44	13.23	-0.21	-1.56	13.74	0.30	2.20
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	‡	‡	‡	‡	‡	‡	‡	‡	‡
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-30. Institution-level study nonresponse bias analysis for selected variables—public 4-year, doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Historically Black College or University					(Effect size = ‡)			(Effect size = ‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡
No or unavailable or unknown	300	50	93.01	92.62	-0.40	-0.43	93.28	0.27	0.29
Hispanic-Serving Institution					(Effect size = 0.01)			(Effect size = 0.02)	
Yes	60	10	18.82	19.38	0.57	3.02	19.54	0.72	3.83
No	260	40	81.18	80.62	-0.57	-0.70	80.46	-0.72	-0.89
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–4	100	20	31.18	31.08	-0.11	-0.34	31.44	0.25	0.81
5–7	60	10	19.35	19.38	0.03	0.15	18.98	-0.38	-1.96
8–17	80	10	24.73	24.31	-0.42	-1.71	24.94	0.21	0.86
18 or more	80	10	23.66	24.00	0.34	1.45	23.57	-0.09	-0.37
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–2	140	20	41.94	43.38	1.45	3.46	43.41	1.47	3.51
3	30	10	10.22	8.92	-1.29	-12.65	10.14	-0.07	-0.71
4–7	70	20	22.58	21.23	-1.35	-5.98	21.21	-1.37	-6.06
8 or more	80	10	24.19	25.23	1.04	4.29	24.16	-0.03	-0.13
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–5	100	20	30.38	29.54	-0.84	-2.76	30.38	#	#
6–8	70	10	19.89	20.31	0.42	2.09	20.44	0.55	2.77
9–20	80	10	24.19	23.69	-0.50	-2.07	23.28	-0.91	-3.78
21 or more	80	10	24.46	25.23	0.77	3.14	24.82	0.36	1.48
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁵					(Effect size = 0.03)			(Effect size = 0.06)	
1–7,161	80	10	25.00	24.62	-0.38	-1.54	24.55	-0.45	-1.79
7,162–12,746	80	10	25.00	25.54	0.54	2.15	26.84	1.84	7.34
12,747–23,490	80	10	25.00	25.85	0.85	3.38	25.57	0.57	2.26
23,491 or more	80	20	25.00	24.00	-1.00	-4.00	23.05	-1.95*	-7.82

See notes at end of table.

Table M-30. Institution-level study nonresponse bias analysis for selected variables—public 4-year, doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Total male undergraduate enrollment ⁵					(Effect size = 0.02)			(Effect size = 0.05)	
1–3,035	80	10	25.00	24.62	-0.38	-1.54	24.56	-0.44	-1.77
3,036–5,604	80	10	25.00	25.23	0.23	0.92	26.56	1.56	6.25
5,605–10,568	80	10	25.00	25.85	0.85	3.38	25.41	0.41	1.62
10,569 or more	80	10	25.00	24.31	-0.69	-2.77	23.48	-1.52	-6.10
Total female undergraduate enrollment ⁵					(Effect size = 0.03)			(Effect size = 0.06)	
1–4,101	80	10	25.00	24.31	-0.69	-2.77	24.29	-0.71	-2.84
4,102–7,146	80	10	25.00	25.85	0.85	3.38	27.07	2.07	8.27
7,147–12,605	80	10	25.00	25.85	0.85	3.38	25.51	0.51	2.05
12,606 or more	80	20	25.00	24.00	-1.00	-4.00	23.13	-1.87	-7.48
Percentage of undergraduate students receiving federal grant aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–36	70	10	23.12	22.46	-0.66	-2.84	22.06	-1.05	-4.56
37–49	70	20	24.46	22.77	-1.69	-6.92	23.49	-0.97	-3.96
50–70	80	10	22.58	23.38	0.80	3.56	23.13	0.55	2.45
71 or more	80	10	22.31	23.69	1.38	6.19	22.75	0.43	1.95
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving state/local grant aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–21	70	20	23.92	22.15	-1.77	-7.40	22.55	-1.38	-5.75
22–38	70	10	22.31	22.46	0.15	0.67	22.83	0.52	2.33
39–60	80	10	23.12	24.00	0.88	3.81	23.62	0.50	2.17
61 or more	80	10	23.12	23.69	0.57	2.48	22.44	-0.68	-2.94
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving institution grant aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–45	80	10	23.92	24.00	0.08	0.31	23.77	-0.15	-0.63
46–61	80	10	23.39	23.08	-0.31	-1.33	23.07	-0.32	-1.37
62–76	70	10	22.85	22.77	-0.08	-0.35	23.05	0.20	0.86
77 or more	70	10	22.31	22.46	0.15	0.67	21.55	-0.76	-3.41
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-30. Institution-level study nonresponse bias analysis for selected variables—public 4-year, doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Percentage of undergraduate students receiving student loan aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–37	80	10	23.12	24.00	0.88	3.81	22.94	-0.17	-0.75
38–51	70	10	23.12	22.46	-0.66	-2.84	23.16	0.04	0.19
52–62	70	20	23.92	22.15	-1.77	-7.40	22.61	-1.32	-5.50
63 or more	80	10	22.31	23.69	1.38	6.19	22.72	0.41	1.85
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Average net price among students receiving grant or scholarship aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
\$1–\$12,302	70	10	23.12	22.15	-0.96	-4.17	21.46	-1.66	-7.19
\$12,303–\$14,757	70	10	23.12	22.46	-0.66	-2.84	23.41	0.30	1.28
\$14,758–\$17,383	80	10	23.12	24.00	0.88	3.81	24.11	1.00	4.30
\$17,384 or more	80	10	22.85	23.38	0.54	2.34	22.16	-0.69	-3.02
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–69	70	20	23.92	21.54	-2.39*	-9.97	21.52	-2.40*	-10.05
70–81	80	10	23.39	24.00	0.61	2.62	24.53	1.14	4.87
82–90	90	10	26.34	27.69	1.35	5.12	27.08	0.73	2.79
91 or more	70	10	20.16	20.62	0.45	2.25	19.74	-0.42	-2.10
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–465	70	20	22.58	21.23	-1.35	-5.98	20.36	-2.22*	-9.84
466–900	70	10	22.58	22.46	-0.12	-0.53	23.30	0.72	3.18
901–1,551	80	10	22.58	23.38	0.80	3.56	23.17	0.59	2.63
1,552 or more	70	10	22.58	22.77	0.19	0.84	22.37	-0.21	-0.92
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-30. Institution-level study nonresponse bias analysis for selected variables—public 4-year, doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁵					(Effect size = ‡)		(Effect size = ‡)		
0–181	70	20	23.12	21.23	-1.89	-8.16	20.43	-2.69*	-11.62
182–330	80	10	23.12	23.38	0.27	1.15	24.04	0.92	3.97
331–508	80	10	23.12	24.62	1.50*	6.48	24.68	1.56	6.76
509 or more	70	10	22.85	22.77	-0.08	-0.35	21.99	-0.86	-3.75
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Average amount of grant and scholarship aid received ⁵					(Effect size = ‡)		(Effect size = ‡)		
\$0–\$7,027	80	10	23.39	23.08	-0.31	-1.33	24.01	0.62	2.64
\$7,028–\$8,427	80	10	23.39	23.38	#	-0.01	22.97	-0.42	-1.78
\$8,428–\$9,919	70	10	23.39	22.77	-0.62	-2.64	22.26	-1.13	-4.82
\$9,920 or more	80	10	23.39	24.31	0.92	3.94	23.33	-0.05	-0.23
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁵					(Effect size = ‡)		(Effect size = ‡)		
0–45	80	10	24.46	24.92	0.46	1.88	24.64	0.18	0.74
46–54	70	20	22.85	21.54	-1.31	-5.74	21.12	-1.73	-7.58
55–67	80	10	23.92	24.62	0.69	2.89	24.88	0.95	3.98
68 or more	70	10	22.04	22.15	0.11	0.50	21.66	-0.39	-1.75
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the institution base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the institution base weight adjusted for nonresponse) and weighted full-sample mean (using the institution base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-31. Institution-level study nonresponse bias analysis for selected variables—private nonprofit less-than-4-year undergraduate-enrolling institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Carnegie classification 2015: Basic					(Effect size = ‡)			(Effect size = ‡)	
Associate's	10	10	38.69	12.42	-26.27*	-67.89	18.39	-20.30	-52.46
Research and doctoral	‡	‡	‡	‡	‡	‡	‡	‡	‡
Master's	‡	‡	‡	‡	‡	‡	‡	‡	‡
Baccalaureate	‡	‡	‡	‡	‡	‡	‡	‡	‡
Special focus and other	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unavailable or unknown	10	10	60.95	87.58	26.63*	43.70	81.61	20.66	33.90
Degree of urbanization					(Effect size = ‡)			(Effect size = ‡)	
Large city	10	10	63.13	78.27	15.15	23.99	71.89	8.76	13.87
Midsize city	‡	‡	‡	‡	‡	‡	‡	‡	‡
Small city	‡	‡	‡	‡	‡	‡	‡	‡	‡
Large suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Midsize suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ⁴					(Effect size = ‡)			(Effect size = ‡)	
New England	‡	‡	‡	‡	‡	‡	‡	‡	‡
Mideast	‡	‡	‡	‡	‡	‡	‡	‡	‡
Great Lakes	‡	‡	‡	‡	‡	‡	‡	‡	‡
Plains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southeast	#	10	15.10	14.38	-0.72	-4.76	19.30	4.20	27.82
Southwest	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	‡	‡	‡	‡	‡	‡	‡	‡	‡
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-31. Institution-level study nonresponse bias analysis for selected variables—private nonprofit less-than-4-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Historically Black College or University					(Effect size = ‡)			(Effect size = ‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡
No or unavailable or unknown	10	20	99.63	100.00	0.37	0.37	100.00	0.37	0.37
Hispanic-Serving Institution					(Effect size = ‡)			(Effect size = ‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡
No	10	20	83.41	94.43	11.03	13.22	94.01	10.60	12.71
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–2	‡	‡	‡	‡	‡	‡	‡	‡	‡
3–16	‡	‡	‡	‡	‡	‡	‡	‡	‡
17–40	#	10	16.33	8.05	-8.28	-50.71	7.72	-8.61	-52.73
41 or more	#	10	12.76	7.58	-5.18	-40.62	13.31	0.55	4.33
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0	#	10	18.27	8.20	-10.07	-55.14	13.73	-4.54	-24.86
1	#	10	51.78	62.08	10.29	19.88	56.81	5.03	9.72
2–3	‡	‡	‡	‡	‡	‡	‡	‡	‡
4 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–1	#	10	61.70	67.69	5.99	9.71	70.48	8.79	14.25
2–4	‡	‡	‡	‡	‡	‡	‡	‡	‡
5–13	#	10	5.61	1.24	-4.37	-77.85	1.72	-3.90	-69.43
14 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–132	‡	‡	‡	‡	‡	‡	‡	‡	‡
133–336	‡	‡	‡	‡	‡	‡	‡	‡	‡
337–727	#	10	33.54	11.80	-21.74	-64.82	18.39	-15.15	-45.16
728 or more	#	10	10.47	6.19	-4.28	-40.91	6.40	-4.07	-38.84

See notes at end of table.

Table M-31. Institution-level study nonresponse bias analysis for selected variables—private nonprofit less-than-4-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Total male undergraduate enrollment ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–24	‡	‡	‡	‡	‡	‡	‡	‡	‡
25–64	‡	‡	‡	‡	‡	‡	‡	‡	‡
65–156	#	10	27.99	5.57	-22.42	-80.12	5.59	-22.40	-80.02
157 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total female undergraduate enrollment ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–61	‡	‡	‡	‡	‡	‡	‡	‡	‡
62–190	‡	‡	‡	‡	‡	‡	‡	‡	‡
191–530	#	10	23.82	5.61	-18.21	-76.44	13.23	-10.59	-44.47
531 or more	#	10	16.55	5.57	-10.98	-66.37	5.57	-10.97	-66.31
Percentage of undergraduate students receiving federal grant aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–63	‡	‡	‡	‡	‡	‡	‡	‡	‡
64–69	#	10	19.48	6.81	-12.67	-65.05	5.99	-13.48	-69.23
70–95	#	10	10.34	1.24	-9.10	-87.98	2.13	-8.22	-79.45
96 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving state/local grant aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
0	#	10	20.30	8.20	-12.10	-59.62	14.61	-5.69	-28.04
1–2	‡	‡	‡	‡	‡	‡	‡	‡	‡
3–46	‡	‡	‡	‡	‡	‡	‡	‡	‡
47 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving institution grant aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
0	‡	‡	‡	‡	‡	‡	‡	‡	‡
1–29	‡	‡	‡	‡	‡	‡	‡	‡	‡
30–68	‡	‡	‡	‡	‡	‡	‡	‡	‡
69 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-31. Institution-level study nonresponse bias analysis for selected variables—private nonprofit less-than-4-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Percentage of undergraduate students receiving student loan aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–45	‡	‡	‡	‡	‡	‡	‡	‡	‡
46–74	‡	‡	‡	‡	‡	‡	‡	‡	‡
75–92	‡	‡	‡	‡	‡	‡	‡	‡	‡
93 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Average net price among students receiving grant or scholarship aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
\$1–\$13,259	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$13,260–\$17,825	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$17,826–\$21,423	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$21,424 or more	#	10	2.44	0.62	-1.82	-74.53	0.44	-2.00	-81.87
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–75	‡	‡	‡	‡	‡	‡	‡	‡	‡
76–90	‡	‡	‡	‡	‡	‡	‡	‡	‡
91–100	#	10	32.26	9.39	-22.87	-70.89	9.08	-23.18	-71.85
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–33	‡	‡	‡	‡	‡	‡	‡	‡	‡
34–36	‡	‡	‡	‡	‡	‡	‡	‡	‡
37 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	10	20	95.61	99.38	3.77	3.95	99.58	3.97	4.16

See notes at end of table.

Table M-31. Institution-level study nonresponse bias analysis for selected variables—private nonprofit less-than-4-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–11	‡	‡	‡	‡	‡	‡	‡	‡	‡
12–34	‡	‡	‡	‡	‡	‡	‡	‡	‡
35–81	‡	‡	‡	‡	‡	‡	‡	‡	‡
82 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Average amount of grant and scholarship aid received ⁵					(Effect size = ‡)			(Effect size = ‡)	
\$0–\$4,895	#	10	13.15	0.62	-12.53	-95.27	0.41	-12.74	-96.85
\$4,896–\$5,425	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$5,426–\$5,995	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$5,996 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–26	‡	‡	‡	‡	‡	‡	‡	‡	‡
27–50	#	10	19.93	3.21	-16.72	-83.92	2.21	-17.72	-88.93
51–70	‡	‡	‡	‡	‡	‡	‡	‡	‡
71 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the institution base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the institution base weight adjusted for nonresponse) and weighted full-sample mean (using the institution base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-32. Institution-level study nonresponse bias analysis for selected variables—private nonprofit 4-year, non-doctorate-granting undergraduate-enrolling institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Carnegie classification 2015: Basic					(Effect size = ‡)				(Effect size = ‡)
Associate's	‡	‡	‡	‡	‡	‡	‡	‡	‡
Research and doctoral	‡	‡	‡	‡	‡	‡	‡	‡	‡
Master's	60	30	23.25	20.39	-2.85	-12.27	17.23	-6.01	-25.86
Baccalaureate	160	50	51.79	57.01	5.22	10.09	53.30	1.51	2.92
Special focus and other	30	20	20.12	18.75	-1.37	-6.80	24.25	4.13	20.53
Unavailable or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Degree of urbanization					(Effect size = ‡)				(Effect size = ‡)
Large city	40	20	19.93	17.14	-2.79	-13.99	15.86	-4.07	-20.43
Midsize city	30	10	8.15	8.66	0.52	6.35	8.19	0.04	0.50
Small city	30	10	14.60	14.87	0.27	1.87	12.42	-2.18	-14.91
Large suburb	40	10	22.10	21.56	-0.54	-2.45	19.42	-2.67	-12.09
Midsize suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area distant from town	50	20	14.78	15.16	0.38	2.58	15.80	1.02	6.89
Urban area remote from town	20	10	7.23	8.36	1.13	15.65	6.36	-0.86	-11.94
Rural area on fringe of town	10	10	4.61	5.47	0.87	18.82	5.47	0.86	18.68
Rural area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ⁴					(Effect size = ‡)				(Effect size = ‡)
New England	30	20	8.87	7.75	-1.13	-12.70	6.87	-2.00	-22.58
Mideast	20	10	15.80	18.57	2.77	17.55	15.80	-0.01	-0.04
Great Lakes	40	20	16.03	15.41	-0.62	-3.84	22.27	6.24	38.94
Plains	50	20	13.24	13.51	0.27	2.02	14.75	1.51	11.37
Southeast	80	20	25.01	26.86	1.85	7.39	23.13	-1.88	-7.51
Southwest	10	10	4.37	3.67	-0.70	-16.07	2.95	-1.42	-32.51
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	10	10	9.68	5.20	-4.47	-46.22	5.12	-4.56	-47.14
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-32. Institution-level study nonresponse bias analysis for selected variables—private nonprofit 4-year, non-doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Historically Black College or University					(Effect size = ‡)			(Effect size = ‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡
No or unavailable or unknown	240	100	93.12	92.01	-1.12	-1.20	93.07	-0.05	-0.06
Hispanic-Serving Institution					(Effect size = ‡)			(Effect size = ‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡
No	240	100	90.50	89.04	-1.46	-1.61	89.27	-1.23	-1.35
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–3	70	30	18.04	18.71	0.67	3.74	27.80	9.76	54.12
4–7	70	30	28.63	31.39	2.76	9.64	28.54	-0.09	-0.31
8–16	60	20	26.49	23.20	-3.29	-12.41	20.51	-5.97	-22.55
17 or more	60	20	26.25	26.06	-0.19	-0.72	22.68	-3.57	-13.59
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–1	110	40	37.93	39.15	1.21	3.20	43.35	5.42	14.28
2	40	20	20.97	19.86	-1.10	-5.25	16.47	-4.49	-21.42
3–4	50	30	21.25	20.52	-0.73	-3.46	20.24	-1.01	-4.77
5 or more	50	20	19.25	19.83	0.58	3.01	19.48	0.23	1.17
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–4	80	30	29.21	29.06	-0.15	-0.52	32.68	3.47	11.87
5–7	60	30	21.95	22.22	0.27	1.22	22.04	0.09	0.40
8–11	50	30	18.50	18.01	-0.49	-2.65	18.52	0.02	0.09
12 or more	70	20	29.75	30.08	0.33	1.11	26.31	-3.44	-11.56
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁵					(Effect size = 0.12)			(Effect size = 0.07)	
1–775	60	30	29.03	23.45	-5.58	-19.23	31.38	2.35	8.09
776–1,392	70	30	27.48	29.29	1.81	6.57	24.80	-2.68	-9.76
1,393–2,068	70	20	24.71	27.26	2.55	10.30	24.61	-0.10	-0.42
2,069 or more	70	20	18.78	20.01	1.23	6.55	19.22	0.44	2.33

See notes at end of table.

Table M-32. Institution-level study nonresponse bias analysis for selected variables—private nonprofit 4-year, non-doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Total male undergraduate enrollment ⁵					(Effect size = 0.10)			(Effect size = 0.11)	
1–306	60	30	31.79	27.64	-4.15	-13.05	34.28	2.49	7.83
307–568	70	20	27.19	28.53	1.34	4.94	24.92	-2.27	-8.34
569–918	60	30	22.87	23.18	0.31	1.35	19.82	-3.05	-13.33
919 or more	70	20	18.15	20.65	2.50	13.75	20.98	2.83	15.56
Total female undergraduate enrollment ⁵					(Effect size = 0.11)			(Effect size = 0.12)	
1–413	60	30	26.64	22.37	-4.27	-16.03	31.66	5.01	18.81
414–763	60	30	28.61	28.53	-0.09	-0.30	24.91	-3.70	-12.94
764–1,186	70	20	24.18	26.20	2.02	8.36	23.05	-1.13	-4.66
1,187 or more	70	20	20.56	22.90	2.34	11.36	20.38	-0.18	-0.89
Percentage of undergraduate students receiving federal grant aid ⁵					(Effect size = 0.14)			(Effect size = 0.24)	
1–33	60	30	23.20	24.43	1.23	5.30	21.62	-1.58	-6.80
34–50	70	20	23.23	24.06	0.83	3.57	20.96	-2.27	-9.77
51–80	60	30	23.50	23.06	-0.43	-1.85	19.82	-3.68	-15.64
81 or more	60	20	22.65	24.50	1.85	8.17	32.43	9.78	43.17
None or unknown	10	10	7.42	3.94	-3.47	-46.83	5.16	-2.26	-30.43
Percentage of undergraduate students receiving state/local grant aid ⁵					(Effect size = 0.15)			(Effect size = 0.21)	
1–10	60	30	22.68	22.04	-0.64	-2.82	19.73	-2.96	-13.03
11–25	60	30	19.62	19.34	-0.28	-1.41	18.04	-1.57	-8.02
26–46	70	20	27.20	28.19	0.99	3.65	25.41	-1.79	-6.59
47 or more	70	20	23.08	26.48	3.40	14.72	31.66	8.58	37.18
None or unknown	10	10	7.42	3.94	-3.47	-46.83	5.16	-2.26	-30.43
Percentage of undergraduate students receiving institution grant aid ⁵					(Effect size = 0.15)			(Effect size = 0.19)	
1–79	60	20	29.03	29.22	0.19	0.65	37.18	8.15	28.07
80–98	70	20	22.60	25.87	3.27	14.49	21.92	-0.68	-3.02
99–100	120	50	40.95	40.96	0.01	0.03	35.74	-5.21	-12.72
None or unknown	10	10	7.42	3.94	-3.47	-46.83	5.16	-2.26	-30.43

See notes at end of table.

Table M-32. Institution-level study nonresponse bias analysis for selected variables—private nonprofit 4-year, non-doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Percentage of undergraduate students receiving student loan aid ⁵					(Effect size = 0.14)			(Effect size = 0.20)	
1–51	70	20	23.57	24.15	0.58	2.46	31.65	8.08	34.28
52–68	60	20	23.41	25.46	2.05	8.76	21.26	-2.15	-9.20
69–77	70	20	21.99	23.53	1.54	7.01	21.50	-0.49	-2.22
78 or more	50	30	23.61	22.92	-0.70	-2.95	20.44	-3.18	-13.46
None or unknown	10	10	7.42	3.94	-3.47	-46.83	5.16	-2.26	-30.43
Average net price among students receiving grant or scholarship aid ⁵					(Effect size = 0.15)			(Effect size = 0.21)	
\$1–\$17,785	60	20	26.26	28.73	2.46	9.38	34.48	8.22	31.29
\$17,786–\$22,359	60	20	19.98	19.31	-0.66	-3.32	15.35	-4.63*	-23.17
\$22,360–\$26,628	60	30	23.34	25.28	1.94	8.29	22.95	-0.40	-1.70
\$26,629 or more	70	20	22.86	22.74	-0.12	-0.52	22.06	-0.79	-3.48
None or unknown	10	10	7.56	3.94	-3.62	-47.83	5.16	-2.40	-31.73
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					(Effect size = 0.18)			(Effect size = 0.16)	
1–95	70	20	32.72	34.76	2.03	6.21	38.91	6.19	18.90
96–99	70	30	23.65	21.14	-2.50	-10.59	20.16	-3.48	-14.73
100	110	40	38.13	42.33	4.20	11.01	37.77	-0.37	-0.96
None or unknown	10	10	5.50	1.77	-3.73	-67.78	3.16	-2.34	-42.50
Number of full-time, first-time undergraduate students living on campus ⁵					(Effect size = 0.15)			(Effect size = 0.19)	
0–137	50	30	20.44	17.95	-2.49	-12.19	14.29	-6.16*	-30.11
138–233	50	20	21.18	21.82	0.64	3.03	19.15	-2.03	-9.59
234–369	60	20	19.74	23.92	4.17*	21.13	21.60	1.86	9.41
370 or more	60	20	17.15	18.97	1.82	10.61	17.93	0.77	4.51
Unknown	40	20	21.48	17.34	-4.14	-19.29	27.03	5.55	25.85

See notes at end of table.

Table M-32. Institution-level study nonresponse bias analysis for selected variables—private nonprofit 4-year, non-doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁵					(Effect size = 0.15)		(Effect size = 0.15)		
0–26	50	30	22.13	19.80	-2.33	-10.55	27.25	5.12	23.16
27–43	60	30	25.66	26.51	0.85	3.33	22.44	-3.22	-12.55
44–72	70	20	23.89	27.55	3.66	15.34	25.19	1.30	5.44
73 or more	70	20	19.63	20.81	1.17	5.98	18.89	-0.75	-3.80
Unknown	20	10	8.69	5.33	-3.36	-38.66	6.23	-2.46	-28.28
Average amount of grant and scholarship aid received ⁵					(Effect size = 0.17)		(Effect size = 0.21)		
\$0–\$11,821	60	30	28.41	29.20	0.79	2.80	36.94	8.53	30.04
\$11,822–\$19,702	60	30	21.55	22.53	0.98	4.53	18.45	-3.10	-14.37
\$19,703–\$26,070	60	20	23.32	22.72	-0.59	-2.55	19.55	-3.76	-16.14
\$26,071 or more	60	20	21.09	23.58	2.49	11.81	21.76	0.67	3.16
Unknown	10	10	5.64	1.97	-3.67	-65.07	3.30	-2.34	-41.48
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁵					(Effect size = 0.22)		(Effect size = 0.24)		
0–40	60	30	23.87	24.46	0.58	2.45	31.38	7.50	31.44
41–54	70	20	20.60	22.09	1.49	7.24	18.62	-1.98	-9.62
55–69	60	30	24.08	22.20	-1.88	-7.82	19.23	-4.85	-20.14
70 or more	60	20	23.47	28.44	4.98*	21.21	26.68	3.22	13.70
Unknown	10	10	7.99	2.82	-5.17	-64.73	4.10	-3.89	-48.71

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the institution base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the institution base weight adjusted for nonresponse) and weighted full-sample mean (using the institution base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-33. Institution-level study nonresponse bias analysis for selected variables—private nonprofit 4-year, doctorate-granting undergraduate-enrolling institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Carnegie classification 2015: Basic					(Effect size = ‡)			(Effect size = ‡)	
Associate's	‡	‡	‡	‡	‡	‡	‡	‡	‡
Research and doctoral	80	20	17.95	18.82	0.87	4.85	19.14	1.19	6.63
Master's	150	50	43.75	43.65	-0.10	-0.23	43.20	-0.56	-1.27
Baccalaureate	30	10	6.38	6.88	0.50	7.79	8.15	1.77	27.71
Special focus and other	40	20	31.75	30.65	-1.10	-3.47	29.52	-2.24	-7.04
Unavailable or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Degree of urbanization					(Effect size = ‡)			(Effect size = ‡)	
Large city	100	20	33.32	31.60	-1.72	-5.16	31.00	-2.32	-6.96
Midsize city	40	20	13.40	12.66	-0.74	-5.52	14.68	1.29	9.61
Small city	40	20	11.39	10.94	-0.44	-3.88	12.87	1.48	13.01
Large suburb	50	20	27.86	29.22	1.36	4.89	25.34	-2.51	-9.03
Midsize suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area distant from town	20	10	4.85	5.07	0.23	4.65	5.06	0.21	4.28
Urban area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ⁴					(Effect size = ‡)			(Effect size = ‡)	
New England	30	20	7.89	6.38	-1.51	-19.15	6.30	-1.59	-20.10
Mideast	50	20	18.05	18.01	-0.04	-0.21	16.94	-1.12	-6.18
Great Lakes	50	10	21.64	24.92	3.28	15.17	21.03	-0.61	-2.81
Plains	40	10	9.21	8.63	-0.58	-6.28	10.66	1.45	15.69
Southeast	70	20	18.88	19.85	0.96	5.11	22.24	3.36	17.78
Southwest	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	30	10	14.33	10.34	-4.00	-27.87	10.56	-3.78	-26.34
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-33. Institution-level study nonresponse bias analysis for selected variables—private nonprofit 4-year, doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Historically Black College or University					(Effect size = ‡)			(Effect size = ‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡
No or unavailable or unknown	280	90	97.79	97.38	-0.41	-0.42	97.34	-0.45	-0.46
Hispanic-Serving Institution					(Effect size = 0.05)			(Effect size = 0.04)	
Yes	30	10	10.20	11.76	1.56	15.35	11.29	1.10	10.76
No	260	80	89.80	88.24	-1.56	-1.74	88.71	-1.10	-1.22
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–4	80	30	24.68	24.55	-0.13	-0.52	25.02	0.34	1.37
5–7	70	10	21.95	19.10	-2.85	-12.98	20.03	-1.92	-8.76
8–12	60	20	17.76	17.59	-0.17	-0.96	20.60	2.83	15.96
13 or more	60	30	24.11	24.01	-0.10	-0.41	23.00	-1.11	-4.59
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–2	110	40	33.74	34.47	0.73	2.17	37.27	3.53	10.47
3	40	10	13.68	14.77	1.09	7.96	15.64	1.96	14.30
4–7	60	30	18.93	17.20	-1.73	-9.14	16.88	-2.05	-10.84
8 or more	70	20	22.15	18.81	-3.34	-15.06	18.86	-3.29	-14.86
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–5	70	30	27.43	21.36	-6.07	-22.14	22.14	-5.29	-19.28
6–9	60	30	17.87	16.88	-1.00	-5.57	20.05	2.17	12.16
10–14	80	20	17.22	18.35	1.14	6.61	18.75	1.54	8.92
15 or more	70	20	25.98	28.66	2.69	10.34	27.70	1.72	6.63
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁵					(Effect size = 0.02)			(Effect size = 0.03)	
1–1,448	70	20	40.13	39.92	-0.22	-0.54	39.64	-0.49	-1.23
1,449–2,936	70	20	22.96	23.29	0.33	1.43	22.14	-0.82	-3.56
2,937–5,459	70	20	19.46	19.87	0.42	2.14	20.45	0.99	5.10
5,460 or more	70	20	17.45	16.92	-0.53	-3.03	17.77	0.32	1.81

See notes at end of table.

Table M-33. Institution-level study nonresponse bias analysis for selected variables—private nonprofit 4-year, doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Total male undergraduate enrollment ⁵					(Effect size = 0.03)		(Effect size = 0.03)		
1–526	70	20	41.56	41.03	-0.53	-1.28	40.60	-0.96	-2.31
527–1,151	80	20	21.62	22.75	1.12	5.19	21.44	-0.19	-0.86
1,152–2,357	70	20	19.77	19.42	-0.35	-1.78	20.85	1.08	5.48
2,358 or more	70	20	17.05	16.81	-0.24	-1.40	17.11	0.06	0.37
Total female undergraduate enrollment ⁵					(Effect size = 0.01)		(Effect size = 0.04)		
1–889	70	20	40.26	40.31	0.05	0.12	40.12	-0.15	-0.37
890–1,777	70	20	23.24	23.19	-0.06	-0.24	21.99	-1.26	-5.41
1,778–3,054	70	20	18.92	19.37	0.45	2.39	20.25	1.33	7.04
3,055 or more	70	20	17.58	17.13	-0.44	-2.52	17.65	0.07	0.42
Percentage of undergraduate students receiving federal grant aid ⁵					(Effect size = ‡)		(Effect size = ‡)		
1–25	70	20	21.95	17.67	-4.28	-19.50	18.15	-3.81	-17.34
26–44	60	30	17.44	15.74	-1.70	-9.74	16.46	-0.98	-5.60
45–72	70	20	22.95	24.98	2.03	8.84	23.50	0.55	2.40
73 or more	70	20	21.89	22.24	0.35	1.62	23.55	1.66	7.60
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving state/local grant aid ⁵					(Effect size = ‡)		(Effect size = ‡)		
1–8	70	20	25.03	21.42	-3.61	-14.42	22.24	-2.79	-11.14
9–24	60	20	17.22	16.33	-0.89	-5.15	16.66	-0.55	-3.21
25–42	60	20	21.45	21.46	0.01	0.05	20.64	-0.81	-3.77
43 or more	70	20	20.54	21.43	0.89	4.32	22.12	1.58	7.69
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving institution grant aid ⁵					(Effect size = ‡)		(Effect size = ‡)		
1–77	70	20	22.83	18.34	-4.48	-19.64	19.83	-3.00	-13.12
78–97	70	30	25.74	26.69	0.95	3.67	24.98	-0.76	-2.95
98–99	60	20	17.05	17.09	0.04	0.25	16.38	-0.67	-3.95
100 or more	60	20	18.61	18.51	-0.10	-0.54	20.47	1.86	9.99
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-33. Institution-level study nonresponse bias analysis for selected variables—private nonprofit 4-year, doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Percentage of undergraduate students receiving student loan aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–46	70	20	22.39	18.66	-3.72	-16.63	20.14	-2.25	-10.03
47–62	70	20	20.22	20.97	0.74	3.67	19.68	-0.55	-2.70
63–72	70	20	21.21	22.29	1.08	5.09	20.99	-0.22	-1.02
73 or more	60	30	20.42	18.72	-1.70	-8.32	20.85	0.44	2.14
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Average net price among students receiving grant or scholarship aid ⁵					(Effect size = 0.06)			(Effect size = 0.10)	
\$1–\$19,342	70	20	23.77	25.82	2.05	8.61	27.57	3.79	15.96
\$19,343–\$24,386	70	20	17.81	18.61	0.80	4.47	18.10	0.29	1.60
\$24,387–\$29,981	70	20	19.91	19.34	-0.57	-2.86	19.75	-0.16	-0.81
\$29,982 or more	60	20	17.60	16.87	-0.73	-4.15	16.25	-1.35	-7.67
None or unknown	20	10	20.91	19.36	-1.54	-7.38	18.34	-2.57	-12.28
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–90	70	20	25.52	22.61	-2.91	-11.39	22.48	-3.04	-11.90
91–98	80	20	21.79	22.23	0.44	2.02	23.30	1.52	6.96
99–100	120	40	36.80	35.80	-1.00	-2.72	35.88	-0.92	-2.50
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁵					(Effect size = 0.07)			(Effect size = 0.09)	
0–194	60	20	22.34	23.36	1.02	4.57	21.43	-0.91	-4.07
195–415	70	20	17.01	18.14	1.13	6.63	19.54	2.53	14.86
416–738	70	10	17.66	18.76	1.10	6.25	19.41	1.75	9.93
739 or more	60	30	15.52	14.13	-1.39	-8.96	14.29	-1.23	-7.90
Unknown	30	10	27.47	25.61	-1.86	-6.78	25.33	-2.15	-7.82

See notes at end of table.

Table M-33. Institution-level study nonresponse bias analysis for selected variables—private nonprofit 4-year, doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁵					(Effect size = 0.04)		(Effect size = 0.07)		
0–43	70	20	22.14	22.92	0.78	3.52	22.99	0.85	3.84
44–68	70	20	19.90	20.24	0.34	1.70	21.03	1.13	5.67
69–124	70	20	19.81	19.86	0.05	0.23	20.86	1.05	5.28
125 or more	70	20	17.08	17.41	0.33	1.94	16.62	-0.46	-2.69
Unknown	20	10	21.07	19.58	-1.50	-7.10	18.51	-2.56	-12.17
Average amount of grant and scholarship aid received ⁵					(Effect size = 0.04)		(Effect size = 0.09)		
\$0–\$15,784	70	20	22.00	23.14	1.14	5.16	23.56	1.56	7.08
\$15,785–\$22,032	60	20	18.94	18.53	-0.41	-2.18	17.44	-1.49	-7.89
\$22,033–\$27,903	70	20	20.62	20.73	0.12	0.56	21.34	0.72	3.51
\$27,904 or more	70	20	17.57	18.24	0.67	3.81	19.32	1.75	9.94
Unknown	20	10	20.87	19.36	-1.51	-7.22	18.34	-2.53	-12.14
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁵					(Effect size = 0.12)		(Effect size = 0.07)		
0–50	70	20	23.48	25.16	1.69	7.19	23.57	0.09	0.40
51–62	70	20	19.06	18.33	-0.73	-3.82	19.95	0.89	4.66
63–75	60	20	19.39	18.63	-0.77	-3.95	19.31	-0.08	-0.42
76 or more	70	20	22.26	18.75	-3.51	-15.76	19.65	-2.61	-11.72
Unknown	20	10	15.81	19.12	3.32	20.98	17.51	1.71	10.80

‡ Reporting standards not met (fewer than five nonrespondents).

¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the institution base weight.

² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.

³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the institution base weight adjusted for nonresponse) and weighted full-sample mean (using the institution base weight).

⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.

⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-34. Institution-level study nonresponse bias analysis for selected variables—private for-profit less-than-2-year undergraduate-enrolling institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Degree of urbanization					(Effect size = ‡)			(Effect size = ‡)	
Large city	20	30	25.50	26.07	0.57	2.22	17.93	-7.58	-29.71
Midsized city	10	30	17.17	8.09	-9.08	-52.89	9.69	-7.48	-43.57
Small city	20	20	14.49	14.63	0.14	0.97	33.17	18.68*	128.89
Large suburb	30	40	27.55	36.74	9.19	33.35	24.95	-2.60	-9.44
Midsized suburb	10	10	4.63	5.24	0.61	13.11	5.11	0.48	10.36
Small suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area remote from town	#	10	3.07	0.84	-2.23	-72.72	0.63	-2.44	-79.56
Rural area on fringe of town	#	10	1.24	0.21	-1.04	-83.18	1.43	0.18	14.71
Rural area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bureau of Economic Analysis region*					(Effect size = ‡)			(Effect size = ‡)	
New England	20	20	3.59	4.68	1.09	30.33	6.56	2.96	82.49
Mideast	20	10	10.70	20.80	10.10	94.39	14.58	3.88	36.31
Great Lakes	10	10	15.15	21.99	6.84	45.17	15.87	0.72	4.74
Plains	#	10	4.55	1.61	-2.94	-64.56	3.03	-1.52	-33.43
Southeast	20	40	22.85	29.36	6.51	28.51	37.98	15.13	66.23
Southwest	10	10	14.58	8.19	-6.39	-43.82	7.45	-7.12	-48.87
Rocky Mountains	10	20	3.98	3.06	-0.92	-23.13	2.45	-1.53	-38.45
Far West	10	10	20.53	10.30	-10.23	-49.82	12.08	-8.45	-41.16
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡
Hispanic-Serving Institution					(Effect size = 0.04)			(Effect size = 0.26)	
Yes	30	30	40.94	39.10	-1.84	-4.49	28.23	-12.71	-31.06
No	70	110	59.06	60.90	1.84	3.11	71.77	12.71	21.53

See notes at end of table.

Table M-34. Institution-level study nonresponse bias analysis for selected variables—private for-profit less-than-2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–2	30	40	18.38	11.93	-6.45	-35.09	13.67	-4.70	-25.59
3–15	30	30	28.89	24.05	-4.84	-16.76	21.31	-7.58	-26.24
16–40	30	30	32.77	38.51	5.75	17.54	38.54	5.77	17.61
41 or more	20	40	18.89	25.51	6.62	35.06	26.48	7.59	40.20
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0	40	50	29.78	32.43	2.65	8.90	37.72	7.94	26.67
1	20	20	13.65	20.58	6.93	50.75	14.18	0.53	3.89
2–3	20	40	24.97	21.78	-3.19	-12.77	20.29	-4.68	-18.75
4 or more	20	30	30.52	25.21	-5.31	-17.40	27.81	-2.71	-8.88
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–3	20	40	17.66	24.31	6.65	37.65	26.43	8.77	49.67
4–8	30	30	16.23	10.89	-5.34	-32.89	17.47	1.24	7.62
9–24	20	30	23.24	25.03	1.78	7.67	23.08	-0.16	-0.71
25 or more	30	30	41.79	39.77	-2.01	-4.82	33.02	-8.76	-20.97
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁵					(Effect size = 0.24)			(Effect size = 0.25)	
1–97	20	40	28.20	23.15	-5.05	-17.91	32.50	4.30	15.26
98–210	20	40	32.92	32.36	-0.56	-1.71	26.01	-6.92	-21.00
211–402	30	30	20.93	17.75	-3.18	-15.19	16.08	-4.85	-23.16
403 or more	30	30	17.95	26.74	8.79	49.00	25.41	7.46	41.57
Total male undergraduate enrollment ⁵					(Effect size = 0.06)			(Effect size = 0.10)	
1–5	30	40	36.55	36.44	-0.11	-0.30	40.94	4.38	11.99
6–19	20	40	17.88	18.00	0.11	0.64	15.91	-1.97	-11.03
20–57	30	30	26.32	28.44	2.12	8.04	25.53	-0.79	-3.01
58 or more	30	30	19.24	17.12	-2.12	-11.01	17.62	-1.62	-8.41

See notes at end of table.

Table M-34. Institution-level study nonresponse bias analysis for selected variables—private for-profit less-than-2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Total female undergraduate enrollment ⁵					(Effect size = 0.35)		(Effect size = 0.43)		
1–71	20	40	27.47	22.03	-5.44	-19.82	31.34	3.87	14.09
72–171	20	40	34.35	33.25	-1.10	-3.20	26.16	-8.19	-23.85
172–300	20	40	19.53	13.07	-6.46	-33.06	9.41	-10.12	-51.80
301 or more	30	30	18.65	31.65	13.00*	69.71	33.08	14.44*	77.43
Percentage of undergraduate students receiving federal grant aid ⁵					(Effect size = 0.34)		(Effect size = 0.37)		
1–59	30	30	23.90	35.27	11.37	47.57	29.63	5.73	23.97
60–75	20	40	18.61	21.80	3.20	17.18	28.44	9.84	52.87
76–90	20	40	31.01	25.19	-5.82	-18.78	27.00	-4.01	-12.93
91 or more	20	30	23.12	13.11	-10.01	-43.30	10.73	-12.39*	-53.61
None or unknown	10	10	3.36	4.63	1.27	37.80	4.20	0.84	24.88
Percentage of undergraduate students receiving state/local grant aid ⁵					(Effect size = 0.21)		(Effect size = 0.23)		
0	50	90	74.39	69.47	-4.92	-6.61	65.38	-9.01	-12.11
1–3	20	10	6.84	11.72	4.88	71.35	11.26	4.42	64.60
4 or more	20	30	15.41	14.17	-1.23	-8.01	19.16	3.75	24.36
None or unknown	10	10	3.36	4.63	1.27	37.80	4.20	0.84	24.88
Percentage of undergraduate students receiving institution grant aid ⁵					(Effect size = 0.46)		(Effect size = 0.25)		
0	50	70	58.37	38.91	-19.46*	-33.34	48.16	-10.22	-17.50
1–18	20	30	14.37	14.13	-0.24	-1.68	13.51	-0.86	-6.01
19 or more	20	30	23.90	42.33	18.43*	77.15	34.14	10.24	42.87
None or unknown	10	10	3.36	4.63	1.27	37.80	4.20	0.84	24.88
Percentage of undergraduate students receiving student loan aid ⁵					(Effect size = 0.42)		(Effect size = 0.56)		
1–62	20	40	30.72	19.42	-11.30	-36.78	17.31	-13.41	-43.64
63–74	30	20	17.21	30.95	13.74*	79.87	36.60	19.39*	112.69
75–86	30	30	28.88	31.43	2.55	8.84	30.35	1.47	5.08
87 or more	10	40	19.84	13.57	-6.27	-31.61	11.55	-8.29	-41.79
None or unknown	10	10	3.36	4.63	1.27	37.80	4.20	0.84	24.88

See notes at end of table.

Table M-34. Institution-level study nonresponse bias analysis for selected variables—private for-profit less-than-2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Average net price among students receiving grant or scholarship aid ⁵					(Effect size = 0.60)		(Effect size = 0.34)		
\$1–\$13,568	20	30	28.93	10.71	-18.22*	-62.98	23.18	-5.74	-19.86
\$13,569–\$16,625	20	40	24.87	15.93	-8.94	-35.94	14.34	-10.53	-42.34
\$16,626–\$20,274	20	30	23.56	44.99	21.43*	90.97	29.86	6.30	26.75
\$20,275 or more	30	30	19.20	23.74	4.54	23.64	28.42	9.22	48.01
None or unknown	10	10	3.44	4.63	1.19	34.54	4.20	0.76	21.93
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					(Effect size = 0.32)		(Effect size = 0.20)		
1–62	30	30	17.73	15.98	-1.76	-9.90	19.07	1.34	7.56
63–72	20	40	19.20	11.46	-7.73	-40.28	14.20	-4.99	-26.01
73–85	30	30	28.06	24.55	-3.51	-12.50	23.81	-4.25	-15.15
86 or more	20	40	33.35	47.38	14.03	42.05	41.24	7.89	23.64
None or unknown	#	10	1.66	0.63	-1.03	-62.12	1.68	0.02	1.13
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁵					(Effect size = 0.31)		(Effect size = 0.36)		
0–12	20	40	37.77	24.88	-12.89	-34.12	25.02	-12.75	-33.77
13–24	20	30	23.29	23.29	0.01	0.02	23.63	0.34	1.46
25–54	20	30	17.17	19.65	2.48	14.47	16.46	-0.71	-4.12
55 or more	30	20	18.33	27.54	9.21	50.24	30.70	12.37	67.47
Unknown	10	10	3.44	4.63	1.19	34.54	4.20	0.76	21.93
Average amount of grant and scholarship aid received ⁵					(Effect size = 0.24)		(Effect size = 0.44)		
\$0–\$4,175	30	30	21.93	19.80	-2.13	-9.73	22.78	0.85	3.88
\$4,176–\$4,843	30	30	17.61	18.09	0.48	2.74	25.53	7.92	45.00
\$4,844–\$5,437	20	40	22.20	31.20	9.00	40.53	32.86	10.66	48.00
\$5,438 or more	20	40	36.44	30.29	-6.15	-16.89	17.15	-19.29*	-52.93
Unknown	#	10	1.82	0.63	-1.19	-65.51	1.68	-0.14	-7.92

See notes at end of table.

Table M-34. Institution-level study nonresponse bias analysis for selected variables—private for-profit less-than-2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁵					(Effect size = 0.48)		(Effect size = 0.45)		
0–59	30	30	22.09	32.28	10.19	46.13	36.59	14.50	65.64
60–70	20	30	23.95	37.59	13.64	56.92	31.29	7.33	30.61
71–79	20	40	30.61	17.50	-13.11	-42.83	17.12	-13.50	-44.09
80 or more	20	30	20.39	11.79	-8.60	-42.17	13.22	-7.17	-35.16
Unknown	#	10	2.95	0.84	-2.12	-71.64	1.79	-1.17	-39.51

Rounds to zero.

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the institution base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the institution base weight adjusted for nonresponse) and weighted full-sample mean (using the institution base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-35. Institution-level study nonresponse bias analysis for selected variables—private for-profit 2-year undergraduate-enrolling institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Carnegie classification 2015: Basic					(Effect size = ‡)			(Effect size = ‡)	
Associate's	40	40	70.09	77.32	7.23	10.32	76.15	6.06	8.65
Research and doctoral	‡	‡	‡	‡	‡	‡	‡	‡	‡
Master's	‡	‡	‡	‡	‡	‡	‡	‡	‡
Baccalaureate	‡	‡	‡	‡	‡	‡	‡	‡	‡
Special focus and other	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unavailable or unknown	30	30	29.70	22.26	-7.44	-25.06	23.64	-6.07	-20.43
Degree of urbanization					(Effect size = ‡)			(Effect size = ‡)	
Large city	30	20	21.87	16.41	-5.47	-24.99	12.31	-9.57	-43.74
Midsized city	10	10	5.01	6.74	1.73	34.47	4.35	-0.67	-13.27
Small city	10	10	7.56	6.04	-1.52	-20.11	11.47	3.90	51.60
Large suburb	20	20	40.84	52.96	12.11	29.65	58.25	17.40	42.60
Midsized suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area remote from town	#	10	6.41	0.37	-6.04	-94.21	0.18	-6.23	-97.18
Rural area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ⁴					(Effect size = ‡)			(Effect size = ‡)	
New England	‡	‡	‡	‡	‡	‡	‡	‡	‡
Mideast	‡	‡	‡	‡	‡	‡	‡	‡	‡
Great Lakes	‡	‡	‡	‡	‡	‡	‡	‡	‡
Plains	10	10	8.70	5.91	-2.79	-32.09	3.25	-5.46	-62.67
Southeast	20	10	29.77	42.60	12.83	43.09	59.15	29.38*	98.68
Southwest	10	10	10.97	7.40	-3.57	-32.56	5.21	-5.75	-52.47
Rocky Mountains	10	10	4.87	3.34	-1.53	-31.39	2.57	-2.30	-47.21
Far West	10	20	15.20	11.60	-3.60	-23.71	12.69	-2.51	-16.49
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-35. Institution-level study nonresponse bias analysis for selected variables—private for-profit 2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Hispanic-Serving Institution					(Effect size = 0.12)			(Effect size = 0.29)	
Yes	20	20	28.85	23.32	-5.53	-19.16	15.54	-13.31	-46.13
No	50	50	71.15	76.68	5.53	7.77	84.46	13.31	18.71
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁵					(Effect size = 0.36)			(Effect size = 0.41)	
0–3	20	20	22.32	11.09	-11.22	-50.29	8.38	-13.94	-62.45
4–11	10	20	19.00	26.98	7.98	42.02	23.26	4.26	22.44
12–27	20	20	39.77	43.12	3.35	8.42	53.02	13.25	33.30
28 or more	20	10	15.01	18.43	3.42	22.79	14.83	-0.17	-1.15
Unknown	#	10	3.90	0.37	-3.53	-90.49	0.50	-3.40	-87.16
Percentage of undergraduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁵					(Effect size = 0.43)			(Effect size = 0.48)	
0–1	40	20	41.41	49.85	8.44	20.38	33.81	-7.60	-18.34
2	10	10	12.34	4.29	-8.05	-65.26	2.46	-9.88*	-80.07
3–4	10	10	14.53	24.62	10.09	69.46	20.58	6.05	41.65
5 or more	10	20	27.83	20.88	-6.95	-24.98	42.65	14.82	53.27
Unknown	#	10	3.90	0.37	-3.53	-90.49	0.50	-3.40	-87.16
Percentage of undergraduate students enrolled: Hispanic ⁵					(Effect size = 0.30)			(Effect size = 0.50)	
0–5	20	20	31.83	41.62	9.79	30.75	52.93	21.09	66.25
6–15	20	10	25.00	25.77	0.77	3.07	24.69	-0.31	-1.25
16–31	20	20	17.46	10.90	-6.56	-37.59	7.91	-9.55	-54.72
32 or more	10	20	21.81	21.34	-0.47	-2.14	13.98	-7.83	-35.89
Unknown	#	10	3.90	0.37	-3.53	-90.49	0.50	-3.40	-87.16
Total undergraduate enrollment ⁵					(Effect size = 0.13)			(Effect size = 0.32)	
1–208	20	20	35.88	35.84	-0.04	-0.10	51.03	15.15	42.24
209–609	20	20	27.32	27.75	0.43	1.56	22.78	-4.54	-16.63
610–1,087	20	10	23.89	27.29	3.40	14.24	18.05	-5.84	-24.44
1,088 or more	10	20	12.91	9.12	-3.79	-29.37	8.14	-4.77	-36.98

See notes at end of table.

Table M-35. Institution-level study nonresponse bias analysis for selected variables—private for-profit 2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Total male undergraduate enrollment ⁵					(Effect size = 0.26)		(Effect size = 0.61)		
1–21	10	20	18.42	16.48	-1.94	-10.55	41.21	22.79	123.68
22–93	20	10	26.45	36.94	10.48	39.63	24.22	-2.24	-8.46
94–309	20	20	29.62	21.59	-8.04	-27.13	13.64	-15.98*	-53.94
310 or more	20	20	25.50	25.00	-0.50	-1.97	20.93	-4.57	-17.92
Total female undergraduate enrollment ⁵					(Effect size = 0.09)		(Effect size = 0.34)		
1–111	20	20	28.61	25.26	-3.34	-11.69	24.21	-4.40	-15.37
112–272	20	20	35.17	38.25	3.08	8.75	50.75	15.58	44.30
273–663	20	10	22.48	21.61	-0.87	-3.85	13.51	-8.97	-39.90
664 or more	20	20	13.74	14.87	1.13	8.25	11.52	-2.22	-16.13
Percentage of undergraduate students receiving federal grant aid ⁵					(Effect size = 0.47)		(Effect size = 0.84)		
1–67	20	20	17.92	25.39	7.47	41.68	24.46	6.54	36.50
68–76	10	20	31.02	18.14	-12.88	-41.52	13.28	-17.74*	-57.18
77–90	20	20	20.21	10.65	-9.56	-47.29	10.10	-10.11	-50.02
91 or more	20	10	21.86	36.17	14.30	65.42	21.35	-0.51	-2.33
None or unknown	#	10	8.99	9.65	0.67	7.43	30.80	21.82	242.78
Percentage of undergraduate students receiving state/local grant aid ⁵					(Effect size = 0.29)		(Effect size = 0.81)		
0	30	30	30.28	26.25	-4.03	-13.31	26.97	-3.31	-10.92
1–2	10	10	12.01	21.09	9.08	75.60	16.56	4.55	37.89
3–10	10	10	15.83	14.72	-1.12	-7.06	9.50	-6.33	-40.01
11 or more	20	10	32.90	28.30	-4.60	-13.98	16.17	-16.72*	-50.84
None or unknown	#	10	8.99	9.65	0.67	7.43	30.80	21.82	242.78
Percentage of undergraduate students receiving institution grant aid ⁵					(Effect size = 0.43)		(Effect size = 0.80)		
0	40	20	31.42	20.77	-10.65	-33.89	21.86	-9.55	-30.41
1	#	10	10.08	16.07	5.99	59.43	12.78	2.70	26.76
2–23	10	20	25.63	39.38	13.75	53.65	24.15	-1.48	-5.79
24 or more	20	20	23.89	14.12	-9.76	-40.87	10.41	-13.48*	-56.42
None or unknown	#	10	8.99	9.65	0.67	7.43	30.80	21.82	242.78

See notes at end of table.

Table M-35. Institution-level study nonresponse bias analysis for selected variables—private for-profit 2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Percentage of undergraduate students receiving student loan aid ⁵					(Effect size = 0.17)		(Effect size = 0.77)		
1–67	20	20	37.78	44.71	6.94	18.36	33.61	-4.17	-11.04
68–76	20	20	15.07	11.20	-3.87	-25.71	8.21	-6.86	-45.50
77–84	20	20	25.66	24.20	-1.46	-5.68	17.85	-7.80	-30.42
85 or more	20	10	12.51	10.24	-2.27	-18.17	9.53	-2.99	-23.86
None or unknown	#	10	8.99	9.65	0.67	7.43	30.80	21.82	242.78
Average net price among students receiving grant or scholarship aid ⁵					(Effect size = 0.28)		(Effect size = 0.79)		
\$1–\$14,767	10	20	21.86	23.86	2.00	9.15	17.03	-4.82	-22.07
\$14,768–\$20,156	10	20	12.34	7.72	-4.61	-37.40	10.60	-1.73	-14.04
\$20,157–\$22,972	20	20	25.33	17.00	-8.33	-32.90	10.69	-14.65*	-57.82
\$22,973 or more	30	10	31.30	41.40	10.09	32.24	30.70	-0.60	-1.93
None or unknown	#	10	9.17	10.02	0.85	9.31	30.98	21.81	237.81
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					(Effect size = 0.35)		(Effect size = 0.83)		
1–59	20	20	21.49	25.52	4.03	18.76	24.01	2.53	11.76
60–73	20	20	20.30	17.68	-2.62	-12.91	14.13	-6.18	-30.42
74–85	20	20	28.64	15.66	-12.97	-45.30	10.19	-18.45*	-64.43
86 or more	20	10	20.88	31.49	10.61	50.83	21.20	0.32	1.55
None or unknown	#	10	8.70	9.65	0.95	10.94	30.48	21.78	250.29
Number of full-time, first-time undergraduate students living on campus ⁵					(Effect size = ‡)		(Effect size = ‡)		
0	‡	‡	‡	‡	‡	‡	‡	‡	‡
1–8	‡	‡	‡	‡	‡	‡	‡	‡	‡
9–59	‡	‡	‡	‡	‡	‡	‡	‡	‡
60 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	70	70	87.76	83.14	-4.62	-5.26	86.54	-1.22	-1.39

See notes at end of table.

Table M-35. Institution-level study nonresponse bias analysis for selected variables—private for-profit 2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁵					(Effect size = 0.24)		(Effect size = 0.77)		
0–16	20	20	36.87	42.18	5.31	14.41	33.18	-3.69	-10.01
17–55	20	10	17.26	19.28	2.03	11.75	11.90	-5.35	-31.03
56–97	20	20	18.81	9.32	-9.49	-50.45	8.48	-10.33	-54.92
98 or more	20	20	17.89	19.19	1.30	7.24	15.46	-2.43	-13.59
Unknown	#	10	9.17	10.02	0.85	9.31	30.98	21.81	237.81
Average amount of grant and scholarship aid received ⁵					(Effect size = 0.11)		(Effect size = 0.76)		
\$0–\$4,149	20	20	25.27	24.44	-0.83	-3.28	21.58	-3.68	-14.58
\$4,150–\$4,779	20	20	20.34	22.75	2.41	11.83	15.22	-5.13	-25.20
\$4,780–\$5,500	20	10	10.27	12.07	1.79	17.45	12.64	2.37	23.04
\$5,501 or more	20	20	34.84	30.72	-4.12	-11.81	19.91	-14.93	-42.86
Unknown	#	10	9.28	10.02	0.75	8.03	30.66	21.38	230.38
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁵					(Effect size = 0.16)		(Effect size = 0.81)		
0–56	20	10	17.22	16.26	-0.96	-5.58	15.37	-1.85	-10.74
57–66	20	20	21.59	26.93	5.33	24.69	23.43	1.83	8.49
67–75	20	20	18.46	13.72	-4.74	-25.66	11.96	-6.49	-35.18
76 or more	20	20	34.22	33.82	-0.40	-1.17	18.94	-15.28	-44.64
Unknown	#	10	8.52	9.28	0.77	8.99	30.30	21.78	255.80

Rounds to zero.

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the institution base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the institution base weight adjusted for nonresponse) and weighted full-sample mean (using the institution base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-36. Institution-level study nonresponse bias analysis for selected variables—private for-profit 4-year undergraduate-enrolling institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Carnegie classification 2015: Basic					(Effect size = ‡)			(Effect size = ‡)	
Associate's	‡	‡	‡	‡	‡	‡	‡	‡	‡
Research and doctoral	‡	‡	‡	‡	‡	‡	‡	‡	‡
Master's	10	10	12.24	10.28	-1.96	-16.02	19.36	7.12	58.15
Baccalaureate	#	20	15.83	2.80	-13.03*	-82.30	2.59	-13.24*	-83.62
Special focus and other	20	20	41.33	49.11	7.77	18.80	41.31	-0.02	-0.05
Unavailable or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Degree of urbanization					(Effect size = ‡)			(Effect size = ‡)	
Large city	20	20	50.12	55.44	5.31	10.60	45.03	-5.09	-10.16
Midsize city	10	10	19.13	10.00	-9.13	-47.73	18.67	-0.46	-2.38
Small city	#	10	5.62	3.79	-1.83	-32.61	2.94	-2.68	-47.64
Large suburb	20	10	20.56	28.47	7.91	38.48	31.30	10.74	52.22
Midsize suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ⁴					(Effect size = ‡)			(Effect size = ‡)	
New England	‡	‡	‡	‡	‡	‡	‡	‡	‡
Mideast	‡	‡	‡	‡	‡	‡	‡	‡	‡
Great Lakes	‡	‡	‡	‡	‡	‡	‡	‡	‡
Plains	#	10	5.52	3.67	-1.85	-33.48	2.60	-2.92*	-52.94
Southeast	10	20	23.57	13.21	-10.36*	-43.96	16.24	-7.34	-31.12
Southwest	10	10	16.13	5.08	-11.05	-68.53	4.74	-11.39	-70.64
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	10	10	15.23	20.97	5.73	37.64	19.42	4.18	27.46
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-36. Institution-level study nonresponse bias analysis for selected variables—private for-profit 4-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Hispanic-Serving Institution					(Effect size = 0.01)			(Effect size = 0.10)	
Yes	10	10	26.60	25.96	-0.64	-2.40	22.08	-4.51	-16.97
No	50	50	73.40	74.04	0.64	0.87	77.92	4.51	6.15
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–7	20	10	19.97	26.22	6.25	31.28	21.91	1.94	9.72
8–17	20	10	32.15	30.83	-1.31	-4.09	43.50	11.35	35.31
18–36	10	10	27.33	22.50	-4.83	-17.66	18.54	-8.79	-32.17
37 or more	10	20	15.90	13.55	-2.35	-14.78	11.12	-4.77	-30.03
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–1	20	20	33.13	19.42	-13.71*	-41.37	24.50	-8.63	-26.05
2	10	10	15.30	12.80	-2.50	-16.34	10.56	-4.75	-31.03
3–4	10	20	10.24	6.27	-3.97*	-38.74	16.32	6.09	59.46
5 or more	20	10	36.67	54.60	17.93*	48.89	43.69	7.02	19.14
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–4	10	20	13.66	8.96	-4.70	-34.43	13.04	-0.62	-4.54
5–8	10	10	18.39	16.84	-1.55	-8.44	22.61	4.22	22.97
9–17	20	10	25.63	32.57	6.93	27.05	30.77	5.14	20.04
18 or more	20	10	37.66	34.73	-2.92	-7.76	28.64	-9.01	-23.94
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁵					(Effect size = 0.25)			(Effect size = 0.35)	
1–597	20	10	35.56	46.09	10.52	29.59	49.97	14.41	40.52
598–1,291	10	20	30.34	23.32	-7.02	-23.15	16.93	-13.41*	-44.19
1,292–4,377	20	10	23.45	23.69	0.24	1.02	25.17	1.72	7.33
4,378 or more	10	20	10.65	6.91	-3.74*	-35.09	7.92	-2.72	-25.56

See notes at end of table.

Table M-36. Institution-level study nonresponse bias analysis for selected variables—private for-profit 4-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Total male undergraduate enrollment ⁵					(Effect size = 0.32)		(Effect size = 0.33)		
1–108	20	10	40.60	53.91	13.30*	32.76	48.44	7.83	19.29
109–328	10	20	24.88	13.47	-11.40	-45.84	11.96	-12.92*	-51.93
329–1,083	20	10	22.07	22.33	0.26	1.19	28.96	6.90	31.26
1,084 or more	10	20	12.45	10.29	-2.16	-17.36	10.64	-1.81	-14.53
Total female undergraduate enrollment ⁵					(Effect size = 0.16)		(Effect size = 0.22)		
1–344	20	10	40.22	45.51	5.29	13.16	48.37	8.15	20.27
345–948	10	20	31.29	27.70	-3.59	-11.47	22.99	-8.30	-26.52
949–3,395	20	10	17.85	19.88	2.03	11.40	20.71	2.87	16.07
3,396 or more	10	20	10.65	6.91	-3.74*	-35.09	7.92	-2.72	-25.56
Percentage of undergraduate students receiving federal grant aid ⁵					(Effect size = 0.12)		(Effect size = 0.30)		
1–59	10	20	33.55	31.33	-2.22	-6.60	34.15	0.60	1.79
60–75	10	10	15.63	17.69	2.06	13.18	14.70	-0.94	-5.99
76–85	10	10	15.33	12.00	-3.33	-21.74	10.49	-4.83	-31.53
86 or more	20	10	24.42	26.40	1.98	8.10	21.01	-3.41	-13.97
None or unknown	10	10	11.07	12.58	1.51	13.64	19.65	8.58	77.53
Percentage of undergraduate students receiving state/local grant aid ⁵					(Effect size = 0.14)		(Effect size = 0.36)		
0	30	30	52.79	52.02	-0.77	-1.45	45.67	-7.12	-13.48
1–11	10	10	13.74	17.25	3.51	25.53	19.80	6.06	44.07
12 or more	10	10	22.40	18.15	-4.25	-18.98	14.88	-7.52	-33.58
None or unknown	10	10	11.07	12.58	1.51	13.64	19.65	8.58	77.53
Percentage of undergraduate students receiving institution grant aid ⁵					(Effect size = 0.29)		(Effect size = 0.41)		
0	20	10	28.24	38.99	10.74	38.04	38.79	10.55	37.35
1–16	10	10	15.92	11.90	-4.02	-25.27	9.14	-6.78	-42.59
17–60	10	10	26.32	25.38	-0.93	-3.55	18.81	-7.51	-28.53
61 or more	10	10	18.45	11.16	-7.30	-39.53	13.61	-4.84	-26.25
None or unknown	10	10	11.07	12.58	1.51	13.64	19.65	8.58	77.53

See notes at end of table.

Table M-36. Institution-level study nonresponse bias analysis for selected variables—private for-profit 4-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Percentage of undergraduate students receiving student loan aid ⁵					(Effect size = 0.09)		(Effect size = 0.31)		
1–60	10	20	33.72	31.71	-2.02	-5.98	28.50	-5.23	-15.50
61–72	10	10	13.94	14.62	0.68	4.89	17.69	3.74	26.86
73–85	10	10	16.50	14.18	-2.32	-14.04	12.37	-4.13	-25.03
86 or more	20	10	24.77	26.91	2.14	8.64	21.80	-2.97	-11.98
None or unknown	10	10	11.07	12.58	1.51	13.64	19.65	8.58	77.53
Average net price among students receiving grant or scholarship aid ⁵					(Effect size = 0.28)		(Effect size = 0.42)		
\$1–\$17,192	20	10	10.23	11.67	1.44	14.03	11.30	1.07	10.46
\$17,193–\$21,638	10	10	17.23	16.04	-1.19	-6.91	17.72	0.49	2.87
\$21,639–\$26,336	10	10	28.80	17.29	-11.50	-39.95	14.41	-14.39*	-49.97
\$26,337 or more	10	10	26.24	33.82	7.58	28.90	25.63	-0.61	-2.32
None or unknown	10	10	17.51	21.18	3.68	20.99	30.94	13.43	76.74
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					(Effect size = 0.41)		(Effect size = 0.44)		
1–67	20	10	37.15	52.68	15.53*	41.81	47.28	10.13	27.26
68–83	10	10	19.14	10.94	-8.21	-42.87	13.68	-5.46	-28.52
84–93	10	10	17.54	7.00	-10.55*	-60.11	7.01	-10.53	-60.02
94 or more	10	10	15.81	16.23	0.42	2.66	12.66	-3.15	-19.91
None or unknown	10	10	10.35	13.15	2.80	27.08	19.36	9.01	87.06
Number of full-time, first-time undergraduate students living on campus ⁵					(Effect size = ‡)		(Effect size = ‡)		
0–37	‡	‡	‡	‡	‡	‡	‡	‡	‡
38–98	‡	‡	‡	‡	‡	‡	‡	‡	‡
99–128	‡	‡	‡	‡	‡	‡	‡	‡	‡
129 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	50	50	96.04	96.54	0.51	0.53	97.15	1.11	1.15

See notes at end of table.

Table M-36. Institution-level study nonresponse bias analysis for selected variables—private for-profit 4-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁵					(Effect size = 0.32)		(Effect size = 0.47)		
0–7	10	10	30.68	40.50	9.82	32.00	30.49	-0.20	-0.64
8–34	10	10	11.32	11.36	0.04	0.38	14.79	3.47	30.70
35–115	10	10	31.63	17.58	-14.05*	-44.41	14.31	-17.31*	-54.74
116 or more	10	10	9.23	9.38	0.15	1.63	9.47	0.24	2.63
Unknown	10	10	17.15	21.18	4.03	23.52	30.94	13.79	80.43
Average amount of grant and scholarship aid received ⁵					(Effect size = 0.18)		(Effect size = 0.34)		
\$0–\$4,701	10	10	35.76	41.71	5.96	16.66	31.09	-4.67	-13.05
\$4,702–\$5,827	10	10	10.90	8.46	-2.45	-22.43	12.92	2.02	18.53
\$5,828–\$7,126	10	10	24.27	19.56	-4.71	-19.40	20.00	-4.26	-17.57
\$7,127 or more	10	10	16.93	15.39	-1.54	-9.10	13.45	-3.48	-20.57
Unknown	10	10	12.15	14.88	2.74	22.53	22.54	10.39	85.55
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁵					(Effect size = 0.32)		(Effect size = 0.18)		
0–19	20	10	12.12	12.63	0.51	4.18	12.82	0.70	5.78
20–33	10	20	28.75	14.73	-14.02*	-48.77	21.81	-6.94	-24.13
34–49	10	10	25.94	30.06	4.13	15.91	26.19	0.25	0.97
50 or more	10	10	22.92	29.55	6.63	28.94	28.59	5.68	24.78
Unknown	10	10	10.28	13.03	2.76	26.84	10.58	0.31	3.00

Rounds to zero.

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the institution base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the institution base weight adjusted for nonresponse) and weighted full-sample mean (using the institution base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-37. Institution-level study analysis after poststratification for selected variables—all undergraduate-enrolling institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Control and level of institution					
Public less-than-2-year	6.05	4.98	5.92	0.13	-0.94
Public 2-year	18.04	16.78	17.97	0.07	-1.19
Public 4-year, non-doctorate-granting, primarily subbaccalaureate	3.05	2.97	3.03	0.02	-0.06
Public 4-year, non-doctorate-granting, primarily baccalaureate	3.71	3.97	3.70	0.01	0.27
Public 4-year, doctorate-granting	6.66	6.62	6.64	0.02	-0.02
Private nonprofit less-than-4-year	4.31	4.87	4.36	-0.05	0.51
Private nonprofit 4-year, non-doctorate-granting	13.02	12.59	12.96	0.06	-0.37
Private nonprofit 4-year, doctorate-granting	10.99	10.71	10.99	#	-0.28
Private for-profit less-than-2-year	19.29	21.88	19.62	-0.33*	2.26
Private for-profit 2-year	10.05	9.65	9.92	0.13	-0.27
Private for-profit 4-year	4.82	4.96	4.88	-0.06	0.08
State, control, and level of institution					
Alabama					
Public 2-year	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡
Other	0.70	0.88	0.70	#	0.18
Alaska					
Public 2-year	†	†	†	†	†
Public 4-year	‡	‡	‡	‡	‡
Other	‡	‡	‡	‡	‡
Arizona					
Public 2-year	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡
Other	0.77	1.68	0.75	0.02*	0.93
Arkansas					
Public 2-year	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡
Other	1.92	0.90	1.94	-0.02	-1.04
California					
Public 2-year	2.08	1.87	2.00	0.08*	-0.13
Public 4-year	0.81	0.84	0.81	#	0.03
Other	3.42	7.60	3.58	-0.16*	4.02
Colorado					
Public 2-year	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡
Other	1.52	0.78	1.54	-0.02*	-0.76
Connecticut					
Public 2-year	‡	‡	‡	‡	‡
Public 4-year	0.21	0.18	0.21	#	-0.03
Other	0.59	0.71	0.60	-0.01*	0.11
Delaware					
Public 2-year	†	†	†	†	†
Public 4-year	‡	‡	‡	‡	‡
Other	0.16	0.25	0.16	#*	0.09

See notes at end of table.

Table M-37. Institution-level study analysis after poststratification for selected variables—all undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
District of Columbia					
Public 2-year	†	†	†	†	†
Public 4-year	‡	‡	‡	‡	‡
Other	0.28	0.27	0.28	#	-0.01
Florida					
Public 2-year	0.54	0.59	0.52	0.02*	0.07
Public 4-year	0.70	0.75	0.70	#	0.05
Other	3.21	2.60	3.21	#	-0.61
Georgia					
Public 2-year	0.47	0.41	0.55	-0.08*	-0.14
Public 4-year	‡	‡	‡	‡	‡
Other	1.08	1.18	1.05	0.03*	0.13
Hawaii					
Public 2-year	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡
Other	0.66	0.20	0.64	0.02	-0.44
Idaho					
Public 2-year	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡
Other	0.37	0.52	0.37	#	0.15*
Illinois					
Public 2-year	0.88	0.85	0.88	#	-0.03
Public 4-year	‡	‡	‡	‡	‡
Other	3.51	3.57	3.49	0.02	0.08
Indiana					
Public 2-year	‡	‡	‡	‡	‡
Public 4-year	0.23	0.27	0.23	#	0.04
Other	1.07	1.16	1.07	#	0.09
Iowa					
Public 2-year	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡
Other	0.75	0.92	0.74	0.01*	0.18
Kansas					
Public 2-year	0.91	0.45	0.91	#	-0.46
Public 4-year	‡	‡	‡	‡	‡
Other	0.61	0.76	0.60	0.01*	0.16
Kentucky					
Public 2-year	0.35	0.28	0.34	0.01	-0.06
Public 4-year	‡	‡	‡	‡	‡
Other	0.83	1.05	0.83	#	0.22
Louisiana					
Public 2-year	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡
Other	1.51	1.33	1.54	-0.03*	-0.21
Maine					
Public 2-year	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡
Other	‡	‡	‡	‡	‡

See notes at end of table.

Table M-37. Institution-level study analysis after poststratification for selected variables—all undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Maryland					
Public 2-year	0.31	0.28	0.31	#	-0.03
Public 4-year	‡	‡	‡	‡	‡
Other	0.81	0.85	0.82	-0.01	0.03
Massachusetts					
Public 2-year	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡
Other	3.54	3.30	3.32	0.22	-0.02
Michigan					
Public 2-year	0.76	0.43	0.75	0.01	-0.32
Public 4-year	‡	‡	‡	‡	‡
Other	1.68	1.36	1.89	-0.21	-0.53
Minnesota					
Public 2-year	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡
Other	0.97	0.70	0.98	-0.01	-0.28
Mississippi					
Public 2-year	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡
Other	1.20	0.50	1.20	#	-0.70
Missouri					
Public 2-year	0.23	0.30	0.23	#	0.07
Public 4-year	‡	‡	‡	‡	‡
Other	0.95	1.52	0.95	#	0.57
Montana					
Public 2-year	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡
Other	0.22	0.21	0.22	#	-0.01
Nebraska					
Public 2-year	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡
Other	0.38	0.48	0.37	0.01*	0.11*
Nevada					
Public 2-year	†	†	†	†	†
Public 4-year	‡	‡	‡	‡	‡
Other	0.59	0.52	0.54	0.05*	-0.02
New Hampshire					
Public 2-year	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡
Other	0.18	0.41	0.18	#	0.23*
New Jersey					
Public 2-year	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡
Other	1.85	1.81	1.69	0.16*	0.12
New Mexico					
Public 2-year	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡
Other	0.27	0.28	0.27	#*	0.01

See notes at end of table.

Table M-37. Institution-level study analysis after poststratification for selected variables—all undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
New York					
Public 2-year	0.58	0.66	0.58	#	0.08
Public 4-year	‡	‡	‡	‡	‡
Other	2.95	2.93	3.09	-0.14*	-0.16
North Carolina					
Public 2-year	1.01	1.03	1.01	#	0.02
Public 4-year	‡	‡	‡	‡	‡
Other	1.15	1.18	1.14	0.01*	0.04
North Dakota					
Public 2-year	‡	‡	‡	‡	‡
Public 4-year	0.26	0.16	0.26	#	-0.10
Other	0.13	0.25	0.13	#	0.12
Ohio					
Public 2-year	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡
Other	4.51	3.88	4.47	0.04	-0.59
Oklahoma					
Public 2-year	0.35	0.39	0.35	#	0.04
Public 4-year	‡	‡	‡	‡	‡
Other	0.96	1.30	0.93	0.03*	0.37
Oregon					
Public 2-year	0.31	0.30	0.31	#	-0.01
Public 4-year	‡	‡	‡	‡	‡
Other	1.05	0.74	1.04	0.01	-0.30
Pennsylvania					
Public 2-year	0.24	0.32	0.24	#	0.08
Public 4-year	‡	‡	‡	‡	‡
Other	5.16	5.00	5.42	-0.26*	-0.42
Puerto Rico					
Public 2-year	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡
Other	1.28	1.78	1.15	0.13*	0.63
Rhode Island					
Public 2-year	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡
Other	0.91	0.30	0.92	-0.01	-0.62
South Carolina					
Public 2-year	0.55	0.34	0.55	#	-0.21
Public 4-year	‡	‡	‡	‡	‡
Other	‡	‡	‡	‡	‡
South Dakota					
Public 2-year	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡
Other	0.52	0.21	0.52	#	-0.31
Tennessee					
Public 2-year	0.67	0.69	0.66	0.01	0.03
Public 4-year	‡	‡	‡	‡	‡
Other	2.34	1.57	2.41	-0.07	-0.84

See notes at end of table.

Table M-37. Institution-level study analysis after poststratification for selected variables—all undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Texas					
Public 2-year	1.30	1.00	1.29	0.01	-0.29
Public 4-year	0.98	0.89	0.98	#	-0.09
Other	2.14	3.82	2.26	-0.12*	1.56
Utah					
Public 2-year	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡
Other	0.46	0.95	0.54	-0.08*	0.41
Vermont					
Public 2-year	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡
Other	0.16	0.23	0.16	#	0.07
Virginia					
Public 2-year	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡
Other	4.52	2.99	4.34	0.18	-1.35
Washington					
Public 2-year	‡	‡	‡	‡	‡
Public 4-year	0.56	0.66	0.56	#	0.10
Other	0.71	0.85	0.71	#*	0.14
West Virginia					
Public 2-year	0.25	0.21	0.24	0.01	-0.03
Public 4-year	‡	‡	‡	‡	‡
Other	0.50	0.80	0.49	0.01	0.31
Wisconsin					
Public 2-year	0.28	0.28	0.28	#	#
Public 4-year	0.26	0.27	0.26	#	0.01
Other	1.58	0.83	1.47	0.11	-0.64
Wyoming					
Public 2-year	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡
Other	‡	‡	‡	‡	‡
Carnegie classification 2015: Basic					
Associate's	27.53	26.96	27.35	0.18	-0.39
Research and doctoral	5.95	5.49	5.94	0.01	-0.45
Master's	12.55	12.99	12.59	-0.04	0.40
Baccalaureate	10.25	10.27	10.26	-0.01	0.01
Special focus and other	9.76	9.00	9.74	0.02	-0.74
Unavailable or unknown	33.95	35.28	34.12	-0.17	1.16

See notes at end of table.

Table M-37. Institution-level study analysis after poststratification for selected variables—all undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Degree of urbanization					
Large city	20.00	24.78	20.24	-0.24	4.54*
Midsized city	8.96	10.97	8.95	0.01	2.02
Small city	17.19	11.90	17.36	-0.17	-5.46*
Large suburb	25.37	24.12	25.04	0.33*	-0.92
Midsized suburb	2.39	2.62	2.40	-0.01	0.22
Small suburb	1.35	1.50	1.36	-0.01	0.14
Urban area on fringe of town	1.32	1.91	1.32	#	0.59
Urban area distant from town	7.92	6.78	7.92	#	-1.14
Urban area remote from town	4.66	5.96	4.67	-0.01	1.29
Rural area on fringe of town	6.76	6.43	6.73	0.03	-0.30
Rural area distant from town	2.59	2.05	2.55	0.04	-0.50
Rural area remote from town	1.49	0.98	1.47	0.02	-0.49
Bureau of Economic Analysis region ³					
New England	7.22	6.86	7.03	0.19	-0.17
Mideast	14.65	14.75	14.90	-0.25	-0.15
Great Lakes	16.47	14.62	16.49	-0.02	-1.87
Plains	7.68	7.84	7.64	0.04	0.20
Southeast	29.46	25.05	29.39	0.07	-4.34
Southwest	7.99	10.67	8.05	-0.06	2.62
Rocky Mountains	3.94	3.79	4.04	-0.10*	-0.25
Far West	10.88	14.30	10.87	0.01	3.43
Outlying Areas	1.70	2.12	1.57	0.13*	0.55
Historically Black College or University					
Yes	1.99	1.99	1.98	0.01	0.01
No or unavailable or unknown	98.01	98.01	98.02	-0.01	-0.01
Hispanic-Serving Institution					
Yes	18.50	23.26	18.39	0.11	4.87*
No	81.50	76.74	81.61	-0.11	-4.87*
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁴					
0–3	18.66	20.25	18.49	0.17	1.76
4–8	20.75	22.40	20.80	-0.05	1.60
9–17	27.23	21.61	27.33	-0.10	-5.72*
18 or more	31.09	32.54	31.12	-0.03	1.42
Unknown	2.27	3.19	2.26	0.01	0.93
Percentage of undergraduate students enrolled: Asian or Pacific Islander ⁴					
0–1	41.46	39.57	41.42	0.04	-1.85
2	13.71	16.94	13.85	-0.14	3.09*
3–5	22.13	19.27	22.26	-0.13	-2.99
6 or more	20.42	21.03	20.22	0.20	0.81
Unknown	2.27	3.19	2.26	0.01	0.93

See notes at end of table.

Table M-37. Institution-level study analysis after poststratification for selected variables—all undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students enrolled:					
Hispanic ⁴					
0–4	30.64	25.83	30.73	-0.09	-4.90
5–9	22.52	20.86	22.62	-0.10	-1.76
10–20	21.39	23.23	21.22	0.17	2.01
21 or more	23.18	26.88	23.17	0.01	3.71
Unknown	2.27	3.19	2.26	0.01	0.93
Total undergraduate enrollment ⁴					
1–971	51.40	51.69	51.37	0.03	0.32
972–3,050	20.47	20.18	20.51	-0.04	-0.33
3,051–8,528	14.50	14.54	14.53	-0.03	0.01
8,529 or more	13.64	13.59	13.58	0.06	0.01
Total male undergraduate enrollment ⁴					
1–378	50.47	50.81	50.45	0.02	0.36
379–1,204	21.19	20.93	21.24	-0.05	-0.31
1,205–3,530	14.74	14.68	14.75	-0.01	-0.07
3,531 or more	13.60	13.58	13.55	0.05	0.03
Total female undergraduate enrollment ⁴					
1–566	49.28	49.42	49.18	0.10	0.24
567–1,780	22.54	22.28	22.68	-0.14	-0.40
1,781–4,918	14.58	14.71	14.60	-0.02	0.11
4,919 or more	13.59	13.59	13.54	0.05	0.05
Percentage of undergraduate students receiving federal grant aid ⁴					
1–44	21.79	22.55	21.66	0.13	0.89
45–61	22.43	20.42	22.60	-0.17	-2.18
62–80	17.62	20.07	17.70	-0.08	2.37
81 or more	28.44	29.84	28.50	-0.06	1.34
None or unknown	9.72	7.11	9.54	0.18	-2.43
Percentage of undergraduate students receiving state/local grant aid ⁴					
1–8	40.62	41.62	40.79	-0.17	0.83
9–28	14.90	16.26	14.83	0.07	1.43
29–51	14.40	17.05	14.47	-0.07	2.58*
52 or more	20.35	17.96	20.38	-0.03	-2.42
None or unknown	9.72	7.11	9.54	0.18	-2.43
Percentage of undergraduate students receiving institution grant aid ⁴					
1–10	35.33	37.71	35.42	-0.09	2.29
11–36	20.79	18.43	20.80	-0.01	-2.37
37–78	16.87	18.50	16.86	0.01	1.64
79 or more	17.29	18.25	17.38	-0.09	0.87
None or unknown	9.72	7.11	9.54	0.18	-2.43

See notes at end of table.

Table M-37. Institution-level study analysis after poststratification for selected variables—all undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students receiving student loan aid ⁴					
1–14	17.63	17.34	17.44	0.19	-0.10
15–46	17.45	17.33	17.25	0.20	0.08
47–68	22.01	24.96	22.16	-0.15	2.80
69 or more	33.18	33.26	33.61	-0.43*	-0.35
None or unknown	9.72	7.11	9.54	0.18	-2.43
Average net price among students receiving grant or scholarship aid ⁴					
\$1–\$7,913	15.41	16.59	15.33	0.08	1.26
\$7,914–\$13,216	17.16	17.52	17.03	0.13	0.49
\$13,217–\$20,023	28.03	27.86	28.26	-0.23	-0.40
\$20,024 or more	28.78	29.61	28.96	-0.18	0.65
None or unknown	10.61	8.42	10.42	0.19	-2.00
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁴					
1–67	24.98	27.14	24.92	0.06	2.22
68–82	21.24	23.80	21.33	-0.09	2.47
83–94	21.00	20.98	21.08	-0.08	-0.10
95 or more	24.61	22.82	24.64	-0.03	-1.82
None or unknown	8.17	5.27	8.04	0.13	-2.77
Number of full-time, first-time undergraduate students living on campus ⁴					
0–114	9.39	9.26	9.39	#	-0.13
115–274	8.88	9.17	8.92	-0.04	0.25
275–656	8.67	8.28	8.67	#	-0.39
657 or more	6.96	6.75	6.97	-0.01	-0.22
Unknown	66.11	66.53	66.05	0.06	0.48
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁴					
0–36	37.56	40.61	37.62	-0.06	2.99
37–90	19.60	20.67	19.54	0.06	1.13
91–218	18.01	16.60	18.22	-0.21	-1.62
219 or more	13.96	13.36	13.95	0.01	-0.59
Unknown	10.87	8.75	10.68	0.19	-1.93
Average amount of grant and scholarship aid received ⁴					
\$0–\$5,000	32.15	30.44	32.24	-0.09	-1.80
\$5,001–\$6,090	21.53	24.61	21.60	-0.07	3.01
\$6,091–\$9,754	18.90	19.52	18.81	0.09	0.71
\$9,755 or more	18.05	18.58	18.15	-0.10	0.43
Unknown	9.37	6.85	9.20	0.17	-2.35

See notes at end of table.

Table M-37. Institution-level study analysis after poststratification for selected variables—all undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁴					
0–30	18.91	17.23	18.73	0.18	-1.50
31–46	18.42	18.45	18.53	-0.11	-0.08
47–65	22.39	21.41	22.52	-0.13	-1.11
66 or more	32.30	36.89	32.41	-0.11	4.48
Unknown	7.97	6.02	7.82	0.15	-1.80

† Not applicable.

Rounds to zero.

‡ Reporting standards not met (fewer than five unweighted nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the institution base weight adjusted for nonresponse.² Mean is calculated using the student base weight adjusted for nonresponse and poststratification.

³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.

⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Institution base weight" refers to the institution sampling weight. For the purpose of this table, "state" includes Puerto Rico and the District of Columbia. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-38. Institution-level study analysis after poststratification for selected variables—public less-than-2-year undergraduate-enrolling institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Degree of urbanization					
Large city	‡	‡	‡	‡	‡
Midsized city	‡	‡	‡	‡	‡
Small city	‡	‡	‡	‡	‡
Large suburb	‡	‡	‡	‡	‡
Midsized suburb	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡
Urban area distant from town	‡	‡	‡	‡	‡
Urban area remote from town	‡	‡	‡	‡	‡
Rural area on fringe of town	‡	‡	‡	‡	‡
Rural area distant from town	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ³					
New England	‡	‡	‡	‡	‡
Mideast	‡	‡	‡	‡	‡
Great Lakes	‡	‡	‡	‡	‡
Plains	‡	‡	‡	‡	‡
Southeast	‡	‡	‡	‡	‡
Southwest	12.39	11.62	12.29	0.10	-0.67
Rocky Mountains	‡	‡	‡	‡	‡
Far West	‡	‡	‡	‡	‡
Outlying Areas	‡	‡	‡	‡	‡
Hispanic-Serving Institution					
Yes	‡	‡	‡	‡	‡
No	98.69	98.01	98.62	0.07	-0.61
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁴					
0–2	8.83	12.93	9.33	-0.50	3.60
3–4	‡	‡	‡	‡	‡
5–8	‡	‡	‡	‡	‡
9 or more	72.79	73.36	71.51	1.28	1.85
Unknown	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Asian or Pacific Islander ⁴					
0–1	60.96	63.05	60.29	0.67	2.76
2	‡	‡	‡	‡	‡
3 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-38. Institution-level study analysis after poststratification for selected variables—public less-than-2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students enrolled: Hispanic ⁴					
0–3	6.60	12.31	6.64	-0.04	5.67
4–9	‡	‡	‡	‡	‡
10–14	‡	‡	‡	‡	‡
15 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁴					
1–140	77.44	81.22	76.12	1.32	5.10
141–460	13.90	10.36	14.83	-0.93	-4.47
461–1,450	‡	‡	‡	‡	‡
1,451 or more	‡	‡	‡	‡	‡
Total male undergraduate enrollment ⁴					
1–64	77.44	81.34	76.12	1.32	5.22
65–296	7.99	9.43	8.07	-0.08	1.36
297–876	‡	‡	‡	‡	‡
877 or more	‡	‡	‡	‡	‡
Total female undergraduate enrollment ⁴					
1–99	83.34	82.24	82.89	0.45	-0.65
100–228	7.99	9.33	8.07	-0.08	1.26
229–557	5.35	5.00	5.54	-0.19	-0.54
558 or more	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving federal grant aid ⁴					
1–29	‡	‡	‡	‡	‡
30–58	‡	‡	‡	‡	‡
59–74	‡	‡	‡	‡	‡
75 or more	31.79	11.98	32.14	-0.35	-20.16
None or unknown	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving state/local grant aid ⁴					
1–3	‡	‡	‡	‡	‡
4–9	‡	‡	‡	‡	‡
10–35	‡	‡	‡	‡	‡
36 or more	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving institution grant aid ⁴					
0	53.74	77.18	53.05	0.69	24.13
1–7	‡	‡	‡	‡	‡
8–29	‡	‡	‡	‡	‡
30 or more	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-38. Institution-level study analysis after poststratification for selected variables—public less-than-2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students receiving student loan aid ⁴					
0	14.56	36.38	15.70	-1.14	20.68
1–8	‡	‡	‡	‡	‡
9 or more	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡
Average net price among students receiving grant or scholarship aid ⁴					
\$1–\$3,281	4.27	27.33	4.25	0.02	23.08
\$3,282–\$5,236	‡	‡	‡	‡	‡
\$5,237–\$8,681	‡	‡	‡	‡	‡
\$8,682 or more	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁴					
1–46	‡	‡	‡	‡	‡
47–65	‡	‡	‡	‡	‡
66–83	3.62	5.30	3.76	-0.14	1.54
84 or more	37.69	13.20	38.91	-1.22*	-25.71
None or unknown	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁴					
0	‡	‡	‡	‡	‡
1–10	‡	‡	‡	‡	‡
11 or more	‡	‡	‡	‡	‡
Unknown	93.65	97.37	92.78	0.87	4.59
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁴					
0–3	‡	‡	‡	‡	‡
4–11	‡	‡	‡	‡	‡
12–21	‡	‡	‡	‡	‡
22 or more	‡	‡	‡	‡	‡
Unknown	10.44	14.39	10.57	-0.13	3.82
Average amount of grant and scholarship aid received ⁴					
\$0–\$3,048	‡	‡	‡	‡	‡
\$3,049–\$3,955	4.11	4.75	4.10	0.01	0.65
\$3,956–\$5,239	‡	‡	‡	‡	‡
\$5,240 or more	6.47	5.05	7.33	-0.86	-2.28
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-38. Institution-level study analysis after poststratification for selected variables—public less-than-2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁴					
0–61	3.07	4.61	3.28	-0.21	1.33
62–72	4.51	5.92	4.61	-0.10	1.31
73–86	8.64	30.33	8.78	-0.14	21.55
87 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡

‡ Reporting standards not met (fewer than five unweighted nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the institution base weight adjusted for nonresponse.² Mean is calculated using the student base weight adjusted for nonresponse and poststratification.³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-39. Institution-level study analysis after poststratification for selected variables—public 2-year undergraduate-enrolling institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Carnegie classification 2015: Basic					
Associate's	88.78	88.30	88.85	-0.07	-0.55
Research and doctoral	‡	‡	‡	‡	‡
Master's	‡	‡	‡	‡	‡
Baccalaureate	‡	‡	‡	‡	‡
Special focus and other	2.99	1.70	2.98	0.01	-1.28
Unavailable or unknown	8.23	10.00	8.16	0.07	1.84*
Degree of urbanization					
Large city	10.92	10.93	10.84	0.08	0.09
Midsize city	6.78	7.32	6.86	-0.08	0.46
Small city	12.13	11.46	12.26	-0.13	-0.80
Large suburb	14.57	15.95	14.47	0.10*	1.48
Midsize suburb	2.42	2.97	2.40	0.02	0.57
Small suburb	‡	‡	‡	‡	‡
Urban area on fringe of town	1.30	1.80	1.29	0.01	0.51*
Urban area distant from town	13.76	11.14	13.79	-0.03	-2.65
Urban area remote from town	11.38	11.78	11.40	-0.02	0.38
Rural area on fringe of town	16.84	16.77	16.80	0.04	-0.03
Rural area distant from town	4.24	5.09	4.22	0.02	0.87
Rural area remote from town	3.35	2.12	3.35	#	-1.23
Bureau of Economic Analysis region ³					
New England	4.18	4.88	4.30	-0.12	0.58
Mideast	8.18	9.55	8.17	0.01	1.38*
Great Lakes	12.89	11.89	12.88	0.01	-0.99
Plains	12.82	11.57	12.81	0.01	-1.24
Southeast	31.39	31.76	31.73	-0.34*	0.03
Southwest	12.81	12.42	12.80	0.01	-0.38
Rocky Mountains	2.78	3.18	2.78	#	0.40
Far West	14.46	14.22	14.03	0.43*	0.19
Outlying Areas	‡	‡	‡	‡	‡
Historically Black College or University					
Yes	‡	‡	‡	‡	‡
No or unavailable or unknown	99.05	98.94	99.05	#	-0.11
Hispanic-Serving Institution					
Yes	26.24	26.21	25.81	0.43*	0.40
No	73.76	73.79	74.19	-0.43*	-0.40
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁴					
0–3	28.51	28.76	28.33	0.18*	0.43
4–8	21.42	24.09	21.26	0.16*	2.83*
9–17	26.29	22.53	26.26	0.03	-3.73
18 or more	23.78	24.62	24.15	-0.37*	0.47

See notes at end of table.

Table M-39. Institution-level study analysis after poststratification for selected variables—public 2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students enrolled: Asian or Pacific Islander ⁴					
0–1	45.34	43.83	45.52	-0.18*	-1.69
2	18.67	17.51	18.77	-0.10	-1.26
3–4	15.40	17.11	15.45	-0.05	1.66
5 or more	20.59	21.54	20.26	0.33*	1.28
Percentage of undergraduate students enrolled: Hispanic ⁴					
0–4	26.12	26.11	26.18	-0.06	-0.07
5–10	26.25	26.43	26.54	-0.29*	-0.11
11–27	23.70	23.27	23.73	-0.03	-0.46
28 or more	23.93	24.20	23.54	0.39*	0.66
Total undergraduate enrollment ⁴					
1–2,179	30.10	25.18	30.02	0.08	-4.84
2,180–5,086	23.12	24.94	23.21	-0.09	1.73
5,087–10,883	23.97	24.94	24.07	-0.10	0.87
10,884 or more	22.81	24.94	22.70	0.11	2.24*
Total male undergraduate enrollment ⁴					
1–878	30.80	25.18	30.74	0.06	-5.56*
879–2,079	22.31	24.94	22.38	-0.07	2.56*
2,080–4,584	24.47	24.94	24.58	-0.11	0.36
4,585 or more	22.43	24.94	22.29	0.14	2.65*
Total female undergraduate enrollment ⁴					
1–1,314	29.43	25.28	29.34	0.09	-4.06
1,315–3,011	24.05	24.83	24.07	-0.02	0.76
3,012–6,282	23.25	24.94	23.43	-0.18*	1.51
6,283 or more	23.27	24.94	23.16	0.11	1.78
Percentage of undergraduate students receiving federal grant aid ⁴					
1–52	25.10	25.71	24.77	0.33*	0.94
53–64	23.66	25.37	23.54	0.12*	1.83
65–78	22.81	23.35	22.92	-0.11	0.43
79 or more	27.42	24.30	27.71	-0.29*	-3.41
None or unknown	1.02	1.27	1.06	-0.04	0.21
Percentage of undergraduate students receiving state/local grant aid ⁴					
1–19	26.73	24.86	26.63	0.10	-1.77
20–37	23.10	24.73	23.07	0.03	1.66
38–64	25.21	25.47	25.52	-0.31*	-0.05
65 or more	23.94	23.67	23.71	0.23*	-0.04
None or unknown	1.02	1.27	1.06	-0.04	0.21

See notes at end of table.

Table M-39. Institution-level study analysis after poststratification for selected variables—public 2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students receiving institution grant aid ⁴					
1–5	22.96	25.15	22.99	-0.03	2.16
6–15	23.96	24.75	23.91	0.05	0.84
16–32	25.81	24.52	25.75	0.06	-1.23
33 or more	26.25	24.30	26.30	-0.05	-2.00
None or unknown	1.02	1.27	1.06	-0.04	0.21
Percentage of undergraduate students receiving student loan aid ⁴					
1	27.13	28.04	26.86	0.27*	1.18
2–11	23.39	21.86	23.59	-0.20	-1.73
12–28	23.13	24.30	23.12	0.01	1.18
29 or more	25.33	24.52	25.38	-0.05	-0.86
None or unknown	1.02	1.27	1.06	-0.04	0.21
Average net price among students receiving grant or scholarship aid ⁴					
\$1–\$5,873	23.52	24.62	23.85	-0.33*	0.77
\$5,874–\$7,324	22.74	24.52	22.69	0.05	1.83
\$7,325–\$9,467	23.87	24.75	23.79	0.08	0.96
\$9,468 or more	28.75	24.52	28.52	0.23*	-4.00
None or unknown	1.12	1.59	1.16	-0.04	0.43
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁴					
1–64	24.55	26.66	24.44	0.11*	2.22
65–76	23.79	24.52	23.60	0.19*	0.92
77–87	26.08	24.52	26.10	-0.02	-1.58
88 or more	25.16	23.99	25.40	-0.24*	-1.41
None or unknown	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁴					
0–39	6.25	6.05	6.22	0.03	-0.17
40–70	7.70	6.05	7.69	0.01	-1.64
71–127	5.04	5.73	5.03	0.01	0.70
128 or more	5.73	5.84	5.73	#	0.11
Unknown	75.28	76.33	75.33	-0.05	1.00
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁴					
0–52	29.87	25.18	29.78	0.09	-4.60
53–116	23.05	24.09	23.07	-0.02	1.02
117–242	23.72	24.62	23.81	-0.09	0.81
243 or more	22.03	24.30	21.97	0.06	2.33*
Unknown	1.34	1.80	1.37	-0.03	0.43

See notes at end of table.

Table M-39. Institution-level study analysis after poststratification for selected variables—public 2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Average amount of grant and scholarship aid received ⁴					
\$0–\$4,692	23.89	25.18	23.65	0.24*	1.53
\$4,693–\$5,283	22.86	24.62	22.87	-0.01	1.75
\$5,284–\$5,932	27.91	24.83	27.83	0.08	-3.00
\$5,933 or more	24.58	24.73	24.85	-0.27*	-0.12
Unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁴					
0–23	27.27	26.85	27.32	-0.05	-0.47
24–30	24.43	23.88	24.28	0.15*	-0.40
31–39	22.46	24.09	22.47	-0.01	1.62
40 or more	25.33	24.65	25.38	-0.05	-0.73
Unknown	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than five unweighted nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the institution base weight adjusted for nonresponse.² Mean is calculated using the student base weight adjusted for nonresponse and poststratification.³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-40. Institution-level study analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate undergraduate-enrolling institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Carnegie classification 2015: Basic					
Associate's	66.03	70.66	66.03	#*	4.63
Research and doctoral	‡	‡	‡	‡	‡
Master's	‡	‡	‡	‡	‡
Baccalaureate	‡	‡	‡	‡	‡
Special focus and other	10.47	8.38	10.47	#	-2.09
Unavailable or unknown	‡	‡	‡	‡	‡
Degree of urbanization					
Large city	11.30	12.57	11.30	#	1.27
Midsize city	‡	‡	‡	‡	‡
Small city	19.17	19.16	19.17	#	-0.01
Large suburb	11.47	14.37	11.47	#	2.90
Midsize suburb	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡
Urban area distant from town	‡	‡	‡	‡	‡
Urban area remote from town	‡	‡	‡	‡	‡
Rural area on fringe of town	15.47	12.57	15.47	#	-2.90
Rural area distant from town	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ³					
New England	‡	‡	‡	‡	‡
Mideast	‡	‡	‡	‡	‡
Great Lakes	‡	‡	‡	‡	‡
Plains	‡	‡	‡	‡	‡
Southeast	21.23	23.95	21.23	#*	2.72
Southwest	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡
Far West	23.88	29.94	23.89	-0.01*	6.05*
Outlying Areas	‡	‡	‡	‡	‡
Hispanic-Serving Institution					
Yes	27.14	23.35	27.14	#*	-3.79
No	72.86	76.65	72.86	#*	3.79
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁴					
0–2	27.04	26.95	27.04	#	-0.09
3–7	25.16	22.75	25.16	#	-2.41
8–13	26.63	26.95	26.63	#	0.32
14 or more	20.59	22.75	20.59	#	2.16
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-40. Institution-level study analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students enrolled: Asian or Pacific Islander ⁴					
0–1	38.55	34.13	38.55	#*	-4.42
2	18.92	18.56	18.92	#*	-0.36
3–5	24.59	25.75	24.60	-0.01	1.15
6 or more	17.34	20.96	17.35	-0.01*	3.61
Unknown	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Hispanic ⁴					
0–5	30.78	28.14	30.78	#*	-2.64
6–12	21.80	25.75	21.80	#	3.95
13–26	19.91	22.16	19.91	#*	2.25
27 or more	26.93	23.35	26.93	#*	-3.58
Unknown	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁴					
1–3,233	29.96	25.15	29.96	#*	-4.81
3,234–6,592	23.77	25.15	23.77	#	1.38
6,593–15,274	19.75	25.15	19.75	#*	5.40*
15,275 or more	26.52	24.55	26.53	-0.01*	-1.98
Total male undergraduate enrollment ⁴					
1–1,258	29.32	25.15	29.31	0.01*	-4.16
1,259–2,699	25.79	25.15	25.79	#	-0.64
2,700–6,370	18.95	25.15	18.95	#*	6.20*
6,371 or more	25.94	24.55	25.94	#*	-1.39
Total female undergraduate enrollment ⁴					
1–1,747	30.33	25.15	30.33	#	-5.18
1,748–3,971	22.16	25.15	22.16	#*	2.99
3,972–8,929	21.03	25.15	21.03	#*	4.12
8,930 or more	26.48	24.55	26.48	#*	-1.93
Percentage of undergraduate students receiving federal grant aid ⁴					
1–46	24.46	27.54	24.46	#	3.08
47–58	22.88	24.55	22.88	#	1.67
59–69	21.62	22.75	21.62	#	1.13
70 or more	29.67	23.95	29.67	#*	-5.72
None or unknown	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving state/local grant aid ⁴					
1–18	29.84	26.35	29.84	#*	-3.49
19–36	21.04	23.35	21.04	#	2.31
37–51	21.70	25.75	21.70	#	4.05
52 or more	26.05	23.35	26.05	#*	-2.70
None or unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-40. Institution-level study analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students receiving institution grant aid ⁴					
1–10	21.53	25.75	21.53	#	4.22
11–21	26.10	23.95	26.10	#	-2.15
22–38	24.27	25.15	24.27	#*	0.88
39 or more	26.74	23.95	26.73	0.01*	-2.78
None or unknown	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving student loan aid ⁴					
1–5	27.68	25.15	27.68	#*	-2.53
6–15	23.24	25.75	23.23	0.01*	2.52
16–37	‡	‡	‡	‡	‡
38 or more	22.09	23.95	22.09	#*	1.86
None or unknown	‡	‡	‡	‡	‡
Average net price among students receiving grant or scholarship aid ⁴					
\$1–\$6,240	30.74	25.15	30.74	#*	-5.59
\$6,241–\$7,879	20.57	24.55	20.57	#	3.98
\$7,880–\$9,328	21.29	24.55	21.29	#	3.26
\$9,329 or more	26.02	24.55	26.02	#	-1.47
None or unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁴					
1–59	26.31	26.95	26.32	-0.01	0.63
60–71	21.73	23.35	21.73	#	1.62
72–83	19.66	25.15	19.66	#	5.49*
84 or more	31.71	23.95	31.71	#	-7.76
None or unknown	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁴					
0–21	12.14	9.58	12.14	#	-2.56
22–75	‡	‡	‡	‡	‡
76–215	7.50	9.58	7.50	#*	2.08
216 or more	‡	‡	‡	‡	‡
Unknown	62.54	62.28	62.54	#	-0.26
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁴					
0–71	25.61	25.15	25.61	#	-0.46
72–132	25.69	23.95	25.69	#	-1.74
133–347	24.13	24.55	24.13	#	0.42
348 or more	23.20	24.55	23.20	#	1.35
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-40. Institution-level study analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Average amount of grant and scholarship aid received ⁴					
\$0–\$4,914	24.56	25.15	24.56	#	0.59
\$4,915–\$5,564	23.96	24.55	23.96	#*	0.59
\$5,565–\$6,239	22.74	25.15	22.74	#	2.41
\$6,240 or more	28.15	24.55	28.15	#*	-3.60
Unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁴					
0–19	32.89	25.15	32.89	#	-7.74
20–28	28.58	29.34	28.58	#	0.76
29–35	19.28	20.36	19.28	#	1.08
36 or more	18.66	24.55	18.66	#	5.89*
Unknown	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than five unweighted nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the institution base weight adjusted for nonresponse.² Mean is calculated using the student base weight adjusted for nonresponse and poststratification.

³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.

⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-41. Institution-level study analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate undergraduate-enrolling institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Carnegie classification 2015: Basic					
Associate's	‡	‡	‡	‡	‡
Research and doctoral	‡	‡	‡	‡	‡
Master's	51.74	51.12	51.74	#	-0.62
Baccalaureate	40.49	40.36	40.49	#	-0.13
Special focus and other	‡	‡	‡	‡	‡
Unavailable or unknown	‡	‡	‡	‡	‡
Degree of urbanization					
Large city	‡	‡	‡	‡	‡
Midsize city	6.65	8.52	6.65	#	1.87
Small city	14.79	12.56	14.79	#	-2.23
Large suburb	16.70	16.14	16.69	0.01*	-0.55
Midsize suburb	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡
Urban area distant from town	‡	‡	‡	‡	‡
Urban area remote from town	‡	‡	‡	‡	‡
Rural area on fringe of town	3.95	5.83	3.95	#*	1.88
Rural area distant from town	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ³					
New England	12.19	11.66	12.19	#*	-0.53
Mideast	21.80	21.97	21.79	0.01*	0.18
Great Lakes	7.68	8.52	7.68	#	0.84
Plains	7.87	10.31	7.87	#*	2.44
Southeast	24.02	21.52	24.03	-0.01*	-2.51
Southwest	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡
Far West	‡	‡	‡	‡	‡
Outlying Areas	‡	‡	‡	‡	‡
Historically Black College or University					
Yes	‡	‡	‡	‡	‡
No or unavailable or unknown	95.15	94.17	95.15	#*	-0.98
Hispanic-Serving Institution					
Yes	15.77	16.59	15.76	0.01	0.83
No	84.23	83.41	84.24	-0.01	-0.83
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁴					
0–3	24.66	26.46	24.65	0.01	1.81
4–6	21.93	23.32	21.94	-0.01	1.38
7–12	22.37	21.08	22.37	#	-1.29
13 or more	22.85	21.52	22.85	#	-1.33
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-41. Institution-level study analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students enrolled: Asian or Pacific Islander ⁴					
0–1	36.70	38.57	36.70	#	1.87
2	15.06	15.25	15.05	0.01*	0.20
3–4	19.09	17.04	19.09	#	-2.05
5 or more	20.97	21.52	20.97	#	0.55
Unknown	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Hispanic ⁴					
0–5	32.70	30.04	32.70	#	-2.66
6–10	17.62	20.63	17.62	#	3.01
11–19	22.09	20.18	22.09	#	-1.91
20 or more	19.41	21.52	19.40	0.01	2.12
Unknown	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁴					
1–2,088	23.70	25.11	23.70	#	1.41
2,089–3,809	23.91	25.11	23.91	#	1.20
3,810–6,457	25.04	25.11	25.05	-0.01	0.06
6,458 or more	27.34	24.66	27.34	#	-2.68
Total male undergraduate enrollment ⁴					
1–844	24.35	25.11	24.34	0.01*	0.77
845–1,587	23.29	25.11	23.29	#	1.82
1,588–2,514	25.82	25.11	25.82	#	-0.71
2,515 or more	26.55	24.66	26.55	#	-1.89
Total female undergraduate enrollment ⁴					
1–1,205	23.29	25.11	23.28	0.01	1.83
1,206–2,224	22.97	25.11	22.97	#	2.14
2,225–3,879	26.66	25.11	26.66	#	-1.55
3,880 or more	27.08	24.66	27.09	-0.01	-2.43
Percentage of undergraduate students receiving federal grant aid ⁴					
1–45	23.47	23.32	23.46	0.01	-0.14
46–60	21.20	21.97	21.21	-0.01	0.76
61–80	19.95	22.42	19.94	0.01*	2.48
81 or more	23.53	22.42	23.53	#	-1.11
None or unknown	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving state/local grant aid ⁴					
1–28	29.21	24.66	29.21	#	-4.55*
29–41	16.69	21.52	16.69	#	4.83*
42–61	19.53	21.97	19.53	#	2.44
62 or more	22.71	21.97	22.71	#	-0.74
None or unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-41. Institution-level study analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students receiving institution grant aid ⁴					
1–41	25.10	23.32	25.09	0.01*	-1.77
42–61	19.68	21.97	19.68	#	2.29
62–81	25.49	23.32	25.49	#	-2.17
82 or more	17.87	21.52	17.87	#	3.65*
None or unknown	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving student loan aid ⁴					
1–40	22.98	23.77	22.98	#	0.79
41–52	20.82	21.97	20.82	#	1.15
53–67	‡	‡	‡	‡	‡
68 or more	18.59	21.97	18.59	#*	3.38*
None or unknown	‡	‡	‡	‡	‡
Average net price among students receiving grant or scholarship aid ⁴					
\$1–\$10,260	20.30	22.87	20.30	#	2.57
\$10,261–\$13,279	26.61	22.42	26.60	0.01*	-4.18*
\$13,280–\$15,760	19.78	22.42	19.79	-0.01	2.63
\$15,761 or more	21.45	22.42	21.45	#	0.97
None or unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁴					
1–72	23.32	23.32	23.32	#	#
73–85	21.95	24.66	21.94	0.01	2.72
86–92	22.43	21.97	22.43	#	-0.46
93 or more	20.48	20.18	20.48	#	-0.30
None or unknown	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁴					
0–138	17.45	19.28	17.45	#	1.83
139–241	16.48	18.39	16.48	#	1.91
242–550	18.36	18.83	18.36	#	0.47
551 or more	20.78	18.83	20.78	#	-1.95
Unknown	26.93	24.66	26.93	#*	-2.27
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁴					
0–56	24.09	23.32	24.09	#	-0.77
57–111	18.98	21.97	18.98	#	2.99
112–219	22.37	22.87	22.38	-0.01	0.49
220 or more	22.70	21.97	22.70	#	-0.73
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-41. Institution-level study analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Average amount of grant and scholarship aid received ⁴					
\$0–\$6,185	22.43	22.42	22.43	#	-0.01
\$6,186–\$7,466	24.10	22.42	24.10	#	-1.68
\$7,467–\$8,904	18.92	22.42	18.91	0.01*	3.51*
\$8,905 or more	22.17	22.42	22.18	-0.01	0.24
Unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁴					
0–35	21.63	23.77	21.63	#	2.14
36–46	20.41	21.52	20.42	-0.01	1.10
47–58	23.48	21.52	23.48	#	-1.96
59 or more	18.87	20.63	18.87	#	1.76
Unknown	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than five unweighted nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the institution base weight adjusted for nonresponse.² Mean is calculated using the student base weight adjusted for nonresponse and poststratification.

³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.

⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-42. Institution-level study analysis after poststratification for selected variables—public 4-year, doctorate-granting undergraduate-enrolling institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Carnegie classification 2015: Basic					
Associate's	‡	‡	‡	‡	‡
Research and doctoral	51.63	52.15	51.63	#	0.52
Master's	40.28	40.86	40.28	#	0.58
Baccalaureate	‡	‡	‡	‡	‡
Special focus and other	‡	‡	‡	‡	‡
Unavailable or unknown	‡	‡	‡	‡	‡
Degree of urbanization					
Large city	27.19	26.34	27.18	0.01*	-0.84
Midsize city	16.51	16.94	16.51	#	0.43
Small city	17.86	18.01	17.87	-0.01	0.14
Large suburb	11.00	11.29	11.00	#	0.29
Midsize suburb	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡
Urban area distant from town	7.47	7.80	7.46	0.01*	0.34
Urban area remote from town	‡	‡	‡	‡	‡
Rural area on fringe of town	‡	‡	‡	‡	‡
Rural area distant from town	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ³					
New England	‡	‡	‡	‡	‡
Mideast	‡	‡	‡	‡	‡
Great Lakes	13.42	13.98	13.41	0.01*	0.57
Plains	‡	‡	‡	‡	‡
Southeast	28.68	28.49	28.71	-0.03*	-0.22
Southwest	13.74	13.44	13.73	0.01*	-0.29
Rocky Mountains	‡	‡	‡	‡	‡
Far West	‡	‡	‡	‡	‡
Outlying Areas	‡	‡	‡	‡	‡
Historically Black College or University					
Yes	‡	‡	‡	‡	‡
No or unavailable or unknown	93.28	93.01	93.28	#	-0.27
Hispanic-Serving Institution					
Yes	19.54	18.82	19.53	0.01*	-0.71
No	80.46	81.18	80.47	-0.01*	0.71
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁴					
0–4	31.44	31.18	31.43	0.01	-0.25
5–7	18.98	19.35	18.98	#	0.37
8–17	24.94	24.73	24.95	-0.01	-0.22
18 or more	23.57	23.66	23.57	#	0.09
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-42. Institution-level study analysis after poststratification for selected variables—public 4-year, doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students enrolled: Asian or Pacific Islander ⁴					
0–2	43.41	41.94	43.41	#	-1.47
3	10.14	10.22	10.15	-0.01	0.07
4–7	21.21	22.58	21.21	#*	1.37
8 or more	24.16	24.19	24.16	#	0.03
Unknown	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Hispanic ⁴					
0–5	30.38	30.38	30.38	#	#
6–8	20.44	19.89	20.45	-0.01	-0.56
9–20	23.28	24.19	23.28	#	0.91
21 or more	24.82	24.46	24.82	#*	-0.36
Unknown	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁴					
1–7,161	24.55	25.00	24.55	#	0.45
7,162–12,746	26.84	25.00	26.84	#	-1.84
12,747–23,490	25.57	25.00	25.56	0.01*	-0.56
23,491 or more	23.05	25.00	23.05	#	1.95*
Total male undergraduate enrollment ⁴					
1–3,035	24.56	25.00	24.56	#	0.44
3,036–5,604	26.56	25.00	26.57	-0.01	-1.57
5,605–10,568	25.41	25.00	25.40	0.01	-0.40
10,569 or more	23.48	25.00	23.48	#	1.52
Total female undergraduate enrollment ⁴					
1–4,101	24.29	25.00	24.29	#	0.71
4,102–7,146	27.07	25.00	27.07	#	-2.07
7,147–12,605	25.51	25.00	25.51	#*	-0.51
12,606 or more	23.13	25.00	23.13	#	1.87
Percentage of undergraduate students receiving federal grant aid ⁴					
1–36	22.06	23.12	22.06	#	1.06
37–49	23.49	24.46	23.49	#	0.97
50–70	23.13	22.58	23.13	#	-0.55
71 or more	22.75	22.31	22.75	#	-0.44
None or unknown	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving state/local grant aid ⁴					
1–21	22.55	23.92	22.54	0.01	1.38
22–38	22.83	22.31	22.83	#	-0.52
39–60	23.62	23.12	23.62	#	-0.50
61 or more	22.44	23.12	22.44	#	0.68
None or unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-42. Institution-level study analysis after poststratification for selected variables—public 4-year, doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students receiving institution grant aid ⁴					
1–45	23.77	23.92	23.77	#	0.15
46–61	23.07	23.39	23.07	#	0.32
62–76	23.05	22.85	23.05	#	-0.20
77 or more	21.55	22.31	21.55	#	0.76
None or unknown	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving student loan aid ⁴					
1–37	22.94	23.12	22.94	#	0.18
38–51	23.16	23.12	23.16	#	-0.04
52–62	22.61	23.92	22.61	#	1.31
63 or more	22.72	22.31	22.72	#	-0.41
None or unknown	‡	‡	‡	‡	‡
Average net price among students receiving grant or scholarship aid ⁴					
\$1–\$12,302	21.46	23.12	21.46	#	1.66
\$12,303–\$14,757	23.41	23.12	23.41	#	-0.29
\$14,758–\$17,383	24.11	23.12	24.12	-0.01	-1.00
\$17,384 or more	22.16	22.85	22.16	#	0.69
None or unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁴					
1–69	21.52	23.92	21.53	-0.01	2.39*
70–81	24.53	23.39	24.52	0.01*	-1.13
82–90	27.08	26.34	27.07	0.01	-0.73
91 or more	19.74	20.16	19.75	-0.01	0.41
None or unknown	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁴					
0–465	20.36	22.58	20.36	#	2.22*
466–900	23.30	22.58	23.30	#	-0.72
901–1,551	23.17	22.58	23.18	-0.01	-0.60
1,552 or more	22.37	22.58	22.37	#	0.21
Unknown	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁴					
0–181	20.43	23.12	20.43	#	2.69*
182–330	24.04	23.12	24.04	#	-0.92
331–508	24.68	23.12	24.68	#*	-1.56
509 or more	21.99	22.85	21.99	#	0.86
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-42. Institution-level study analysis after poststratification for selected variables—public 4-year, doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Average amount of grant and scholarship aid received ⁴					
\$0–\$7,027	24.01	23.39	24.00	0.01*	-0.61
\$7,028–\$8,427	22.97	23.39	22.98	-0.01*	0.41
\$8,428–\$9,919	22.26	23.39	22.25	0.01*	1.14
\$9,920 or more	23.33	23.39	23.33	#	0.06
Unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁴					
0–45	24.64	24.46	24.65	-0.01	-0.19
46–54	21.12	22.85	21.11	0.01	1.74
55–67	24.88	23.92	24.87	0.01	-0.95
68 or more	21.66	22.04	21.66	#	0.38
Unknown	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than five unweighted nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the institution base weight adjusted for nonresponse.² Mean is calculated using the student base weight adjusted for nonresponse and poststratification.

³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.

⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-43. Institution-level study analysis after poststratification for selected variables—private nonprofit less-than-4-year undergraduate-enrolling institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Carnegie classification 2015: Basic					
Associate's	18.39	38.69	17.63	0.76	21.06
Research and doctoral	‡	‡	‡	‡	‡
Master's	‡	‡	‡	‡	‡
Baccalaureate	‡	‡	‡	‡	‡
Special focus and other	‡	‡	‡	‡	‡
Unavailable or unknown	81.61	60.95	82.37	-0.76	-21.42
Degree of urbanization					
Large city	71.89	63.13	73.52	-1.63*	-10.39
Midsize city	‡	‡	‡	‡	‡
Small city	‡	‡	‡	‡	‡
Large suburb	‡	‡	‡	‡	‡
Midsize suburb	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡
Urban area distant from town	‡	‡	‡	‡	‡
Urban area remote from town	‡	‡	‡	‡	‡
Rural area on fringe of town	‡	‡	‡	‡	‡
Rural area distant from town	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ³					
New England	‡	‡	‡	‡	‡
Mideast	‡	‡	‡	‡	‡
Great Lakes	‡	‡	‡	‡	‡
Plains	‡	‡	‡	‡	‡
Southeast	19.30	15.10	18.78	0.52	-3.68
Southwest	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡
Far West	‡	‡	‡	‡	‡
Outlying Areas	‡	‡	‡	‡	‡
Historically Black College or University					
Yes	‡	‡	‡	‡	‡
No or unavailable or unknown	100.00	99.63	100.00	#	-0.37
Hispanic-Serving Institution					
Yes	‡	‡	‡	‡	‡
No	94.01	83.41	94.40	-0.39	-10.99
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁴					
0–2	‡	‡	‡	‡	‡
3–16	‡	‡	‡	‡	‡
17–40	7.72	16.33	7.52	0.20	8.81
41 or more	13.31	12.76	12.86	0.45	-0.10
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-43. Institution-level study analysis after poststratification for selected variables—private nonprofit less-than-4-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students enrolled: Asian or Pacific Islander ⁴					
0	13.73	18.27	13.26	0.47	5.01
1	56.81	51.78	59.05	-2.24*	-7.27
2–3	‡	‡	‡	‡	‡
4 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Hispanic ⁴					
0–1	70.48	61.70	72.25	-1.77*	-10.55
2–4	‡	‡	‡	‡	‡
5–13	1.72	5.61	1.58	0.14	4.03
14 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁴					
1–132	‡	‡	‡	‡	‡
133–336	‡	‡	‡	‡	‡
337–727	18.39	33.54	17.77	0.62	15.77
728 or more	6.40	10.47	6.09	0.31	4.38
Total male undergraduate enrollment ⁴					
1–24	‡	‡	‡	‡	‡
25–64	‡	‡	‡	‡	‡
65–156	5.59	27.99	5.21	0.38	22.78
157 or more	‡	‡	‡	‡	‡
Total female undergraduate enrollment ⁴					
1–61	‡	‡	‡	‡	‡
62–190	‡	‡	‡	‡	‡
191–530	13.23	23.82	12.67	0.56	11.15
531 or more	5.57	16.55	5.28	0.29	11.27
Percentage of undergraduate students receiving federal grant aid ⁴					
1–63	‡	‡	‡	‡	‡
64–69	5.99	19.48	5.92	0.07	13.56
70–95	2.13	10.34	1.99	0.14	8.35
96 or more	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving state/local grant aid ⁴					
0	14.61	20.30	14.04	0.57	6.26
1–2	‡	‡	‡	‡	‡
3–46	‡	‡	‡	‡	‡
47 or more	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-43. Institution-level study analysis after poststratification for selected variables—private nonprofit less-than-4-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students receiving institution grant aid ⁴					
0	‡	‡	‡	‡	‡
1–29	‡	‡	‡	‡	‡
30–68	‡	‡	‡	‡	‡
69 or more	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving student loan aid ⁴					
1–45	‡	‡	‡	‡	‡
46–74	‡	‡	‡	‡	‡
75–92	‡	‡	‡	‡	‡
93 or more	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡
Average net price among students receiving grant or scholarship aid ⁴					
\$1–\$13,259	‡	‡	‡	‡	‡
\$13,260–\$17,825	‡	‡	‡	‡	‡
\$17,826–\$21,423	‡	‡	‡	‡	‡
\$21,424 or more	0.44	2.44	0.44	#	2.00
None or unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁴					
1–75	‡	‡	‡	‡	‡
76–90	‡	‡	‡	‡	‡
91–100	9.08	32.26	8.56	0.52	23.70
None or unknown	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁴					
0–33	‡	‡	‡	‡	‡
34–36	‡	‡	‡	‡	‡
37 or more	‡	‡	‡	‡	‡
Unknown	99.58	95.61	99.59	-0.01	-3.98
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁴					
0–11	‡	‡	‡	‡	‡
12–34	‡	‡	‡	‡	‡
35–81	‡	‡	‡	‡	‡
82 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-43. Institution-level study analysis after poststratification for selected variables—private nonprofit less-than-4-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Average amount of grant and scholarship aid received ⁴					
\$0–\$4,895	0.41	13.15	0.49	-0.08	12.66
\$4,896–\$5,425	‡	‡	‡	‡	‡
\$5,426–\$5,995	‡	‡	‡	‡	‡
\$5,996 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁴					
0–26	‡	‡	‡	‡	‡
27–50	2.21	19.93	2.18	0.03	17.75
51–70	‡	‡	‡	‡	‡
71 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than five unweighted nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the institution base weight adjusted for nonresponse.² Mean is calculated using the student base weight adjusted for nonresponse and poststratification.

³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.

⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-44. Institution-level study analysis after poststratification for selected variables—private nonprofit 4-year, non-doctorate-granting undergraduate-enrolling institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Carnegie classification 2015: Basic					
Associate's	‡	‡	‡	‡	‡
Research and doctoral	‡	‡	‡	‡	‡
Master's	17.23	23.25	17.51	-0.28	5.74
Baccalaureate	53.30	51.79	53.73	-0.43	-1.94
Special focus and other	24.25	20.12	23.87	0.38	-3.75
Unavailable or unknown	‡	‡	‡	‡	‡
Degree of urbanization					
Large city	15.86	19.93	15.99	-0.13	3.94
Midsize city	8.19	8.15	8.17	0.02	-0.02
Small city	12.42	14.60	12.65	-0.23	1.95
Large suburb	19.42	22.10	19.42	#	2.68
Midsize suburb	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡
Urban area distant from town	15.80	14.78	15.81	-0.01	-1.03
Urban area remote from town	6.36	7.23	6.51	-0.15	0.72
Rural area on fringe of town	5.47	4.61	5.55	-0.08	-0.94
Rural area distant from town	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ³					
New England	6.87	8.87	6.71	0.16	2.16
Mideast	15.80	15.80	16.59	-0.79*	-0.79
Great Lakes	22.27	16.03	21.87	0.40	-5.84
Plains	14.75	13.24	14.71	0.04	-1.47
Southeast	23.13	25.01	23.10	0.03	1.91
Southwest	2.95	4.37	3.04	-0.09	1.33
Rocky Mountains	‡	‡	‡	‡	‡
Far West	5.12	9.68	5.21	-0.09	4.47
Outlying Areas	‡	‡	‡	‡	‡
Historically Black College or University					
Yes	‡	‡	‡	‡	‡
No or unavailable or unknown	93.07	93.12	93.03	0.04	0.09
Hispanic-Serving Institution					
Yes	‡	‡	‡	‡	‡
No	89.27	90.50	89.72	-0.45	0.78
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁴					
0–3	27.80	18.04	26.80	1.00*	-8.76
4–7	28.54	28.63	29.05	-0.51*	-0.42
8–16	20.51	26.49	20.74	-0.23	5.75
17 or more	22.68	26.25	22.94	-0.26	3.31
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-44. Institution-level study analysis after poststratification for selected variables—private nonprofit 4-year, non-doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students enrolled: Asian or Pacific Islander ⁴					
0–1	43.35	37.93	42.43	0.92*	-4.50
2	16.47	20.97	16.81	-0.34	4.16
3–4	20.24	21.25	20.63	-0.39*	0.62
5 or more	19.48	19.25	19.66	-0.18	-0.41
Unknown	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Hispanic ⁴					
0–4	32.68	29.21	32.38	0.30	-3.17
5–7	22.04	21.95	22.39	-0.35	-0.44
8–11	18.52	18.50	18.70	-0.18	-0.20
12 or more	26.31	29.75	26.07	0.24	3.68
Unknown	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁴					
1–775	31.38	29.03	30.59	0.79*	-1.56
776–1,392	24.80	27.48	25.10	-0.30	2.38
1,393–2,068	24.61	24.71	24.96	-0.35	-0.25
2,069 or more	19.22	18.78	19.34	-0.12	-0.56
Total male undergraduate enrollment ⁴					
1–306	34.28	31.79	33.62	0.66	-1.83
307–568	24.92	27.19	25.12	-0.20	2.07
569–918	19.82	22.87	20.14	-0.32	2.73
919 or more	20.98	18.15	21.13	-0.15	-2.98
Total female undergraduate enrollment ⁴					
1–413	31.66	26.64	30.90	0.76	-4.26
414–763	24.91	28.61	25.15	-0.24	3.46
764–1,186	23.05	24.18	23.38	-0.33	0.80
1,187 or more	20.38	20.56	20.57	-0.19	-0.01
Percentage of undergraduate students receiving federal grant aid ⁴					
1–33	21.62	23.20	21.94	-0.32	1.26
34–50	20.96	23.23	21.02	-0.06	2.21
51–80	19.82	23.50	20.18	-0.36	3.32
81 or more	32.43	22.65	31.61	0.82*	-8.96
None or unknown	5.16	7.42	5.25	-0.09	2.17
Percentage of undergraduate students receiving state/local grant aid ⁴					
1–10	19.73	22.68	19.88	-0.15	2.80
11–25	18.04	19.62	17.91	0.13	1.71
26–46	25.41	27.20	25.98	-0.57*	1.22
47 or more	31.66	23.08	30.99	0.67	-7.91
None or unknown	5.16	7.42	5.25	-0.09	2.17

See notes at end of table.

Table M-44. Institution-level study analysis after poststratification for selected variables—private nonprofit 4-year, non-doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students receiving institution grant aid ⁴					
1–79	37.18	29.03	36.42	0.76*	-7.39
80–98	21.92	22.60	22.43	-0.51*	0.17
99–100	35.74	40.95	35.90	-0.16	5.05
None or unknown	5.16	7.42	5.25	-0.09	2.17
Percentage of undergraduate students receiving student loan aid ⁴					
1–51	31.65	23.57	30.85	0.80*	-7.28
52–68	21.26	23.41	21.58	-0.32	1.83
69–77	21.50	21.99	21.68	-0.18	0.31
78 or more	20.44	23.61	20.64	-0.20	2.97
None or unknown	5.16	7.42	5.25	-0.09	2.17
Average net price among students receiving grant or scholarship aid ⁴					
\$1–\$17,785	34.48	26.26	33.66	0.82*	-7.40
\$17,786–\$22,359	15.35	19.98	15.42	-0.07	4.56*
\$22,360–\$26,628	22.95	23.34	23.29	-0.34	0.05
\$26,629 or more	22.06	22.86	22.38	-0.32	0.48
None or unknown	5.16	7.56	5.25	-0.09	2.31
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁴					
1–95	38.91	32.72	38.77	0.14	-6.05
96–99	20.16	23.65	20.33	-0.17	3.32
100	37.77	38.13	37.75	0.02	0.38
None or unknown	3.16	5.50	3.14	0.02	2.36
Number of full-time, first-time undergraduate students living on campus ⁴					
0–137	14.29	20.44	14.33	-0.04	6.11*
138–233	19.15	21.18	19.40	-0.25	1.78
234–369	21.60	19.74	21.85	-0.25	-2.11
370 or more	17.93	17.15	18.15	-0.22	-1.00
Unknown	27.03	21.48	26.28	0.75	-4.80
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁴					
0–26	27.25	22.13	26.55	0.70	-4.42
27–43	22.44	25.66	23.14	-0.70*	2.52
44–72	25.19	23.89	25.14	0.05	-1.25
73 or more	18.89	19.63	18.82	0.07	0.81
Unknown	6.23	8.69	6.36	-0.13	2.33

See notes at end of table.

Table M-44. Institution-level study analysis after poststratification for selected variables—private nonprofit 4-year, non-doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Average amount of grant and scholarship aid received ⁴					
\$0–\$11,821	36.94	28.41	36.26	0.68	-7.85
\$11,822–\$19,702	18.45	21.55	18.74	-0.29	2.81
\$19,703–\$26,070	19.55	23.32	19.73	-0.18	3.59
\$26,071 or more	21.76	21.09	22.00	-0.24	-0.91
Unknown	3.30	5.64	3.28	0.02	2.36
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁴					
0–40	31.38	23.87	30.79	0.59	-6.92
41–54	18.62	20.60	18.80	-0.18	1.80
55–69	19.23	24.08	19.44	-0.21	4.64
70 or more	26.68	23.47	26.90	-0.22	-3.43
Unknown	4.10	7.99	4.07	0.03	3.92

Rounds to zero.

‡ Reporting standards not met (fewer than five unweighted nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the institution base weight adjusted for nonresponse.² Mean is calculated using the student base weight adjusted for nonresponse and poststratification.

³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.

⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-45. Institution-level study analysis after poststratification for selected variables—private nonprofit 4-year, doctorate-granting undergraduate-enrolling institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Carnegie classification 2015: Basic					
Associate's	‡	‡	‡	‡	‡
Research and doctoral	19.14	17.95	19.24	-0.10	-1.29
Master's	43.20	43.75	43.41	-0.21	0.34
Baccalaureate	8.15	6.38	7.99	0.16*	-1.61
Special focus and other	29.52	31.75	29.35	0.17	2.40
Unavailable or unknown	‡	‡	‡	‡	‡
Degree of urbanization					
Large city	31.00	33.32	31.16	-0.16	2.16
Midsize city	14.68	13.40	14.42	0.26	-1.02
Small city	12.87	11.39	12.83	0.04	-1.44
Large suburb	25.34	27.86	25.43	-0.09	2.43
Midsize suburb	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡
Urban area distant from town	5.06	4.85	5.11	-0.05	-0.26
Urban area remote from town	‡	‡	‡	‡	‡
Rural area on fringe of town	‡	‡	‡	‡	‡
Rural area distant from town	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ³					
New England	6.30	7.89	6.12	0.18*	1.77
Mideast	16.94	18.05	17.42	-0.48*	0.63
Great Lakes	21.03	21.64	20.88	0.15	0.76
Plains	10.66	9.21	10.57	0.09	-1.36
Southeast	22.24	18.88	22.02	0.22	-3.14
Southwest	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡
Far West	10.56	14.33	10.71	-0.15	3.62
Outlying Areas	‡	‡	‡	‡	‡
Historically Black College or University					
Yes	‡	‡	‡	‡	‡
No or unavailable or unknown	97.34	97.79	97.41	-0.07	0.38
Hispanic-Serving Institution					
Yes	11.29	10.20	11.10	0.19	-0.90
No	88.71	89.80	88.90	-0.19	0.90
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁴					
0–4	25.02	24.68	24.85	0.17	-0.17
5–7	20.03	21.95	20.10	-0.07	1.85
8–12	20.60	17.76	20.68	-0.08	-2.92
13 or more	23.00	24.11	23.02	-0.02	1.09
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-45. Institution-level study analysis after poststratification for selected variables—private nonprofit 4-year, doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students enrolled: Asian or Pacific Islander ⁴					
0–2	37.27	33.74	36.81	0.46*	-3.07
3	15.64	13.68	15.94	-0.30*	-2.26
4–7	16.88	18.93	17.00	-0.12	1.93
8 or more	18.86	22.15	18.90	-0.04	3.25
Unknown	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Hispanic ⁴					
0–5	22.14	27.43	22.20	-0.06	5.23
6–9	20.05	17.87	19.81	0.24	-1.94
10–14	18.75	17.22	18.77	-0.02	-1.55
15 or more	27.70	25.98	27.87	-0.17	-1.89
Unknown	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁴					
1–1,448	39.64	40.13	39.39	0.25	0.74
1,449–2,936	22.14	22.96	22.13	0.01	0.83
2,937–5,459	20.45	19.46	20.48	-0.03	-1.02
5,460 or more	17.77	17.45	18.00	-0.23*	-0.55
Total male undergraduate enrollment ⁴					
1–526	40.60	41.56	40.22	0.38	1.34
527–1,151	21.44	21.62	21.60	-0.16	0.02
1,152–2,357	20.85	19.77	20.89	-0.04	-1.12
2,358 or more	17.11	17.05	17.29	-0.18	-0.24
Total female undergraduate enrollment ⁴					
1–889	40.12	40.26	39.90	0.22	0.36
890–1,777	21.99	23.24	21.99	#	1.25
1,778–3,054	20.25	18.92	20.21	0.04	-1.29
3,055 or more	17.65	17.58	17.90	-0.25*	-0.32
Percentage of undergraduate students receiving federal grant aid ⁴					
1–25	18.15	21.95	18.34	-0.19	3.61
26–44	16.46	17.44	16.42	0.04	1.02
45–72	23.50	22.95	23.67	-0.17	-0.72
73 or more	23.55	21.89	23.23	0.32	-1.34
None or unknown	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving state/local grant aid ⁴					
1–8	22.24	25.03	21.97	0.27	3.06
9–24	16.66	17.22	16.70	-0.04	0.52
25–42	20.64	21.45	20.74	-0.10	0.71
43 or more	22.12	20.54	22.25	-0.13	-1.71
None or unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-45. Institution-level study analysis after poststratification for selected variables—private nonprofit 4-year, doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students receiving institution grant aid ⁴					
1–77	19.83	22.83	19.57	0.26	3.26
78–97	24.98	25.74	25.30	-0.32	0.44
98–99	16.38	17.05	16.26	0.12	0.79
100	20.47	18.61	20.53	-0.06	-1.92
None or unknown	‡	‡	‡	‡	‡
Percentage of undergraduate students receiving student loan aid ⁴					
1–46	20.14	22.39	19.90	0.24	2.49
47–62	19.68	20.22	19.98	-0.30*	0.24
63–72	20.99	21.21	21.04	-0.05	0.17
73 or more	20.85	20.42	20.74	0.11	-0.32
None or unknown	‡	‡	‡	‡	‡
Average net price among students receiving grant or scholarship aid ⁴					
\$1–\$19,342	27.57	23.77	27.34	0.23	-3.57
\$19,343–\$24,386	18.10	17.81	18.09	0.01	-0.28
\$24,387–\$29,981	19.75	19.91	19.80	-0.05	0.11
\$29,982 or more	16.25	17.60	16.44	-0.19	1.16
None or unknown	18.34	20.91	18.34	#	2.57
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁴					
1–90	22.48	25.52	22.73	-0.25	2.79
91–98	23.30	21.79	23.04	0.26	-1.25
99–100	35.88	36.80	35.89	-0.01	0.91
None or unknown	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁴					
0–194	21.43	22.34	21.34	0.09	1.00
195–415	19.54	17.01	19.53	0.01	-2.52
416–738	19.41	17.66	19.39	0.02	-1.73
739 or more	14.29	15.52	14.55	-0.26*	0.97
Unknown	25.33	27.47	25.19	0.14	2.28
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁴					
0–43	22.99	22.14	22.81	0.18	-0.67
44–68	21.03	19.90	20.95	0.08	-1.05
69–124	20.86	19.81	21.04	-0.18	-1.23
125 or more	16.62	17.08	16.68	-0.06	0.40
Unknown	18.51	21.07	18.51	#	2.56

See notes at end of table.

Table M-45. Institution-level study analysis after poststratification for selected variables—private nonprofit 4-year, doctorate-granting undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Average amount of grant and scholarship aid received ⁴					
\$0–\$15,784	23.56	22.00	23.31	0.25	-1.31
\$15,785–\$22,032	17.44	18.94	17.65	-0.21	1.29
\$22,033–\$27,903	21.34	20.62	21.38	-0.04	-0.76
\$27,904 or more	19.32	17.57	19.31	0.01	-1.74
Unknown	18.34	20.87	18.34	#	2.53
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁴					
0–50	23.57	23.48	23.68	-0.11	-0.20
51–62	19.95	19.06	19.86	0.09	-0.80
63–75	19.31	19.39	19.16	0.15	0.23
76 or more	19.65	22.26	19.79	-0.14	2.47
Unknown	17.51	15.81	17.51	#	-1.70

Rounds to zero.

‡ Reporting standards not met (fewer than five unweighted nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the institution base weight adjusted for nonresponse.² Mean is calculated using the student base weight adjusted for nonresponse and poststratification.

³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.

⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-46. Institution-level study analysis after poststratification for selected variables—private for-profit less-than-2-year undergraduate-enrolling institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Degree of urbanization					
Large city	17.93	25.50	18.03	-0.10	7.47
Midsized city	9.69	17.17	9.66	0.03	7.51
Small city	33.17	14.49	33.54	-0.37	-19.05*
Large suburb	24.95	27.55	24.62	0.33	2.93
Midsized suburb	5.11	4.63	5.13	-0.02	-0.50
Small suburb	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡
Urban area distant from town	‡	‡	‡	‡	‡
Urban area remote from town	0.63	3.07	0.62	0.01	2.45
Rural area on fringe of town	1.43	1.24	1.36	0.07	-0.12
Rural area distant from town	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ³					
New England	6.56	3.59	6.48	0.08	-2.89
Mideast	14.58	10.70	14.41	0.17	-3.71
Great Lakes	15.87	15.15	16.16	-0.29	-1.01
Plains	3.03	4.55	2.98	0.05	1.57
Southeast	37.98	22.85	37.83	0.15	-14.98
Southwest	7.45	14.58	7.58	-0.13	7.00
Rocky Mountains	2.45	3.98	2.41	0.04*	1.57
Far West	12.08	20.53	12.14	-0.06	8.39
Outlying Areas	‡	‡	‡	‡	‡
Hispanic-Serving Institution					
Yes	28.23	40.94	28.08	0.15	12.86
No	71.77	59.06	71.92	-0.15	-12.86
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁴					
0–2	13.67	18.38	13.61	0.06	4.77
3–15	21.31	28.89	21.25	0.06	7.64
16–40	38.54	32.77	38.83	-0.29	-6.06
41 or more	26.48	18.89	26.31	0.17	-7.42
Unknown	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Asian or Pacific Islander ⁴					
0	37.72	29.78	37.65	0.07	-7.87
1	14.18	13.65	14.08	0.10	-0.43
2–3	20.29	24.97	20.90	-0.61	4.07
4 or more	27.81	30.52	27.37	0.44	3.15
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-46. Institution-level study analysis after poststratification for selected variables—private for-profit less-than-2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students enrolled: Hispanic ⁴					
0–3	26.43	17.66	26.38	0.05	-8.72
4–8	17.47	16.23	17.86	-0.39	-1.63
9–24	23.08	23.24	22.72	0.36	0.52
25 or more	33.02	41.79	33.04	-0.02	8.75
Unknown	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁴					
1–97	32.50	28.20	32.30	0.20	-4.10
98–210	26.01	32.92	25.83	0.18	7.09
211–402	16.08	20.93	16.26	-0.18	4.67
403 or more	25.41	17.95	25.60	-0.19	-7.65
Total male undergraduate enrollment ⁴					
1–5	40.94	36.55	40.63	0.31	-4.08
6–19	15.91	17.88	15.88	0.03	2.00
20–57	25.53	26.32	25.56	-0.03	0.76
58 or more	17.62	19.24	17.92	-0.30	1.32
Total female undergraduate enrollment ⁴					
1–71	31.34	27.47	31.10	0.24	-3.63
72–171	26.16	34.35	25.91	0.25	8.44
172–300	9.41	19.53	9.20	0.21	10.33
301 or more	33.08	18.65	33.79	-0.71	-15.14*
Percentage of undergraduate students receiving federal grant aid ⁴					
1–59	29.63	23.90	28.98	0.65*	-5.08
60–75	28.44	18.61	29.26	-0.82*	-10.65
76–90	27.00	31.01	27.17	-0.17	3.84
91 or more	10.73	23.12	10.55	0.18	12.57*
None or unknown	4.20	3.36	4.04	0.16	-0.68
Percentage of undergraduate students receiving state/local grant aid ⁴					
0	65.38	74.39	65.57	-0.19	8.82
1–3	11.26	6.84	11.24	0.02	-4.40
4 or more	19.16	15.41	19.15	0.01	-3.74
None or unknown	4.20	3.36	4.04	0.16	-0.68
Percentage of undergraduate students receiving institution grant aid ⁴					
0	48.16	58.37	47.92	0.24	10.45
1–18	13.51	14.37	13.83	-0.32	0.54
19 or more	34.14	23.90	34.22	-0.08	-10.32
None or unknown	4.20	3.36	4.04	0.16	-0.68

See notes at end of table.

Table M-46. Institution-level study analysis after poststratification for selected variables—private for-profit less-than-2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students receiving student loan aid ⁴					
1–62	17.31	30.72	17.23	0.08	13.49
63–74	36.60	17.21	36.43	0.17	-19.22*
75–86	30.35	28.88	30.79	-0.44	-1.91
87 or more	11.55	19.84	11.52	0.03	8.32
None or unknown	4.20	3.36	4.04	0.16	-0.68
Average net price among students receiving grant or scholarship aid ⁴					
\$1–\$13,568	23.18	28.93	22.94	0.24	5.99
\$13,569–\$16,625	14.34	24.87	14.34	#	10.53
\$16,626–\$20,274	29.86	23.56	29.83	0.03	-6.27
\$20,275 or more	28.42	19.20	28.85	-0.43	-9.65
None or unknown	4.20	3.44	4.04	0.16	-0.60
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁴					
1–62	19.07	17.73	19.51	-0.44	-1.78
63–72	14.20	19.20	14.02	0.18	5.18
73–85	23.81	28.06	23.61	0.20	4.45
86 or more	41.24	33.35	41.25	-0.01	-7.90
None or unknown	1.68	1.66	1.61	0.07	0.05
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁴					
0–12	25.02	37.77	24.72	0.30	13.05
13–24	23.63	23.29	23.51	0.12	-0.22
25–54	16.46	17.17	16.23	0.23	0.94
55 or more	30.70	18.33	31.50	-0.80*	-13.17
Unknown	4.20	3.44	4.04	0.16	-0.60
Average amount of grant and scholarship aid received ⁴					
\$0–\$4,175	22.78	21.93	23.16	-0.38	-1.23
\$4,176–\$4,843	25.53	17.61	25.29	0.24	-7.68
\$4,844–\$5,437	32.86	22.20	33.14	-0.28	-10.94
\$5,438 or more	17.15	36.44	16.80	0.35*	19.64*
Unknown	1.68	1.82	1.61	0.07	0.21

See notes at end of table.

Table M-46. Institution-level study analysis after poststratification for selected variables—private for-profit less-than-2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁴					
0–59	36.59	22.09	36.63	-0.04	-14.54
60–70	31.29	23.95	31.35	-0.06	-7.40
71–79	17.12	30.61	16.93	0.19	13.68
80 or more	13.22	20.39	13.37	-0.15	7.02
Unknown	1.79	2.95	1.71	0.08	1.24

Rounds to zero.

‡ Reporting standards not met (fewer than five unweighted nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the institution base weight adjusted for nonresponse.² Mean is calculated using the student base weight adjusted for nonresponse and poststratification.

³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.

⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-47. Institution-level study analysis after poststratification for selected variables—private for-profit 2-year undergraduate-enrolling institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Carnegie classification 2015: Basic					
Associate's	76.15	70.09	76.04	0.11	-5.95
Research and doctoral	‡	‡	‡	‡	‡
Master's	‡	‡	‡	‡	‡
Baccalaureate	‡	‡	‡	‡	‡
Special focus and other	‡	‡	‡	‡	‡
Unavailable or unknown	23.64	29.70	23.74	-0.10	5.96
Degree of urbanization					
Large city	12.31	21.87	12.47	-0.16	9.40
Midsized city	4.35	5.01	4.36	-0.01	0.65
Small city	11.47	7.56	11.56	-0.09	-4.00
Large suburb	58.25	40.84	57.79	0.46	-16.95
Midsized suburb	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡
Urban area distant from town	‡	‡	‡	‡	‡
Urban area remote from town	0.18	6.41	0.18	#	6.23
Rural area on fringe of town	‡	‡	‡	‡	‡
Rural area distant from town	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ³					
New England	‡	‡	‡	‡	‡
Mideast	‡	‡	‡	‡	‡
Great Lakes	‡	‡	‡	‡	‡
Plains	3.25	8.70	3.25	#	5.45
Southeast	59.15	29.77	58.78	0.37	-29.01*
Southwest	5.21	10.97	5.33	-0.12	5.64
Rocky Mountains	2.57	4.87	2.62	-0.05	2.25
Far West	12.69	15.20	12.78	-0.09	2.42
Outlying Areas	‡	‡	‡	‡	‡
Hispanic-Serving Institution					
Yes	15.54	28.85	15.98	-0.44	12.87
No	84.46	71.15	84.02	0.44	-12.87
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁴					
0–3	8.38	22.32	8.52	-0.14	13.80
4–11	23.26	19.00	23.67	-0.41*	-4.67
12–27	53.02	39.77	52.24	0.78*	-12.47
28 or more	14.83	15.01	15.11	-0.28*	-0.10
Unknown	0.50	3.90	0.46	0.04	3.44

See notes at end of table.

Table M-47. Institution-level study analysis after poststratification for selected variables—private for-profit 2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students enrolled: Asian or Pacific Islander ⁴					
0–1	33.81	41.41	34.52	-0.71*	6.89
2	2.46	12.34	2.43	0.03	9.91*
3–4	20.58	14.53	20.72	-0.14	-6.19
5 or more	42.65	27.83	41.87	0.78*	-14.04
Unknown	0.50	3.90	0.46	0.04	3.44
Percentage of undergraduate students enrolled: Hispanic ⁴					
0–5	52.93	31.83	52.35	0.58	-20.52
6–15	24.69	25.00	24.85	-0.16	0.15
16–31	7.91	17.46	7.84	0.07	9.62
32 or more	13.98	21.81	14.50	-0.52	7.31
Unknown	0.50	3.90	0.46	0.04	3.44
Total undergraduate enrollment ⁴					
1–208	51.03	35.88	50.21	0.82*	-14.33
209–609	22.78	27.32	23.04	-0.26	4.28
610–1,087	18.05	23.89	18.64	-0.59*	5.25
1,088 or more	8.14	12.91	8.11	0.03	4.80
Total male undergraduate enrollment ⁴					
1–21	41.21	18.42	40.35	0.86*	-21.93
22–93	24.22	26.45	24.48	-0.26	1.97
94–309	13.64	29.62	14.17	-0.53	15.45
310 or more	20.93	25.50	21.01	-0.08	4.49
Total female undergraduate enrollment ⁴					
1–111	24.21	28.61	24.31	-0.10	4.30
112–272	50.75	35.17	50.05	0.70*	-14.88
273–663	13.51	22.48	13.96	-0.45	8.52
664 or more	11.52	13.74	11.67	-0.15	2.07
Percentage of undergraduate students receiving federal grant aid ⁴					
1–67	24.46	17.92	24.78	-0.32	-6.86
68–76	13.28	31.02	13.52	-0.24	17.50*
77–90	10.10	20.21	10.23	-0.13	9.98
91 or more	21.35	21.86	21.59	-0.24	0.27
None or unknown	30.80	8.99	29.89	0.91*	-20.90
Percentage of undergraduate students receiving state/local grant aid ⁴					
0	26.97	30.28	27.33	-0.36	2.95
1–2	16.56	12.01	16.85	-0.29	-4.84
3–10	9.50	15.83	9.66	-0.16	6.17
11 or more	16.17	32.90	16.27	-0.10	16.63*
None or unknown	30.80	8.99	29.89	0.91*	-20.90

See notes at end of table.

Table M-47. Institution-level study analysis after poststratification for selected variables—private for-profit 2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students receiving institution grant aid ⁴					
0	21.86	31.42	21.93	-0.07	9.49
1	12.78	10.08	12.96	-0.18	-2.88
2–23	24.15	25.63	24.80	-0.65*	0.83
24 or more	10.41	23.89	10.43	-0.02	13.46*
None or unknown	30.80	8.99	29.89	0.91*	-20.90
Percentage of undergraduate students receiving student loan aid ⁴					
1–67	33.61	37.78	33.83	-0.22	3.95
68–76	8.21	15.07	8.37	-0.16	6.70
77–84	17.85	25.66	18.26	-0.41	7.40
85 or more	9.53	12.51	9.65	-0.12	2.86
None or unknown	30.80	8.99	29.89	0.91*	-20.90
Average net price among students receiving grant or scholarship aid ⁴					
\$1–\$14,767	17.03	21.86	17.06	-0.03	4.80
\$14,768–\$20,156	10.60	12.34	10.82	-0.22*	1.52
\$20,157–\$22,972	10.69	25.33	10.83	-0.14	14.50*
\$22,973 or more	30.70	31.30	31.23	-0.53*	0.07
None or unknown	30.98	9.17	30.07	0.91*	-20.90
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁴					
1–59	24.01	21.49	24.20	-0.19	-2.71
60–73	14.13	20.30	14.46	-0.33	5.84
74–85	10.19	28.64	10.35	-0.16	18.29*
86 or more	21.20	20.88	21.38	-0.18	-0.50
None or unknown	30.48	8.70	29.61	0.87*	-20.91
Number of full-time, first-time undergraduate students living on campus ⁴					
0	‡	‡	‡	‡	‡
1–8	‡	‡	‡	‡	‡
9–59	‡	‡	‡	‡	‡
60 or more	‡	‡	‡	‡	‡
Unknown	86.54	87.76	86.34	0.20	1.42
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁴					
0–16	33.18	36.87	33.38	-0.20	3.49
17–55	11.90	17.26	12.06	-0.16	5.20
56–97	8.48	18.81	8.64	-0.16	10.17
98 or more	15.46	17.89	15.86	-0.40	2.03
Unknown	30.98	9.17	30.07	0.91*	-20.90

See notes at end of table.

Table M-47. Institution-level study analysis after poststratification for selected variables—private for-profit 2-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Average amount of grant and scholarship aid received ⁴					
\$0–\$4,149	21.58	25.27	21.67	-0.09	3.60
\$4,150–\$4,779	15.22	20.34	15.75	-0.53*	4.59
\$4,780–\$5,500	12.64	10.27	12.81	-0.17	-2.54
\$5,501 or more	19.91	34.84	19.98	-0.07	14.86
Unknown	30.66	9.28	29.79	0.87*	-20.51
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁴					
0–56	15.37	17.22	15.53	-0.16	1.69
57–66	23.43	21.59	23.79	-0.36	-2.20
67–75	11.96	18.46	12.06	-0.10	6.40
76 or more	18.94	34.22	19.18	-0.24	15.04
Unknown	30.30	8.52	29.43	0.87*	-20.91

Rounds to zero.

‡ Reporting standards not met (fewer than five unweighted nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the institution base weight adjusted for nonresponse.² Mean is calculated using the student base weight adjusted for nonresponse and poststratification.

³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.

⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-48. Institution-level study analysis after poststratification for selected variables—private for-profit 4-year undergraduate-enrolling institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Carnegie classification 2015: Basic					
Associate's	‡	‡	‡	‡	‡
Research and doctoral	‡	‡	‡	‡	‡
Master's	19.36	12.24	19.27	0.09	-7.03
Baccalaureate	2.59	15.83	2.69	-0.10	13.14*
Special focus and other	41.31	41.33	42.08	-0.77*	-0.75
Unavailable or unknown	‡	‡	‡	‡	‡
Degree of urbanization					
Large city	45.03	50.12	45.72	-0.69*	4.40
Midsized city	18.67	19.13	18.36	0.31	0.77
Small city	2.94	5.62	2.70	0.24	2.92*
Large suburb	31.30	20.56	31.18	0.12	-10.62
Midsized suburb	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡
Urban area distant from town	‡	‡	‡	‡	‡
Urban area remote from town	‡	‡	‡	‡	‡
Rural area on fringe of town	‡	‡	‡	‡	‡
Rural area distant from town	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ³					
New England	‡	‡	‡	‡	‡
Mideast	‡	‡	‡	‡	‡
Great Lakes	‡	‡	‡	‡	‡
Plains	2.60	5.52	2.56	0.04	2.96*
Southeast	16.24	23.57	15.67	0.57*	7.90
Southwest	4.74	16.13	4.72	0.02	11.41
Rocky Mountains	‡	‡	‡	‡	‡
Far West	19.42	15.23	19.61	-0.19	-4.38
Outlying Areas	‡	‡	‡	‡	‡
Hispanic-Serving Institution					
Yes	22.08	26.60	22.05	0.03	4.55
No	77.92	73.40	77.95	-0.03	-4.55
Percentage of undergraduate students enrolled: Black, non-Hispanic ⁴					
0–7	21.91	19.97	22.64	-0.73	-2.67
8–17	43.50	32.15	43.46	0.04	-11.31
18–36	18.54	27.33	18.12	0.42	9.21
37 or more	11.12	15.90	10.78	0.34*	5.12
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-48. Institution-level study analysis after poststratification for selected variables—private for-profit 4-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students enrolled: Asian or Pacific Islander ⁴					
0–1	24.50	33.13	24.38	0.12	8.75
2	10.56	15.30	10.63	-0.07	4.67
3–4	16.32	10.24	16.16	0.16	-5.92
5 or more	43.69	36.67	43.83	-0.14	-7.16
Unknown	‡	‡	‡	‡	‡
Percentage of undergraduate students enrolled: Hispanic ⁴					
0–4	13.04	13.66	12.84	0.20	0.82
5–8	22.61	18.39	22.45	0.16	-4.06
9–17	30.77	25.63	31.27	-0.50	-5.64
18 or more	28.64	37.66	28.45	0.19	9.21
Unknown	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁴					
1–597	49.97	35.56	50.33	-0.36	-14.77*
598–1,291	16.93	30.34	16.21	0.72*	14.13*
1,292–4,377	25.17	23.45	25.58	-0.41	-2.13
4,378 or more	7.92	10.65	7.89	0.03	2.76
Total male undergraduate enrollment ⁴					
1–108	48.44	40.60	48.80	-0.36	-8.20
109–328	11.96	24.88	11.68	0.28	13.20*
329–1,083	28.96	22.07	28.78	0.18	-6.71
1,084 or more	10.64	12.45	10.73	-0.09	1.72
Total female undergraduate enrollment ⁴					
1–344	48.37	40.22	48.82	-0.45	-8.60
345–948	22.99	31.29	22.43	0.56	8.86
949–3,395	20.71	17.85	20.86	-0.15	-3.01
3,396 or more	7.92	10.65	7.89	0.03	2.76
Percentage of undergraduate students receiving federal grant aid ⁴					
1–59	34.15	33.55	34.59	-0.44	-1.04
60–75	14.70	15.63	14.79	-0.09	0.84
76–85	10.49	15.33	10.43	0.06	4.90
86 or more	21.01	24.42	20.53	0.48*	3.89
None or unknown	19.65	11.07	19.66	-0.01	-8.59
Percentage of undergraduate students receiving state/local grant aid ⁴					
0	45.67	52.79	45.44	0.23	7.35
1–11	19.80	13.74	19.96	-0.16	-6.22
12 or more	14.88	22.40	14.94	-0.06	7.46
None or unknown	19.65	11.07	19.66	-0.01	-8.59

See notes at end of table.

Table M-48. Institution-level study analysis after poststratification for selected variables—private for-profit 4-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of undergraduate students receiving institution grant aid ⁴					
0	38.79	28.24	37.99	0.80*	-9.75
1–16	9.14	15.92	9.31	-0.17	6.61
17–60	18.81	26.32	19.49	-0.68	6.83
61 or more	13.61	18.45	13.56	0.05	4.89
None or unknown	19.65	11.07	19.66	-0.01	-8.59
Percentage of undergraduate students receiving student loan aid ⁴					
1–60	28.50	33.72	28.51	-0.01	5.21
61–72	17.69	13.94	17.92	-0.23	-3.98
73–85	12.37	16.50	12.21	0.16	4.29
86 or more	21.80	24.77	21.70	0.10	3.07
None or unknown	19.65	11.07	19.66	-0.01	-8.59
Average net price among students receiving grant or scholarship aid ⁴					
\$1–\$17,192	11.30	10.23	11.06	0.24	-0.83
\$17,193–\$21,638	17.72	17.23	17.85	-0.13	-0.62
\$21,639–\$26,336	14.41	28.80	14.68	-0.27	14.12*
\$26,337 or more	25.63	26.24	25.94	-0.31	0.30
None or unknown	30.94	17.51	30.47	0.47	-12.96
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁴					
1–67	47.28	37.15	47.33	-0.05	-10.18
68–83	13.68	19.14	13.74	-0.06	5.40
84–93	7.01	17.54	7.03	-0.02	10.51
94 or more	12.66	15.81	12.45	0.21	3.36
None or unknown	19.36	10.35	19.45	-0.09	-9.10
Number of full-time, first-time undergraduate students living on campus ⁴					
0–37	‡	‡	‡	‡	‡
38–98	‡	‡	‡	‡	‡
99–128	‡	‡	‡	‡	‡
129 or more	‡	‡	‡	‡	‡
Unknown	97.15	96.04	97.11	0.04	-1.07
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁴					
0–7	30.49	30.68	30.55	-0.06	0.13
8–34	14.79	11.32	15.14	-0.35	-3.82
35–115	14.31	31.63	14.56	-0.25	17.07*
116 or more	9.47	9.23	9.28	0.19	-0.05
Unknown	30.94	17.15	30.47	0.47	-13.32

See notes at end of table.

Table M-48. Institution-level study analysis after poststratification for selected variables—private for-profit 4-year undergraduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Average amount of grant and scholarship aid received ⁴					
\$0–\$4,701	31.09	35.76	31.85	-0.76*	3.91
\$4,702–\$5,827	12.92	10.90	12.48	0.44	-1.58
\$5,828–\$7,126	20.00	24.27	19.60	0.40	4.67
\$7,127 or more	13.45	16.93	13.58	-0.13	3.35
Unknown	22.54	12.15	22.49	0.05	-10.34
Percentage of full-time, first-time degree/certificate-seeking undergraduate students graduating within 150 percent of normal time ⁴					
0–19	12.82	12.12	12.92	-0.10	-0.80
20–33	21.81	28.75	21.54	0.27	7.21
34–49	26.19	25.94	26.57	-0.38	-0.63
50 or more	28.59	22.92	28.70	-0.11	-5.78
Unknown	10.58	10.28	10.27	0.31	0.01

‡ Reporting standards not met (fewer than five unweighted nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the institution base weight adjusted for nonresponse.² Mean is calculated using the student base weight adjusted for nonresponse and poststratification.

³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.

⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-49. Institution-level nonresponse bias analysis for selected variables—all graduate-enrolling institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Control and level of institution			(Effect size = 0.10)				(Effect size = 0.05)		
Public 4-year, non-doctorate-granting, primarily subbaccalaureate	60	10	3.13	3.71	0.58*	18.40	3.89	0.76	24.29
Public 4-year, non-doctorate-granting, primarily baccalaureate	150	30	8.72	9.52	0.80	9.23	8.47	-0.25	-2.82
Public 4-year, doctorate-granting	340	50	18.63	21.53	2.90*	15.54	18.54	-0.10	-0.53
Private nonprofit 4-year, non-doctorate-granting	180	90	26.10	22.90	-3.20*	-12.27	25.80	-0.30	-1.16
Private nonprofit 4-year, doctorate-granting	300	100	32.80	31.88	-0.92	-2.80	32.96	0.17	0.51
Private for-profit 4-year	60	40	10.63	10.47	-0.15	-1.46	10.34	-0.28	-2.64
Carnegie classification 2015: Basic			(Effect size = ‡)				(Effect size = ‡)		
Associate's	‡	‡	‡	‡	‡	‡	‡	‡	‡
Research and doctoral	250	40	15.04	17.10	2.06*	13.71	15.56	0.52	3.46
Master's	450	130	35.32	35.48	0.16	0.44	35.77	0.45	1.26
Baccalaureate	190	70	17.71	16.85	-0.85	-4.83	17.56	-0.15	-0.83
Special focus and other	130	60	25.74	23.63	-2.12	-8.22	25.14	-0.61	-2.35
Unavailable or unknown	10	10	2.47	2.14	-0.33	-13.44	2.31	-0.16	-6.49
Degree of urbanization			(Effect size = ‡)				(Effect size = ‡)		
Large city	280	70	28.42	27.95	-0.47	-1.66	25.59	-2.83	-9.96
Midsized city	150	50	11.36	11.54	0.18	1.55	11.96	0.60	5.26
Small city	150	50	13.02	13.19	0.17	1.28	15.25	2.23	17.11
Large suburb	180	60	22.60	22.05	-0.55	-2.44	21.17	-1.43	-6.33
Midsized suburb	40	10	2.21	2.39	0.17	7.78	1.80	-0.41*	-18.72
Small suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area on fringe of town	40	10	2.55	3.00	0.45*	17.65	2.31	-0.24	-9.52
Urban area distant from town	100	30	7.61	7.56	-0.05	-0.66	9.54	1.93	25.38
Urban area remote from town	80	10	5.80	6.81	1.00*	17.27	5.24	-0.56	-9.69
Rural area on fringe of town	30	20	3.00	2.02	-0.99	-32.86	3.61	0.60	20.11
Rural area distant from town	10	10	0.99	0.74	-0.25	-25.52	0.80	-0.19	-19.49
Rural area remote from town	10	10	0.73	0.59	-0.14	-19.61	1.09	0.36	49.03

See notes at end of table.

Table M-49. Institution-level nonresponse bias analysis for selected variables—all graduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Bureau of Economic Analysis region ⁴					(Effect size = ‡)			(Effect size = ‡)	
New England	80	40	6.59	5.51	-1.08*	-16.36	7.72	1.12	17.03
Mideast	170	30	18.14	19.52	1.37	7.57	17.53	-0.61	-3.37
Great Lakes	150	50	17.28	17.86	0.58	3.36	15.75	-1.53	-8.85
Plains	120	40	9.47	9.53	0.06	0.67	9.53	0.06	0.67
Southeast	280	90	21.76	22.14	0.38	1.74	21.44	-0.31	-1.45
Southwest	100	20	7.34	8.07	0.73	10.00	8.53	1.20	16.29
Rocky Mountains	60	10	4.06	4.57	0.50	12.40	3.99	-0.08	-1.88
Far West	120	30	12.86	10.38	-2.48	-19.31	13.50	0.63	4.93
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡
Historically Black College or University					(Effect size = 0.03)			(Effect size = #)	
Yes	50	10	3.88	4.49	0.61	15.77	3.90	0.01	0.36
No or unavailable or unknown	1,040	310	96.12	95.51	-0.61	-0.64	96.10	-0.01	-0.01
Hispanic-Serving Institution					(Effect size = 0.02)			(Effect size = 0.03)	
Yes	160	30	13.87	14.69	0.81	5.87	12.81	-1.06	-7.64
No	930	300	86.13	85.31	-0.81	-0.95	87.19	1.06	1.23
Percentage of graduate students enrolled: Black, non-Hispanic ⁵					(Effect size = 0.06)			(Effect size = 0.11)	
0–3	280	80	26.72	26.23	-0.48	-1.80	27.07	0.35	1.32
4–7	260	80	25.46	23.38	-2.08	-8.17	24.11	-1.35	-5.29
8–14	220	70	18.96	19.81	0.85	4.49	17.56	-1.40	-7.38
15 or more	230	80	18.93	19.39	0.46	2.42	22.88	3.95*	20.88
Unknown	100	10	9.94	11.19	1.25	12.60	8.38	-1.56*	-15.70
Percentage of graduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁵					(Effect size = 0.07)			(Effect size = 0.12)	
0–1	230	90	21.74	20.81	-0.93	-4.28	20.27	-1.47	-6.77
2–3	280	90	23.42	24.09	0.66	2.83	28.24	4.82*	20.58
4–6	250	70	21.58	19.33	-2.25	-10.42	21.25	-0.33	-1.52
7 or more	230	60	23.33	24.59	1.26	5.42	21.87	-1.46	-6.26
Unknown	100	10	9.94	11.19	1.25	12.60	8.38	-1.56*	-15.70

See notes at end of table.

Table M-49. Institution-level nonresponse bias analysis for selected variables—all graduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Percentage of graduate students enrolled: Hispanic ⁵					(Effect size = 0.06)			(Effect size = 0.10)	
0–3	290	120	27.17	25.16	-2.01	-7.39	25.13	-2.03	-7.49
4–5	200	60	14.42	14.41	-0.01	-0.08	14.08	-0.34	-2.39
6–10	260	70	21.68	22.20	0.52	2.40	25.20	3.52*	16.26
11 or more	240	60	26.80	27.04	0.25	0.92	27.21	0.42	1.55
Unknown	100	10	9.94	11.19	1.25	12.60	8.38	-1.56*	-15.70
Total graduate enrollment ⁵					(Effect size = 0.06)			(Effect size = 0.05)	
1–226	250	90	29.13	28.67	-0.46	-1.59	29.45	0.31	1.08
227–895	260	90	29.36	29.54	0.18	0.61	30.77	1.42	4.82
896–2,854	270	80	22.62	20.78	-1.84	-8.13	20.67	-1.94	-8.59
2,855 or more	300	60	18.89	21.01	2.12*	11.24	19.11	0.21	1.13
Total male graduate enrollment ⁵					(Effect size = 0.05)			(Effect size = 0.02)	
1–74	250	90	29.52	29.17	-0.35	-1.20	29.50	-0.02	-0.07
75–307	270	90	30.38	29.44	-0.94	-3.10	31.10	0.71	2.35
308–1,016	270	80	21.76	21.19	-0.58	-2.64	21.08	-0.68	-3.13
1,017 or more	290	60	18.33	20.20	1.87*	10.20	18.32	-0.01	-0.06
Total female graduate enrollment ⁵					(Effect size = 0.05)			(Effect size = 0.02)	
1–140	250	90	31.33	31.76	0.42	1.34	32.06	0.72	2.30
141–576	260	90	27.13	26.23	-0.89	-3.30	27.07	-0.06	-0.21
577–1,715	280	80	22.40	21.09	-1.31	-5.84	21.90	-0.50	-2.22
1,716 or more	290	60	19.14	20.92	1.78*	9.31	18.97	-0.17	-0.87

See notes at end of table.

Table M-49. Institution-level nonresponse bias analysis for selected variables—all graduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Number of office and administrative employees ⁵					(Effect size = 0.11)			(Effect size = 0.26)	
0–31	230	120	34.70	30.00	-4.70*	-13.54	29.36	-5.34*	-15.40
32–75	260	70	26.39	27.87	1.48	5.59	27.42	1.03	3.90
76–194	270	70	19.17	20.69	1.52	7.90	18.72	-0.45	-2.35
195 or more	300	40	16.95	19.31	2.36*	13.91	17.61	0.66	3.88
Unknown	30	20	2.78	2.13	-0.65*	-23.37	6.89	4.11	147.77

Rounds to zero.

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the weighted difference between the respondent and full-sample means using the institution base weight.² Relative bias is defined as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the institution base weight adjusted for nonresponse) and weighted full-sample mean (using the institution base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-50. Institution-level nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate graduate-enrolling institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Carnegie classification 2015: Basic					(Effect size = ‡)			(Effect size = ‡)	
Associate's	‡	‡	‡	‡	‡	‡	‡	‡	‡
Research and doctoral	‡	‡	‡	‡	‡	‡	‡	‡	‡
Master's	‡	‡	‡	‡	‡	‡	‡	‡	‡
Baccalaureate	‡	‡	‡	‡	‡	‡	‡	‡	‡
Special focus and other	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unavailable or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Degree of urbanization					(Effect size = ‡)			(Effect size = ‡)	
Large city	‡	‡	‡	‡	‡	‡	‡	‡	‡
Midsize city	‡	‡	‡	‡	‡	‡	‡	‡	‡
Small city	‡	‡	‡	‡	‡	‡	‡	‡	‡
Large suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Midsize suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ⁴					(Effect size = ‡)			(Effect size = ‡)	
New England	‡	‡	‡	‡	‡	‡	‡	‡	‡
Mideast	‡	‡	‡	‡	‡	‡	‡	‡	‡
Great Lakes	‡	‡	‡	‡	‡	‡	‡	‡	‡
Plains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southeast	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southwest	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	‡	‡	‡	‡	‡	‡	‡	‡	‡
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-50. Institution-level nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate graduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Historically Black College or University					(Effect size = ‡)			(Effect size = ‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡
No or unavailable or unknown	60	10	100.00	100.00	#	#	100.00	#	#
Hispanic-Serving Institution					(Effect size = ‡)			(Effect size = ‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡
No	40	10	73.85	72.41	-1.43	-1.94	80.32	6.47*	8.77
Percentage of graduate students enrolled: Black, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0	‡	‡	‡	‡	‡	‡	‡	‡	‡
1–2	‡	‡	‡	‡	‡	‡	‡	‡	‡
3 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of graduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0	‡	‡	‡	‡	‡	‡	‡	‡	‡
1–3	‡	‡	‡	‡	‡	‡	‡	‡	‡
4 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of graduate students enrolled: Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0	‡	‡	‡	‡	‡	‡	‡	‡	‡
2–7	‡	‡	‡	‡	‡	‡	‡	‡	‡
8 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total graduate enrollment ⁵					(Effect size = ‡)			(Effect size = ‡)	
1	‡	‡	‡	‡	‡	‡	‡	‡	‡
2 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-50. Institution-level nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate graduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Total male graduate enrollment ⁵					(Effect size = ‡)			(Effect size = ‡)	
0	‡	‡	‡	‡	‡	‡	‡	‡	‡
1 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total female graduate enrollment ⁵					(Effect size = ‡)			(Effect size = ‡)	
0	‡	‡	‡	‡	‡	‡	‡	‡	‡
1 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of office and administrative employees ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–25	‡	‡	‡	‡	‡	‡	‡	‡	‡
26–80	‡	‡	‡	‡	‡	‡	‡	‡	‡
81–165	‡	‡	‡	‡	‡	‡	‡	‡	‡
166 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the weighted difference between the respondent and full-sample means using the institution base weight.² Relative bias is defined as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the institution base weight adjusted for nonresponse) and weighted full-sample mean (using the institution base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-51. Institution-level nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate graduate-enrolling institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Carnegie classification 2015: Basic					(Effect size = ‡)			(Effect size = ‡)	
Associate's	‡	‡	‡	‡	‡	‡	‡	‡	‡
Research and doctoral	‡	‡	‡	‡	‡	‡	‡	‡	‡
Master's	100	20	63.54	63.76	0.22	0.35	59.94	-3.59	-5.65
Baccalaureate	40	10	29.28	29.53	0.25	0.85	26.75	-2.53	-8.66
Special focus and other	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unavailable or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Degree of urbanization					(Effect size = ‡)			(Effect size = ‡)	
Large city	‡	‡	‡	‡	‡	‡	‡	‡	‡
Midsize city	‡	‡	‡	‡	‡	‡	‡	‡	‡
Small city	20	10	13.81	12.75	-1.06	-7.68	20.76	6.95	50.34
Large suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Midsize suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ⁴					(Effect size = ‡)			(Effect size = ‡)	
New England	‡	‡	‡	‡	‡	‡	‡	‡	‡
Mideast	‡	‡	‡	‡	‡	‡	‡	‡	‡
Great Lakes	10	10	8.84	7.38	-1.46	-16.48	7.41	-1.43	-16.18
Plains	10	10	10.50	7.38	-3.11*	-29.67	6.98	-3.52*	-33.50
Southeast	30	10	22.10	22.15	0.05	0.22	21.35	-0.75	-3.39
Southwest	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	‡	‡	‡	‡	‡	‡	‡	‡	‡
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-51. Institution-level nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate graduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Historically Black College or University					(Effect size = ‡)			(Effect size = ‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡
No or unavailable or unknown	140	30	95.03	94.63	-0.40	-0.42	95.03	0.01	0.01
Hispanic-Serving Institution					(Effect size = ‡)			(Effect size = ‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡
No	130	30	85.08	84.56	-0.52	-0.61	85.75	0.67	0.78
Percentage of graduate students enrolled: Black, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–3	30	10	22.65	22.82	0.17	0.74	27.40	4.75	20.98
4–5	40	10	28.73	26.85	-1.88	-6.56	24.94	-3.79	-13.20
6–10	20	10	17.68	16.11	-1.57	-8.89	15.56	-2.12	-12.01
11 or more	30	10	21.55	22.82	1.27	5.90	22.51	0.96	4.45
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of graduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–1	40	20	32.60	28.86	-3.74*	-11.47	33.69	1.09	3.34
2	30	10	19.34	17.45	-1.89	-9.76	17.97	-1.37	-7.07
3–4	‡	‡	‡	‡	‡	‡	‡	‡	‡
5 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of graduate students enrolled: Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–2	30	10	23.20	20.81	-2.40	-10.34	19.96	-3.25	-14.00
3–5	40	10	25.41	24.83	-0.58	-2.29	31.75	6.33	24.91
6–11	30	10	21.55	22.82	1.27	5.90	20.39	-1.15	-5.35
12 or more	30	10	20.44	20.13	-0.31	-1.51	18.31	-2.14	-10.45
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total graduate enrollment ⁵					(Effect size = 0.04)			(Effect size = 0.12)	
1–158	40	10	25.41	26.85	1.43	5.63	24.05	-1.37	-5.37
159–486	40	10	24.86	24.16	-0.70	-2.82	21.59	-3.27	-13.16
487–1,059	40	10	24.86	23.49	-1.37	-5.52	29.63	4.77	19.17
1,060 or more	40	10	24.86	25.50	0.64	2.58	24.73	-0.13	-0.51

See notes at end of table.

Table M-51. Institution-level nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate graduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Total male graduate enrollment ⁵					(Effect size = 0.06)			(Effect size = 0.09)	
1–56	40	10	25.41	26.17	0.76	2.99	23.42	-1.99	-7.83
57–134	40	10	24.86	25.50	0.64	2.58	23.03	-1.83	-7.37
135–317	30	10	24.86	22.15	-2.71	-10.92	28.36	3.50	14.07
318 or more	40	10	24.86	26.17	1.31	5.28	25.18	0.32	1.30
Total female graduate enrollment ⁵					(Effect size = 0.03)			(Effect size = 0.13)	
1–97	40	10	25.41	26.85	1.43	5.63	24.24	-1.18	-4.63
98–335	40	10	24.86	24.16	-0.70	-2.82	21.36	-3.50	-14.07
336–670	40	10	24.86	24.16	-0.70	-2.82	30.24	5.38	21.63
671 or more	40	10	24.86	24.83	-0.03	-0.12	24.16	-0.70	-2.81
Number of office and administrative employees ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–42	30	10	23.76	20.81	-2.95	-12.42	18.22	-5.53*	-23.29
43–68	40	10	23.20	24.83	1.63	7.02	22.72	-0.48	-2.07
69–115	30	10	23.76	22.15	-1.61	-6.77	20.87	-2.89	-12.15
116 or more	40	10	23.20	24.83	1.63	7.02	23.43	0.23	0.98
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the weighted difference between the respondent and full-sample means using the institution base weight.² Relative bias is defined as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the institution base weight adjusted for nonresponse) and weighted full-sample mean (using the institution base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-52. Institution-level nonresponse bias analysis for selected variables—public 4-year, doctorate-granting graduate-enrolling institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Carnegie classification 2015: Basic					(Effect size = ‡)			(Effect size = ‡)	
Associate's	‡	‡	‡	‡	‡	‡	‡	‡	‡
Research and doctoral	170	20	50.13	50.45	0.32	0.63	50.39	0.26	0.51
Master's	130	20	39.28	39.17	-0.11	-0.27	38.74	-0.54	-1.37
Baccalaureate	‡	‡	‡	‡	‡	‡	‡	‡	‡
Special focus and other	30	10	8.53	8.01	-0.52	-6.04	8.54	0.01	0.09
Unavailable or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Degree of urbanization					(Effect size = ‡)			(Effect size = ‡)	
Large city	100	10	26.87	28.19	1.32	4.90	26.65	-0.22	-0.84
Midsize city	60	10	17.05	16.32	-0.73	-4.30	17.94	0.89	5.22
Small city	60	10	17.83	17.21	-0.62	-3.47	19.20	1.37	7.66
Large suburb	40	10	11.37	11.28	-0.09	-0.82	10.85	-0.52	-4.61
Midsize suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area distant from town	20	10	7.75	6.82	-0.93	-11.96	7.38	-0.37	-4.74
Urban area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ⁴					(Effect size = ‡)			(Effect size = ‡)	
New England	10	10	4.39	3.56	-0.83	-18.94	4.10	-0.29	-6.68
Mideast	‡	‡	‡	‡	‡	‡	‡	‡	‡
Great Lakes	40	10	13.70	12.46	-1.23	-9.00	11.80	-1.89*	-13.82
Plains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southeast	100	10	28.42	28.49	0.06	0.22	30.45	2.03	7.15
Southwest	50	10	13.70	13.35	-0.34	-2.50	12.54	-1.15	-8.40
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	‡	‡	‡	‡	‡	‡	‡	‡	‡
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-52. Institution-level nonresponse bias analysis for selected variables—public 4-year, doctorate-granting graduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Historically Black College or University					(Effect size = ‡)			(Effect size = ‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡
No or unavailable or unknown	310	50	93.28	92.88	-0.40	-0.43	92.78	-0.50	-0.53
Hispanic-Serving Institution					(Effect size = 0.02)			(Effect size = #)	
Yes	60	10	18.09	18.69	0.61	3.35	17.90	-0.18	-1.02
No	270	40	81.91	81.31	-0.61	-0.74	82.10	0.18	0.23
Percentage of graduate students enrolled: Black, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–3	80	10	25.06	24.93	-0.14	-0.55	23.49	-1.57	-6.26
4–7	110	20	31.27	31.45	0.19	0.60	33.11	1.84	5.90
8–13	60	10	20.16	18.99	-1.16	-5.77	17.94	-2.22*	-11.01
14 or more	80	10	22.22	23.15	0.92	4.15	24.16	1.94*	8.74
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of graduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–2	110	10	31.27	32.64	1.37	4.40	33.46	2.19*	7.01
3–4	70	20	24.03	21.96	-2.07*	-8.62	23.46	-0.57	-2.37
5–7	70	10	22.22	21.96	-0.26	-1.19	20.51	-1.71*	-7.70
8 or more	70	10	21.19	21.96	0.77	3.63	21.28	0.09	0.41
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of graduate students enrolled: Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–3	90	10	26.10	26.11	0.01	0.06	26.84	0.75	2.85
4–5	80	20	25.84	24.04	-1.80	-6.98	25.18	-0.66	-2.54
6–11	80	10	23.77	24.93	1.15	4.85	23.45	-0.32	-1.34
12 or more	80	10	23.00	23.44	0.44	1.93	23.22	0.23	0.99
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total graduate enrollment ⁵					(Effect size = 0.02)			(Effect size = 0.02)	
1–1,457	80	10	25.06	24.93	-0.14	-0.55	25.19	0.13	0.51
1,458–3,054	80	20	25.06	24.33	-0.73	-2.92	24.79	-0.28	-1.10
3,055–6,088	90	10	25.06	25.82	0.75	3.00	25.85	0.78	3.12
6,089 or more	80	10	24.81	24.93	0.12	0.48	24.17	-0.63	-2.55

See notes at end of table.

Table M-52. Institution-level nonresponse bias analysis for selected variables—public 4-year, doctorate-granting graduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Total male graduate enrollment ⁵					(Effect size = 0.02)			(Effect size = 0.01)	
1–488	90	10	25.06	25.22	0.16	0.63	25.54	0.48	1.90
489–1,115	80	20	25.06	24.33	-0.73	-2.92	24.61	-0.45	-1.81
1,116–2,308	90	10	25.06	25.22	0.16	0.63	25.22	0.16	0.63
2,309 or more	90	10	24.81	25.22	0.42	1.68	24.63	-0.18	-0.73
Total female graduate enrollment ⁵					(Effect size = 0.01)			(Effect size = 0.01)	
1–934	80	10	25.06	24.93	-0.14	-0.55	25.31	0.25	0.98
935–1,916	80	10	25.06	24.93	-0.14	-0.55	25.13	0.06	0.26
1,917–3,584	80	10	25.06	24.93	-0.14	-0.55	25.05	-0.02	-0.07
3,585 or more	90	10	24.81	25.22	0.42	1.68	24.51	-0.29	-1.18
Number of office and administrative employees ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–131	80	20	25.32	24.04	-1.29	-5.08	23.56	-1.76	-6.97
132–245	80	10	24.03	24.93	0.89	3.72	24.75	0.72	2.99
246–520	80	10	24.81	24.63	-0.18	-0.71	25.80	0.99	3.99
521 or more	80	10	24.55	24.93	0.38	1.54	24.60	0.05	0.22
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the weighted difference between the respondent and full-sample means using the institution base weight.² Relative bias is defined as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the institution base weight adjusted for nonresponse) and weighted full-sample mean (using the institution base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-53. Institution-level nonresponse bias analysis for selected variables—private nonprofit 4-year, non-doctorate-granting graduate-enrolling institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Carnegie classification 2015: Basic					(Effect size = ‡)			(Effect size = ‡)	
Associate's	‡	‡	‡	‡	‡	‡	‡	‡	‡
Research and doctoral	‡	‡	‡	‡	‡	‡	‡	‡	‡
Master's	60	30	30.69	29.22	-1.47	-4.79	31.97	1.28	4.17
Baccalaureate	90	40	43.15	45.10	1.95	4.52	43.17	0.02	0.05
Special focus and other	20	10	22.63	23.93	1.30	5.75	23.45	0.82	3.63
Unavailable or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Degree of urbanization					(Effect size = ‡)			(Effect size = ‡)	
Large city	30	20	18.27	18.35	0.08	0.43	15.71	-2.56	-13.99
Midsize city	20	10	8.03	9.94	1.92	23.89	9.09	1.06	13.22
Small city	20	10	14.28	17.12	2.84	19.88	18.13	3.85	26.99
Large suburb	30	20	26.15	19.36	-6.80	-25.99	15.84	-10.31*	-39.44
Midsize suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area distant from town	30	10	12.52	12.98	0.46	3.66	20.58	8.06	64.36
Urban area remote from town	10	10	7.50	9.94	2.45	32.63	6.86	-0.64	-8.54
Rural area on fringe of town	10	10	5.42	2.98	-2.45	-45.08	7.05	1.62	29.92
Rural area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ⁴					(Effect size = ‡)			(Effect size = ‡)	
New England	20	20	8.39	5.97	-2.42	-28.86	11.70	3.31	39.43
Mideast	20	10	15.12	19.09	3.97	26.30	14.99	-0.12	-0.80
Great Lakes	30	20	20.82	19.88	-0.94	-4.53	16.17	-4.66	-22.35
Plains	40	10	12.50	16.67	4.17*	33.39	14.87	2.37	18.92
Southeast	50	20	20.34	24.19	3.85	18.94	18.47	-1.87	-9.19
Southwest	10	10	3.26	3.51	0.25	7.73	2.77	-0.49	-15.08
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	10	10	11.77	2.75	-9.02	-76.61	14.37	2.60	22.08
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-53. Institution-level nonresponse bias analysis for selected variables—private nonprofit 4-year, non-doctorate-granting graduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Historically Black College or University					(Effect size = ‡)			(Effect size = ‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡
No or unavailable or unknown	170	80	96.16	94.75	-1.41	-1.47	96.29	0.14	0.14
Hispanic-Serving Institution					(Effect size = ‡)			(Effect size = ‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡
No	170	80	89.37	91.45	2.08	2.33	90.98	1.61	1.80
Percentage of graduate students enrolled: Black, non-Hispanic ⁵					(Effect size = 0.18)			(Effect size = 0.20)	
0–2	50	30	23.42	23.96	0.53	2.28	27.74	4.32	18.43
3–6	30	20	25.18	19.02	-6.16	-24.47	21.75	-3.43	-13.64
7–13	50	10	20.84	25.19	4.36	20.90	22.00	1.16	5.56
14 or more	40	20	18.80	21.92	3.13	16.63	21.93	3.14	16.69
Unknown	10	10	11.76	9.91	-1.85	-15.75	6.58	-5.18*	-44.03
Percentage of graduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁵					(Effect size = 0.13)			(Effect size = 0.39)	
0	50	30	25.51	26.24	0.73	2.86	19.90	-5.61	-22.00
1–2	60	20	21.76	26.33	4.57	20.99	24.72	2.96	13.61
3–4	30	10	16.60	15.70	-0.90	-5.42	29.44	12.84	77.35
5 or more	40	20	24.36	21.82	-2.55	-10.46	19.35	-5.01	-20.57
Unknown	10	10	11.76	9.91	-1.85	-15.75	6.58	-5.18*	-44.03
Percentage of graduate students enrolled: Hispanic ⁵					(Effect size = 0.14)			(Effect size = 0.26)	
0–2	50	20	23.77	25.32	1.54	6.50	19.45	-4.32	-18.17
3–5	40	20	16.41	18.72	2.31	14.06	14.87	-1.55	-9.43
6–9	40	20	24.15	26.69	2.54	10.51	26.58	2.43	10.07
10 or more	40	20	23.91	19.37	-4.54	-18.98	32.52	8.61	36.02
Unknown	10	10	11.76	9.91	-1.85	-15.75	6.58	-5.18*	-44.03
Total graduate enrollment ⁵					(Effect size = 0.13)			(Effect size = 0.04)	
1–54	40	30	28.50	24.91	-3.59	-12.61	27.56	-0.94	-3.30
55–151	50	20	26.21	29.69	3.48	13.29	25.39	-0.82	-3.12
152–442	50	20	23.81	26.86	3.05	12.79	25.43	1.62	6.81
443 or more	50	20	21.48	18.54	-2.93	-13.66	21.61	0.14	0.64

See notes at end of table.

Table M-53. Institution-level nonresponse bias analysis for selected variables—private nonprofit 4-year, non-doctorate-granting graduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Total male graduate enrollment ⁴					(Effect size = 0.17)			(Effect size = 0.12)	
1–20	40	30	28.93	25.84	-3.09	-10.69	29.62	0.69	2.37
21–54	50	20	26.28	28.97	2.70	10.26	23.29	-2.99	-11.37
55–144	50	20	20.49	25.59	5.10*	24.86	24.95	4.45	21.72
145 or more	50	20	24.30	19.60	-4.70	-19.34	22.15	-2.15	-8.85
Total female graduate enrollment ⁴					(Effect size = 0.13)			(Effect size = 0.04)	
1–29	40	30	26.51	22.50	-4.01	-15.12	24.79	-1.72	-6.48
30–94	50	20	27.90	32.55	4.66	16.69	28.05	0.16	0.56
95–268	50	20	22.84	23.91	1.07	4.69	23.04	0.20	0.87
269 or more	50	20	22.76	21.04	-1.72	-7.55	24.12	1.36	5.98
Number of office and administrative employees ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–13	40	30	30.44	29.28	-1.16	-3.81	24.49	-5.95	-19.55
14–28	40	20	25.33	28.14	2.81	11.11	21.14	-4.19	-16.55
29–50	50	20	25.43	23.90	-1.53	-6.00	24.85	-0.58	-2.29
51 or more	50	20	17.21	17.63	0.42	2.46	18.03	0.83	4.80
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the weighted difference between the respondent and full-sample means using the institution base weight.² Relative bias is defined as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the institution base weight adjusted for nonresponse) and weighted full-sample mean (using the institution base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-54. Institution-level nonresponse bias analysis for selected variables—private nonprofit 4-year, doctorate-granting graduate-enrolling institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Carnegie classification 2015: Basic					(Effect size = ‡)			(Effect size = ‡)	
Associate's	‡	‡	‡	‡	‡	‡	‡	‡	‡
Research and doctoral	80	20	16.47	18.54	2.07	12.58	17.85	1.37	8.34
Master's	150	50	38.78	41.04	2.26	5.82	39.81	1.03	2.66
Baccalaureate	30	10	5.78	6.47	0.68	11.85	6.71	0.92	15.97
Special focus and other	50	30	38.53	33.95	-4.57	-11.87	35.64	-2.89	-7.50
Unavailable or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Degree of urbanization					(Effect size = ‡)			(Effect size = ‡)	
Large city	110	20	36.90	33.72	-3.18	-8.62	30.77	-6.13	-16.60
Midsize city	40	20	12.13	12.10	-0.03	-0.28	14.15	2.01	16.57
Small city	40	20	11.15	10.73	-0.42	-3.80	13.39	2.24	20.08
Large suburb	60	30	26.08	28.58	2.50	9.59	28.18	2.10	8.05
Midsize suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area distant from town	20	10	4.43	4.57	0.14	3.20	4.47	0.04	0.89
Urban area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area on fringe of town	10	10	1.74	1.38	-0.37	-20.92	1.85	0.11	6.26
Rural area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ⁴					(Effect size = ‡)			(Effect size = ‡)	
New England	30	20	7.55	6.40	-1.16	-15.30	8.15	0.60	7.93
Mideast	50	20	20.78	18.59	-2.20	-10.56	18.97	-1.81	-8.71
Great Lakes	50	20	20.19	23.63	3.44	17.06	19.40	-0.79	-3.91
Plains	40	20	9.17	8.63	-0.55	-5.97	8.19	-0.98	-10.71
Southeast	70	30	19.42	20.34	0.93	4.77	22.90	3.48	17.95
Southwest	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	30	10	13.05	10.26	-2.79	-21.41	9.65	-3.40	-26.07
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-54. Institution-level nonresponse bias analysis for selected variables—private nonprofit 4-year, doctorate-granting graduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Historically Black College or University					(Effect size = ‡)			(Effect size = ‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡
No or unavailable or unknown	300	100	96.36	96.09	-0.27	-0.28	96.42	0.06	0.06
Hispanic-Serving Institution					(Effect size = 0.07)			(Effect size = 0.01)	
Yes	30	10	9.00	11.06	2.05*	22.81	9.25	0.24	2.72
No	270	100	91.00	88.94	-2.05*	-2.26	90.75	-0.24	-0.27
Percentage of graduate students enrolled: Black, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–4	100	30	35.09	35.30	0.21	0.59	32.37	-2.72	-7.75
5–7	60	30	18.77	13.76	-5.01	-26.68	14.31	-4.46	-23.76
8–14	80	20	22.07	24.31	2.24	10.17	20.43	-1.64	-7.43
15 or more	70	20	23.93	26.43	2.50	10.46	32.75	8.82*	36.85
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of graduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–2	90	30	26.80	27.79	0.99	3.69	28.32	1.52	5.67
3–4	70	30	26.41	22.18	-4.23	-16.02	26.93	0.51	1.94
5–7	70	20	28.45	29.54	1.10	3.85	25.14	-3.31	-11.64
8 or more	70	20	18.19	20.28	2.09	11.50	19.47	1.28	7.03
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of graduate students enrolled: Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–3	80	40	29.30	25.76	-3.54	-12.08	25.43	-3.87	-13.20
4–6	90	30	21.56	20.96	-0.60	-2.80	23.70	2.13	9.89
7–10	70	20	16.10	17.67	1.57	9.77	21.59	5.49*	34.13
11 or more	70	20	32.89	35.40	2.52	7.65	29.13	-3.76	-11.42
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total graduate enrollment ⁵					(Effect size = 0.10)			(Effect size = 0.09)	
1–644	80	30	38.30	39.99	1.69	4.42	39.80	1.50	3.91
645–1,318	70	30	24.05	19.98	-4.07	-16.94	20.13	-3.92	-16.31
1,319–3,254	70	30	19.21	20.10	0.89	4.64	21.02	1.81	9.43
3,255 or more	80	20	18.44	19.93	1.49	8.08	19.05	0.61	3.33

See notes at end of table.

Table M-54. Institution-level nonresponse bias analysis for selected variables—private nonprofit 4-year, doctorate-granting graduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Total male graduate enrollment ⁴					(Effect size = 0.10)			(Effect size = 0.13)	
1–214	80	30	25.04	28.53	3.49	13.94	30.03	4.99	19.92
215–434	80	30	33.57	31.49	-2.08	-6.20	30.56	-3.01	-8.96
435–1,215	70	30	24.57	21.85	-2.72	-11.09	21.93	-2.64	-10.73
1,216 or more	80	20	16.82	18.13	1.31	7.82	17.48	0.66	3.91
Total female graduate enrollment ⁴					(Effect size = 0.08)			(Effect size = 0.10)	
1–390	80	30	37.39	37.78	0.38	1.02	37.83	0.44	1.17
391–825	80	30	24.38	21.17	-3.21	-13.17	20.37	-4.01	-16.45
826–1,902	70	30	18.73	19.31	0.57	3.06	21.14	2.40	12.84
1,903 or more	80	20	19.50	21.75	2.26	11.57	20.66	1.17	5.98
Number of office and administrative employees ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–33	70	30	33.96	27.35	-6.60	-19.44	30.98	-2.98	-8.76
34–66	80	30	28.48	32.07	3.59	12.62	30.06	1.58	5.54
67–156	80	20	20.05	22.80	2.75	13.73	21.48	1.43	7.14
157 or more	80	20	16.93	17.57	0.64	3.79	17.34	0.41	2.40
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the weighted difference between the respondent and full-sample means using the institution base weight.² Relative bias is defined as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the institution base weight adjusted for nonresponse) and weighted full-sample mean (using the institution base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-55. Institution-level nonresponse bias analysis for selected variables—private for-profit 4-year graduate-enrolling institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Carnegie classification 2015: Basic					(Effect size = ‡)			(Effect size = ‡)	
Associate's	‡	‡	‡	‡	‡	‡	‡	‡	‡
Research and doctoral	‡	‡	‡	‡	‡	‡	‡	‡	‡
Master's	10	10	15.46	10.89	-4.57*	-29.53	19.72	4.26	27.56
Baccalaureate	#	10	7.91	2.97	-4.94*	-62.45	2.74	-5.17*	-65.41
Special focus and other	20	20	47.84	48.59	0.75	1.57	48.19	0.35	0.73
Unavailable or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Degree of urbanization					(Effect size = ‡)			(Effect size = ‡)	
Large city	20	20	48.93	49.75	0.82	1.68	48.78	-0.15	-0.32
Midsize city	10	10	9.90	6.47	-3.43*	-34.66	5.80	-4.10*	-41.42
Small city	#	10	5.49	3.40	-2.09	-38.02	2.92	-2.57	-46.80
Large suburb	20	10	31.27	37.93	6.66	21.29	39.63	8.35	26.71
Midsize suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area distant from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ⁴					(Effect size = ‡)			(Effect size = ‡)	
New England	‡	‡	‡	‡	‡	‡	‡	‡	‡
Mideast	‡	‡	‡	‡	‡	‡	‡	‡	‡
Great Lakes	‡	‡	‡	‡	‡	‡	‡	‡	‡
Plains	#	10	6.06	3.89	-2.17	-35.83	3.15	-2.91*	-48.07
Southeast	10	20	20.11	9.95	-10.17*	-50.54	10.19	-9.92*	-49.34
Southwest	10	10	6.52	4.77	-1.76	-26.92	12.36	5.83	89.38
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	‡	‡	‡	‡	‡	‡	‡	‡	‡
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-55. Institution-level nonresponse bias analysis for selected variables—private for-profit 4-year graduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Hispanic-Serving Institution					(Effect size = ‡)			(Effect size = ‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡
No	50	40	75.01	74.33	-0.69	-0.91	79.26	4.25	5.67
Percentage of graduate students enrolled: Black, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–6	10	10	33.26	33.18	-0.08	-0.25	36.04	2.78	8.35
7–18	10	10	17.38	15.67	-1.71	-9.82	15.40	-1.98	-11.42
19–36	10	10	8.24	5.61	-2.64	-31.98	13.39	5.15	62.42
37 or more	#	20	9.11	2.44	-6.67*	-73.20	2.53	-6.57*	-72.18
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of graduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0	10	20	17.86	9.82	-8.04*	-45.02	17.91	0.06	0.31
1–3	10	10	7.61	4.27	-3.34*	-43.87	5.41	-2.20	-28.88
4–7	10	10	12.72	8.05	-4.67*	-36.74	16.65	3.93	30.87
8 or more	10	10	29.80	34.77	4.96	16.65	27.38	-2.42	-8.13
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of graduate students enrolled: Hispanic ⁵					(Effect size = ‡)			(Effect size = ‡)	
0–2	10	20	11.40	4.19	-7.21*	-63.25	5.73	-5.67*	-49.71
3–6	10	10	10.29	6.51	-3.78*	-36.75	15.58	5.30	51.47
7–11	10	10	27.20	25.80	-1.41	-5.17	29.83	2.63	9.66
12 or more	10	10	19.10	20.41	1.31	6.84	16.21	-2.89	-15.13
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total graduate enrollment ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–17	‡	‡	‡	‡	‡	‡	‡	‡	‡
18–241	10	10	20.27	12.31	-7.97*	-39.30	26.24	5.97	29.42
242–1,492	10	20	28.73	28.31	-0.42	-1.48	24.62	-4.11	-14.31
1,493 or more	10	10	18.04	17.50	-0.54	-2.98	16.49	-1.55	-8.58

See notes at end of table.

Table M-55. Institution-level nonresponse bias analysis for selected variables—private for-profit 4-year graduate-enrolling institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Total male graduate enrollment ⁵					(Effect size = 0.23)			(Effect size = 0.16)	
1–3	20	10	32.96	41.27	8.32	25.24	32.17	-0.78	-2.38
4–77	10	10	19.99	12.31	-7.68	-38.43	26.16	6.17	30.87
78–470	10	20	33.09	33.80	0.70	2.13	28.29	-4.81	-14.52
471 or more	20	10	13.96	12.62	-1.34	-9.59	13.38	-0.58	-4.16
Total female graduate enrollment ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–8	‡	‡	‡	‡	‡	‡	‡	‡	‡
9–145	10	10	20.66	12.31	-8.35*	-40.43	26.41	5.75	27.86
146–1,041	10	20	28.35	28.31	-0.04	-0.14	24.45	-3.90	-13.76
1,042 or more	10	10	18.04	17.50	-0.54	-2.98	16.49	-1.55	-8.58
Number of office and administrative employees ⁵					(Effect size = 0.17)			(Effect size = 0.30)	
0–4	10	10	21.57	21.05	-0.52	-2.39	17.61	-3.96	-18.37
5–14	10	10	11.47	12.06	0.59	5.17	10.62	-0.85	-7.41
15–35	10	10	36.80	40.64	3.83	10.41	32.55	-4.25	-11.55
36 or more	10	10	16.97	18.56	1.59	9.35	16.13	-0.83	-4.92
Unknown	10	20	13.19	7.70	-5.49*	-41.65	23.09	9.90	75.02

Rounds to zero.

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the weighted difference between the respondent and full-sample means using the institution base weight.² Relative bias is defined as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the institution base weight adjusted for nonresponse) and weighted full-sample mean (using the institution base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-56. Institution-level analysis after poststratification for selected variables—all graduate-enrolling institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Control and level of institution					
Public 4-year, non-doctorate-granting, primarily subbaccalaureate	3.89	3.13	3.76	0.13*	-0.63
Public 4-year, non-doctorate-granting, primarily baccalaureate	8.47	8.72	9.26	-0.79*	-0.54
Public 4-year, doctorate-granting	18.54	18.63	18.56	-0.02	0.07
Private nonprofit 4-year, non-doctorate-granting	25.80	26.10	25.04	0.76*	1.06
Private nonprofit 4-year, doctorate-granting	32.96	32.80	32.80	0.16	#
Private for-profit 4-year	10.34	10.63	10.57	-0.23	0.06
Carnegie classification 2015: Basic					
Associate's	‡	‡	‡	‡	‡
Research and doctoral	15.56	15.04	15.53	0.03	-0.49
Master's	35.77	35.32	35.62	0.15	-0.30
Baccalaureate	17.56	17.71	17.78	-0.22*	-0.07
Special focus and other	25.14	25.74	24.90	0.24	0.84
Unavailable or unknown	2.31	2.47	2.42	-0.11	0.05
Degree of urbanization					
Large city	25.59	28.42	25.47	0.12	2.95
Midsize city	11.96	11.36	11.94	0.02	-0.58
Small city	15.25	13.02	15.19	0.06	-2.17
Large suburb	21.17	22.60	21.30	-0.13	1.30
Midsize suburb	1.80	2.21	1.85	-0.05	0.36*
Small suburb	‡	‡	‡	‡	‡
Urban area on fringe of town	2.31	2.55	2.35	-0.04	0.20
Urban area distant from town	9.54	7.61	9.55	-0.01	-1.94
Urban area remote from town	5.24	5.80	5.27	-0.03	0.53
Rural area on fringe of town	3.61	3.00	3.58	0.03	-0.58
Rural area distant from town	0.80	0.99	0.78	0.02	0.21
Rural area remote from town	1.09	0.73	1.08	0.01	-0.35
Bureau of Economic Analysis region ³					
New England	7.72	6.59	7.72	#	-1.13
Mideast	17.53	18.14	17.48	0.05	0.66
Great Lakes	15.75	17.28	15.72	0.03	1.56
Plains	9.53	9.47	9.46	0.07	0.01
Southeast	21.44	21.76	21.43	0.01	0.33
Southwest	8.53	7.34	8.63	-0.10	-1.29
Rocky Mountains	3.99	4.06	4.07	-0.08	-0.01
Far West	13.50	12.86	13.51	-0.01	-0.65
Outlying Areas	‡	‡	‡	‡	‡

See notes at end of table.

Table M-56. Institution-level analysis after poststratification for selected variables—all graduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Historically Black College or University					
Yes	3.90	3.88	3.97	-0.07*	-0.09
No or unavailable or unknown	96.10	96.12	96.03	0.07*	0.09
Hispanic-Serving Institution					
Yes	12.81	13.87	12.81	#	1.06
No	87.19	86.13	87.19	#	-1.06
Percentage of graduate students enrolled: Black, non-Hispanic ⁴					
0–3	27.07	26.72	27.05	0.02	-0.33
4–7	24.11	25.46	23.93	0.18	1.53
8–14	17.56	18.96	17.37	0.19*	1.59
15 or more	22.88	18.93	22.83	0.05	-3.90*
Unknown	8.38	9.94	8.81	-0.43*	1.13
Percentage of graduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁴					
0–1	20.27	21.74	20.31	-0.04	1.43
2–3	28.24	23.42	28.05	0.19*	-4.63*
4–6	21.25	21.58	21.19	0.06	0.39
7 or more	21.87	23.33	21.64	0.23	1.69
Unknown	8.38	9.94	8.81	-0.43*	1.13
Percentage of graduate students enrolled: Hispanic ⁴					
0–3	25.13	27.17	25.27	-0.14	1.90
4–5	14.08	14.42	14.01	0.07	0.41
6–10	25.20	21.68	25.06	0.14	-3.38*
11 or more	27.21	26.80	26.86	0.35*	-0.06
Unknown	8.38	9.94	8.81	-0.43*	1.13
Total graduate enrollment ⁴					
1–226	29.45	29.13	30.22	-0.77*	-1.09
227–895	30.77	29.36	30.40	0.37*	-1.04
896–2,854	20.67	22.62	20.38	0.29*	2.24
2,855 or more	19.11	18.89	19.00	0.11	-0.11
Total male graduate enrollment ⁴					
1–74	29.50	29.52	30.26	-0.76*	-0.74
75–307	31.10	30.38	30.72	0.38*	-0.34
308–1,016	21.08	21.76	20.79	0.29*	0.97
1,017 or more	18.32	18.33	18.22	0.10	0.11
Total female graduate enrollment ⁴					
1–140	32.06	31.33	32.78	-0.72*	-1.45
141–576	27.07	27.13	26.75	0.32*	0.38
577–1,715	21.90	22.40	21.60	0.30*	0.80
1,716 or more	18.97	19.14	18.87	0.10	0.27

See notes at end of table.

Table M-56. Institution-level analysis after poststratification for selected variables—all graduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Number of office and administrative employees ⁴					
0–31	29.36	34.70	29.26	0.10	5.44*
32–75	27.42	26.39	27.34	0.08	-0.95
76–194	18.72	19.17	18.60	0.12	0.57
195 or more	17.61	16.95	17.59	0.02	-0.64
Unknown	6.89	2.78	7.21	-0.32*	-4.43

Rounds to zero.

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the institution base weight adjusted for nonresponse.² Mean is calculated using the institution base weight adjusted for nonresponse and poststratification.³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-57. Institution-level analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate graduate-enrolling institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Carnegie classification 2015: Basic					
Associate's	‡	‡	‡	‡	‡
Research and doctoral	‡	‡	‡	‡	‡
Master's	‡	‡	‡	‡	‡
Baccalaureate	‡	‡	‡	‡	‡
Special focus and other	‡	‡	‡	‡	‡
Unavailable or unknown	‡	‡	‡	‡	‡
Degree of urbanization					
Large city	‡	‡	‡	‡	‡
Midsize city	‡	‡	‡	‡	‡
Small city	‡	‡	‡	‡	‡
Large suburb	‡	‡	‡	‡	‡
Midsize suburb	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡
Urban area distant from town	‡	‡	‡	‡	‡
Urban area remote from town	‡	‡	‡	‡	‡
Rural area on fringe of town	‡	‡	‡	‡	‡
Rural area distant from town	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ³					
New England	‡	‡	‡	‡	‡
Mideast	‡	‡	‡	‡	‡
Great Lakes	‡	‡	‡	‡	‡
Plains	‡	‡	‡	‡	‡
Southeast	‡	‡	‡	‡	‡
Southwest	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡
Far West	‡	‡	‡	‡	‡
Outlying Areas	‡	‡	‡	‡	‡
Historically Black College or University					
Yes	‡	‡	‡	‡	‡
No or unavailable or unknown	100.00	100.00	100.00	#	#
Hispanic-Serving Institution					
Yes	‡	‡	‡	‡	‡
No	80.32	73.85	80.32	#	-6.47*
Percentage of graduate students enrolled: Black, non-Hispanic ⁴					
0	‡	‡	‡	‡	‡
1–2	‡	‡	‡	‡	‡
3 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-57. Institution-level analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate graduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of graduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁴					
0	‡	‡	‡	‡	‡
1–3	‡	‡	‡	‡	‡
4 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Percentage of graduate students enrolled: Hispanic ⁴					
0	‡	‡	‡	‡	‡
2–7	‡	‡	‡	‡	‡
8 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Total graduate enrollment ⁴					
1	‡	‡	‡	‡	‡
2 or more	‡	‡	‡	‡	‡
Total male graduate enrollment ⁴					
0	‡	‡	‡	‡	‡
1 or more	‡	‡	‡	‡	‡
Total female graduate enrollment ⁴					
0	‡	‡	‡	‡	‡
1 or more	‡	‡	‡	‡	‡
Number of office and administrative employees ⁴					
0–25	‡	‡	‡	‡	‡
26–80	‡	‡	‡	‡	‡
81–165	‡	‡	‡	‡	‡
166 or more	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the institution base weight adjusted for nonresponse.² Mean is calculated using the institution base weight adjusted for nonresponse and poststratification.

³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.

⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-58. Institution-level analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate graduate-enrolling institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Carnegie classification 2015: Basic					
Associate's	‡	‡	‡	‡	‡
Research and doctoral	‡	‡	‡	‡	‡
Master's	59.94	63.54	57.29	2.65*	6.25
Baccalaureate	26.75	29.28	29.64	-2.89*	-0.36
Special focus and other	‡	‡	‡	‡	‡
Unavailable or unknown	‡	‡	‡	‡	‡
Degree of urbanization					
Large city	‡	‡	‡	‡	‡
Midsize city	‡	‡	‡	‡	‡
Small city	20.76	13.81	19.69	1.07	-5.88
Large suburb	‡	‡	‡	‡	‡
Midsize suburb	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡
Urban area distant from town	‡	‡	‡	‡	‡
Urban area remote from town	‡	‡	‡	‡	‡
Rural area on fringe of town	‡	‡	‡	‡	‡
Rural area distant from town	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ³					
New England	‡	‡	‡	‡	‡
Mideast	‡	‡	‡	‡	‡
Great Lakes	7.41	8.84	7.64	-0.23	1.20
Plains	6.98	10.50	6.83	0.15	3.67*
Southeast	21.35	22.10	21.66	-0.31	0.44
Southwest	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡
Far West	‡	‡	‡	‡	‡
Outlying Areas	‡	‡	‡	‡	‡
Historically Black College or University					
Yes	‡	‡	‡	‡	‡
No or unavailable or unknown	95.03	95.03	94.42	0.61*	0.61
Hispanic-Serving Institution					
Yes	‡	‡	‡	‡	‡
No	85.75	85.08	86.32	-0.57	-1.24
Percentage of graduate students enrolled: Black, non-Hispanic ⁴					
0–3	27.40	22.65	27.54	-0.14	-4.89
4–5	24.94	28.73	24.29	0.65	4.44
6–10	15.56	17.68	15.05	0.51	2.63
11 or more	22.51	21.55	22.34	0.17	-0.79
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-58. Institution-level analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate graduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of graduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁴					
0–1	33.69	32.60	33.33	0.36	-0.73
2	17.97	19.34	17.11	0.86*	2.23
3–4	‡	‡	‡	‡	‡
5 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Percentage of graduate students enrolled: Hispanic ⁴					
0–2	19.96	23.20	21.26	-1.30*	1.94
3–5	31.75	25.41	30.35	1.40*	-4.94
6–11	20.39	21.55	20.06	0.33	1.49
12 or more	18.31	20.44	17.55	0.76	2.89
Unknown	‡	‡	‡	‡	‡
Total graduate enrollment ⁴					
1–158	24.05	25.41	27.02	-2.97*	-1.61
159–486	21.59	24.86	24.26	-2.67*	0.60
487–1,059	29.63	24.86	26.68	2.95*	-1.82
1,060 or more	24.73	24.86	22.05	2.68*	2.81
Total male graduate enrollment ⁴					
1–56	23.42	25.41	26.32	-2.90*	-0.91
57–134	23.03	24.86	25.08	-2.05*	-0.22
135–317	28.36	24.86	26.15	2.21*	-1.29
318 or more	25.18	24.86	22.45	2.73*	2.41
Total female graduate enrollment ⁴					
1–97	24.24	25.41	27.23	-2.99*	-1.82
98–335	21.36	24.86	23.74	-2.38*	1.12
336–670	30.24	24.86	27.50	2.74*	-2.64
671 or more	24.16	24.86	21.54	2.62*	3.32
Number of office and administrative employees ⁴					
0–42	18.22	23.76	19.66	-1.44*	4.10
43–68	22.72	23.20	23.26	-0.54	-0.06
69–115	20.87	23.76	20.82	0.05	2.94
116 or more	23.43	23.20	21.57	1.86*	1.63
Unknown	‡	‡	‡	‡	‡

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the institution base weight adjusted for nonresponse.² Mean is calculated using the institution base weight adjusted for nonresponse and poststratification.

³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.

⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-59. Institution-level analysis after poststratification for selected variables—public 4-year, doctorate-granting graduate-enrolling institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Carnegie classification 2015: Basic					
Associate's	‡	‡	‡	‡	‡
Research and doctoral	50.39	50.13	50.47	-0.08*	-0.34
Master's	38.74	39.28	38.68	0.06*	0.60
Baccalaureate	‡	‡	‡	‡	‡
Special focus and other	8.54	8.53	8.52	0.02*	0.01
Unavailable or unknown	‡	‡	‡	‡	‡
Degree of urbanization					
Large city	26.65	26.87	26.67	-0.02*	0.20
Midsized city	17.94	17.05	17.94	#	-0.89
Small city	19.20	17.83	19.19	0.01	-1.36
Large suburb	10.85	11.37	10.85	#	0.52
Midsized suburb	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡
Urban area distant from town	7.38	7.75	7.38	#	0.37
Urban area remote from town	‡	‡	‡	‡	‡
Rural area on fringe of town	‡	‡	‡	‡	‡
Rural area distant from town	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ³					
New England	4.10	4.39	4.09	0.01*	0.30
Mideast	‡	‡	‡	‡	‡
Great Lakes	11.80	13.70	11.81	-0.01*	1.89*
Plains	‡	‡	‡	‡	‡
Southeast	30.45	28.42	30.45	#	-2.03
Southwest	12.54	13.70	12.55	-0.01	1.15
Rocky Mountains	‡	‡	‡	‡	‡
Far West	‡	‡	‡	‡	‡
Outlying Areas	‡	‡	‡	‡	‡
Historically Black College or University					
Yes	‡	‡	‡	‡	‡
No or unavailable or unknown	92.78	93.28	92.80	-0.02*	0.48
Hispanic-Serving Institution					
Yes	17.90	18.09	17.92	-0.02*	0.17
No	82.10	81.91	82.08	0.02*	-0.17
Percentage of graduate students enrolled: Black, non-Hispanic ⁴					
0–3	23.49	25.06	23.49	#	1.57
4–7	33.11	31.27	33.12	-0.01	-1.85
8–13	17.94	20.16	17.95	-0.01*	2.21*
14 or more	24.16	22.22	24.14	0.02*	-1.92*
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-59. Institution-level analysis after poststratification for selected variables—public 4-year, doctorate-granting graduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of graduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁴					
0–2	33.46	31.27	33.42	0.04*	-2.15*
3–4	23.46	24.03	23.46	#	0.57
5–7	20.51	22.22	20.54	-0.03*	1.68*
8 or more	21.28	21.19	21.29	-0.01*	-0.10
Unknown	‡	‡	‡	‡	‡
Percentage of graduate students enrolled: Hispanic ⁴					
0–3	26.84	26.10	26.82	0.02*	-0.72
4–5	25.18	25.84	25.19	-0.01	0.65
6–11	23.45	23.77	23.46	-0.01	0.31
12 or more	23.22	23.00	23.24	-0.02*	-0.24
Unknown	‡	‡	‡	‡	‡
Total graduate enrollment ⁴					
1–1,457	25.19	25.06	25.12	0.07*	-0.06
1,458–3,054	24.79	25.06	24.72	0.07*	0.34
3,055–6,088	25.85	25.06	25.91	-0.06*	-0.85
6,089 or more	24.17	24.81	24.24	-0.07*	0.57
Total male graduate enrollment ⁴					
1–488	25.54	25.06	25.47	0.07*	-0.41
489–1,115	24.61	25.06	24.56	0.05*	0.50
1,116–2,308	25.22	25.06	25.27	-0.05*	-0.21
2,309 or more	24.63	24.81	24.69	-0.06*	0.12
Total female graduate enrollment ⁴					
1–934	25.31	25.06	25.24	0.07*	-0.18
935–1,916	25.13	25.06	25.07	0.06*	-0.01
1,917–3,584	25.05	25.06	25.11	-0.06*	-0.05
3,585 or more	24.51	24.81	24.58	-0.07*	0.23
Number of office and administrative employees ⁴					
0–131	23.56	25.32	23.51	0.05*	1.81
132–245	24.75	24.03	24.73	0.02*	-0.70
246–520	25.80	24.81	25.81	-0.01*	-1.00
521 or more	24.60	24.55	24.65	-0.05*	-0.10
Unknown	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the institution base weight adjusted for nonresponse.² Mean is calculated using the institution base weight adjusted for nonresponse and poststratification.

³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.

⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-60. Institution-level analysis after poststratification for selected variables—private nonprofit 4-year, non-doctorate-granting graduate-enrolling institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Carnegie classification 2015: Basic					
Associate's	‡	‡	‡	‡	‡
Research and doctoral	‡	‡	‡	‡	‡
Master's	31.97	30.69	31.36	0.61*	-0.67
Baccalaureate	43.17	43.15	43.55	-0.38*	-0.40
Special focus and other	23.45	22.63	23.67	-0.22	-1.04
Unavailable or unknown	‡	‡	‡	‡	‡
Degree of urbanization					
Large city	15.71	18.27	15.69	0.02	2.58
Midsize city	9.09	8.03	9.02	0.07	-0.99
Small city	18.13	14.28	18.19	-0.06	-3.91
Large suburb	15.84	26.15	15.75	0.09	10.40*
Midsize suburb	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡
Urban area distant from town	20.58	12.52	20.85	-0.27	-8.33
Urban area remote from town	6.86	7.50	6.83	0.03	0.67
Rural area on fringe of town	7.05	5.42	6.93	0.12*	-1.51
Rural area distant from town	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ³					
New England	11.70	8.39	11.59	0.11	-3.20
Mideast	14.99	15.12	14.90	0.09	0.22
Great Lakes	16.17	20.82	16.13	0.04	4.69
Plains	14.87	12.50	14.88	-0.01	-2.38
Southeast	18.47	20.34	18.62	-0.15	1.72
Southwest	2.77	3.26	2.76	0.01	0.50
Rocky Mountains	‡	‡	‡	‡	‡
Far West	14.37	11.77	14.49	-0.12	-2.72
Outlying Areas	‡	‡	‡	‡	‡
Historically Black College or University					
Yes	‡	‡	‡	‡	‡
No or unavailable or unknown	96.29	96.16	96.24	0.05	-0.08
Hispanic-Serving Institution					
Yes	‡	‡	‡	‡	‡
No	90.98	89.37	91.08	-0.10	-1.71
Percentage of graduate students enrolled: Black, non-Hispanic ⁴					
0–2	27.74	23.42	28.01	-0.27	-4.59
3–6	21.75	25.18	21.58	0.17	3.60
7–13	22.00	20.84	21.80	0.20*	-0.96
14 or more	21.93	18.80	21.90	0.03	-3.10
Unknown	6.58	11.76	6.72	-0.14	5.04*

See notes at end of table.

Table M-60. Institution-level analysis after poststratification for selected variables—private nonprofit 4-year, non-doctorate-granting graduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of graduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁴					
0	19.90	25.51	20.02	-0.12	5.49
1–2	24.72	21.76	24.41	0.31*	-2.65
3–4	29.44	16.60	29.57	-0.13	-12.97
5 or more	19.35	24.36	19.27	0.08	5.09
Unknown	6.58	11.76	6.72	-0.14	5.04*
Percentage of graduate students enrolled: Hispanic ⁴					
0–2	19.45	23.77	19.37	0.08	4.40
3–5	14.87	16.41	14.72	0.15*	1.69
6–9	26.58	24.15	26.58	#	-2.43
10 or more	32.52	23.91	32.60	-0.08	-8.69
Unknown	6.58	11.76	6.72	-0.14	5.04*
Total graduate enrollment ⁴					
1–54	27.56	28.50	28.13	-0.57*	0.37
55–151	25.39	26.21	25.74	-0.35*	0.47
152–442	25.43	23.81	24.94	0.49*	-1.13
443 or more	21.61	21.48	21.19	0.42*	0.29
Total male graduate enrollment ⁴					
1–20	29.62	28.93	30.23	-0.61*	-1.30
21–54	23.29	26.28	23.44	-0.15	2.84
55–144	24.95	20.49	24.61	0.34*	-4.12
145 or more	22.15	24.30	21.71	0.44*	2.59
Total female graduate enrollment ⁴					
1–29	24.79	26.51	25.30	-0.51*	1.21
30–94	28.05	27.90	28.46	-0.41*	-0.56
95–268	23.04	22.84	22.59	0.45*	0.25
269 or more	24.12	22.76	23.65	0.47*	-0.89
Number of office and administrative employees ⁴					
0–13	24.49	30.44	24.68	-0.19	5.76
14–28	21.14	25.33	21.06	0.08	4.27
29–50	24.85	25.43	24.70	0.15	0.73
51 or more	18.03	17.21	17.83	0.20*	-0.62
Unknown	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the institution base weight adjusted for nonresponse.² Mean is calculated using the institution base weight adjusted for nonresponse and poststratification.

³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Midwest = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.

⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-61. Institution-level analysis after poststratification for selected variables—private nonprofit 4-year, doctorate-granting graduate-enrolling institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Carnegie classification 2015: Basic					
Associate's	‡	‡	‡	‡	‡
Research and doctoral	17.85	16.47	17.86	-0.01*	-1.39
Master's	39.81	38.78	39.82	-0.01*	-1.04
Baccalaureate	6.71	5.78	6.70	0.01*	-0.92
Special focus and other	35.64	38.53	35.62	0.02*	2.91
Unavailable or unknown	‡	‡	‡	‡	‡
Degree of urbanization					
Large city	30.77	36.90	30.78	-0.01*	6.12
Midsize city	14.15	12.13	14.14	0.01	-2.01
Small city	13.39	11.15	13.39	#	-2.24
Large suburb	28.18	26.08	28.17	0.01	-2.09
Midsize suburb	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡
Urban area distant from town	4.47	4.43	4.47	#	-0.04
Urban area remote from town	‡	‡	‡	‡	‡
Rural area on fringe of town	1.85	1.74	1.85	#	-0.11
Rural area distant from town	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ³					
New England	8.15	7.55	8.15	#	-0.60
Mideast	18.97	20.78	18.98	-0.01*	1.80
Great Lakes	19.40	20.19	19.39	0.01	0.80
Plains	8.19	9.17	8.19	#	0.98
Southeast	22.90	19.42	22.90	#	-3.48
Southwest	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡
Far West	9.65	13.05	9.65	#	3.40
Outlying Areas	‡	‡	‡	‡	‡
Historically Black College or University					
Yes	‡	‡	‡	‡	‡
No or unavailable or unknown	96.42	96.36	96.42	#	-0.06
Hispanic-Serving Institution					
Yes	9.25	9.00	9.25	#	-0.25
No	90.75	91.00	90.75	#	0.25
Percentage of graduate students enrolled: Black, non-Hispanic ⁴					
0–4	32.37	35.09	32.37	#	2.72
5–7	14.31	18.77	14.31	#	4.46
8–14	20.43	22.07	20.43	#	1.64
15 or more	32.75	23.93	32.74	0.01	-8.81*
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-61. Institution-level analysis after poststratification for selected variables—private nonprofit 4-year, doctorate-granting graduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of graduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁴					
0–2	28.32	26.80	28.32	#	-1.52
3–4	26.93	26.41	26.92	0.01	-0.51
5–7	25.14	28.45	25.14	#	3.31
8 or more	19.47	18.19	19.48	-0.01*	-1.29
Unknown	‡	‡	‡	‡	‡
Percentage of graduate students enrolled: Hispanic ⁴					
0–3	25.43	29.30	25.43	#	3.87
4–6	23.70	21.56	23.70	#	-2.14
7–10	21.59	16.10	21.59	#	-5.49*
11 or more	29.13	32.89	29.13	#	3.76
Unknown	‡	‡	‡	‡	‡
Total graduate enrollment ⁴					
1–644	39.80	38.30	39.76	0.04*	-1.46
645–1,318	20.13	24.05	20.13	#	3.92
1,319–3,254	21.02	19.21	21.04	-0.02*	-1.83
3,255 or more	19.05	18.44	19.07	-0.02*	-0.63
Total male graduate enrollment ⁴					
1–214	30.03	25.04	30.00	0.03*	-4.96
215–434	30.56	33.57	30.56	#	3.01
435–1,215	21.93	24.57	21.95	-0.02*	2.62
1,216 or more	17.48	16.82	17.49	-0.01*	-0.67
Total female graduate enrollment ⁴					
1–390	37.83	37.39	37.80	0.03*	-0.41
391–825	20.37	24.38	20.37	#	4.01
826–1,902	21.14	18.73	21.16	-0.02*	-2.43
1,903 or more	20.66	19.50	20.68	-0.02*	-1.18
Number of office and administrative employees ⁴					
0–33	30.98	33.96	30.96	0.02*	3.00
34–66	30.06	28.48	30.05	0.01	-1.57
67–156	21.48	20.05	21.49	-0.01*	-1.44
157 or more	17.34	16.93	17.35	-0.01*	-0.42
Unknown	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the institution base weight adjusted for nonresponse.² Mean is calculated using the institution base weight adjusted for nonresponse and poststratification.

³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.

⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-62. Institution-level analysis after poststratification for selected variables—private for-profit 4-year graduate-enrolling institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Carnegie classification 2015: Basic					
Associate's	‡	‡	‡	‡	‡
Research and doctoral	‡	‡	‡	‡	‡
Master's	19.72	15.46	20.08	-0.36	-4.62
Baccalaureate	2.74	7.91	2.94	-0.20	4.97*
Special focus and other	48.19	47.84	46.45	1.74	1.39
Unavailable or unknown	‡	‡	‡	‡	‡
Degree of urbanization					
Large city	48.78	48.93	47.68	1.10	1.25
Midsize city	5.80	9.90	5.82	-0.02	4.08*
Small city	2.92	5.49	3.14	-0.22	2.35
Large suburb	39.63	31.27	40.78	-1.15	-9.51
Midsize suburb	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡
Urban area distant from town	‡	‡	‡	‡	‡
Urban area remote from town	‡	‡	‡	‡	‡
Rural area on fringe of town	‡	‡	‡	‡	‡
Rural area distant from town	‡	‡	‡	‡	‡
Rural area remote from town	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ³					
New England	‡	‡	‡	‡	‡
Mideast	‡	‡	‡	‡	‡
Great Lakes	‡	‡	‡	‡	‡
Plains	3.15	6.06	3.26	-0.11	2.80*
Southeast	10.19	20.11	9.39	0.80	10.72*
Southwest	12.36	6.52	13.11	-0.75	-6.59
Rocky Mountains	‡	‡	‡	‡	‡
Far West	‡	‡	‡	‡	‡
Outlying Areas	‡	‡	‡	‡	‡
Hispanic-Serving Institution					
Yes	‡	‡	‡	‡	‡
No	79.26	75.01	79.13	0.13	-4.12
Percentage of graduate students enrolled: Black, non-Hispanic ⁴					
0–6	36.04	33.26	35.22	0.82	-1.96
7–18	15.40	17.38	13.86	1.54*	3.52
19–36	13.39	8.24	13.46	-0.07	-5.22
37 or more	2.53	9.11	2.37	0.16	6.74*
Unknown	‡	‡	‡	‡	‡
Percentage of graduate students enrolled: Asian or Pacific Islander, non-Hispanic ⁴					
0	17.91	17.86	18.50	-0.59	-0.64
1–3	5.41	7.61	4.84	0.57*	2.77
4–7	16.65	12.72	16.62	0.03	-3.90
8 or more	27.38	29.80	24.94	2.44*	4.86
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-62. Institution-level analysis after poststratification for selected variables—private for-profit 4-year graduate-enrolling institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of graduate students enrolled: Hispanic ⁴					
0–2	5.73	11.40	5.53	0.20	5.87*
3–6	15.58	10.29	15.97	-0.39	-5.68
7–11	29.83	27.20	28.17	1.66	-0.97
12 or more	16.21	19.10	15.23	0.98	3.87
Unknown	‡	‡	‡	‡	‡
Total graduate enrollment ⁴					
1–17	‡	‡	‡	‡	‡
18–241	26.24	20.27	28.11	-1.87*	-7.84
242–1,492	24.62	28.73	22.03	2.59*	6.70
1,493 or more	16.49	18.04	14.76	1.73*	3.28
Total male graduate enrollment ⁴					
1–3	32.17	32.96	34.59	-2.42*	-1.63
4–77	26.16	19.99	28.12	-1.96*	-8.13
78–470	28.29	33.09	25.32	2.97*	7.77*
471 or more	13.38	13.96	11.98	1.40*	1.98
Total female graduate enrollment ⁴					
1–8	‡	‡	‡	‡	‡
9–145	26.41	20.66	28.26	-1.85*	-7.60
146–1,041	24.45	28.35	21.88	2.57*	6.47
1,042 or more	16.49	18.04	14.76	1.73*	3.28
Number of office and administrative employees ⁴					
0–4	17.61	21.57	18.38	-0.77	3.19
5–14	10.62	11.47	10.31	0.31	1.16
15–35	32.55	36.80	30.74	1.81	6.06
36 or more	16.13	16.97	15.76	0.37	1.21
Unknown	23.09	13.19	24.82	-1.73*	-11.63

‡ Reporting standards not met (fewer than five nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the institution base weight adjusted for nonresponse.² Mean is calculated using the institution base weight adjusted for nonresponse and poststratification.³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Institution base weight" refers to the institution sampling weight. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-63. Undergraduate student-level survey nonresponse bias analysis for selected variables—all institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Control and level of institution					(Effect size = 0.11)			(Effect size = #)	
Public less-than-2-year	660	720	0.25	0.22	-0.02	-9.87	0.25	#	#
Public 2-year	25,940	23,730	31.18	27.36	-3.82*	-12.26	31.18	#	#
Public 4-year, non-doctorate-granting, primarily subbaccalaureate	5,020	4,130	7.71	7.16	-0.55*	-7.09	7.71	#	#
Public 4-year, non-doctorate-granting, primarily baccalaureate	5,650	2,970	5.39	5.90	0.51*	9.46	5.39	#	#
Public 4-year, doctorate-granting	17,240	9,840	30.61	33.12	2.51*	8.21	30.61	#	#
Private nonprofit less-than-4-year	650	690	0.35	0.31	-0.04	-11.87	0.35	#	#
Private nonprofit 4-year, non-doctorate-granting	6,230	2,760	6.45	7.49	1.03*	16.02	6.45	#	#
Private nonprofit 4-year, doctorate-granting	7,620	3,890	10.54	11.57	1.03*	9.81	10.54	#	#
Private for-profit less-than-2-year	2,470	2,640	1.48	1.14	-0.34*	-23.08	1.48	#	#
Private for-profit 2-year	3,390	4,060	1.36	1.06	-0.30*	-22.23	1.36	#	#
Private for-profit 4-year	5,890	3,900	4.69	4.68	-0.01	-0.25	4.69	#	#
Bureau of Economic Analysis region*					(Effect size = 0.04)			(Effect size = #)	
New England	4,800	3,440	5.42	5.63	0.21	3.96	5.42	#	#
Mideast	11,630	7,970	13.83	13.98	0.15	1.09	13.83	#	#
Great Lakes	9,610	6,950	13.30	13.45	0.14	1.06	13.30	#	#
Plains	6,280	3,990	6.47	6.83	0.36*	5.55	6.47	#	#
Southeast	20,430	15,120	23.87	24.31	0.43	1.81	23.87	#	#
Southwest	9,360	7,410	12.50	12.13	-0.37	-2.99	12.50	#	#
Rocky Mountains	4,570	3,350	4.86	5.24	0.38*	7.75	4.86	#	#
Far West	12,550	9,930	18.69	17.38	-1.31*	-7.00	18.69	#	#
Outlying Areas	1,520	1,160	1.05	1.06	0.01	0.69	1.05	#	#
Federal aid status					(Effect size = 0.13)			(Effect size = #)	
Received	51,290	29,710	52.75	59.04	6.29*	11.93	52.75	#	#
Did not receive	22,680	20,610	37.81	33.67	-4.14*	-10.96	37.81	#	#
Missing	6,790	9,000	9.44	7.29	-2.15*	-22.76	9.44	#	#
Direct Loan status					(Effect size = 0.10)			(Effect size = #)	
Received	31,720	16,850	31.78	36.62	4.84*	15.24	31.78	#	#
Did not receive	49,040	42,470	68.22	63.38	-4.84*	-7.10	68.22	#	#

See notes at end of table.

Table M-63. Undergraduate student-level survey nonresponse bias analysis for selected variables—all institutions: 2019–20—
Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Total Direct Loan amount received ⁵					(Effect size = 0.11)			(Effect size = #)	
None	49,040	42,470	68.22	63.38	-4.84*	-7.10	68.22	#	#
\$1–\$4,500	7,460	4,780	7.87	8.64	0.77*	9.84	7.87	#	#
\$4,501–\$5,500	8,490	4,350	7.00	8.06	1.06*	15.10	7.00	#	#
\$5,501–\$8,617	7,690	3,690	10.14	11.95	1.82*	17.94	10.14	#	#
\$8,618 or more	8,080	4,030	6.78	7.97	1.19*	17.63	6.78	#	#
Age as of December 31, 2019					(Effect size = ‡)			(Effect size = ‡)	
15–23	55,770	38,970	64.07	65.71	1.65*	2.57	64.18	0.12	0.18
24–29	11,380	8,890	16.11	15.49	-0.62*	-3.84	16.12	0.01	0.08
30 or older	13,610	10,940	19.66	18.80	-0.87*	-4.40	19.70	0.03	0.18
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Institution aid status					(Effect size = 0.10)			(Effect size = #)	
Received	22,640	10,250	26.34	30.83	4.48*	17.02	26.34	#	#
Did not receive	42,030	33,070	57.92	55.18	-2.74*	-4.73	57.92	#	#
Unknown	16,090	16,010	15.74	13.99	-1.75*	-11.09	15.74	#	#
State aid status					(Effect size = 0.08)			(Effect size = #)	
Received	16,070	7,890	19.44	22.33	2.89*	14.89	19.44	#	#
Did not receive	48,260	35,110	64.32	63.29	-1.03*	-1.61	64.32	#	#
Unknown	16,430	16,320	16.24	14.38	-1.86*	-11.46	16.24	#	#
Received any aid excluding private loans					(Effect size = 0.17)			(Effect size = #)	
Yes	62,930	35,620	67.50	75.54	8.04*	11.91	67.50	#	#
No	12,030	14,490	23.81	18.30	-5.50*	-23.11	23.81	#	#
Unknown	5,800	9,210	8.69	6.15	-2.54*	-29.20	8.69	#	#
Veteran status					(Effect size = 0.01)			(Effect size = #)	
Yes	2,550	2,100	3.69	3.47	-0.22*	-5.92	3.69	#	#
No	78,210	57,220	96.31	96.53	0.22*	0.23	96.31	#	#

See notes at end of table.

Table M-63. Undergraduate student-level survey nonresponse bias analysis for selected variables—all institutions: 2019–20—
Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Race/ethnicity					(Effect size = 0.27)			(Effect size = 0.31)	
American Indian or Alaska Native, not Hispanic or Latino	620	520	0.55	0.53	-0.02	-4.47	0.94	0.39*	70.32
Asian, not Hispanic or Latino	5,840	2,680	7.42	8.30	0.88*	11.80	7.42	#	#
Black, not Hispanic or Latino	11,930	7,010	12.68	13.64	0.96*	7.57	12.68	#	#
Hispanic or Latino, of any race	18,500	10,210	20.40	22.03	1.62*	7.95	20.40	#	#
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	360	180	0.33	0.33	#	-0.27	0.70	0.36*	110.07
White, not Hispanic or Latino	39,020	22,480	46.78	50.09	3.31*	7.06	46.78	#	#
Two or more races, not Hispanic or Latino	3,730	1,670	3.90	4.41	0.51*	13.05	8.45	4.55*	116.59
Unknown	760	14,590	7.92	0.68	-7.25*	-91.48	2.62	-5.30*	-66.94
Gender					(Effect size = 0.09)			(Effect size = 0.03)	
Male	30,380	27,070	42.14	38.69	-3.45*	-8.20	42.31	0.17	0.41
Female	49,250	29,640	55.94	59.97	4.03*	7.21	56.12	0.18	0.32
Unknown	1,130	2,620	1.92	1.35	-0.58*	-30.09	1.57	-0.35*	-18.17
Institution total undergraduate enrollment ⁵					(Effect size = 0.01)			(Effect size = #)	
1–2,835	20,130	14,990	12.35	12.71	0.36*	2.93	12.35	#	#
2,836–9,066	20,300	14,770	20.25	20.49	0.24	1.17	20.25	#	#
9,067–21,075	19,870	15,090	28.43	27.94	-0.49	-1.74	28.43	#	#
21,076 or more	20,460	14,480	38.97	38.87	-0.11	-0.27	38.97	#	#
Major					(Effect size = 0.22)			(Effect size = 0.19)	
Undecided	810	950	1.31	0.87	-0.45*	-34.13	1.05	-0.26*	-19.88
Humanities	10,610	10,890	15.22	12.78	-2.48*	-16.30	13.14	-2.07*	-13.63
Social/behavioral sciences	5,790	2,190	7.76	9.09	1.35*	17.43	8.58	0.81*	10.47
Life sciences	7,210	3,310	9.26	10.46	1.22*	13.20	9.88	0.63*	6.77
Physical sciences/mathematics	1,210	600	1.73	1.92	0.19*	11.20	1.88	0.15*	8.87
Computer/information science	3,780	2,010	4.96	5.33	0.38*	7.56	5.62	0.65*	13.20
Engineering	4,550	2,400	5.85	6.43	0.59*	10.07	6.72	0.87*	14.91
Education	4,050	1,410	4.50	5.55	1.07*	23.86	5.13	0.63*	14.06
Business/management	9,980	6,540	14.69	14.81	0.11	0.78	14.75	0.06	0.40
Health	17,300	9,210	15.90	17.72	1.86*	11.68	17.39	1.48*	9.34
Vocational/technical	2,770	3,560	2.89	2.19	-0.71*	-24.67	2.65	-0.24*	-8.30
Other technical/professional	10,230	6,280	11.60	12.21	0.61*	5.30	12.22	0.62*	5.33
Unknown	670	7,170	4.32	0.64	-3.75*	-86.89	0.98	-3.34*	-77.34

See notes at end of table.

Table M-63. Undergraduate student-level survey nonresponse bias analysis for selected variables—all institutions: 2019–20—
Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Degree program (undergraduate only)					(Effect size = ‡)			(Effect size = ‡)	
Certificate	9,110	9,290	6.45	5.12	-1.33*	-20.61	6.27	-0.18	-2.75
Associate's degree	30,190	19,900	32.17	31.97	-0.20	-0.63	35.27	3.10*	9.64
Bachelor's degree	39,660	19,040	54.66	61.17	6.51*	11.91	56.31	1.64*	3.01
Not in a degree program or others	1,800	2,740	2.84	1.74	-1.10*	-38.76	2.15	-0.69*	-24.29
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Pell Grant status					(Effect size = 0.08)			(Effect size = #)	
Received	35,890	21,830	35.30	39.14	3.84*	10.87	35.30	#	#
Did not receive	44,870	37,490	64.70	60.86	-3.84*	-5.93	64.70	#	#
Total Pell amount received ⁶					(Effect size = 0.09)			(Effect size = #)	
None	44,870	37,490	64.70	60.86	-3.84*	-5.93	64.70	#	#
\$1–\$3,097	9,800	7,720	11.06	11.22	0.16	1.49	11.06	#	#
\$3,098–\$6,194	13,650	8,170	13.39	15.05	1.66*	12.42	13.39	#	#
\$6,195 or more	12,450	5,940	10.86	12.87	2.01*	18.50	10.86	#	#
First-time beginner status (sampled)					(Effect size = #)			(Effect size = #)	
Yes	28,330	22,080	14.50	14.48	-0.02	-0.14	14.50	#	#
No	52,430	37,240	85.50	85.52	0.02	0.02	85.50	#	#
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁷					(Effect size = 0.04)			(Effect size = 0.03)	
1–67	25,510	19,620	34.88	34.03	-0.86*	-2.46	35.76	0.88*	2.51
68–82	22,360	16,880	28.26	27.76	-0.50	-1.78	28.57	0.30	1.07
83–94	18,330	13,960	22.45	22.50	0.05	0.23	21.63	-0.82*	-3.66
95 or more	13,620	8,280	13.66	14.89	1.23*	9.02	13.26	-0.39*	-2.88
None or unknown	940	590	0.75	0.82	0.08	10.40	0.78	0.04	4.81
Number of full-time, first-time undergraduate students living on campus ⁷					(Effect size = 0.09)			(Effect size = 0.01)	
0–114	6,560	5,130	6.37	6.02	-0.35*	-5.48	6.31	-0.07	-1.06
115–274	7,200	4,100	7.14	7.76	0.62*	8.66	7.16	0.03	0.37
275–656	8,180	4,070	11.00	12.13	1.13*	10.27	10.87	-0.14	-1.23
657 or more	17,550	9,760	31.09	33.76	2.67*	8.60	31.26	0.17	0.55
Unknown	41,270	36,260	44.40	40.33	-4.07*	-9.17	44.41	0.01	0.01

See notes at end of table.

Table M-63. Undergraduate student-level survey nonresponse bias analysis for selected variables—all institutions: 2019–20—
Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁷					(Effect size = 0.01)		(Effect size = 0.01)		
0–36	9,290	6,480	7.11	7.42	0.31	4.34	7.26	0.15	2.14
37–90	11,790	8,270	11.87	12.04	0.16	1.38	11.81	-0.06	-0.54
91–218	19,180	14,630	20.59	20.39	-0.20	-0.99	21.03	0.43	2.11
219 or more	37,590	27,580	58.38	58.14	-0.23	-0.40	57.90	-0.48	-0.82
Unknown	2,920	2,350	2.05	2.01	-0.03	-1.69	2.00	-0.04	-2.15
Average amount of grant and scholarship aid received ⁷					(Effect size = 0.08)		(Effect size = 0.01)		
\$0–\$5,000	17,270	16,600	18.06	16.20	-1.85*	-10.27	18.19	0.13	0.75
\$5,001–\$6,090	20,880	17,530	25.50	23.47	-2.03*	-7.96	25.49	-0.01	-0.03
\$6,091–\$9,754	22,610	14,920	30.75	32.05	1.29*	4.21	30.56	-0.20	-0.64
\$9,755 or more	18,110	8,900	24.62	27.16	2.54*	10.32	24.67	0.05	0.21
Unknown	1,880	1,370	1.07	1.12	0.05	4.56	1.09	0.02	1.68
Total income from CPS:20 ⁸					(Effect size = 0.15)		(Effect size = #)		
–\$1,017,256–\$14,287	11,260	7,820	12.33	13.16	0.84*	6.80	12.33	#	#
\$14,288–\$34,554	12,140	7,000	14.13	15.58	1.44*	10.22	14.13	#	#
\$34,555–\$81,855	12,790	6,470	15.22	17.47	2.25*	14.77	15.22	#	#
\$81,856 or more	13,420	5,980	16.34	19.21	2.88*	17.61	16.34	#	#
Unknown	360	360	0.50	0.43	-0.07*	-14.67	0.50	#	#
Not matched in CPS:20	30,790	31,690	41.49	34.15	-7.33*	-17.68	41.49	#	#
Parents' highest education from CPS:20					(Effect size = 0.15)		(Effect size = #)		
Middle school/junior high	2,660	1,600	3.16	3.44	0.28*	8.89	3.16	#	#
High school	16,330	9,750	18.72	20.51	1.79*	9.54	18.72	#	#
College or beyond	27,530	13,410	33.07	38.38	5.31*	16.06	33.07	#	#
Other/unknown	2,970	2,380	3.13	3.13	#	-0.01	3.13	#	#
Missing	490	500	0.43	0.39	-0.04*	-9.73	0.43	#	#
Not matched in CPS:20	30,790	31,690	41.49	34.15	-7.33*	-17.68	41.49	#	#
Has dependents from CPS:20					(Effect size = ‡)		(Effect size = ‡)		
Yes	8,970	5,580	10.40	11.40	1.00*	9.59	10.40	#	#
No	40,990	22,050	48.11	54.45	6.34*	13.18	48.11	#	0.01
Missing	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	30,790	31,690	41.49	34.15	-7.33*	-17.68	41.49	#	#

See notes at end of table.

Table M-63. Undergraduate student-level survey nonresponse bias analysis for selected variables—all institutions: 2019–20—
Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Student's marital status from CPS:20					(Effect size = 0.15)			(Effect size = #)	
Single	43,430	24,230	50.44	56.60	6.16*	12.21	50.44	#	#
Married/remarried	4,780	2,400	6.02	6.89	0.87*	14.49	6.02	#	#
Separated	640	390	0.65	0.74	0.09*	14.14	0.65	#	#
Divorced/widowed	1,120	610	1.41	1.62	0.21*	14.94	1.41	#	#
Not matched in CPS:20	30,790	31,690	41.49	34.15	-7.33*	-17.68	41.49	#	#

Rounds to zero.

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the student base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the student base weight adjusted for nonresponse) and weighted full-sample mean (using the student base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁷ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁸ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations. As part of the expected family contribution (EFC) formula, some calculations include allowances against income or asset amounts that can result in negative numbers. NOTE: CPS = Central Processing System. Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-64. Undergraduate student-level survey nonresponse bias analysis for selected variables—public less-than-2-year institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Bureau of Economic Analysis region ⁴					(Effect size = ‡)			(Effect size = ‡)	
New England	‡	‡	‡	‡	‡	‡	‡	‡	‡
Mideast	‡	‡	‡	‡	‡	‡	‡	‡	‡
Great Lakes	160	170	24.09	19.64	-4.45	-18.46	18.95	-5.14	-21.33
Plains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southeast	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southwest	200	190	14.03	13.93	-0.10	-0.71	15.71	1.68	11.99
Rocky Mountains	220	320	27.75	22.05	-5.70*	-20.55	25.10	-2.64	-9.52
Far West	‡	‡	‡	‡	‡	‡	‡	‡	‡
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡
Federal aid status					(Effect size = 0.08)			(Effect size = 0.09)	
Received	350	280	51.95	56.10	4.15	7.99	48.45	-3.50	-6.73
Did not receive	300	410	45.90	42.16	-3.74	-8.15	50.11	4.20	9.15
Missing	10	40	2.15	1.74	-0.41	-19.16	1.45	-0.70	-32.72
Direct Loan status					(Effect size = 0.10)			(Effect size = 0.04)	
Received	80	50	23.35	27.45	4.10*	17.57	21.58	-1.77	-7.56
Did not receive	580	670	76.65	72.55	-4.10*	-5.35	78.42	1.77	2.30
Total Direct Loan amount received ⁵					(Effect size = ‡)			(Effect size = ‡)	
None	580	670	76.65	72.55	-4.10*	-5.35	78.42	1.77	2.30
\$1–\$3,500	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$3,501–\$5,000	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$5,001–\$8,673	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$8,674 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Age as of December 31, 2019					(Effect size = ‡)			(Effect size = ‡)	
15–23	390	470	46.25	42.30	-3.95	-8.53	45.56	-0.69	-1.49
24–29	120	120	23.31	23.55	0.24	1.04	21.92	-1.39	-5.96
30 or older	150	130	30.44	34.15	3.70*	12.17	32.52	2.08	6.83
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-64. Undergraduate student-level survey nonresponse bias analysis for selected variables—public less-than-2-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Institution aid status					(Effect size = 0.04)			(Effect size = 0.05)	
Received	100	100	8.41	9.07	0.66	7.87	7.98	-0.42	-5.05
Did not receive	540	580	88.32	88.14	-0.18	-0.20	89.51	1.19	1.35
Unknown	20	50	3.28	2.79	-0.48	-14.75	2.51	-0.77	-23.36
State aid status					(Effect size = ‡)			(Effect size = ‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	620	660	93.96	94.20	0.24	0.25	94.43	0.47	0.50
Unknown	20	50	3.28	2.79	-0.48	-14.75	2.51	-0.77	-23.36
Received any aid excluding private loans					(Effect size = 0.09)			(Effect size = 0.12)	
Yes	450	390	60.26	64.16	3.90	6.47	55.85	-4.42*	-7.33
No	200	300	37.81	34.50	-3.31	-8.74	43.07	5.26*	13.91
Unknown	10	40	1.93	1.33	-0.59	-30.76	1.09	-0.84	-43.62
Veteran status					(Effect size = ‡)			(Effect size = ‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡
No	630	700	95.78	94.53	-1.25	-1.31	94.91	-0.87	-0.91
Race/ethnicity					(Effect size = ‡)			(Effect size = ‡)	
American Indian or Alaska Native, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
Asian, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
Black, not Hispanic or Latino	70	50	19.74	24.15	4.41*	22.33	22.29	2.55	12.93
Hispanic or Latino, of any race	120	110	11.90	12.88	0.98	8.26	12.44	0.54	4.54
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
White, not Hispanic or Latino	410	420	55.56	56.50	0.93	1.68	56.38	0.82	1.47
Two or more races, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	#	90	7.85	0.06	-7.79	-99.23	0.22	-7.63	-97.19
Gender					(Effect size = 0.20)			(Effect size = 0.17)	
Male	350	430	42.75	39.30	-3.45	-8.07	44.81	2.06	4.83
Female	310	240	53.67	60.26	6.59*	12.28	54.72	1.05	1.96
Unknown	10	50	3.58	0.44	-3.14	-87.64	0.47	-3.11	-86.91

See notes at end of table.

Table M-64. Undergraduate student-level survey nonresponse bias analysis for selected variables—public less-than-2-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Institution total undergraduate enrollment ⁵					(Effect size = 0.10)			(Effect size = 0.03)	
1–420	230	210	55.12	59.48	4.35	7.89	54.80	-0.32	-0.58
421–1,450	110	150	13.81	13.88	0.07	0.50	14.72	0.90	6.55
1,451–3,938	200	200	13.79	12.55	-1.24	-9.01	13.74	-0.05	-0.35
3,939 or more	120	170	17.27	14.09	-3.18	-18.40	16.74	-0.53	-3.10
Major					(Effect size = ‡)			(Effect size = ‡)	
Undecided	‡	‡	‡	‡	‡	‡	‡	‡	‡
Humanities	‡	‡	‡	‡	‡	‡	‡	‡	‡
Social/behavioral sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡
Life sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡
Physical sciences/mathematics	‡	‡	‡	‡	‡	‡	‡	‡	‡
Computer/information science	50	50	4.91	4.20	-0.71	-14.54	4.90	-0.01	-0.15
Engineering	50	40	4.32	4.63	0.31	7.22	4.91	0.59	13.65
Education	‡	‡	‡	‡	‡	‡	‡	‡	‡
Business/management	40	40	3.54	3.90	0.36	10.11	3.55	0.01	0.26
Health	210	170	51.77	55.51	3.75	7.24	50.57	-1.20	-2.32
Vocational/technical	170	250	20.65	17.28	-3.38	-16.35	20.63	-0.03	-0.12
Other technical/professional	140	120	12.06	12.57	0.51	4.24	13.43	1.37*	11.35
Unknown	#	40	1.40	0.07	-1.33	-94.89	0.08	-1.32	-94.42
Degree program (undergraduate only)					(Effect size = ‡)			(Effect size = ‡)	
Certificate	660	680	98.19	99.95	1.76	1.80	99.97	1.78	1.81
Associate's degree	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bachelor's degree	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not in a degree program or others	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Pell Grant status					(Effect size = 0.07)			(Effect size = 0.03)	
Received	240	160	32.86	36.13	3.27	9.96	31.43	-1.42	-4.33
Did not receive	430	560	67.14	63.87	-3.27	-4.87	68.57	1.42	2.12

See notes at end of table.

Table M-64. Undergraduate student-level survey nonresponse bias analysis for selected variables—public less-than-2-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Total Pell amount received ⁶					(Effect size = ‡)			(Effect size = ‡)	
None	430	560	67.14	63.87	-3.27	-4.87	68.57	1.42	2.12
\$1–\$2,587	100	70	10.34	9.90	-0.44	-4.27	9.34	-1.00	-9.65
\$2,588–\$6,194	100	70	13.14	14.37	1.23	9.35	13.15	0.01	0.07
\$6,195 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
First-time beginner status (sampled)					(Effect size = 0.06)			(Effect size = 0.01)	
Yes	340	410	23.15	20.49	-2.67*	-11.52	22.75	-0.41	-1.75
No	330	320	76.85	79.51	2.67*	3.47	77.25	0.41	0.53
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁷					(Effect size = ‡)			(Effect size = ‡)	
1–46	230	220	50.37	56.36	5.98	11.88	54.41	4.04	8.01
47–65	270	300	23.46	20.88	-2.58	-10.98	21.76	-1.70	-7.27
66–83	30	60	5.30	5.03	-0.27	-5.04	5.49	0.19	3.54
84 or more	130	140	20.49	17.62	-2.87	-14.00	18.24	-2.25	-10.98
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁷					(Effect size = ‡)			(Effect size = ‡)	
1–10	‡	‡	‡	‡	‡	‡	‡	‡	‡
11 or more	110	120	11.19	10.00	-1.20	-10.69	10.05	-1.15	-10.23
Unknown	550	610	87.63	87.98	0.36	0.41	87.89	0.27	0.30
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁷					(Effect size = ‡)			(Effect size = ‡)	
0–3	340	350	48.08	53.04	4.96	10.32	50.73	2.65	5.51
4–11	‡	‡	‡	‡	‡	‡	‡	‡	‡
12–21	200	240	22.16	20.75	-1.41	-6.37	21.64	-0.52	-2.34
22 or more	30	40	11.44	8.33	-3.11	-27.16	8.56	-2.89	-25.22
Unknown	70	80	15.77	14.45	-1.32	-8.37	15.22	-0.56	-3.52

See notes at end of table.

Table M-64. Undergraduate student-level survey nonresponse bias analysis for selected variables—public less-than-2-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Average amount of grant and scholarship aid received ⁷					(Effect size = 0.16)			(Effect size = 0.09)	
\$0–\$3,048	140	130	37.29	44.85	7.55*	20.26	41.27	3.97	10.66
\$3,049–\$3,955	30	30	5.99	5.82	-0.18	-2.96	6.00	0.01	0.10
\$3,956–\$5,239	200	210	19.94	17.54	-2.40	-12.02	19.23	-0.71	-3.57
\$5,240 or more	120	130	12.54	10.81	-1.73	-13.82	10.84	-1.70	-13.53
Unknown	170	210	24.23	20.99	-3.25	-13.39	22.66	-1.57	-6.48
Total income from CPS:20 ⁸					(Effect size = ‡)			(Effect size = ‡)	
-\$2,400–\$13,650	70	70	9.50	9.93	0.43	4.52	8.92	-0.58	-6.10
\$13,651–\$33,695	90	50	14.40	19.81	5.41*	37.60	16.36	1.96*	13.65
\$33,696–\$69,610	90	50	14.92	17.03	2.11	14.14	14.80	-0.12	-0.78
\$69,611 or more	70	60	11.61	11.02	-0.58	-5.01	9.68	-1.93*	-16.59
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	340	490	48.74	41.78	-6.96*	-14.29	49.76	1.02	2.09
Parents' highest education from CPS:20					(Effect size = ‡)			(Effect size = ‡)	
Middle school/junior high	‡	‡	‡	‡	‡	‡	‡	‡	‡
High school	130	90	19.04	21.94	2.90*	15.25	18.82	-0.22	-1.16
College or beyond	160	110	22.39	25.79	3.39	15.16	21.83	-0.56	-2.49
Other/unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Missing	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	340	490	48.74	41.78	-6.96*	-14.29	49.76	1.02	2.09
Has dependents from CPS:20					(Effect size = ‡)			(Effect size = ‡)	
Yes	80	50	17.73	20.75	3.02*	17.06	16.34	-1.39	-7.84
No	250	180	33.53	37.47	3.94*	11.75	33.90	0.37	1.11
Missing	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	340	490	48.74	41.78	-6.96*	-14.29	49.76	1.02	2.09

See notes at end of table.

Table M-64. Undergraduate student-level survey nonresponse bias analysis for selected variables—public less-than-2-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Student's marital status from CPS:20					(Effect size = ‡)			(Effect size = ‡)	
Single	260	200	40.69	43.51	2.82	6.93	38.29	-2.40	-5.90
Married/remarried	‡	‡	‡	‡	‡	‡	‡	‡	‡
Separated	‡	‡	‡	‡	‡	‡	‡	‡	‡
Divorced/widowed	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	340	490	48.74	41.78	-6.96*	-14.29	49.76	1.02	2.09

Rounds to zero.

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the student base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the student base weight adjusted for nonresponse) and weighted full-sample mean (using the student base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁷ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁸ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations. As part of the expected family contribution (EFC) formula, some calculations include allowances against income or asset amounts that can result in negative numbers. NOTE: CPS = Central Processing System. Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-65. Undergraduate student-level survey nonresponse bias analysis for selected variables—public 2-year institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Bureau of Economic Analysis region ⁴					(Effect size = ‡)			(Effect size = ‡)	
New England	1,570	1,460	3.95	4.06	0.11	2.74	4.04	0.09	2.19
Mideast	3,390	2,780	12.75	13.08	0.33	2.59	13.15	0.40	3.10
Great Lakes	3,120	3,000	14.51	14.47	-0.04	-0.30	14.34	-0.17	-1.14
Plains	2,270	1,960	6.63	6.95	0.32	4.78	6.54	-0.10	-1.46
Southeast	6,630	5,910	19.16	20.39	1.22*	6.39	19.63	0.46	2.41
Southwest	3,500	2,990	15.32	15.68	0.35	2.32	15.64	0.31	2.04
Rocky Mountains	720	770	1.05	1.03	-0.02	-2.24	1.01	-0.04	-3.68
Far West	4,740	4,850	26.61	24.34	-2.27*	-8.52	25.66	-0.96	-3.59
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡
Federal aid status					(Effect size = 0.16)			(Effect size = 0.01)	
Received	14,450	9,600	43.75	51.32	7.57*	17.30	43.66	-0.09	-0.21
Did not receive	7,940	8,580	39.09	35.22	-3.87*	-9.91	39.50	0.41	1.04
Missing	3,550	5,550	17.16	13.47	-3.69*	-21.53	16.84	-0.32	-1.85
Direct Loan status					(Effect size = 0.08)			(Effect size = #)	
Received	4,990	3,160	14.44	17.22	2.78*	19.28	14.29	-0.15	-1.04
Did not receive	20,960	20,570	85.56	82.78	-2.78*	-3.25	85.71	0.15	0.18
Total Direct Loan amount received ⁵					(Effect size = 0.08)			(Effect size = 0.01)	
None	20,960	20,570	85.56	82.78	-2.78*	-3.25	85.71	0.15	0.18
\$1–\$3,250	1,180	910	3.71	4.15	0.44*	11.90	3.61	-0.10	-2.80
\$3,251–\$5,500	2,050	1,240	5.41	6.45	1.03*	19.03	5.37	-0.05	-0.86
\$5,501–\$6,999	450	280	1.43	1.73	0.30*	20.84	1.40	-0.03	-2.09
\$7,000 or more	1,310	730	3.88	4.89	1.01*	26.12	3.91	0.03	0.77
Age as of December 31, 2019					(Effect size = ‡)			(Effect size = ‡)	
15–23	16,560	14,900	54.69	54.76	0.06	0.11	54.42	-0.27	-0.50
24–29	4,060	3,540	19.20	19.60	0.41	2.12	19.94	0.74*	3.85
30 or older	5,320	4,930	25.93	25.64	-0.29	-1.10	25.64	-0.28	-1.10
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Institution aid status					(Effect size = 0.09)			(Effect size = 0.01)	
Received	2,610	1,430	7.68	9.65	1.98*	25.78	7.62	-0.06	-0.77
Did not receive	16,590	14,160	67.28	67.83	0.55	0.82	67.54	0.26	0.38
Unknown	6,740	8,140	25.05	22.52	-2.53*	-10.10	24.85	-0.20	-0.79

See notes at end of table.

Table M-65. Undergraduate student-level survey nonresponse bias analysis for selected variables—public 2-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
State aid status					(Effect size = 0.09)			(Effect size = 0.02)	
Received	5,360	3,380	17.52	20.59	3.07*	17.51	17.01	-0.51	-2.92
Did not receive	13,600	11,950	55.82	55.41	-0.41	-0.74	56.47	0.65	1.16
Unknown	6,990	8,400	26.66	24.00	-2.65*	-9.96	26.52	-0.13	-0.51
Received any aid excluding private loans					(Effect size = 0.19)			(Effect size = 0.02)	
Yes	17,490	11,350	54.14	63.72	9.58*	17.69	53.80	-0.33	-0.62
No	5,270	6,670	29.50	24.29	-5.21*	-17.66	30.21	0.71	2.41
Unknown	3,180	5,700	16.36	12.00	-4.37*	-26.69	15.99	-0.38	-2.30
Veteran status					(Effect size = 0.01)			(Effect size = #)	
Yes	840	830	4.01	3.82	-0.19	-4.78	3.96	-0.05	-1.34
No	25,110	22,900	95.99	96.18	0.19	0.20	96.04	0.05	0.06
Race/ethnicity					(Effect size = 0.33)			(Effect size = 0.45)	
American Indian or Alaska Native, not Hispanic or Latino	250	230	0.72	0.74	0.02	3.12	1.37	0.65*	90.90
Asian, not Hispanic or Latino	1,740	960	6.27	7.49	1.22*	19.54	6.35	0.08	1.30
Black, not Hispanic or Latino	4,020	2,640	12.83	14.92	2.09*	16.26	12.92	0.08	0.65
Hispanic or Latino, of any race	6,400	4,310	23.94	27.02	3.08*	12.87	23.60	-0.34	-1.44
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	110	70	0.39	0.42	0.02	6.33	0.97	0.58*	148.01
White, not Hispanic or Latino	11,960	8,930	40.82	43.96	3.15*	7.71	40.05	-0.76	-1.86
Two or more races, not Hispanic or Latino	1,210	580	3.55	4.51	0.96*	27.05	10.66	7.11*	200.15
Unknown	260	6,030	11.48	0.94	-10.55*	-91.85	4.08	-7.40*	-64.43
Gender					(Effect size = 0.15)			(Effect size = 0.07)	
Male	9,890	11,180	41.58	36.82	-4.76*	-11.44	41.28	-0.29	-0.71
Female	15,700	11,080	55.46	61.85	6.39*	11.53	56.93	1.47*	2.65
Unknown	350	1,470	2.96	1.33	-1.64*	-55.26	1.79	-1.18*	-39.72
Institution total undergraduate enrollment ⁵					(Effect size = 0.02)			(Effect size = 0.02)	
1–6,046	6,420	6,000	16.08	16.29	0.21	1.30	15.64	-0.44	-2.73
6,047–12,199	6,630	5,850	23.52	24.04	0.52	2.20	24.38	0.86	3.66
12,200–22,861	6,420	6,150	26.34	25.65	-0.69	-2.61	25.77	-0.57	-2.15
22,862 or more	6,460	5,730	34.06	34.02	-0.04	-0.12	34.21	0.14	0.42

See notes at end of table.

Table M-65. Undergraduate student-level survey nonresponse bias analysis for selected variables—public 2-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Major					(Effect size = 0.33)			(Effect size = 0.29)	
Undecided	200	240	0.99	0.78	-0.22*	-21.92	1.04	0.05	4.54
Humanities	4,920	6,430	23.21	19.16	-4.12*	-17.76	19.59	-3.62*	-15.59
Social/behavioral sciences	1,180	420	4.01	5.32	1.33*	33.20	5.12	1.11*	27.69
Life sciences	1,370	900	5.13	5.79	0.67*	13.03	5.80	0.67*	13.00
Physical sciences/mathematics	200	170	0.84	0.85	0.01	0.85	0.92	0.07	8.81
Computer/information science	1,280	690	4.38	5.38	1.02*	23.38	5.73	1.36*	31.03
Engineering	1,230	790	4.11	4.66	0.55*	13.45	4.97	0.86*	20.88
Education	1,280	370	3.59	5.27	1.71*	47.65	4.78	1.19*	33.09
Business/management	2,940	2,090	11.54	12.71	1.19*	10.28	12.61	1.06*	9.21
Health	5,480	2,380	17.77	22.87	5.19*	29.20	21.46	3.69*	20.76
Vocational/technical	1,160	1,590	5.17	3.91	-1.28*	-24.70	4.32	-0.84*	-16.31
Other technical/professional	3,030	1,960	10.65	12.10	1.47*	13.81	11.91	1.26*	11.80
Unknown	280	3,930	8.61	1.21	-7.52*	-87.43	1.76	-6.85*	-79.57
Degree program (undergraduate only)					(Effect size = ‡)			(Effect size = ‡)	
Certificate	2,260	2,530	9.07	8.00	-1.07*	-11.83	8.71	-0.36	-3.98
Associate's degree	22,290	14,310	76.34	87.37	11.02*	14.44	86.11	9.77*	12.79
Bachelor's degree	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not in a degree program or others	1,390	1,730	5.92	4.63	-1.28*	-21.66	5.18	-0.74	-12.45
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Pell Grant status					(Effect size = 0.14)			(Effect size = #)	
Received	11,870	7,830	35.86	42.34	6.48*	18.07	35.99	0.13	0.36
Did not receive	14,070	15,900	64.14	57.66	-6.48*	-10.10	64.01	-0.13	-0.20
Total Pell amount received ⁶					(Effect size = 0.15)			(Effect size = 0.01)	
None	14,070	15,900	64.14	57.66	-6.48*	-10.10	64.01	-0.13	-0.20
\$1–\$3,097	3,850	3,250	13.74	14.82	1.08*	7.85	13.76	0.02	0.15
\$3,098–\$6,194	4,810	3,010	14.20	17.17	2.97*	20.89	14.14	-0.06	-0.44
\$6,195 or more	3,220	1,570	7.91	10.35	2.43*	30.73	8.08	0.17	2.14
First-time beginner status (sampled)					(Effect size = 0.01)			(Effect size = #)	
Yes	9,480	8,760	14.47	14.13	-0.34*	-2.38	14.32	-0.16	-1.08
No	16,460	14,970	85.53	85.87	0.34*	0.40	85.68	0.16	0.18

See notes at end of table.

Table M-65. Undergraduate student-level survey nonresponse bias analysis for selected variables—public 2-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁷					(Effect size = ‡)			(Effect size = ‡)	
1–64	9,160	8,210	38.70	39.03	0.33	0.85	40.00	1.30*	3.36
65–76	7,000	6,190	27.40	27.35	-0.05	-0.18	27.93	0.53	1.94
77–87	5,960	5,650	22.01	21.38	-0.63	-2.87	20.86	-1.14*	-5.20
88 or more	3,820	3,680	11.88	12.23	0.35	2.93	11.19	-0.69*	-5.83
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁷					(Effect size = 0.01)			(Effect size = 0.02)	
0–39	890	770	3.31	3.33	0.02	0.55	3.27	-0.04	-1.27
40–70	880	790	3.36	3.48	0.12	3.53	3.36	#	#
71–127	1,100	1,240	2.88	2.71	-0.17	-6.03	2.61	-0.27	-9.44
128 or more	1,470	1,200	5.04	5.13	0.09	1.88	4.83	-0.21	-4.24
Unknown	21,600	19,720	85.42	85.36	-0.06	-0.07	85.94	0.53	0.62
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁷					(Effect size = 0.04)			(Effect size = 0.04)	
0–52	2,120	2,470	5.31	4.50	-0.82*	-15.37	4.51	-0.80*	-15.10
53–116	4,100	3,810	14.58	14.48	-0.10	-0.66	14.50	-0.07	-0.49
117–242	6,530	5,460	23.77	24.57	0.80	3.36	25.06	1.29*	5.41
243 or more	12,970	11,600	55.51	55.70	0.20	0.35	55.13	-0.38	-0.68
Unknown	220	390	0.83	0.75	-0.08	-9.91	0.80	-0.04	-4.43
Average amount of grant and scholarship aid received ⁷					(Effect size = ‡)			(Effect size = ‡)	
\$0–\$4,692	5,160	4,970	19.71	18.85	-0.86	-4.34	19.40	-0.30	-1.54
\$4,693–\$5,283	7,650	7,100	29.77	30.49	0.72	2.43	31.06	1.29*	4.34
\$5,284–\$5,932	7,060	6,190	28.49	28.80	0.30	1.07	28.34	-0.16	-0.56
\$5,933 or more	6,060	5,460	22.01	21.83	-0.18	-0.80	21.17	-0.84	-3.82
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total income from CPS:20 ⁸					(Effect size = 0.18)			(Effect size = 0.01)	
–\$300,000–\$13,191	3,650	2,650	13.19	14.74	1.55*	11.79	13.14	-0.05	-0.37
\$13,192–\$30,269	3,870	2,430	13.60	16.14	2.54*	18.66	13.91	0.31	2.25
\$30,270–\$64,287	3,840	2,460	13.40	15.79	2.39*	17.84	13.20	-0.20	-1.49
\$64,288 or more	3,940	2,360	11.75	14.00	2.25*	19.16	12.02	0.27	2.30
Unknown	170	220	0.82	0.69	-0.12*	-15.05	0.79	-0.03	-3.30
Not matched in CPS:20	10,470	13,610	47.25	38.63	-8.61*	-18.23	46.95	-0.30	-0.64

See notes at end of table.

Table M-65. Undergraduate student-level survey nonresponse bias analysis for selected variables—public 2-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Parents' highest education from CPS:20					(Effect size = 0.17)			(Effect size = 0.01)	
Middle school/junior high	1,060	690	3.81	4.47	0.66*	17.24	3.92	0.11	2.89
High school	5,720	3,870	19.78	22.67	2.89*	14.63	19.68	-0.09	-0.48
College or beyond	7,470	4,600	24.38	29.05	4.66*	19.12	24.70	0.31	1.29
Other/unknown	1,100	830	4.26	4.63	0.37*	8.65	4.21	-0.05	-1.26
Missing	140	130	0.52	0.55	0.03	5.81	0.54	0.02	4.69
Not matched in CPS:20	10,470	13,610	47.25	38.63	-8.61*	-18.23	46.95	-0.30	-0.64
Has dependents from CPS:20					(Effect size = ‡)			(Effect size = ‡)	
Yes	3,120	1,800	13.00	16.05	3.05*	23.47	13.38	0.38	2.93
No	12,350	8,320	39.74	45.31	5.56*	13.99	39.67	-0.08	-0.20
Missing	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	10,470	13,610	47.25	38.63	-8.61*	-18.23	46.95	-0.30	-0.64
Student's marital status from CPS:20					(Effect size = 0.18)			(Effect size = 0.01)	
Single	13,200	8,980	43.52	49.57	6.05*	13.90	43.60	0.08	0.19
Married/remarried	1,690	810	6.74	8.67	1.93*	28.61	6.96	0.22	3.24
Separated	200	110	0.87	1.09	0.22*	25.26	0.86	-0.01	-1.35
Divorced/widowed	390	230	1.63	2.04	0.42*	25.55	1.64	0.01	0.81
Not matched in CPS:20	10,470	13,610	47.25	38.63	-8.61*	-18.23	46.95	-0.30	-0.64

Rounds to zero.

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the student base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the student base weight adjusted for nonresponse) and weighted full-sample mean (using the student base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁷ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁸ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations. As part of the expected family contribution (EFC) formula, some calculations include allowances against income or asset amounts that can result in negative numbers.

NOTE: CPS = Central Processing System. Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-66. Undergraduate student-level survey nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Bureau of Economic Analysis region ⁴					(Effect size = ‡)			(Effect size = ‡)	
New England	‡	‡	‡	‡	‡	‡	‡	‡	‡
Midwest	290	240	3.99	4.24	0.25	6.17	4.09	0.10	2.39
Great Lakes	610	500	9.12	9.22	0.09	1.03	9.00	-0.12	-1.33
Plains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southeast	1,650	1,140	35.83	37.68	1.85	5.17	36.34	0.51	1.43
Southwest	680	630	11.85	10.96	-0.88*	-7.45	11.24	-0.61	-5.11
Rocky Mountains	490	340	8.27	9.55	1.28	15.52	9.27	1.00	12.06
Far West	1,260	1,270	30.52	27.80	-2.72*	-8.90	29.55	-0.97	-3.18
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡
Federal aid status					(Effect size = 0.14)			(Effect size = 0.03)	
Received	2,830	1,670	45.61	52.73	7.11*	15.60	45.86	0.24	0.54
Did not receive	1,860	1,970	47.32	41.35	-5.97*	-12.62	46.42	-0.90	-1.90
Missing	330	480	7.07	5.92	-1.15	-16.21	7.72	0.66	9.28
Direct Loan status					(Effect size = 0.09)			(Effect size = 0.01)	
Received	1,120	640	15.95	19.41	3.46*	21.68	16.32	0.37	2.30
Did not receive	3,900	3,490	84.05	80.59	-3.46*	-4.11	83.68	-0.37	-0.44
Total Direct Loan amount received ⁵					(Effect size = 0.10)			(Effect size = 0.02)	
None	3,900	3,490	84.05	80.59	-3.46*	-4.11	83.68	-0.37	-0.44
\$1–\$3,334	240	200	3.71	4.08	0.37*	9.98	3.53	-0.17	-4.71
\$3,335–\$5,500	530	260	6.22	7.80	1.58*	25.42	6.61	0.39*	6.27
\$5,501–\$6,500	80	50	1.54	1.87	0.33*	21.26	1.54	#	0.12
\$6,501 or more	270	130	4.49	5.67	1.18*	26.30	4.64	0.15	3.35
Age as of December 31, 2019					(Effect size = ‡)			(Effect size = ‡)	
15–23	3,490	2,750	56.27	57.08	0.81	1.43	56.95	0.68	1.21
24–29	720	630	20.52	20.11	-0.41	-2.00	19.98	-0.54	-2.64
30 or older	810	740	23.19	22.81	-0.38	-1.63	23.06	-0.12	-0.53
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-66. Undergraduate student-level survey nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Institution aid status					(Effect size = 0.08)			(Effect size = 0.02)	
Received	580	280	8.04	9.58	1.54*	19.22	7.96	-0.08	-0.97
Did not receive	3,910	3,120	82.52	82.57	0.05	0.06	82.14	-0.38	-0.47
Unknown	530	720	9.44	7.85	-1.59*	-16.83	9.91	0.46	4.90
State aid status					(Effect size = 0.09)			(Effect size = 0.02)	
Received	1,140	620	19.80	23.12	3.32*	16.74	19.44	-0.36	-1.82
Did not receive	3,380	2,890	71.11	69.17	-1.94*	-2.73	70.78	-0.33	-0.47
Unknown	500	620	9.09	7.71	-1.37*	-15.12	9.78	0.69	7.65
Received any aid excluding private loans					(Effect size = 0.19)			(Effect size = 0.03)	
Yes	3,460	2,000	55.67	65.26	9.60*	17.24	56.45	0.78	1.40
No	1,270	1,600	37.49	29.45	-8.05*	-21.47	36.24	-1.25	-3.34
Unknown	290	530	6.84	5.29	-1.55*	-22.64	7.31	0.47	6.92
Veteran status					(Effect size = 0.01)			(Effect size = #)	
Yes	150	170	4.54	4.27	-0.27	-5.96	4.46	-0.09	-1.88
No	4,870	3,960	95.46	95.73	0.27	0.28	95.54	0.09	0.09
Race/ethnicity					(Effect size = ‡)			(Effect size = ‡)	
American Indian or Alaska Native, not Hispanic or Latino	50	40	1.18	1.07	-0.10	-8.52	1.62	0.44	37.57
Asian, not Hispanic or Latino	260	200	5.60	5.30	-0.30	-5.42	5.26	-0.34	-6.12
Black, not Hispanic or Latino	650	430	13.07	13.93	0.86	6.58	12.65	-0.42	-3.20
Hispanic or Latino, of any race	1,510	1,050	29.82	31.71	1.89*	6.35	29.18	-0.64	-2.15
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
White, not Hispanic or Latino	2,280	1,680	40.93	42.56	1.63*	3.99	40.92	-0.01	-0.03
Two or more races, not Hispanic or Latino	220	110	3.52	4.50	0.97*	27.53	7.88	4.35*	123.48
Unknown	30	600	5.52	0.56	-4.96*	-89.85	1.92	-3.60*	-65.17
Gender					(Effect size = 0.11)			(Effect size = 0.05)	
Male	1,920	2,010	41.74	37.33	-4.40*	-10.55	42.16	0.43	1.02
Female	3,030	1,980	56.41	61.57	5.16*	9.15	56.68	0.27	0.48
Unknown	70	150	1.85	1.10	-0.76	-40.90	1.16	-0.70	-37.55

See notes at end of table.

Table M-66. Undergraduate student-level survey nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Institution total undergraduate enrollment ⁵					(Effect size = #)			(Effect size = 0.03)	
1–7,698	1,240	1,080	15.80	15.81	0.01	0.06	15.38	-0.42	-2.67
7,699–18,147	1,210	1,050	24.90	24.81	-0.09	-0.35	24.57	-0.33	-1.31
18,148–39,036	1,390	1,090	30.31	30.23	-0.08	-0.27	31.54	1.24	4.08
39,037 or more	1,170	910	29.00	29.16	0.16	0.55	28.51	-0.49	-1.69
Major					(Effect size = ‡)			(Effect size = ‡)	
Undecided	90	50	1.38	1.43	0.05	3.50	2.05	0.67	48.42
Humanities	870	1,300	23.97	17.22	-6.88*	-28.71	17.41	-6.56*	-27.38
Social/behavioral sciences	280	80	4.20	5.71	1.55*	36.91	5.53	1.34*	31.92
Life sciences	320	150	5.03	6.35	1.34*	26.67	6.14	1.11*	22.00
Physical sciences/mathematics	‡	‡	‡	‡	‡	‡	‡	‡	‡
Computer/information science	230	130	4.52	5.30	0.79*	17.59	5.38	0.86*	19.10
Engineering	250	150	4.10	4.56	0.47	11.58	5.39	1.29*	31.44
Education	300	90	3.76	5.17	1.44*	38.24	4.73	0.97*	25.82
Business/management	660	420	12.92	13.80	0.90	6.93	14.05	1.13	8.74
Health	1,020	480	19.00	23.20	4.28*	22.51	21.53	2.53*	13.31
Vocational/technical	160	170	3.42	2.92	-0.51	-14.87	3.24	-0.17	-5.05
Other technical/professional	630	430	11.51	11.96	0.46	4.04	11.91	0.40	3.51
Unknown	70	450	5.46	1.53	-4.01*	-73.35	1.79	-3.67*	-67.24
Degree program (undergraduate only)					(Effect size = ‡)			(Effect size = ‡)	
Certificate	200	380	6.84	4.00	-2.84*	-41.48	4.19	-2.65*	-38.69
Associate's degree	3,530	2,580	70.43	73.16	2.72*	3.86	72.48	2.05	2.90
Bachelor's degree	1,180	520	16.31	20.72	4.41*	27.01	20.89	4.57*	28.04
Not in a degree program or others	110	210	3.51	2.12	-1.39*	-39.53	2.44	-1.07	-30.48
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Pell Grant status					(Effect size = 0.12)			(Effect size = #)	
Received	2,290	1,320	37.06	42.67	5.61*	15.15	37.08	0.02	0.05
Did not receive	2,730	2,800	62.94	57.33	-5.61*	-8.92	62.92	-0.02	-0.03

See notes at end of table.

Table M-66. Undergraduate student-level survey nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Total Pell amount received ⁶					(Effect size = 0.14)			(Effect size = 0.04)	
None	2,730	2,800	62.94	57.33	-5.61*	-8.92	62.92	-0.02	-0.03
\$1–\$3,097	720	550	14.24	14.18	-0.06	-0.45	13.12	-1.12*	-7.84
\$3,098–\$6,194	940	510	14.94	18.26	3.32*	22.23	15.71	0.77	5.15
\$6,195 or more	630	260	7.88	10.24	2.36*	29.90	8.24	0.37	4.64
First-time beginner status (sampled)					(Effect size = 0.01)			(Effect size = #)	
Yes	2,410	1,940	15.60	15.25	-0.35	-2.24	15.43	-0.17	-1.10
No	2,610	2,180	84.40	84.75	0.35	0.41	84.57	0.17	0.20
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁷					(Effect size = ‡)			(Effect size = ‡)	
1–59	1,740	1,630	36.03	34.45	-1.58	-4.38	36.52	0.50	1.39
60–71	1,240	890	26.72	27.50	0.78	2.92	26.45	-0.27	-1.02
72–83	950	650	22.47	23.59	1.11	4.94	23.13	0.65	2.90
84 or more	1,070	950	14.76	14.44	-0.32	-2.15	13.88	-0.88	-5.95
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁷					(Effect size = 0.05)			(Effect size = 0.05)	
0–21	470	340	8.84	9.02	0.18	2.03	9.78	0.94	10.62
22–75	250	320	5.11	4.18	-0.92	-18.06	4.22	-0.88	-17.32
76–215	300	180	5.13	5.81	0.68	13.27	5.14	0.01	0.22
216 or more	390	280	5.81	6.07	0.26	4.51	5.80	#	-0.01
Unknown	3,610	3,010	75.12	74.92	-0.20	-0.27	75.06	-0.06	-0.09
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁷					(Effect size = ‡)			(Effect size = ‡)	
0–71	300	310	4.75	4.16	-0.59	-12.36	4.69	-0.06	-1.22
72–132	830	940	12.66	11.20	-1.46	-11.50	11.63	-1.03	-8.10
133–347	1,250	880	23.22	24.70	1.48	6.38	24.10	0.88	3.79
348 or more	2,620	1,990	59.31	59.87	0.55	0.93	59.52	0.20	0.34
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-66. Undergraduate student-level survey nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Average amount of grant and scholarship aid received ⁷					(Effect size = ‡)			(Effect size = ‡)	
\$0–\$4,914	1,160	1,180	21.12	19.48	-1.64	-7.76	19.30	-1.82	-8.63
\$4,915–\$5,564	1,280	1,090	23.20	22.40	-0.80	-3.47	22.46	-0.74	-3.20
\$5,565–\$6,239	1,200	970	28.85	28.15	-0.70	-2.41	29.33	0.48	1.67
\$6,240 or more	1,380	880	26.82	29.95	3.13*	11.69	28.90	2.08*	7.76
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total income from CPS:20 ⁸					(Effect size = 0.18)			(Effect size = 0.03)	
-\$67,447–\$14,566	800	470	14.54	17.05	2.51*	17.28	15.15	0.61	4.22
\$14,567–\$31,819	790	470	15.99	17.93	1.93*	12.09	15.83	-0.16	-1.03
\$31,820–\$66,718	830	440	14.11	16.40	2.29*	16.20	14.00	-0.12	-0.84
\$66,719 or more	790	480	11.24	13.18	1.94*	17.21	11.62	0.37	3.31
Unknown	50	30	0.77	0.82	0.05	6.86	0.95	0.18	24.05
Not matched in CPS:20	1,760	2,240	43.35	34.63	-8.72*	-20.12	42.46	-0.89	-2.04
Parents' highest education from CPS:20					(Effect size = ‡)			(Effect size = ‡)	
Middle school/junior high	230	140	4.41	4.95	0.54*	12.14	4.30	-0.11	-2.59
High school	1,160	680	20.84	24.00	3.16*	15.18	21.42	0.58	2.80
College or beyond	1,660	910	27.11	31.98	4.87*	17.96	27.65	0.54	1.98
Other/unknown	190	130	3.95	4.14	0.19	4.79	3.86	-0.09	-2.37
Missing	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	1,760	2,240	43.35	34.63	-8.72*	-20.12	42.46	-0.89	-2.04
Has dependents from CPS:20					(Effect size = ‡)			(Effect size = ‡)	
Yes	530	290	12.66	14.48	1.82*	14.42	12.50	-0.16	-1.23
No	2,730	1,600	44.00	50.89	6.90*	15.67	45.04	1.04	2.37
Missing	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	1,760	2,240	43.35	34.63	-8.72*	-20.12	42.46	-0.89	-2.04

See notes at end of table.

Table M-66. Undergraduate student-level survey nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Student's marital status from CPS:20					(Effect size = ‡)			(Effect size = ‡)	
Single	2,890	1,690	47.63	54.51	6.89*	14.46	48.35	0.72	1.52
Married/remarried	260	150	6.50	7.55	1.05*	16.10	6.47	-0.03	-0.44
Separated	‡	‡	‡	‡	‡	‡	‡	‡	‡
Divorced/widowed	80	40	1.74	2.20	0.46*	26.72	1.81	0.08	4.34
Not matched in CPS:20	1,760	2,240	43.35	34.63	-8.72*	-20.12	42.46	-0.89	-2.04

Rounds to zero.

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the student base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the student base weight adjusted for nonresponse) and weighted full-sample mean (using the student base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁷ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁸ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations. As part of the expected family contribution (EFC) formula, some calculations include allowances against income or asset amounts that can result in negative numbers.

NOTE: CPS = Central Processing System. Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-67. Undergraduate student-level survey nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Bureau of Economic Analysis region ⁴					(Effect size = 0.03)		(Effect size = 0.06)		
New England	540	280	8.24	8.10	-0.13	-1.59	7.72	-0.51*	-6.20
Mideast	1,270	630	21.54	21.77	0.23	1.08	20.89	-0.65	-3.01
Great Lakes	300	170	6.59	6.64	0.06	0.84	6.50	-0.09	-1.37
Plains	340	210	6.76	6.58	-0.18	-2.67	6.34	-0.42*	-6.20
Southeast	1,130	590	20.40	20.48	0.08	0.40	20.45	0.05	0.26
Southwest	410	270	6.94	6.50	-0.44	-6.27	6.98	0.04	0.51
Rocky Mountains	570	320	11.74	11.47	-0.27	-2.29	11.40	-0.34	-2.88
Far West	860	380	15.74	16.36	0.62	3.92	17.61	1.87*	11.86
Outlying Areas	230	110	2.06	2.09	0.03	1.39	2.11	0.05	2.41
Federal aid status					(Effect size = 0.07)		(Effect size = 0.03)		
Received	3,750	1,700	61.21	64.61	3.39*	5.54	59.64	-1.58*	-2.57
Did not receive	1,460	980	31.42	29.15	-2.27*	-7.24	32.54	1.12	3.55
Missing	440	290	7.37	6.24	-1.12*	-15.21	7.83	0.46	6.25
Direct Loan status					(Effect size = 0.06)		(Effect size = 0.02)		
Received	2,480	1,080	40.14	42.88	2.74*	6.82	39.07	-1.07	-2.67
Did not receive	3,170	1,900	59.86	57.12	-2.74*	-4.58	60.93	1.07	1.79
Total Direct Loan amount received ⁵					(Effect size = 0.07)		(Effect size = 0.03)		
None	3,170	1,900	59.86	57.12	-2.74*	-4.58	60.93	1.07	1.79
\$1–\$4,750	610	300	10.22	10.62	0.40	3.91	10.11	-0.11	-1.08
\$4,751–\$5,500	840	350	9.30	10.03	0.73*	7.85	9.12	-0.18	-1.88
\$5,501–\$7,500	570	280	12.88	13.19	0.31	2.43	11.88	-1.00*	-7.76
\$7,501 or more	460	150	7.74	9.04	1.30*	16.75	7.95	0.21	2.76
Age as of December 31, 2019					(Effect size = ‡)		(Effect size = ‡)		
15–23	4,390	2,320	71.52	72.00	0.47	0.66	71.51	-0.01	-0.01
24–29	650	340	14.79	14.54	-0.25	-1.72	14.62	-0.17	-1.17
30 or older	610	310	13.68	13.46	-0.21	-1.54	13.87	0.19	1.39
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-67. Undergraduate student-level survey nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Institution aid status					(Effect size = 0.06)			(Effect size = 0.01)	
Received	1,860	730	28.89	31.63	2.74*	9.49	29.11	0.22	0.76
Did not receive	2,790	1,600	56.42	54.96	-1.45*	-2.57	56.36	-0.05	-0.09
Unknown	1,010	640	14.69	13.40	-1.29*	-8.78	14.53	-0.17	-1.15
State aid status					(Effect size = 0.06)			(Effect size = 0.01)	
Received	1,660	640	27.14	29.79	2.66*	9.79	27.31	0.17	0.63
Did not receive	2,970	1,680	57.66	56.30	-1.37*	-2.37	57.67	#	0.01
Unknown	1,020	650	15.20	13.91	-1.29*	-8.49	15.02	-0.18	-1.15
Received any aid excluding private loans					(Effect size = 0.12)			(Effect size = 0.02)	
Yes	4,650	2,020	75.40	80.67	5.27*	6.99	74.73	-0.67	-0.89
No	680	660	18.25	14.61	-3.64*	-19.96	18.53	0.29	1.58
Unknown	320	290	6.35	4.72	-1.63*	-25.62	6.73	0.38	6.06
Veteran status					(Effect size = 0.01)			(Effect size = 0.01)	
Yes	130	70	3.02	2.81	-0.22	-7.23	2.89	-0.13	-4.32
No	5,520	2,900	96.98	97.19	0.22	0.23	97.11	0.13	0.13
Race/ethnicity					(Effect size = ‡)			(Effect size = ‡)	
American Indian or Alaska Native, not Hispanic or Latino	80	40	1.07	1.14	0.07	6.24	2.00	0.93*	87.01
Asian, not Hispanic or Latino	340	170	6.42	6.58	0.17	2.59	6.25	-0.17	-2.59
Black, not Hispanic or Latino	730	360	12.31	12.50	0.18	1.49	11.71	-0.61	-4.92
Hispanic or Latino, of any race	1,120	500	18.26	19.17	0.92*	5.03	17.94	-0.32	-1.74
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
White, not Hispanic or Latino	3,060	1,350	52.68	55.24	2.56*	4.85	52.37	-0.31	-0.59
Two or more races, not Hispanic or Latino	280	70	3.99	4.57	0.58*	14.45	7.75	3.76*	94.04
Unknown	30	480	5.04	0.56	-4.48*	-88.83	1.66	-3.38*	-67.15
Gender					(Effect size = ‡)			(Effect size = ‡)	
Male	2,220	1,490	43.46	39.46	-4.01*	-9.22	42.14	-1.32*	-3.04
Female	3,350	1,470	55.18	58.78	3.60*	6.52	55.84	0.66	1.20
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-67. Undergraduate student-level survey nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Institution total undergraduate enrollment ⁵					(Effect size = 0.02)			(Effect size = 0.01)	
1–3,630	1,420	760	17.20	17.59	0.39	2.28	17.31	0.10	0.61
3,631–6,732	1,350	800	24.85	24.22	-0.64	-2.56	24.49	-0.36	-1.46
6,733–13,137	1,460	720	28.81	29.09	0.27	0.95	28.98	0.16	0.56
13,138 or more	1,420	700	29.13	29.10	-0.03	-0.11	29.23	0.10	0.33
Major					(Effect size = 0.18)			(Effect size = 0.17)	
Undecided	60	60	1.26	0.85	-0.41*	-32.81	0.92	-0.34*	-27.28
Humanities	630	510	12.94	10.93	-2.04*	-15.81	10.86	-2.08*	-16.05
Social/behavioral sciences	640	240	10.98	12.20	1.25*	11.34	11.52	0.54*	4.92
Life sciences	770	280	11.74	12.78	1.05*	8.94	12.80	1.05*	8.95
Physical sciences/mathematics	140	60	2.04	2.23	0.19	9.34	2.55	0.51*	24.82
Computer/information science	270	120	5.50	5.67	0.18	3.25	6.03	0.53	9.68
Engineering	330	160	5.17	5.37	0.20	3.93	5.60	0.43	8.25
Education	510	190	8.09	8.96	0.88*	10.90	8.41	0.31	3.89
Business/management	890	440	16.50	16.40	-0.10	-0.62	16.78	0.28	1.68
Health	590	220	9.13	9.96	0.85*	9.29	9.71	0.59*	6.41
Vocational/technical	110	50	1.79	1.77	-0.02	-1.13	1.73	-0.06	-3.54
Other technical/professional	660	290	12.31	12.69	0.38	3.11	12.78	0.47	3.79
Unknown	10	250	2.55	0.19	-2.40*	-94.13	0.33	-2.22*	-86.97
Degree program (undergraduate only)					(Effect size = ‡)			(Effect size = ‡)	
Certificate	40	30	0.68	0.54	-0.14	-20.67	0.70	0.02	2.65
Associate's degree	270	210	4.11	3.29	-0.82*	-19.92	3.38	-0.72	-17.62
Bachelor's degree	5,290	2,360	91.37	95.49	4.12*	4.51	95.17	3.80*	4.16
Not in a degree program or others	60	100	1.48	0.68	-0.80*	-54.18	0.75	-0.73*	-49.38
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Pell Grant status					(Effect size = 0.06)			(Effect size = 0.02)	
Received	2,510	1,130	40.49	43.22	2.73*	6.73	39.70	-0.79	-1.95
Did not receive	3,140	1,850	59.51	56.78	-2.73*	-4.58	60.30	0.79	1.33

See notes at end of table.

Table M-67. Undergraduate student-level survey nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Total Pell amount received ⁶					(Effect size = 0.06)			(Effect size = 0.02)	
None	3,140	1,850	59.51	56.78	-2.73*	-4.58	60.30	0.79	1.33
\$1–\$3,097	560	300	10.05	10.04	-0.01	-0.07	9.78	-0.27	-2.72
\$3,098–\$6,194	870	410	14.73	15.80	1.08*	7.30	14.48	-0.25	-1.68
\$6,195 or more	1,080	420	15.72	17.37	1.66*	10.55	15.45	-0.27	-1.71
First-time beginner status (sampled)					(Effect size = #)			(Effect size = #)	
Yes	2,010	1,060	14.38	14.43	0.05	0.34	14.25	-0.14	-0.95
No	3,640	1,920	85.62	85.57	-0.05	-0.06	85.75	0.14	0.16
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁷					(Effect size = 0.02)			(Effect size = 0.02)	
1–72	1,690	780	29.37	30.31	0.94	3.20	30.35	0.98	3.35
73–85	1,820	1,010	32.97	32.13	-0.84	-2.54	32.64	-0.33	-1.01
86–92	970	500	20.12	20.14	0.01	0.06	20.04	-0.08	-0.40
93 or more	940	540	14.04	13.96	-0.08	-0.55	13.48	-0.56	-4.00
None or unknown	240	150	3.50	3.46	-0.04	-1.10	3.49	-0.01	-0.29
Number of full-time, first-time undergraduate students living on campus ⁷					(Effect size = 0.03)			(Effect size = 0.04)	
0–138	880	510	12.55	12.20	-0.35	-2.80	12.31	-0.24	-1.92
139–241	650	380	12.07	11.99	-0.08	-0.65	12.68	0.61	5.02
242–550	990	520	17.13	16.92	-0.20	-1.18	16.17	-0.96*	-5.58
551 or more	1,750	790	34.82	36.27	1.46*	4.18	36.13	1.32	3.78
Unknown	1,380	770	23.43	22.61	-0.82	-3.52	22.71	-0.73	-3.10
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁷					(Effect size = 0.02)			(Effect size = 0.02)	
0–56	750	370	12.14	12.32	0.18	1.51	12.65	0.52	4.27
57–111	750	450	12.27	12.53	0.26	2.12	12.34	0.08	0.63
112–219	1,230	620	22.96	23.03	0.07	0.33	22.72	-0.24	-1.05
220 or more	2,690	1,380	50.07	49.74	-0.34	-0.67	49.73	-0.34	-0.68
Unknown	240	150	2.57	2.39	-0.18	-7.02	2.55	-0.02	-0.62

See notes at end of table.

Table M-67. Undergraduate student-level survey nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Average amount of grant and scholarship aid received ⁷					(Effect size = 0.02)			(Effect size = 0.01)	
\$0–\$6,185	1,600	820	27.03	27.51	0.48	1.78	27.53	0.50	1.86
\$6,186–\$7,466	1,420	750	26.24	25.64	-0.60	-2.30	26.35	0.11	0.42
\$7,467–\$8,904	930	530	16.04	16.34	0.30	1.89	15.80	-0.24	-1.51
\$8,905 or more	1,460	720	27.15	27.00	-0.15	-0.57	26.78	-0.37	-1.37
Unknown	250	150	3.54	3.52	-0.03	-0.73	3.54	#	0.08
Total income from CPS:20 ⁸					(Effect size = ‡)			(Effect size = ‡)	
-\$8,000–\$20,104	950	410	18.19	19.79	1.59*	8.75	18.21	0.02	0.11
\$20,105–\$48,126	960	400	18.31	19.34	1.03*	5.62	17.74	-0.57	-3.13
\$48,127–\$104,121	950	410	16.89	17.69	0.81*	4.78	16.36	-0.53	-3.13
\$104,122 or more	970	390	15.04	16.25	1.22*	8.08	14.77	-0.27	-1.76
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	1,800	1,340	31.19	26.57	-4.63*	-14.83	32.52	1.33*	4.27
Parents' highest education from CPS:20					(Effect size = ‡)			(Effect size = ‡)	
Middle school/junior high	150	70	2.89	3.19	0.31*	10.58	2.98	0.10	3.31
High school	1,140	490	20.83	22.05	1.22*	5.84	20.90	0.07	0.34
College or beyond	2,370	980	41.63	44.68	3.04*	7.31	40.08	-1.55*	-3.73
Other/unknown	170	80	3.15	3.34	0.19	5.99	3.32	0.17	5.47
Missing	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	1,800	1,340	31.19	26.57	-4.63*	-14.83	32.52	1.33*	4.27
Has dependents from CPS:20					(Effect size = ‡)			(Effect size = ‡)	
Yes	350	130	7.67	8.61	0.94*	12.32	7.71	0.04	0.53
No	3,500	1,510	61.13	64.82	3.70*	6.05	59.77	-1.36*	-2.22
Missing	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	1,800	1,340	31.19	26.57	-4.63*	-14.83	32.52	1.33*	4.27

See notes at end of table.

Table M-67. Undergraduate student-level survey nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Student's marital status from CPS:20					(Effect size = ‡)			(Effect size = ‡)	
Single	3,520	1,530	61.27	64.95	3.68*	6.00	60.01	-1.26*	-2.06
Married/remarried	250	80	5.71	6.40	0.68	11.97	5.67	-0.04	-0.67
Separated	‡	‡	‡	‡	‡	‡	‡	‡	‡
Divorced/widowed	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	1,800	1,340	31.19	26.57	-4.63*	-14.83	32.52	1.33*	4.27

Rounds to zero.

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the student base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the student base weight adjusted for nonresponse) and weighted full-sample mean (using the student base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁷ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁸ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations. As part of the expected family contribution (EFC) formula, some calculations include allowances against income or asset amounts that can result in negative numbers. NOTE: CPS = Central Processing System. Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-68. Undergraduate student-level survey nonresponse bias analysis for selected variables—public 4-year, doctorate-granting institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Bureau of Economic Analysis region ⁴					(Effect size = 0.02)		(Effect size = 0.03)		
New England	390	240	2.56	2.65	0.09	3.45	2.47	-0.08	-3.32
Midwest	2,240	1,450	13.75	13.22	-0.53	-3.85	13.34	-0.42	-3.03
Great Lakes	2,600	1,490	14.66	14.80	0.14	0.96	14.99	0.32	2.21
Plains	1,790	880	7.59	7.72	0.13	1.75	7.69	0.10	1.34
Southeast	4,510	2,590	29.51	29.12	-0.40	-1.35	28.90	-0.61	-2.07
Southwest	2,410	1,440	12.48	12.48	#	0.02	12.46	-0.02	-0.16
Rocky Mountains	770	460	4.51	4.52	0.01	0.22	4.33	-0.18	-4.00
Far West	2,250	1,160	14.41	14.88	0.47	3.25	15.20	0.80	5.52
Outlying Areas	280	120	0.52	0.61	0.08	16.04	0.62	0.09	17.65
Federal aid status					(Effect size = 0.11)		(Effect size = 0.01)		
Received	10,510	4,630	54.47	60.03	5.56*	10.20	55.13	0.66	1.22
Did not receive	5,940	4,480	41.45	36.52	-4.93*	-11.89	40.72	-0.73	-1.76
Missing	790	730	4.09	3.46	-0.63*	-15.40	4.15	0.06	1.58
Direct Loan status					(Effect size = 0.08)		(Effect size = 0.01)		
Received	7,460	3,210	38.72	42.83	4.10*	10.59	39.07	0.34	0.88
Did not receive	9,780	6,630	61.28	57.17	-4.10*	-6.69	60.93	-0.34	-0.56
Total Direct Loan amount received ⁵					(Effect size = 0.08)		(Effect size = 0.01)		
None	9,780	6,630	61.28	57.17	-4.10*	-6.69	60.93	-0.34	-0.56
\$1–\$5,250	1,830	860	9.26	10.10	0.84*	9.09	9.42	0.17	1.79
\$5,251–\$5,500	2,050	810	8.39	9.45	1.06*	12.66	8.68	0.29*	3.46
\$5,501–\$7,500	2,260	1,000	14.43	15.89	1.46*	10.08	14.44	0.01	0.08
\$7,501 or more	1,320	550	6.65	7.39	0.74*	11.18	6.52	-0.13	-1.90
Age as of December 31, 2019					(Effect size = ‡)		(Effect size = ‡)		
15–23	13,900	7,800	79.17	79.44	0.27	0.35	79.11	-0.06	-0.07
24–29	1,800	1,130	12.13	11.88	-0.26	-2.11	12.15	0.02	0.13
30 or older	1,540	890	8.67	8.68	0.01	0.14	8.74	0.07	0.82
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-68. Undergraduate student-level survey nonresponse bias analysis for selected variables—public 4-year, doctorate-granting institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Institution aid status					(Effect size = 0.08)			(Effect size = 0.01)	
Received	7,440	3,240	38.31	42.00	3.70*	9.66	38.37	0.07	0.17
Did not receive	8,040	5,440	54.84	51.24	-3.60*	-6.56	54.59	-0.25	-0.45
Unknown	1,760	1,160	6.86	6.76	-0.10	-1.45	7.04	0.18	2.63
State aid status					(Effect size = 0.07)			(Effect size = 0.02)	
Received	4,770	1,920	26.91	30.03	3.12*	11.58	27.35	0.44	1.65
Did not receive	10,760	6,770	66.36	63.41	-2.95*	-4.45	65.63	-0.73	-1.11
Unknown	1,710	1,140	6.73	6.56	-0.16	-2.43	7.02	0.29	4.34
Received any aid excluding private loans					(Effect size = 0.15)			(Effect size = 0.01)	
Yes	14,110	6,350	74.12	80.68	6.56*	8.85	74.55	0.43	0.58
No	2,550	2,820	22.70	16.87	-5.83*	-25.67	22.17	-0.53	-2.32
Unknown	570	670	3.19	2.46	-0.73*	-22.94	3.28	0.10	3.05
Veteran status					(Effect size = #)			(Effect size = #)	
Yes	400	270	2.42	2.34	-0.07	-2.99	2.43	0.01	0.42
No	16,840	9,570	97.58	97.66	0.07	0.07	97.57	-0.01	-0.01
Race/ethnicity					(Effect size = ‡)			(Effect size = ‡)	
American Indian or Alaska Native, not Hispanic or Latino	70	40	0.29	0.29	#	-1.66	0.43	0.14*	47.02
Asian, not Hispanic or Latino	1,650	710	9.83	10.57	0.73*	7.46	9.90	0.06	0.63
Black, not Hispanic or Latino	2,190	1,080	11.28	11.95	0.67*	5.96	11.35	0.08	0.69
Hispanic or Latino, of any race	3,250	1,370	17.47	18.84	1.37*	7.85	17.54	0.07	0.41
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
White, not Hispanic or Latino	9,200	4,890	52.44	53.46	1.03*	1.96	52.11	-0.32	-0.61
Two or more races, not Hispanic or Latino	780	420	4.49	4.36	-0.13	-2.99	7.09	2.60*	57.86
Unknown	60	1,320	3.96	0.28	-3.68*	-92.98	1.06	-2.90*	-73.20
Gender					(Effect size = 0.06)			(Effect size = 0.03)	
Male	7,200	4,790	45.57	42.63	-2.95*	-6.46	46.28	0.71*	1.55
Female	9,800	4,830	53.31	56.15	2.84*	5.32	52.40	-0.91*	-1.71
Unknown	230	210	1.12	1.23	0.11	9.80	1.32	0.21	18.46

See notes at end of table.

Table M-68. Undergraduate student-level survey nonresponse bias analysis for selected variables—public 4-year, doctorate-granting institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Institution total undergraduate enrollment ⁵					(Effect size = 0.01)			(Effect size = 0.01)	
1–12,463	4,370	2,400	20.22	20.61	0.39	1.91	20.23	0.01	0.07
12,464–21,818	4,320	2,480	25.44	25.79	0.35	1.38	25.75	0.31	1.20
21,819–29,870	4,170	2,600	22.72	22.42	-0.30	-1.32	22.64	-0.07	-0.33
29,871 or more	4,380	2,350	31.62	31.19	-0.44	-1.38	31.38	-0.25	-0.78
Major					(Effect size = 0.12)			(Effect size = 0.11)	
Undecided	170	290	1.58	0.83	-0.75*	-47.88	0.89	-0.69*	-43.61
Humanities	1,500	1,160	9.86	9.00	-0.87*	-8.86	8.90	-0.96*	-9.74
Social/behavioral sciences	1,910	860	11.52	12.02	0.51*	4.39	11.77	0.26	2.22
Life sciences	2,580	1,240	14.77	15.48	0.73*	4.91	15.21	0.44*	3.00
Physical sciences/mathematics	430	230	2.79	2.82	0.03	1.18	2.83	0.03	1.23
Computer/information science	910	460	5.54	5.61	0.07	1.31	5.96	0.42*	7.57
Engineering	1,750	830	9.72	10.12	0.40*	4.12	10.91	1.18*	12.18
Education	970	360	4.73	5.34	0.62*	13.14	5.04	0.31*	6.60
Business/management	2,640	1,670	16.45	15.63	-0.84*	-5.10	15.91	-0.55	-3.31
Health	1,920	890	9.38	10.11	0.74*	7.92	9.53	0.14	1.54
Vocational/technical	150	80	0.94	0.94	#	0.39	0.95	0.02	1.65
Other technical/professional	2,150	1,100	11.74	11.93	0.19	1.64	11.90	0.16	1.34
Unknown	30	330	0.98	0.16	-0.83*	-84.61	0.21	-0.77*	-78.93
Degree program (undergraduate only)					(Effect size = ‡)			(Effect size = ‡)	
Certificate	90	150	0.76	0.34	-0.42*	-54.97	0.35	-0.41	-53.46
Associate's degree	400	410	1.50	1.14	-0.36*	-24.07	1.17	-0.33*	-21.87
Bachelor's degree	16,630	8,420	95.56	97.98	2.42*	2.53	97.89	2.33*	2.44
Not in a degree program or others	120	330	1.31	0.54	-0.77*	-58.89	0.58	-0.73*	-55.54
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Pell Grant status					(Effect size = 0.08)			(Effect size = 0.01)	
Received	6,230	2,690	32.12	35.75	3.63*	11.30	32.56	0.44	1.37
Did not receive	11,010	7,150	67.88	64.25	-3.63*	-5.34	67.44	-0.44	-0.65

See notes at end of table.

Table M-68. Undergraduate student-level survey nonresponse bias analysis for selected variables—public 4-year, doctorate-granting institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Total Pell amount received ⁶					(Effect size = 0.08)			(Effect size = 0.01)	
None	11,010	7,150	67.88	64.25	-3.63*	-5.34	67.44	-0.44	-0.65
\$1–\$3,344	1,770	930	9.81	10.54	0.73*	7.47	10.15	0.34*	3.50
\$3,345–\$6,194	1,920	800	9.75	10.94	1.19*	12.20	9.88	0.13	1.36
\$6,195 or more	2,540	950	12.56	14.26	1.71*	13.59	12.52	-0.04	-0.28
First-time beginner status (sampled)					(Effect size = 0.01)			(Effect size = #)	
Yes	4,670	2,550	14.23	14.54	0.31	2.20	14.33	0.10	0.72
No	12,570	7,290	85.77	85.46	-0.31	-0.36	85.67	-0.10	-0.12
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁷					(Effect size = 0.01)			(Effect size = 0.03)	
1–69	4,630	2,580	31.13	31.05	-0.08	-0.24	31.88	0.75	2.42
70–81	4,950	2,850	23.84	24.09	0.25	1.04	24.26	0.42	1.76
82–90	4,430	2,590	27.80	27.53	-0.27	-0.98	27.22	-0.58	-2.10
91 or more	3,120	1,760	16.41	16.43	0.02	0.10	15.79	-0.62	-3.80
None or unknown	110	50	0.81	0.90	0.08	10.28	0.85	0.03	4.28
Number of full-time, first-time undergraduate students living on campus ⁷					(Effect size = 0.03)			(Effect size = 0.02)	
0–465	2,050	1,070	10.78	10.85	0.08	0.70	10.61	-0.17	-1.56
466–900	2,680	1,410	15.68	16.11	0.42	2.69	15.88	0.20	1.27
901–1,551	3,870	2,180	25.42	26.19	0.77*	3.01	26.33	0.90*	3.56
1,552 or more	6,860	4,060	42.83	41.68	-1.15*	-2.68	41.89	-0.94	-2.20
Unknown	1,780	1,120	5.28	5.17	-0.11	-2.16	5.29	0.01	0.11
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁷					(Effect size = 0.02)			(Effect size = 0.03)	
0–181	2,420	1,430	10.92	11.02	0.10	0.94	11.30	0.38	3.50
182–330	3,760	2,040	20.19	20.91	0.72*	3.56	20.88	0.68	3.39
331–508	4,730	3,080	27.26	26.50	-0.76	-2.80	26.49	-0.77	-2.84
509 or more	5,320	2,670	38.54	38.56	0.02	0.06	38.37	-0.17	-0.43
Unknown	1,000	630	3.09	3.01	-0.08	-2.66	2.96	-0.13	-4.08

See notes at end of table.

Table M-68. Undergraduate student-level survey nonresponse bias analysis for selected variables—public 4-year, doctorate-granting institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Average amount of grant and scholarship aid received ⁷					(Effect size = 0.02)			(Effect size = 0.02)	
\$0–\$7,027	3,940	2,280	20.60	20.25	-0.35	-1.69	20.21	-0.39	-1.90
\$7,028–\$8,427	3,500	2,180	19.69	19.57	-0.12	-0.62	19.69	#	0.01
\$8,428–\$9,919	4,650	2,500	28.79	29.67	0.88*	3.07	29.41	0.62	2.15
\$9,920 or more	4,570	2,460	29.56	29.16	-0.40	-1.35	29.36	-0.20	-0.69
Unknown	570	420	1.36	1.35	-0.01	-0.99	1.34	-0.03	-1.90
Total income from CPS:20 ⁸					(Effect size = 0.14)			(Effect size = 0.01)	
–\$1,017,256–\$22,830	2,480	1,050	15.88	17.31	1.43*	9.02	15.82	-0.06	-0.38
\$22,831–\$58,317	2,550	980	15.87	17.90	2.02*	12.76	16.08	0.20	1.28
\$58,318–\$121,473	2,600	930	15.55	17.64	2.09*	13.45	15.87	0.32	2.07
\$121,474 or more	2,520	1,000	14.73	15.99	1.26*	8.53	14.46	-0.27	-1.83
Unknown	50	30	0.34	0.32	-0.03	-7.67	0.36	0.01	3.34
Not matched in CPS:20	7,050	5,850	37.62	30.84	-6.78*	-18.02	37.41	-0.21	-0.55
Parents' highest education from CPS:20					(Effect size = ‡)			(Effect size = ‡)	
Middle school/junior high	440	160	2.85	3.19	0.33*	11.63	2.94	0.08	2.86
High school	2,700	1,050	16.77	18.57	1.81*	10.78	17.11	0.35	2.06
College or beyond	6,710	2,610	40.61	45.21	4.60*	11.32	40.42	-0.19	-0.48
Other/unknown	310	150	1.95	2.01	0.06	3.18	1.93	-0.02	-1.03
Missing	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	7,050	5,850	37.62	30.84	-6.78*	-18.02	37.41	-0.21	-0.55
Has dependents from CPS:20					(Effect size = ‡)			(Effect size = ‡)	
Yes	720	290	4.39	4.97	0.58*	13.10	4.48	0.09	1.96
No	9,460	3,700	57.99	64.19	6.20*	10.70	58.11	0.12	0.21
Missing	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	7,050	5,850	37.62	30.84	-6.78*	-18.02	37.41	-0.21	-0.55

See notes at end of table.

Table M-68. Undergraduate student-level survey nonresponse bias analysis for selected variables—public 4-year, doctorate-granting institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Student's marital status from CPS:20					(Effect size = ‡)			(Effect size = ‡)	
Single	9,480	3,730	57.98	64.15	6.17*	10.64	58.15	0.17	0.29
Married/remarried	550	200	3.49	3.97	0.48*	13.81	3.53	0.04	1.10
Separated	‡	‡	‡	‡	‡	‡	‡	‡	‡
Divorced/widowed	110	40	0.69	0.78	0.09*	12.35	0.68	-0.01	-1.41
Not matched in CPS:20	7,050	5,850	37.62	30.84	-6.78*	-18.02	37.41	-0.21	-0.55

Rounds to zero.

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the student base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the student base weight adjusted for nonresponse) and weighted full-sample mean (using the student base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁷ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁸ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations. As part of the expected family contribution (EFC) formula, some calculations include allowances against income or asset amounts that can result in negative numbers. NOTE: CPS = Central Processing System. Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-69. Undergraduate student-level survey nonresponse bias analysis for selected variables—private nonprofit less-than-4-year institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Bureau of Economic Analysis region ⁴					(Effect size = ‡)		(Effect size = ‡)		
New England	180	240	15.67	13.10	-2.57	-16.41	15.57	-0.10	-0.62
Midwest	160	60	26.43	33.96	7.53*	28.47	32.09	5.66	21.40
Great Lakes	‡	‡	‡	‡	‡	‡	‡	‡	‡
Plains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southeast	180	160	33.96	31.12	-2.84	-8.37	31.75	-2.21	-6.50
Southwest	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rocky Mountains	60	160	12.36	5.32	-7.04	-56.98	4.70	-7.66	-61.94
Far West	70	60	11.48	16.32	4.85	42.23	15.70	4.22	36.80
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡
Federal aid status					(Effect size = 0.22)		(Effect size = 0.11)		
Received	460	340	60.71	71.19	10.48*	17.27	63.14	2.43	4.01
Did not receive	120	210	29.38	22.86	-6.52	-22.20	24.94	-4.44	-15.11
Missing	70	140	9.91	5.95	-3.96	-39.99	11.92	2.01	20.25
Direct Loan status					(Effect size = 0.19)		(Effect size = 0.04)		
Received	280	150	39.87	49.15	9.28*	23.27	41.99	2.13	5.33
Did not receive	370	540	60.13	50.85	-9.28*	-15.43	58.01	-2.13	-3.53
Total Direct Loan amount received ⁵					(Effect size = ‡)		(Effect size = ‡)		
None	370	540	60.13	50.85	-9.28*	-15.43	58.01	-2.13	-3.53
\$1–\$4,713	60	50	9.86	10.44	0.58	5.88	9.68	-0.18	-1.82
\$4,714–\$6,500	60	50	9.19	10.83	1.64	17.89	9.42	0.24	2.57
\$6,501–\$9,833	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$9,834 or more	70	30	10.87	13.65	2.79*	25.65	11.12	0.26	2.35
Age as of December 31, 2019					(Effect size = ‡)		(Effect size = ‡)		
15–23	270	340	42.15	38.07	-4.08*	-9.69	39.21	-2.94	-6.97
24–29	160	120	25.96	28.79	2.83*	10.88	28.24	2.28*	8.80
30 or older	220	240	31.89	33.15	1.26	3.94	32.55	0.66	2.06
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-69. Undergraduate student-level survey nonresponse bias analysis for selected variables—private nonprofit less-than-4-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Institution aid status					(Effect size = 0.09)			(Effect size = 0.07)	
Received	110	120	11.73	12.01	0.28	2.39	9.50	-2.22	-18.96
Did not receive	390	340	73.87	76.65	2.77	3.75	76.52	2.64	3.58
Unknown	160	230	14.40	11.35	-3.05	-21.20	13.98	-0.42	-2.90
State aid status					(Effect size = 0.15)			(Effect size = 0.11)	
Received	80	60	13.10	17.40	4.30*	32.80	16.67	3.56*	27.19
Did not receive	320	310	59.39	60.24	0.85	1.43	55.66	-3.73	-6.28
Unknown	250	320	27.51	22.36	-5.15	-18.71	27.68	0.17	0.62
Received any aid excluding private loans					(Effect size = 0.22)			(Effect size = 0.08)	
Yes	510	410	68.30	78.12	9.82*	14.37	69.24	0.94	1.37
No	80	140	22.15	16.53	-5.62	-25.38	19.44	-2.71	-12.24
Unknown	60	140	9.55	5.35	-4.20	-43.96	11.32	1.77	18.58
Veteran status					(Effect size = ‡)			(Effect size = ‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡
No	600	660	91.87	90.78	-1.09	-1.18	90.42	-1.45	-1.58
Race/ethnicity					(Effect size = ‡)			(Effect size = ‡)	
American Indian or Alaska Native, not Hispanic or Latino	10	30	0.80	0.66	-0.14	-17.79	0.75	-0.04	-5.42
Asian, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
Black, not Hispanic or Latino	110	80	20.84	20.39	-0.44	-2.13	18.37	-2.47	-11.85
Hispanic or Latino, of any race	200	60	17.37	23.87	6.50	37.44	21.15	3.78	21.79
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
White, not Hispanic or Latino	260	250	44.91	45.67	0.77	1.71	42.26	-2.65	-5.90
Two or more races, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	20	250	11.11	1.71	-9.41	-84.64	4.61	-6.50	-58.53
Gender					(Effect size = 0.16)			(Effect size = 0.10)	
Male	250	250	40.17	38.63	-1.55	-3.85	43.38	3.21*	7.99
Female	390	330	55.49	60.04	4.55	8.20	54.07	-1.42	-2.56
Unknown	10	100	4.34	1.33	-3.00	-69.25	2.55	-1.79	-41.25

See notes at end of table.

Table M-69. Undergraduate student-level survey nonresponse bias analysis for selected variables—private nonprofit less-than-4-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Institution total undergraduate enrollment ⁵					(Effect size = 0.26)			(Effect size = 0.26)	
1–339	230	120	33.33	41.92	8.59*	25.76	39.22	5.89	17.68
340–682	160	160	30.53	26.95	-3.58	-11.74	28.14	-2.39	-7.84
683–1,266	200	240	23.78	25.82	2.04	8.59	27.93	4.16	17.48
1,267 or more	60	160	12.36	5.32	-7.04	-56.98	4.70	-7.66	-61.94
Major					(Effect size = ‡)			(Effect size = ‡)	
Undecided	‡	‡	‡	‡	‡	‡	‡	‡	‡
Humanities	20	150	6.87	1.50	-5.35	-77.95	1.62	-5.25	-76.42
Social/behavioral sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡
Life sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡
Physical sciences/mathematics	‡	‡	‡	‡	‡	‡	‡	‡	‡
Computer/information science	‡	‡	‡	‡	‡	‡	‡	‡	‡
Engineering	‡	‡	‡	‡	‡	‡	‡	‡	‡
Education	90	110	7.72	6.54	-1.18	-15.28	7.94	0.22	2.82
Business/management	‡	‡	‡	‡	‡	‡	‡	‡	‡
Health	200	90	31.19	39.89	8.68*	27.84	37.88	6.69*	21.44
Vocational/technical	120	110	18.14	15.90	-2.23	-12.29	17.99	-0.14	-0.79
Other technical/professional	110	80	21.01	20.93	-0.08	-0.40	18.86	-2.15	-10.22
Unknown	30	110	5.07	1.87	-3.20	-62.98	3.01	-2.06	-40.59
Degree program (undergraduate only)					(Effect size = ‡)			(Effect size = ‡)	
Certificate	230	150	37.09	42.82	5.73	15.45	41.60	4.51	12.15
Associate's degree	420	390	57.29	56.77	-0.52	-0.91	57.02	-0.27	-0.47
Bachelor's degree	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not in a degree program or others	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Pell Grant status					(Effect size = 0.14)			(Effect size = 0.01)	
Received	340	270	39.51	46.15	6.64*	16.80	40.10	0.59	1.49
Did not receive	310	420	60.49	53.85	-6.64*	-10.98	59.90	-0.59	-0.97
Total Pell amount received ⁶					(Effect size = 0.14)			(Effect size = 0.03)	
None	310	420	60.49	53.85	-6.64*	-10.98	59.90	-0.59	-0.97
\$1–\$2,844	110	120	12.65	14.35	1.70*	13.40	13.62	0.97	7.65
\$2,845–\$6,194	140	100	14.49	16.37	1.88	13.00	14.27	-0.22	-1.51
\$6,195 or more	90	60	12.37	15.43	3.06	24.73	12.21	-0.16	-1.29

See notes at end of table.

Table M-69. Undergraduate student-level survey nonresponse bias analysis for selected variables—private nonprofit less-than-4-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
First-time beginner status (sampled)					(Effect size = 0.02)			(Effect size = 0.02)	
Yes	300	370	16.47	15.62	-0.85	-5.16	15.71	-0.76	-4.63
No	350	320	83.53	84.38	0.85	1.02	84.29	0.76	0.91
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁷					(Effect size = ‡)			(Effect size = ‡)	
1–75	330	300	65.13	69.41	4.28	6.58	64.78	-0.34	-0.53
76–90	100	100	13.85	11.79	-2.06	-14.87	14.49	0.64	4.62
91–100	190	280	19.45	16.49	-2.96	-15.23	18.70	-0.75	-3.87
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁷					(Effect size = ‡)			(Effect size = ‡)	
0–11	290	290	38.41	40.68	2.27	5.91	42.40	3.99	10.39
12–34	160	140	24.08	26.93	2.85	11.85	29.11	5.04	20.92
35 or more	130	240	30.29	21.66	-8.63	-28.51	19.43	-10.86*	-35.87
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Average amount of grant and scholarship aid received ⁷					(Effect size = ‡)			(Effect size = ‡)	
\$0–\$4,895	60	160	12.36	5.32	-7.04	-56.98	4.70	-7.66	-61.94
\$4,896–\$5,425	130	120	18.49	17.07	-1.42	-7.65	19.11	0.62	3.37
\$5,426–\$5,995	330	350	51.67	51.67	#	0.01	52.44	0.77	1.49
\$5,996 or more	60	50	10.26	15.21	4.94	48.15	14.69	4.43	43.14
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total income from CPS:20 ⁸					(Effect size = ‡)			(Effect size = ‡)	
-\$6,000–\$8,619	80	80	10.71	11.19	0.48	4.49	10.12	-0.59	-5.48
\$8,620–\$21,868	90	80	10.73	11.72	0.99	9.18	10.14	-0.60	-5.56
\$21,869–\$45,582	100	70	13.16	15.75	2.60	19.73	13.73	0.57	4.32
\$45,583 or more	100	60	15.40	19.07	3.67	23.80	16.09	0.68	4.44
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	280	390	49.35	41.11	-8.24	-16.69	48.63	-0.72	-1.45

See notes at end of table.

Table M-69. Undergraduate student-level survey nonresponse bias analysis for selected variables—private nonprofit less-than-4-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Parents' highest education from CPS:20					(Effect size = ‡)			(Effect size = ‡)	
Middle school/junior high	‡	‡	‡	‡	‡	‡	‡	‡	‡
High school	130	80	16.14	19.94	3.81*	23.60	17.79	1.65	10.24
College or beyond	140	100	24.05	28.33	4.29	17.83	23.80	-0.24	-1.01
Other/unknown	60	60	5.18	5.36	0.18	3.43	4.63	-0.55	-10.64
Missing	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	280	390	49.35	41.11	-8.24	-16.69	48.63	-0.72	-1.45
Has dependents from CPS:20					(Effect size = ‡)			(Effect size = ‡)	
Yes	130	110	16.64	19.47	2.83	17.04	16.95	0.31	1.86
No	240	180	34.02	39.42	5.40	15.88	34.42	0.41	1.19
Missing	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	280	390	49.35	41.11	-8.24	-16.69	48.63	-0.72	-1.45
Student's marital status from CPS:20					(Effect size = ‡)			(Effect size = ‡)	
Single	280	210	38.35	45.58	7.23	18.86	40.48	2.13	5.56
Married/remarried	80	70	8.93	8.95	0.03	0.31	7.01	-1.91*	-21.42
Separated	‡	‡	‡	‡	‡	‡	‡	‡	‡
Divorced/widowed	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	280	390	49.35	41.11	-8.24	-16.69	48.63	-0.72	-1.45

Rounds to zero.

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the student base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the student base weight adjusted for nonresponse) and weighted full-sample mean (using the student base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁷ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁸ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations. As part of the expected family contribution (EFC) formula, some calculations include allowances against income or asset amounts that can result in negative numbers.

NOTE: CPS = Central Processing System. Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-70. Undergraduate student-level survey nonresponse bias analysis for selected variables—private nonprofit 4-year, non-doctorate-granting institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Bureau of Economic Analysis region ⁴					(Effect size = 0.04)		(Effect size = 0.04)		
New England	930	380	9.74	9.54	-0.20	-2.06	9.55	-0.19	-1.90
Mideast	1,050	390	14.18	14.55	0.37	2.62	14.56	0.38	2.71
Great Lakes	930	370	16.03	16.70	0.67	4.17	16.41	0.38	2.38
Plains	730	310	11.65	11.75	0.10	0.87	11.44	-0.21	-1.77
Southeast	1,610	830	19.88	19.58	-0.30	-1.50	19.45	-0.43	-2.17
Southwest	140	70	2.12	2.22	0.10	4.77	2.12	#	0.03
Rocky Mountains	440	180	20.86	20.88	0.02	0.08	21.51	0.65	3.09
Far West	130	70	1.65	1.55	-0.10	-5.94	1.55	-0.09	-5.66
Outlying Areas	270	180	3.90	3.24	-0.66*	-16.98	3.40	-0.49	-12.68
Federal aid status					(Effect size = 0.06)		(Effect size = 0.01)		
Received	4,210	1,620	63.39	66.11	2.72*	4.29	62.94	-0.45	-0.71
Did not receive	1,530	810	26.34	24.39	-1.95*	-7.41	26.36	0.01	0.05
Missing	490	330	10.27	9.50	-0.76	-7.45	10.71	0.44	4.29
Direct Loan status					(Effect size = 0.04)		(Effect size = 0.03)		
Received	3,360	1,280	50.32	52.34	2.02*	4.01	48.93	-1.39	-2.76
Did not receive	2,870	1,480	49.68	47.66	-2.02*	-4.06	51.07	1.39	2.80
Total Direct Loan amount received ⁵					(Effect size = 0.04)		(Effect size = 0.03)		
None	2,870	1,480	49.68	47.66	-2.02*	-4.06	51.07	1.39	2.80
\$1–\$5,500	1,590	620	20.58	21.18	0.60	2.91	20.23	-0.35	-1.68
\$5,501–\$6,250	80	40	1.33	1.27	-0.06	-4.69	1.20	-0.13	-9.92
\$6,251–\$7,500	1,040	340	17.14	18.37	1.23*	7.20	16.96	-0.18	-1.05
\$7,501 or more	640	280	11.28	11.52	0.25	2.19	10.54	-0.73*	-6.50
Age as of December 31, 2019					(Effect size = ‡)		(Effect size = ‡)		
15–23	5,110	2,120	68.71	70.43	1.72*	2.50	69.05	0.35	0.50
24–29	470	280	11.86	11.34	-0.53	-4.44	12.00	0.14	1.14
30 or older	650	350	19.39	18.24	-1.15*	-5.95	18.95	-0.44	-2.29
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Institution aid status					(Effect size = 0.06)		(Effect size = 0.02)		
Received	3,530	1,240	47.22	50.13	2.91*	6.15	47.58	0.35	0.75
Did not receive	1,380	800	30.21	27.59	-2.62*	-8.68	29.42	-0.79	-2.61
Unknown	1,330	720	22.57	22.29	-0.28	-1.26	23.01	0.44	1.93

See notes at end of table.

Table M-70. Undergraduate student-level survey nonresponse bias analysis for selected variables—private nonprofit 4-year, non-doctorate-granting institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
State aid status					(Effect size = 0.03)			(Effect size = 0.01)	
Received	1,090	370	15.30	16.37	1.06*	6.95	15.37	0.07	0.45
Did not receive	3,780	1,640	61.79	61.11	-0.68	-1.10	61.38	-0.41	-0.66
Unknown	1,360	740	22.91	22.53	-0.38	-1.67	23.25	0.34	1.49
Received any aid excluding private loans					(Effect size = 0.09)			(Effect size = 0.01)	
Yes	5,380	2,080	80.19	83.69	3.50*	4.37	80.16	-0.04	-0.04
No	470	370	11.00	8.65	-2.35*	-21.38	10.80	-0.20	-1.81
Unknown	380	320	8.80	7.66	-1.15*	-13.04	9.04	0.23	2.67
Veteran status					(Effect size = 0.02)			(Effect size = #)	
Yes	120	90	3.51	3.18	-0.33	-9.36	3.56	0.05	1.31
No	6,110	2,670	96.49	96.82	0.33	0.34	96.44	-0.05	-0.05
Race/ethnicity					(Effect size = ‡)			(Effect size = ‡)	
American Indian or Alaska Native, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
Asian, not Hispanic or Latino	360	120	4.86	5.41	0.55*	11.42	4.89	0.03	0.65
Black, not Hispanic or Latino	940	400	12.91	13.01	0.10	0.77	12.39	-0.51	-3.98
Hispanic or Latino, of any race	950	290	13.09	14.00	0.91	6.93	13.31	0.22	1.65
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
White, not Hispanic or Latino	3,640	1,210	57.57	62.61	5.04*	8.75	59.30	1.73*	3.01
Two or more races, not Hispanic or Latino	270	70	3.29	3.64	0.35*	10.58	7.30	4.02*	122.13
Unknown	40	660	7.65	0.74	-6.92*	-90.38	1.87	-5.78*	-75.60
Gender					(Effect size = ‡)			(Effect size = ‡)	
Male	2,410	1,360	40.78	38.23	-2.55*	-6.25	41.00	0.22	0.54
Female	3,660	1,380	57.45	59.66	2.21*	3.84	56.81	-0.64	-1.12
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Institution total undergraduate enrollment ⁵					(Effect size = 0.04)			(Effect size = 0.03)	
1–1,307	1,570	700	19.88	20.83	0.96	4.81	20.60	0.72	3.65
1,308–1,889	1,600	670	22.01	22.27	0.26	1.19	21.58	-0.43	-1.94
1,890–3,149	1,660	580	20.03	20.81	0.78	3.90	20.72	0.68	3.42
3,150 or more	1,410	810	38.08	36.08	-2.00*	-5.25	37.10	-0.98	-2.58

See notes at end of table.

Table M-70. Undergraduate student-level survey nonresponse bias analysis for selected variables—private nonprofit 4-year, non-doctorate-granting institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Major					(Effect size = ‡)			(Effect size = ‡)	
Undecided	120	130	1.75	1.04	-0.71*	-40.65	1.04	-0.70*	-40.22
Humanities	1,340	620	17.00	16.87	-0.14	-0.81	16.94	-0.07	-0.39
Social/behavioral sciences	730	200	8.59	9.56	0.97*	11.32	9.62	1.03*	12.00
Life sciences	850	260	9.93	10.59	0.67*	6.77	10.04	0.12	1.18
Physical sciences/mathematics	190	50	2.25	2.51	0.26*	11.55	2.55	0.30*	13.16
Computer/information science	240	90	5.60	5.61	0.02	0.32	5.96	0.37	6.59
Engineering	180	50	3.03	3.46	0.43*	14.06	3.49	0.46*	15.16
Education	340	110	6.74	6.74	#	-0.06	6.40	-0.34	-5.00
Business/management	810	390	16.70	16.43	-0.28	-1.66	16.77	0.06	0.39
Health	730	240	14.91	16.22	1.32*	8.88	16.00	1.09	7.28
Vocational/technical	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other technical/professional	620	260	9.58	9.99	0.42	4.35	10.14	0.56	5.87
Unknown	20	290	3.11	0.26	-2.88*	-92.48	0.25	-2.86*	-91.81
Degree program (undergraduate only)					(Effect size = ‡)			(Effect size = ‡)	
Certificate	90	40	1.31	1.33	0.02	1.68	1.45	0.14	11.00
Associate's degree	420	230	7.50	7.63	0.13	1.80	8.11	0.61	8.16
Bachelor's degree	5,710	2,140	87.38	90.80	3.42*	3.92	90.22	2.84*	3.24
Not in a degree program or others	20	40	0.55	0.23	-0.32*	-57.75	0.22	-0.33*	-60.00
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Pell Grant status					(Effect size = 0.02)			(Effect size = 0.01)	
Received	2,320	970	34.81	35.61	0.80	2.30	34.26	-0.55	-1.59
Did not receive	3,920	1,800	65.19	64.39	-0.80	-1.23	65.74	0.55	0.85
Total Pell amount received ⁶					(Effect size = 0.03)			(Effect size = 0.01)	
None	3,920	1,800	65.19	64.39	-0.80	-1.23	65.74	0.55	0.85
\$1–\$3,144	670	360	12.22	11.67	-0.55	-4.46	11.98	-0.24	-1.95
\$3,145–\$6,194	750	280	10.36	11.02	0.66*	6.38	10.23	-0.13	-1.25
\$6,195 or more	890	330	12.23	12.92	0.68*	5.60	12.05	-0.18	-1.50
First-time beginner status (sampled)					(Effect size = 0.01)			(Effect size = #)	
Yes	1,850	770	15.78	16.04	0.26	1.62	15.77	-0.01	-0.09
No	4,380	2,000	84.22	83.96	-0.26	-0.30	84.23	0.01	0.02

See notes at end of table.

Table M-70. Undergraduate student-level survey nonresponse bias analysis for selected variables—private nonprofit 4-year, non-doctorate-granting institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁷					(Effect size = ‡)			(Effect size = ‡)	
1–95	2,600	1,110	49.42	49.03	-0.39	-0.79	50.31	0.89	1.81
96–99	1,400	700	21.63	21.09	-0.54	-2.49	20.84	-0.79	-3.63
100	2,190	940	28.43	29.41	0.98	3.45	28.32	-0.11	-0.40
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁷					(Effect size = 0.03)			(Effect size = 0.03)	
0–137	630	320	9.76	9.67	-0.10	-0.99	9.57	-0.19	-1.99
138–233	1,330	660	14.36	13.86	-0.50	-3.49	14.05	-0.31	-2.15
234–369	1,710	620	28.20	29.44	1.25*	4.43	29.31	1.12	3.97
370 or more	1,870	780	26.97	27.05	0.07	0.28	26.52	-0.45	-1.67
Unknown	690	380	20.71	19.99	-0.73	-3.51	20.55	-0.16	-0.79
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁷					(Effect size = 0.05)			(Effect size = 0.05)	
0–26	920	340	20.52	21.24	0.73	3.54	21.17	0.65	3.18
27–43	1,440	560	18.28	19.37	1.09*	5.97	19.22	0.94	5.16
44–72	1,780	680	23.64	24.16	0.52	2.18	23.53	-0.11	-0.48
73 or more	1,930	1,110	36.03	33.55	-2.48*	-6.89	34.28	-1.75	-4.86
Unknown	160	60	1.53	1.68	0.15	9.75	1.80	0.27	17.60
Average amount of grant and scholarship aid received ⁷					(Effect size = ‡)			(Effect size = ‡)	
\$0–\$11,821	1,640	920	39.68	38.30	-1.38	-3.48	39.65	-0.03	-0.07
\$11,822–\$19,702	1,290	620	18.06	17.94	-0.13	-0.69	17.62	-0.44	-2.44
\$19,703–\$26,070	1,250	500	19.66	20.16	0.50	2.56	19.45	-0.21	-1.05
\$26,071 or more	2,020	710	22.05	23.10	1.05	4.75	22.71	0.66	2.99
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total income from CPS:20 ⁸					(Effect size = ‡)			(Effect size = ‡)	
-\$9–\$22,918	950	460	16.68	16.04	-0.65*	-3.88	15.86	-0.82*	-4.94
\$22,919–\$57,515	1,030	370	17.56	18.22	0.66	3.77	16.91	-0.65	-3.71
\$57,516–\$119,471	1,090	310	18.02	19.89	1.87*	10.35	18.14	0.12	0.64
\$119,472 or more	1,060	340	15.25	16.15	0.90*	5.91	14.61	-0.64*	-4.20
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	2,090	1,260	32.20	29.48	-2.72*	-8.46	34.25	2.05	6.38

See notes at end of table.

Table M-70. Undergraduate student-level survey nonresponse bias analysis for selected variables—private nonprofit 4-year, non-doctorate-granting institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Parents' highest education from CPS:20					(Effect size = ‡)			(Effect size = ‡)	
Middle school/junior high	90	40	1.62	1.64	0.02	1.36	1.54	-0.08	-5.04
High school	1,070	450	19.91	20.03	0.12	0.58	19.21	-0.70	-3.51
College or beyond	2,850	940	44.18	47.09	2.91*	6.59	43.15	-1.03	-2.34
Other/unknown	100	60	1.74	1.49	-0.26*	-14.73	1.56	-0.19	-10.76
Missing	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	2,090	1,260	32.20	29.48	-2.72*	-8.46	34.25	2.05	6.38
Has dependents from CPS:20					(Effect size = ‡)			(Effect size = ‡)	
Yes	440	210	11.67	11.36	-0.31	-2.68	10.45	-1.22*	-10.47
No	3,700	1,290	56.13	59.17	3.04*	5.41	55.30	-0.83	-1.48
Missing	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	2,090	1,260	32.20	29.48	-2.72*	-8.46	34.25	2.05	6.38
Student's marital status from CPS:20					(Effect size = ‡)			(Effect size = ‡)	
Single	3,790	1,350	57.28	59.98	2.70*	4.71	56.27	-1.01	-1.76
Married/remarried	280	120	8.70	8.83	0.12	1.43	7.92	-0.79	-9.02
Separated	‡	‡	‡	‡	‡	‡	‡	‡	‡
Divorced/widowed	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	2,090	1,260	32.20	29.48	-2.72*	-8.46	34.25	2.05	6.38

Rounds to zero.

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the student base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the student base weight adjusted for nonresponse) and weighted full-sample mean (using the student base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁷ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁸ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations. As part of the expected family contribution (EFC) formula, some calculations include allowances against income or asset amounts that can result in negative numbers.

NOTE: CPS = Central Processing System. Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-71. Undergraduate student-level survey nonresponse bias analysis for selected variables—private nonprofit 4-year, doctorate-granting institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Bureau of Economic Analysis region ⁴					(Effect size = 0.04)		(Effect size = 0.02)		
New England	670	350	17.86	17.38	-0.49	-2.74	18.07	0.21	1.16
Mideast	1,670	930	23.18	22.79	-0.38	-1.65	22.73	-0.45	-1.94
Great Lakes	910	410	12.65	13.06	0.41	3.26	12.61	-0.04	-0.29
Plains	670	310	7.67	8.12	0.44	5.80	7.85	0.18	2.35
Southeast	1,710	910	18.15	18.27	0.12	0.66	18.08	-0.07	-0.39
Southwest	440	200	5.54	5.77	0.22	4.05	5.75	0.21	3.82
Rocky Mountains	190	70	2.34	2.63	0.29	12.18	2.50	0.16	6.88
Far West	1,080	590	9.82	9.37	-0.45	-4.62	9.56	-0.26	-2.69
Outlying Areas	270	130	2.77	2.61	-0.16	-5.78	2.84	0.06	2.22
Federal aid status					(Effect size = 0.10)		(Effect size = 0.03)		
Received	4,960	1,970	57.73	62.63	4.91*	8.50	58.21	0.49	0.84
Did not receive	2,180	1,490	36.48	32.70	-3.79*	-10.38	36.80	0.32	0.88
Missing	490	430	5.79	4.67	-1.12*	-19.35	4.98	-0.81*	-13.95
Direct Loan status					(Effect size = 0.09)		(Effect size = 0.01)		
Received	3,920	1,480	45.31	49.94	4.63*	10.21	45.96	0.64	1.42
Did not receive	3,710	2,410	54.69	50.06	-4.63*	-8.46	54.04	-0.64	-1.18
Total Direct Loan amount received ⁵					(Effect size = 0.10)		(Effect size = 0.02)		
None	3,710	2,410	54.69	50.06	-4.63*	-8.46	54.04	-0.64	-1.18
\$1–\$5500	1,990	750	19.52	20.98	1.46*	7.46	19.70	0.18	0.94
\$5,501–\$7,500	1,240	440	15.90	18.27	2.38*	14.95	16.60	0.70*	4.43
\$7,501 or more	690	290	9.89	10.69	0.79*	8.03	9.65	-0.24	-2.47
Age as of December 31, 2019					(Effect size = ‡)		(Effect size = ‡)		
15–23	6,250	2,900	72.93	75.39	2.46*	3.38	75.12	2.19*	3.00
24–29	600	420	11.56	10.02	-1.54*	-13.33	10.11	-1.44*	-12.48
30 or older	770	480	14.67	14.59	-0.08	-0.53	14.77	0.10	0.67
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Institution aid status					(Effect size = 0.08)		(Effect size = 0.04)		
Received	4,510	1,810	50.12	54.24	4.12*	8.23	50.60	0.48	0.96
Did not receive	1,860	1,260	38.42	35.28	-3.14*	-8.18	39.16	0.74	1.93
Unknown	1,250	810	11.47	10.48	-0.98*	-8.57	10.24	-1.22*	-10.66

See notes at end of table.

Table M-71. Undergraduate student-level survey nonresponse bias analysis for selected variables—private nonprofit 4-year, doctorate-granting institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
State aid status					(Effect size = 0.05)			(Effect size = 0.04)	
Received	1,320	460	14.35	15.99	1.65*	11.47	14.52	0.17	1.21
Did not receive	5,010	2,580	73.50	72.99	-0.51	-0.70	74.66	1.16*	1.58
Unknown	1,290	850	12.16	11.02	-1.13*	-9.31	10.82	-1.33*	-10.96
Received any aid excluding private loans					(Effect size = 0.13)			(Effect size = 0.04)	
Yes	6,580	2,730	77.31	82.74	5.43*	7.02	78.14	0.83	1.08
No	710	760	17.87	13.88	-3.99*	-22.33	17.92	0.05	0.28
Unknown	330	400	4.82	3.38	-1.44*	-29.89	3.94	-0.88*	-18.30
Veteran status					(Effect size = 0.01)			(Effect size = #)	
Yes	210	120	2.81	2.69	-0.12	-4.20	2.79	-0.02	-0.87
No	7,420	3,770	97.19	97.31	0.12	0.12	97.21	0.02	0.03
Race/ethnicity					(Effect size = ‡)			(Effect size = ‡)	
American Indian or Alaska Native, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
Asian, not Hispanic or Latino	760	320	9.70	10.04	0.34	3.54	9.45	-0.25	-2.56
Black, not Hispanic or Latino	790	350	10.21	10.71	0.50	4.88	10.21	#	0.01
Hispanic or Latino, of any race	1,420	490	16.25	17.98	1.73*	10.67	17.07	0.82*	5.06
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
White, not Hispanic or Latino	4,110	1,640	52.28	55.61	3.33*	6.37	53.47	1.19	2.29
Two or more races, not Hispanic or Latino	400	120	3.97	4.50	0.53*	13.28	7.32	3.35*	84.28
Unknown	60	930	7.16	0.75	-6.41*	-89.54	1.71	-5.45*	-76.11
Gender					(Effect size = 0.07)			(Effect size = 0.01)	
Male	2,890	1,830	41.62	38.32	-3.31*	-7.94	41.37	-0.25	-0.59
Female	4,640	1,930	56.77	60.05	3.29*	5.79	57.00	0.23	0.41
Unknown	90	120	1.61	1.63	0.02	1.23	1.63	0.02	1.04
Institution total undergraduate enrollment ⁵					(Effect size = 0.03)			(Effect size = 0.02)	
1–2,541	1,960	940	16.05	16.51	0.46	2.88	15.82	-0.23	-1.42
2,542–4,368	1,920	1,050	18.89	18.78	-0.11	-0.60	18.48	-0.42	-2.21
4,369–8,909	1,940	860	28.08	28.90	0.82	2.93	29.10	1.03	3.66
8,910 or more	1,800	1,040	36.98	35.81	-1.17	-3.16	36.60	-0.38	-1.03

See notes at end of table.

Table M-71. Undergraduate student-level survey nonresponse bias analysis for selected variables—private nonprofit 4-year, doctorate-granting institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Major					(Effect size = ‡)			(Effect size = ‡)	
Undecided	110	170	2.03	1.15	-0.89*	-43.94	1.26	-0.76*	-37.66
Humanities	870	510	11.84	11.43	-0.42	-3.55	11.40	-0.44	-3.74
Social/behavioral sciences	870	310	11.97	13.39	1.45*	12.10	13.54	1.57*	13.11
Life sciences	1,120	380	11.88	13.17	1.32*	11.08	13.05	1.17*	9.87
Physical sciences/mathematics	180	70	2.59	2.93	0.34*	13.13	3.13	0.54*	20.66
Computer/information science	340	160	5.54	5.03	-0.52	-9.31	5.29	-0.25	-4.56
Engineering	420	170	5.53	5.88	0.35	6.39	5.98	0.45	8.08
Education	400	120	3.72	4.39	0.68*	18.25	4.20	0.48*	12.83
Business/management	1,170	680	17.72	16.25	-1.50*	-8.47	16.45	-1.27	-7.15
Health	1,240	460	13.09	14.38	1.31*	10.04	13.68	0.59	4.53
Vocational/technical	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other technical/professional	790	320	10.75	11.04	0.30	2.77	10.97	0.23	2.10
Unknown	40	410	2.84	0.50	-2.39*	-84.08	0.58	-2.26*	-79.68
Degree program (undergraduate only)					(Effect size = ‡)			(Effect size = ‡)	
Certificate	40	50	0.62	0.38	-0.23	-37.62	0.45	-0.17	-27.53
Associate's degree	260	210	3.51	2.76	-0.76*	-21.52	2.80	-0.71	-20.34
Bachelor's degree	7,290	2,980	91.56	96.32	4.76*	5.20	96.20	4.64*	5.07
Not in a degree program or others	40	100	1.48	0.54	-0.95*	-63.79	0.55	-0.93*	-62.71
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Pell Grant status					(Effect size = 0.05)			(Effect size = #)	
Received	2,570	1,040	29.59	31.84	2.25*	7.60	29.61	0.02	0.07
Did not receive	5,060	2,850	70.41	68.16	-2.25*	-3.19	70.39	-0.02	-0.03
Total Pell amount received ⁶					(Effect size = 0.06)			(Effect size = #)	
None	5,060	2,850	70.41	68.16	-2.25*	-3.19	70.39	-0.02	-0.03
\$1–\$3,238	760	380	10.98	11.14	0.16	1.48	10.95	-0.02	-0.23
\$3,239–\$6,194	820	320	9.02	9.92	0.90*	9.97	8.99	-0.03	-0.34
\$6,195 or more	990	350	9.59	10.78	1.19*	12.39	9.67	0.08	0.80
First-time beginner status (sampled)					(Effect size = 0.01)			(Effect size = 0.01)	
Yes	2,520	1,170	16.47	16.71	0.24	1.48	16.95	0.48	2.90
No	5,100	2,710	83.53	83.29	-0.24	-0.29	83.05	-0.48	-0.57

See notes at end of table.

Table M-71. Undergraduate student-level survey nonresponse bias analysis for selected variables—private nonprofit 4-year, doctorate-granting institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁷					(Effect size = 0.01)			(Effect size = 0.03)	
1–90	2,550	1,270	47.95	47.92	-0.03	-0.06	49.46	1.51	3.14
91–98	2,170	1,150	22.01	21.75	-0.26	-1.19	21.47	-0.54	-2.45
99–100	2,850	1,430	28.75	29.15	0.41	1.41	27.75	-1.00	-3.47
None or unknown	60	40	1.29	1.18	-0.11	-8.82	1.32	0.03	2.38
Number of full-time, first-time undergraduate students living on campus ⁷					(Effect size = 0.02)			(Effect size = 0.02)	
0–194	1,410	710	10.47	10.30	-0.17	-1.62	10.27	-0.20	-1.89
195–415	1,350	670	13.46	13.57	0.11	0.79	12.85	-0.61	-4.53
416–738	1,890	900	30.89	31.53	0.65	2.10	31.58	0.69	2.23
739 or more	2,540	1,330	38.44	38.26	-0.18	-0.47	38.70	0.26	0.68
Unknown	430	290	6.74	6.34	-0.40	-5.98	6.60	-0.14	-2.09
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁷					(Effect size = 0.05)			(Effect size = 0.05)	
0–43	1,240	520	10.73	11.75	1.02*	9.50	11.52	0.80*	7.43
44–68	1,560	840	17.55	17.72	0.17	0.94	18.01	0.46	2.61
69–124	2,020	870	26.31	27.50	1.18*	4.50	27.20	0.89	3.39
125 or more	2,750	1,620	44.08	41.84	-2.23*	-5.07	41.91	-2.16*	-4.91
Unknown	60	40	1.33	1.20	-0.13	-10.12	1.35	0.02	1.16
Average amount of grant and scholarship aid received ⁷					(Effect size = 0.02)			(Effect size = 0.03)	
\$0–\$15,784	1,890	980	28.66	28.00	-0.66	-2.30	28.16	-0.50	-1.75
\$15,785–\$22,032	1,700	840	15.55	15.90	0.35	2.27	15.30	-0.24	-1.58
\$22,033–\$27,903	1,740	850	20.51	20.87	0.36	1.75	20.07	-0.45	-2.18
\$27,904 or more	2,240	1,180	33.98	34.05	0.06	0.18	35.15	1.16	3.43
Unknown	60	40	1.29	1.18	-0.11	-8.82	1.32	0.03	2.38
Total income from CPS:20 ⁸					(Effect size = ‡)			(Effect size = ‡)	
-\$13,711–\$26,499	1,000	450	14.39	14.38	-0.02	-0.12	13.23	-1.16*	-8.09
\$26,500–\$68,902	1,100	350	13.94	16.20	2.26*	16.22	14.60	0.66*	4.73
\$68,903–\$138,080	1,100	350	13.54	15.72	2.18*	16.09	13.93	0.39	2.85
\$138,081 or more	1,120	340	12.94	14.87	1.94*	14.98	13.20	0.26	2.04
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	3,290	2,380	44.98	38.65	-6.33*	-14.06	44.87	-0.11	-0.24

See notes at end of table.

Table M-71. Undergraduate student-level survey nonresponse bias analysis for selected variables—private nonprofit 4-year, doctorate-granting institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Parents' highest education from CPS:20					(Effect size = ‡)			(Effect size = ‡)	
Middle school/junior high	110	50	1.70	1.85	0.16	9.29	1.66	-0.03	-1.96
High school	1,040	390	14.11	15.22	1.11*	7.89	14.03	-0.08	-0.55
College or beyond	3,080	1,000	37.61	42.78	5.17*	13.75	38.00	0.39	1.03
Other/unknown	100	60	1.38	1.35	-0.04	-2.56	1.28	-0.10	-7.36
Missing	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	3,290	2,380	44.98	38.65	-6.33*	-14.06	44.87	-0.11	-0.24
Has dependents from CPS:20					(Effect size = ‡)			(Effect size = ‡)	
Yes	350	170	5.66	5.93	0.27	4.85	5.40	-0.26	-4.51
No	3,990	1,340	49.35	55.42	6.06*	12.29	49.73	0.37	0.76
Missing	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	3,290	2,380	44.98	38.65	-6.33*	-14.06	44.87	-0.11	-0.24
Student's marital status from CPS:20					(Effect size = ‡)			(Effect size = ‡)	
Single	4,000	1,360	49.65	55.42	5.77*	11.62	49.86	0.21	0.43
Married/remarried	260	120	4.02	4.41	0.39*	9.62	3.93	-0.09	-2.19
Separated	‡	‡	‡	‡	‡	‡	‡	‡	‡
Divorced/widowed	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	3,290	2,380	44.98	38.65	-6.33*	-14.06	44.87	-0.11	-0.24

Rounds to zero.

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the student base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the student base weight adjusted for nonresponse) and weighted full-sample mean (using the student base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁷ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁸ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations. As part of the expected family contribution (EFC) formula, some calculations include allowances against income or asset amounts that can result in negative numbers.

NOTE: CPS = Central Processing System. Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-72. Undergraduate student-level survey nonresponse bias analysis for selected variables—private for-profit less-than-2-year institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Bureau of Economic Analysis region ⁴					(Effect size = ‡)			(Effect size = ‡)	
New England	160	200	4.52	4.67	0.15	3.25	4.42	-0.11	-2.38
Mideast	450	430	20.67	22.46	1.79*	8.66	24.41	3.75*	18.12
Great Lakes	210	210	21.12	20.91	-0.21	-1.01	18.02	-3.10*	-14.69
Plains	40	30	0.81	0.98	0.17	20.41	0.78	-0.03	-4.16
Southeast	540	620	21.39	20.97	-0.42	-1.98	22.42	1.03	4.82
Southwest	480	580	11.28	10.80	-0.48	-4.28	10.28	-1.00	-8.87
Rocky Mountains	120	100	1.19	1.27	0.08	7.12	1.21	0.03	2.26
Far West	470	460	19.02	17.95	-1.07	-5.62	18.46	-0.56	-2.94
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡
Federal aid status					(Effect size = 0.14)			(Effect size = 0.04)	
Received	2,080	1,980	72.01	78.03	6.02*	8.36	70.31	-1.70	-2.36
Did not receive	240	350	15.07	12.60	-2.47	-16.38	16.17	1.10	7.33
Missing	160	310	12.92	9.37	-3.55*	-27.46	13.51	0.59	4.60
Direct Loan status					(Effect size = 0.19)			(Effect size = 0.04)	
Received	1,740	1,480	55.24	64.54	9.29*	16.82	57.12	1.88	3.40
Did not receive	730	1,160	44.76	35.46	-9.29*	-20.76	42.88	-1.88	-4.20
Total Direct Loan amount received ⁵					(Effect size = 0.22)			(Effect size = 0.07)	
None	730	1,160	44.76	35.46	-9.29*	-20.76	42.88	-1.88	-4.20
\$1–\$4,750	450	530	19.41	18.92	-0.49	-2.51	18.09	-1.32	-6.79
\$4,751–\$6,843	350	280	9.94	12.34	2.40*	24.19	10.72	0.78	7.83
\$6,844–\$9,500	770	580	21.09	27.17	6.08*	28.84	22.69	1.61	7.63
\$9,501 or more	170	90	4.81	6.10	1.30*	26.94	5.62	0.81	16.87
Age as of December 31, 2019					(Effect size = ‡)			(Effect size = ‡)	
15–23	1,210	1,470	45.56	42.57	-2.99*	-6.56	42.57	-2.99*	-6.57
24–29	620	550	25.21	27.81	2.60*	10.30	26.03	0.82	3.27
30 or older	640	610	29.02	29.62	0.60	2.08	31.40	2.38*	8.21
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Institution aid status					(Effect size = 0.06)			(Effect size = 0.01)	
Received	120	90	4.04	4.77	0.73	18.10	3.86	-0.17	-4.30
Did not receive	1,340	1,380	57.69	59.52	1.84	3.18	57.36	-0.32	-0.56
Unknown	1,020	1,170	38.28	35.71	-2.57	-6.71	38.77	0.50	1.29

See notes at end of table.

Table M-72. Undergraduate student-level survey nonresponse bias analysis for selected variables—private for-profit less-than-2-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
State aid status					(Effect size = 0.07)			(Effect size = 0.03)	
Received	70	50	1.53	2.17	0.65*	42.35	1.86	0.34	22.21
Did not receive	1,400	1,430	60.83	62.97	2.14	3.52	60.02	-0.80	-1.32
Unknown	1,000	1,160	37.65	34.86	-2.79	-7.40	38.11	0.46	1.23
Received any aid excluding private loans					(Effect size = 0.14)			(Effect size = 0.03)	
Yes	2,100	2,000	72.67	78.99	6.32*	8.70	71.19	-1.49	-2.04
No	220	340	14.59	11.96	-2.63	-18.02	15.61	1.02	6.96
Unknown	150	310	12.74	9.05	-3.69*	-28.98	13.21	0.47	3.69
Veteran status					(Effect size = 0.02)			(Effect size = 0.02)	
Yes	80	80	3.94	4.26	0.33	8.26	4.37	0.44	11.12
No	2,390	2,560	96.06	95.74	-0.33	-0.34	95.63	-0.44	-0.46
Race/ethnicity					(Effect size = ‡)			(Effect size = ‡)	
American Indian or Alaska Native, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
Asian, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
Black, not Hispanic or Latino	500	380	23.33	26.06	2.73	11.72	23.24	-0.09	-0.39
Hispanic or Latino, of any race	880	340	19.92	31.46	11.55*	57.97	23.95	4.03*	20.23
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
White, not Hispanic or Latino	720	520	25.30	30.89	5.59*	22.08	26.33	1.03	4.07
Two or more races, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	100	1,350	26.68	3.24	-23.44*	-87.84	12.18	-14.51*	-54.37
Gender					(Effect size = 0.14)			(Effect size = 0.12)	
Male	460	660	22.60	19.37	-3.24*	-14.32	23.52	0.92	4.06
Female	1,990	1,870	75.06	79.91	4.85*	6.46	75.90	0.84	1.12
Unknown	30	110	2.33	0.72	-1.61*	-69.17	0.58	-1.76*	-75.25
Institution total undergraduate enrollment ⁵					(Effect size = 0.07)			(Effect size = 0.04)	
1–334	650	640	19.63	20.89	1.26	6.44	18.77	-0.86	-4.38
335–521	790	690	31.06	32.11	1.05	3.40	29.94	-1.12	-3.61
522–942	510	570	29.35	29.71	0.36	1.21	31.01	1.66	5.66
943 or more	510	740	19.96	17.29	-2.67	-13.40	20.28	0.32	1.61

See notes at end of table.

Table M-72. Undergraduate student-level survey nonresponse bias analysis for selected variables—private for-profit less-than-2-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Major					(Effect size = ‡)			(Effect size = ‡)	
Undecided	‡	‡	‡	‡	‡	‡	‡	‡	‡
Humanities	‡	‡	‡	‡	‡	‡	‡	‡	‡
Social/behavioral sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡
Life sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡
Physical sciences/mathematics	‡	‡	‡	‡	‡	‡	‡	‡	‡
Computer/information science	90	60	2.37	2.92	0.55	23.17	3.37	1.00	42.00
Engineering	50	60	2.26	2.62	0.36	15.86	2.84	0.58	25.51
Education	‡	‡	‡	‡	‡	‡	‡	‡	‡
Business/management	30	30	1.10	1.03	-0.07	-6.56	0.80	-0.31	-27.74
Health	1,080	810	42.93	47.41	4.53	10.55	46.14	3.21	7.47
Vocational/technical	130	260	10.25	8.18	-2.09	-20.44	10.33	0.08	0.83
Other technical/professional	940	750	29.12	33.85	4.78*	16.41	31.13	2.00	6.88
Unknown	80	570	10.94	2.06	-8.98	-82.09	3.78	-7.17*	-65.49
Degree program (undergraduate only)					(Effect size = ‡)			(Effect size = ‡)	
Certificate	2,440	2,010	87.03	99.26	12.23*	14.05	99.07	12.04*	13.83
Associate's degree	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bachelor's degree	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not in a degree program or others	30	90	1.99	0.74	-1.25	-62.77	0.93	-1.06	-53.31
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Pell Grant status					(Effect size = 0.10)			(Effect size = 0.03)	
Received	1,740	1,710	60.11	64.77	4.66*	7.74	58.59	-1.53	-2.54
Did not receive	730	930	39.89	35.23	-4.66*	-11.67	41.41	1.53	3.82
Total Pell amount received ⁶					(Effect size = 0.12)			(Effect size = 0.04)	
None	730	930	39.89	35.23	-4.66*	-11.67	41.41	1.53	3.82
\$1–\$3,097	390	520	17.96	16.60	-1.36	-7.55	17.30	-0.66	-3.68
\$3,098–\$6,194	780	700	25.63	29.52	3.89*	15.17	25.76	0.13	0.50
\$6,195 or more	570	490	16.52	18.64	2.12*	12.84	15.53	-0.99	-6.00
First-time beginner status (sampled)					(Effect size = 0.01)			(Effect size = 0.01)	
Yes	800	1,000	18.11	17.57	-0.53	-2.95	17.66	-0.45	-2.46
No	1,670	1,640	81.89	82.43	0.53	0.65	82.34	0.45	0.54

See notes at end of table.

Table M-72. Undergraduate student-level survey nonresponse bias analysis for selected variables—private for-profit less-than-2-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁷					(Effect size = 0.07)			(Effect size = 0.04)	
1–62	670	580	15.15	17.11	1.96	12.93	16.53	1.38	9.12
63–72	500	570	35.99	35.17	-0.82	-2.29	35.55	-0.44	-1.23
73–85	810	840	24.83	25.87	1.04	4.18	24.75	-0.08	-0.31
86 or more	440	630	23.80	21.59	-2.22	-9.32	22.91	-0.89	-3.75
None or unknown	50	30	0.23	0.27	0.04	19.14	0.26	0.03	13.17
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁷					(Effect size = 0.04)			(Effect size = 0.04)	
0–12	190	200	8.62	8.97	0.35	4.06	7.73	-0.89	-10.31
13–24	230	250	5.06	5.26	0.20	3.98	4.83	-0.23	-4.64
25–54	400	340	22.40	23.38	0.97	4.34	21.92	-0.49	-2.18
55 or more	1,530	1,750	60.41	58.47	-1.93	-3.20	61.73	1.32	2.19
Unknown	120	100	3.51	3.91	0.41	11.63	3.80	0.29	8.31
Average amount of grant and scholarship aid received ⁷					(Effect size = 0.06)			(Effect size = 0.04)	
\$0–\$4,175	1,030	1,210	51.28	49.20	-2.07	-4.05	49.94	-1.34	-2.61
\$4,176–\$4,843	650	580	19.11	20.54	1.42	7.45	19.01	-0.10	-0.54
\$4,844–\$5,437	450	460	15.56	16.70	1.14	7.33	15.70	0.14	0.89
\$5,438 or more	300	350	13.82	13.29	-0.53	-3.86	15.09	1.27	9.22
Unknown	50	30	0.23	0.27	0.04	19.14	0.26	0.03	13.17
Total income from CPS:20 ⁸					(Effect size = ‡)			(Effect size = ‡)	
–\$1,000–\$6,000	380	450	14.91	14.71	-0.19	-1.29	13.62	-1.29	-8.65
\$6,001–\$16,528	410	400	16.25	17.43	1.17	7.21	17.82	1.56	9.61
\$16,529–\$32,180	430	400	16.23	18.40	2.17	13.39	15.87	-0.36	-2.24
\$32,181 or more	430	390	16.36	18.46	2.10*	12.85	15.49	-0.87	-5.30
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	820	990	35.91	30.65	-5.27*	-14.66	36.87	0.96	2.66
Parents' highest education from CPS:20					(Effect size = 0.12)			(Effect size = 0.10)	
Middle school/junior high	130	130	4.36	4.41	0.06	1.30	3.61	-0.75*	-17.10
High school	700	650	26.35	28.04	1.69	6.42	24.37	-1.98	-7.50
College or beyond	510	500	20.23	23.24	3.01*	14.88	19.22	-1.02	-5.03
Other/unknown	250	320	11.01	11.52	0.51	4.64	13.42	2.41	21.93
Missing	60	60	2.14	2.13	#	-0.16	2.51	0.37	17.36
Not matched in CPS:20	820	990	35.91	30.65	-5.27*	-14.66	36.87	0.96	2.66

See notes at end of table.

Table M-72. Undergraduate student-level survey nonresponse bias analysis for selected variables—private for-profit less-than-2-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Has dependents from CPS:20					(Effect size = ‡)			(Effect size = ‡)	
Yes	740	710	29.94	31.97	2.03	6.78	30.19	0.25	0.84
No	920	940	34.15	37.38	3.24*	9.48	32.94	-1.21	-3.54
Missing	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	820	990	35.91	30.65	-5.27*	-14.66	36.87	0.96	2.66
Student's marital status from CPS:20					(Effect size = 0.12)			(Effect size = 0.03)	
Single	1,280	1,360	51.14	54.17	3.03*	5.93	49.98	-1.16	-2.26
Married/ remarried	260	170	8.15	9.93	1.78*	21.83	8.56	0.41	5.03
Separated	60	70	3.03	3.23	0.19	6.34	2.84	-0.19	-6.36
Divorced/widowed	50	50	1.76	2.03	0.26	14.80	1.75	-0.02	-0.89
Not matched in CPS:20	820	990	35.91	30.65	-5.27*	-14.66	36.87	0.96	2.66

Rounds to zero.

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the student base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the student base weight adjusted for nonresponse) and weighted full-sample mean (using the student base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁷ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁸ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations. As part of the expected family contribution (EFC) formula, some calculations include allowances against income or asset amounts that can result in negative numbers. NOTE: CPS = Central Processing System. Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-73. Undergraduate student-level survey nonresponse bias analysis for selected variables—private for-profit 2-year institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Bureau of Economic Analysis region ⁴					(Effect size = 0.17)		(Effect size = 0.12)		
New England	80	120	0.91	0.76	-0.15	-16.62	0.73	-0.18	-19.79
Mideast	490	590	12.81	11.05	-1.75	-13.70	11.03	-1.78	-13.89
Great Lakes	210	260	7.21	9.01	1.80	24.99	8.71	1.50	20.80
Plains	190	120	2.11	3.01	0.90	42.65	2.28	0.18	8.34
Southeast	1,060	1,400	30.15	31.20	1.05	3.50	32.30	2.15	7.12
Southwest	540	680	16.32	13.58	-2.73	-16.76	16.52	0.21	1.27
Rocky Mountains	190	190	3.82	3.82	0.01	0.17	2.96	-0.86	-22.43
Far West	430	340	18.64	21.89	3.25*	17.45	19.50	0.86	4.60
Outlying Areas	200	380	8.04	5.66	-2.37	-29.55	5.96	-2.07	-25.80
Federal aid status					(Effect size = 0.15)		(Effect size = 0.16)		
Received	2,820	3,030	64.96	71.10	6.14*	9.45	57.32	-7.65*	-11.77
Did not receive	340	540	20.69	19.02	-1.67	-8.06	24.39	3.70	17.91
Missing	220	490	14.35	9.88	-4.47*	-31.15	18.29	3.94	27.48
Direct Loan status					(Effect size = 0.15)		(Effect size = 0.07)		
Received	2,290	2,190	46.69	54.38	7.68*	16.46	43.11	-3.58	-7.66
Did not receive	1,100	1,880	53.31	45.62	-7.68*	-14.42	56.89	3.58	6.71
Total Direct Loan amount received ⁵					(Effect size = 0.18)		(Effect size = 0.08)		
None	1,100	1,880	53.31	45.62	-7.68*	-14.42	56.89	3.58	6.71
\$1–\$4,750	510	730	11.62	11.24	-0.38	-3.26	10.43	-1.20	-10.29
\$4,751–\$7,528	500	490	10.05	11.22	1.17	11.64	9.22	-0.83	-8.22
\$7,529–\$9,500	810	710	14.60	17.42	2.82*	19.31	12.92	-1.68*	-11.50
\$9,501 or more	470	250	10.43	14.50	4.07*	39.08	10.55	0.12	1.17
Age as of December 31, 2019					(Effect size = ‡)		(Effect size = ‡)		
15–23	1,680	2,250	40.98	37.10	-3.88*	-9.47	38.37	-2.61	-6.37
24–29	800	840	26.97	28.94	1.97*	7.31	27.36	0.40	1.47
30 or older	910	970	32.01	33.96	1.95	6.10	34.27	2.26	7.06
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Institution aid status					(Effect size = 0.05)		(Effect size = 0.12)		
Received	280	250	4.74	5.38	0.63	13.31	4.04	-0.71	-14.87
Did not receive	1,850	2,160	50.92	52.63	1.72	3.37	45.92	-4.99*	-9.81
Unknown	1,260	1,650	44.34	41.99	-2.35	-5.29	50.04	5.70*	12.85

See notes at end of table.

Table M-73. Undergraduate student-level survey nonresponse bias analysis for selected variables—private for-profit 2-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
State aid status					(Effect size = 0.07)			(Effect size = 0.04)	
Received	120	100	2.40	2.92	0.52	21.58	2.38	-0.03	-1.09
Did not receive	2,140	2,430	61.34	64.10	2.76	4.49	59.55	-1.79	-2.92
Unknown	1,130	1,530	36.25	32.98	-3.28	-9.03	38.07	1.82	5.01
Received any aid excluding private loans					(Effect size = 0.16)			(Effect size = 0.19)	
Yes	2,900	3,090	66.95	74.31	7.36*	11.00	60.10	-6.85*	-10.23
No	180	380	12.46	9.59	-2.88	-23.08	11.60	-0.86	-6.94
Unknown	310	600	20.59	16.10	-4.48*	-21.79	28.30	7.72*	37.48
Veteran status					(Effect size = #)			(Effect size = 0.02)	
Yes	170	170	6.64	6.72	0.07	1.08	6.21	-0.44	-6.60
No	3,210	3,890	93.36	93.28	-0.07	-0.08	93.79	0.44	0.47
Race/ethnicity					(Effect size = ‡)			(Effect size = ‡)	
American Indian or Alaska Native, not Hispanic or Latino	40	50	0.76	1.00	0.24*	32.19	2.59	1.83*	241.02
Asian, not Hispanic or Latino	150	50	4.63	7.40	2.77	59.96	5.21	0.58	12.57
Black, not Hispanic or Latino	690	550	12.50	16.55	4.04*	32.33	12.04	-0.47	-3.72
Hispanic or Latino, of any race	1,150	870	24.87	29.75	4.88	19.64	23.82	-1.05	-4.23
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
White, not Hispanic or Latino	1,100	450	24.41	37.41	13.01*	53.28	27.71	3.31*	13.55
Two or more races, not Hispanic or Latino	120	90	2.79	4.27	1.49*	53.41	11.35	8.56*	307.33
Unknown	110	1,990	29.56	3.01	-26.55*	-89.81	16.22	-13.34*	-45.13
Gender					(Effect size = 0.21)			(Effect size = 0.07)	
Male	1,200	1,730	41.13	38.01	-3.12	-7.58	44.33	3.20	7.78
Female	2,160	2,010	53.60	60.86	7.26*	13.54	51.27	-2.33	-4.34
Unknown	30	320	5.27	1.13	-4.14	-78.62	4.40	-0.87	-16.56
Institution total undergraduate enrollment ⁵					(Effect size = 0.21)			(Effect size = 0.16)	
1–657	1,090	790	32.19	40.86	8.67*	26.94	39.41	7.23*	22.45
658–940	910	1,000	24.21	25.01	0.80	3.29	22.09	-2.12	-8.77
941–1,415	750	1,080	21.34	17.28	-4.06	-19.01	20.17	-1.16	-5.46
1,416 or more	640	1,200	22.26	16.85	-5.41*	-24.30	18.32	-3.94	-17.69

See notes at end of table.

Table M-73. Undergraduate student-level survey nonresponse bias analysis for selected variables—private for-profit 2-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Major					(Effect size = ‡)			(Effect size = ‡)	
Undecided	‡	‡	‡	‡	‡	‡	‡	‡	‡
Humanities	‡	‡	‡	‡	‡	‡	‡	‡	‡
Social/behavioral sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡
Life sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡
Physical sciences/mathematics	‡	‡	‡	‡	‡	‡	‡	‡	‡
Computer/information science	40	40	1.02	1.11	0.08	7.99	0.92	-0.10	-9.80
Engineering	190	130	4.63	5.41	0.78	16.94	4.97	0.35	7.53
Education	‡	‡	‡	‡	‡	‡	‡	‡	‡
Business/management	70	90	1.52	1.64	0.12	7.56	1.39	-0.13	-8.45
Health	1,800	1,730	46.30	51.71	5.43*	11.73	45.22	-1.08	-2.33
Vocational/technical	640	960	20.78	19.84	-0.95	-4.59	22.86	2.07	9.97
Other technical/professional	450	450	12.29	13.40	1.12	9.08	12.87	0.58	4.72
Unknown	60	510	10.67	2.55	-8.16*	-76.51	5.72	-4.95	-46.39
Degree program (undergraduate only)					(Effect size = ‡)			(Effect size = ‡)	
Certificate	2,360	2,710	59.54	63.81	4.27	7.18	64.89	5.35	8.99
Associate's degree	1,010	460	25.76	35.46	9.70*	37.65	32.78	7.01*	27.23
Bachelor's degree	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not in a degree program or others	20	110	1.36	0.73	-0.63	-46.63	2.33	0.97	71.46
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Pell Grant status					(Effect size = 0.09)			(Effect size = 0.12)	
Received	2,340	2,590	49.01	53.47	4.46*	9.10	42.93	-6.07*	-12.39
Did not receive	1,050	1,480	50.99	46.53	-4.46*	-8.75	57.07	6.07*	11.91
Total Pell amount received ⁶					(Effect size = 0.11)			(Effect size = 0.12)	
None	1,050	1,480	50.99	46.53	-4.46*	-8.75	57.07	6.07*	11.91
\$1–\$3,097	560	800	15.26	14.54	-0.72	-4.74	13.42	-1.84	-12.07
\$3,098–\$6,194	820	960	16.95	18.67	1.72	10.17	15.19	-1.76*	-10.40
\$6,195 or more	950	820	16.80	20.26	3.46*	20.60	14.33	-2.47*	-14.69
First-time beginner status (sampled)					(Effect size = 0.04)			(Effect size = 0.01)	
Yes	1,680	2,430	18.82	17.25	-1.57*	-8.37	19.38	0.56	2.99
No	1,710	1,640	81.18	82.75	1.57*	1.94	80.62	-0.56	-0.69

See notes at end of table.

Table M-73. Undergraduate student-level survey nonresponse bias analysis for selected variables—private for-profit 2-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁷					(Effect size = 0.10)		(Effect size = 0.16)		
1–59	610	630	24.09	25.13	1.04	4.31	30.72	6.63*	27.52
60–73	920	1,190	30.73	28.69	-2.04	-6.63	28.05	-2.68	-8.71
74–85	800	890	18.14	17.03	-1.11	-6.10	15.25	-2.89	-15.94
86 or more	970	1,320	23.75	24.36	0.60	2.54	22.20	-1.56	-6.55
None or unknown	90	30	3.29	4.80	1.50	45.56	3.79	0.49	14.92
Number of full-time, first-time undergraduate students living on campus ⁷					(Effect size = 0.07)		(Effect size = 0.16)		
0	80	100	0.55	0.44	-0.10	-19.05	0.50	-0.05	-9.81
1–8	140	130	8.10	9.09	0.98	12.15	12.02	3.92	48.38
9 or more	80	190	4.38	3.14	-1.24	-28.36	5.56	1.19	27.06
Unknown	3,090	3,640	86.97	87.33	0.36	0.42	81.92	-5.05	-5.81
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁷					(Effect size = 0.15)		(Effect size = 0.22)		
0–16	420	280	18.52	23.32	4.81*	25.95	25.54	7.02*	37.91
17–55	810	790	26.64	28.48	1.84	6.91	28.14	1.50	5.65
56–97	730	970	13.64	12.34	-1.30	-9.52	13.73	0.09	0.67
98 or more	1,080	1,570	29.67	25.15	-4.51*	-15.22	22.65	-7.01*	-23.64
Unknown	350	460	11.54	10.71	-0.83	-7.23	9.94	-1.60	-13.89
Average amount of grant and scholarship aid received ⁷					(Effect size = 0.10)		(Effect size = 0.16)		
\$0–\$4,149	800	1,080	27.16	24.90	-2.26	-8.32	33.27	6.11*	22.50
\$4,150–\$4,779	1,210	1,480	33.08	32.24	-0.84	-2.54	28.65	-4.43*	-13.39
\$4,780–\$5,500	490	670	11.75	11.41	-0.34	-2.88	9.22	-2.53	-21.57
\$5,501 or more	780	800	24.57	26.46	1.89	7.69	24.91	0.33	1.35
Unknown	110	40	3.44	4.99	1.55	45.06	3.96	0.52	15.14
Total income from CPS:20 ⁸					(Effect size = ‡)		(Effect size = ‡)		
-\$1,531–\$4,215	460	660	9.87	10.01	0.14	1.41	8.45	-1.42	-14.34
\$4,216–\$16,502	540	590	10.74	12.45	1.71*	15.97	10.31	-0.43	-3.98
\$16,503–\$33,794	550	570	12.50	13.29	0.79	6.33	10.26	-2.23*	-17.87
\$33,795 or more	580	550	13.56	16.22	2.65*	19.56	12.62	-0.94	-6.93
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	1,270	1,680	53.05	47.86	-5.20*	-9.80	58.21	5.15*	9.71

See notes at end of table.

Table M-73. Undergraduate student-level survey nonresponse bias analysis for selected variables—private for-profit 2-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Parents' highest education from CPS:20					(Effect size = 0.13)			(Effect size = 0.11)	
Middle school/junior high	170	130	2.98	3.16	0.17	5.84	2.32	-0.66	-22.15
High school	900	1,030	19.54	20.71	1.17	5.97	17.72	-1.82	-9.31
College or beyond	680	640	16.12	20.23	4.11*	25.47	14.94	-1.18	-7.35
Other/unknown	280	420	6.08	5.78	-0.29	-4.85	4.83	-1.24*	-20.43
Missing	100	160	2.22	2.27	0.05	2.03	1.98	-0.25	-11.11
Not matched in CPS:20	1,270	1,680	53.05	47.86	-5.20*	-9.80	58.21	5.15*	9.71
Has dependents from CPS:20					(Effect size = ‡)			(Effect size = ‡)	
Yes	870	900	20.11	23.53	3.42*	17.00	19.00	-1.11	-5.52
No	1,250	1,480	26.84	28.61	1.78	6.63	22.79	-4.04*	-15.07
Missing	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	1,270	1,680	53.05	47.86	-5.20*	-9.80	58.21	5.15*	9.71
Student's marital status from CPS:20					(Effect size = 0.12)			(Effect size = 0.11)	
Single	1,650	1,980	35.08	37.44	2.36*	6.72	31.12	-3.96*	-11.30
Married/remarried	300	250	7.76	9.73	1.97*	25.42	7.04	-0.71	-9.20
Separated	80	80	1.70	1.90	0.20	11.98	1.27	-0.43	-25.26
Divorced/widowed	100	70	2.41	3.07	0.66*	27.51	2.36	-0.05	-2.00
Not matched in CPS:20	1,270	1,680	53.05	47.86	-5.20*	-9.80	58.21	5.15*	9.71

Rounds to zero.

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the student base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the student base weight adjusted for nonresponse) and weighted full-sample mean (using the student base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁷ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁸ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations. As part of the expected family contribution (EFC) formula, some calculations include allowances against income or asset amounts that can result in negative numbers. NOTE: CPS = Central Processing System. Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-74. Undergraduate student-level survey nonresponse bias analysis for selected variables—private for-profit 4-year institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Bureau of Economic Analysis region ⁴					(Effect size = 0.05)		(Effect size = 0.04)		
New England	230	150	4.96	5.32	0.36	7.24	5.19	0.22	4.48
Midwest	620	470	5.31	4.98	-0.33	-6.21	5.39	0.08	1.43
Great Lakes	560	370	8.47	8.44	-0.03	-0.40	8.13	-0.34	-4.05
Plains	220	160	1.93	2.00	0.07	3.43	2.11	0.17	9.01
Southeast	1,400	960	20.56	19.96	-0.60	-2.94	20.55	-0.01	-0.07
Southwest	550	360	31.38	30.00	-1.38	-4.41	30.08	-1.31	-4.17
Rocky Mountains	800	440	2.27	2.34	0.07	3.13	2.16	-0.11	-4.91
Far West	1,260	760	22.55	24.44	1.89*	8.40	23.45	0.90	3.98
Outlying Areas	270	230	2.55	2.51	-0.04	-1.54	2.96	0.41	15.93
Federal aid status					(Effect size = 0.09)		(Effect size = 0.01)		
Received	4,860	2,890	67.40	71.71	4.31*	6.39	67.36	-0.03	-0.05
Did not receive	780	790	28.43	24.38	-4.05*	-14.24	28.62	0.19	0.68
Missing	250	230	4.17	3.91	-0.26	-6.23	4.01	-0.16	-3.82
Direct Loan status					(Effect size = 0.10)		(Effect size = 0.01)		
Received	4,000	2,150	50.37	55.39	5.02*	9.98	50.62	0.26	0.51
Did not receive	1,890	1,750	49.63	44.61	-5.02*	-10.12	49.38	-0.26	-0.52
Total Direct Loan amount received ⁵					(Effect size = 0.13)		(Effect size = 0.04)		
None	1,890	1,750	49.63	44.61	-5.02*	-10.12	49.38	-0.26	-0.52
\$1–\$4,849	830	710	11.95	10.88	-1.07*	-8.92	10.75	-1.20*	-10.02
\$4,850–\$7,765	1,010	530	11.26	12.24	0.98*	8.68	11.58	0.32	2.80
\$7,766–\$10,500	1,070	490	12.66	15.14	2.47*	19.53	13.52	0.85	6.75
\$10,501 or more	1,090	430	14.49	17.13	2.64*	18.21	14.78	0.28	1.96
Age as of December 31, 2019					(Effect size = ‡)		(Effect size = ‡)		
15–23	2,520	1,670	20.80	21.42	0.62	2.97	20.91	0.11	0.53
24–29	1,370	930	24.76	24.06	-0.69	-2.80	23.69	-1.07	-4.32
30 or older	2,000	1,280	54.42	54.52	0.10	0.18	55.40	0.98	1.81
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Institution aid status					(Effect size = 0.04)		(Effect size = 0.03)		
Received	1,510	960	32.72	32.56	-0.15	-0.47	31.44	-1.28*	-3.92
Did not receive	3,350	2,230	58.32	57.38	-0.93	-1.60	59.62	1.30	2.23
Unknown	1,030	710	8.97	10.05	1.09	12.12	8.95	-0.02	-0.23

See notes at end of table.

Table M-74. Undergraduate student-level survey nonresponse bias analysis for selected variables—private for-profit 4-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
State aid status					(Effect size = 0.04)			(Effect size = #)	
Received	450	280	3.06	3.25	0.18	6.01	3.11	0.04	1.44
Did not receive	4,300	2,770	87.69	86.48	-1.21	-1.38	87.72	0.03	0.03
Unknown	1,150	860	9.24	10.27	1.03	11.14	9.17	-0.07	-0.76
Received any aid excluding private loans					(Effect size = 0.10)			(Effect size = 0.02)	
Yes	5,290	3,220	82.91	86.60	3.69*	4.45	82.61	-0.30	-0.36
No	400	470	13.63	10.31	-3.32*	-24.38	14.10	0.47	3.41
Unknown	200	210	3.46	3.09	-0.37	-10.64	3.29	-0.17	-4.88
Veteran status					(Effect size = #)			(Effect size = 0.01)	
Yes	370	250	10.08	9.95	-0.13	-1.26	10.49	0.41	4.06
No	5,520	3,650	89.92	90.05	0.13	0.14	89.51	-0.41	-0.45
Race/ethnicity					(Effect size = ‡)			(Effect size = ‡)	
American Indian or Alaska Native, not Hispanic or Latino	40	30	0.47	0.46	-0.01	-2.21	0.57	0.10	20.86
Asian, not Hispanic or Latino	410	110	5.07	6.01	0.94*	18.48	5.15	0.08	1.55
Black, not Hispanic or Latino	1,230	680	21.64	22.84	1.21	5.58	22.87	1.24	5.72
Hispanic or Latino, of any race	1,520	810	21.93	23.22	1.30*	5.92	21.74	-0.18	-0.84
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
White, not Hispanic or Latino	2,270	1,140	38.13	40.86	2.72	7.14	39.47	1.34	3.51
Two or more races, not Hispanic or Latino	300	180	4.71	5.08	0.37	7.93	7.58	2.87*	60.97
Unknown	70	920	7.03	0.81	-6.21*	-88.44	1.39	-5.64*	-80.25
Gender					(Effect size = 0.07)			(Effect size = 0.02)	
Male	1,600	1,330	32.18	29.22	-2.96*	-9.20	32.67	0.49	1.52
Female	4,230	2,510	67.22	70.31	3.09*	4.60	66.83	-0.39	-0.57
Unknown	60	60	0.60	0.47	-0.13	-22.07	0.50	-0.10	-17.26
Institution total undergraduate enrollment ⁵					(Effect size = 0.03)			(Effect size = 0.03)	
1–1,094	1,730	910	6.93	7.50	0.56	8.11	7.70	0.76*	11.02
1,095–3,765	1,340	1,020	10.87	11.09	0.22	1.99	10.85	-0.02	-0.15
3,766–8,066	1,460	1,030	12.83	13.23	0.40	3.14	12.75	-0.08	-0.62
8,067 or more	1,360	950	69.37	68.19	-1.18	-1.70	68.70	-0.67	-0.96

See notes at end of table.

Table M-74. Undergraduate student-level survey nonresponse bias analysis for selected variables—private for-profit 4-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Major					(Effect size = ‡)			(Effect size = ‡)	
Undecided	‡	‡	‡	‡	‡	‡	‡	‡	‡
Humanities	430	180	3.66	3.37	-0.28	-7.77	3.52	-0.14	-3.82
Social/behavioral sciences	170	80	4.13	4.50	0.37	8.92	4.63	0.50	12.20
Life sciences	140	90	3.12	3.12	#	-0.11	3.11	-0.02	-0.56
Physical sciences/mathematics	‡	‡	‡	‡	‡	‡	‡	‡	‡
Computer/information science	340	200	5.05	4.79	-0.26	-5.11	5.20	0.15	3.05
Engineering	‡	‡	‡	‡	‡	‡	‡	‡	‡
Education	150	60	6.89	8.36	1.47*	21.42	7.99	1.11*	16.09
Business/management	690	670	23.69	21.58	-2.11*	-8.92	22.59	-1.10	-4.66
Health	3,030	1,730	36.53	36.76	0.23	0.63	34.93	-1.60*	-4.37
Vocational/technical	50	50	0.29	0.35	0.06	20.48	0.41	0.12	42.60
Other technical/professional	710	530	14.38	14.88	0.50	3.48	15.18	0.81	5.63
Unknown	50	290	0.32	0.08	-0.24	-75.58	0.07	-0.25	-77.94
Degree program (undergraduate only)					(Effect size = ‡)			(Effect size = ‡)	
Certificate	700	550	4.33	4.17	-0.16	-3.70	4.36	0.02	0.49
Associate's degree	1,600	1,080	18.03	17.37	-0.66	-3.64	17.66	-0.36	-2.02
Bachelor's degree	3,570	2,030	77.16	78.32	1.16	1.51	77.79	0.64	0.83
Not in a degree program or others	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Pell Grant status					(Effect size = 0.05)			(Effect size = #)	
Received	3,460	2,130	45.08	47.81	2.73*	6.05	45.22	0.14	0.31
Did not receive	2,430	1,770	54.92	52.19	-2.73*	-4.97	54.78	-0.14	-0.25
Total Pell amount received ⁶					(Effect size = 0.07)			(Effect size = 0.01)	
None	2,430	1,770	54.92	52.19	-2.73*	-4.97	54.78	-0.14	-0.25
\$1–\$3,097	870	770	12.10	11.42	-0.68	-5.62	11.88	-0.22	-1.83
\$3,098–\$6,194	1,150	700	16.90	18.43	1.53*	9.08	17.30	0.41	2.40
\$6,195 or more	1,440	660	16.08	17.96	1.87	11.65	16.04	-0.04	-0.28
First-time beginner status (sampled)					(Effect size = 0.02)			(Effect size = 0.01)	
Yes	2,290	1,640	5.56	5.19	-0.37	-6.70	5.36	-0.19	-3.50
No	3,610	2,260	94.44	94.81	0.37	0.39	94.64	0.19	0.21

See notes at end of table.

Table M-74. Undergraduate student-level survey nonresponse bias analysis for selected variables—private for-profit 4-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁷					(Effect size = 0.05)			(Effect size = 0.04)	
1–67	1,510	900	22.82	23.48	0.66	2.89	21.93	-0.89	-3.89
68–83	1,630	1,130	23.94	22.01	-1.93	-8.06	22.93	-1.01	-4.23
84–93	1,210	810	27.81	28.28	0.48	1.72	28.86	1.05	3.78
94 or more	1,240	810	23.70	24.39	0.68	2.88	24.27	0.57	2.41
None or unknown	300	250	1.73	1.84	0.11	6.31	2.01	0.28	16.02
Number of full-time, first-time undergraduate students living on campus ⁷					(Effect size = ‡)			(Effect size = ‡)	
0–37	‡	‡	‡	‡	‡	‡	‡	‡	‡
38–98	260	190	0.64	0.70	0.06	9.20	0.68	0.05	7.20
99–128	300	140	5.10	5.48	0.38	7.42	5.37	0.27	5.22
129 or more	160	100	12.13	12.51	0.39	3.20	11.99	-0.14	-1.14
Unknown	5,060	3,440	81.71	80.72	-0.99	-1.21	81.29	-0.41	-0.51
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁷					(Effect size = 0.04)			(Effect size = 0.02)	
0–7	870	460	8.48	9.47	0.98	11.59	8.52	0.04	0.45
8–34	1,170	740	20.06	19.68	-0.38	-1.90	19.59	-0.47	-2.35
35–115	1,010	690	15.20	15.31	0.11	0.72	15.92	0.72	4.75
116 or more	2,250	1,590	52.29	51.75	-0.54	-1.03	52.00	-0.29	-0.56
Unknown	600	420	3.97	3.80	-0.17	-4.31	3.97	#	0.12
Average amount of grant and scholarship aid received ⁷					(Effect size = 0.05)			(Effect size = 0.04)	
\$0–\$4,701	1,160	780	22.51	23.01	0.50	2.23	22.93	0.42	1.87
\$4,702–\$5,827	930	680	29.88	27.48	-2.40	-8.03	28.43	-1.45	-4.86
\$5,828–\$7,126	1,330	770	6.25	6.79	0.54	8.61	6.99	0.73*	11.74
\$7,127 or more	1,930	1,230	38.08	39.46	1.38	3.62	38.22	0.14	0.36
Unknown	540	440	3.28	3.26	-0.02	-0.57	3.44	0.16	4.89
Total income from CPS:20 ⁸					(Effect size = ‡)			(Effect size = ‡)	
-\$6,096–\$9,004	980	680	11.26	12.90	1.64*	14.58	12.79	1.53*	13.63
\$9,005–\$24,099	1,060	600	15.31	17.12	1.81*	11.81	16.12	0.81	5.32
\$24,100–\$50,761	1,070	600	16.02	16.54	0.52	3.24	15.20	-0.83	-5.17
\$50,762 or more	1,120	550	17.71	19.86	2.15*	12.13	17.35	-0.36	-2.02
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	1,650	1,460	39.56	33.50	-6.06*	-15.32	38.44	-1.12*	-2.83

See notes at end of table.

Table M-74. Undergraduate student-level survey nonresponse bias analysis for selected variables—private for-profit 4-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Parents' highest education from CPS:20					(Effect size = 0.13)			(Effect size = 0.06)	
Middle school/junior high	250	150	4.22	3.96	-0.26	-6.25	3.69	-0.54	-12.68
High school	1,640	970	24.89	26.27	1.38*	5.53	24.39	-0.50	-2.00
College or beyond	1,910	1,020	26.19	30.60	4.42*	16.87	27.53	1.35	5.14
Other/unknown	380	260	4.24	4.71	0.47	11.00	4.87	0.63*	14.80
Missing	60	30	0.89	0.96	0.06	7.09	1.07	0.18	19.86
Not matched in CPS:20	1,650	1,460	39.56	33.50	-6.06*	-15.32	38.44	-1.12*	-2.83
Has dependents from CPS:20					(Effect size = ‡)			(Effect size = ‡)	
Yes	1,640	930	30.86	33.36	2.50*	8.11	30.52	-0.34	-1.09
No	2,610	1,520	29.58	33.14	3.56*	12.03	31.03	1.45*	4.92
Missing	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	1,650	1,460	39.56	33.50	-6.06*	-15.32	38.44	-1.12*	-2.83
Student's marital status from CPS:20					(Effect size = 0.13)			(Effect size = 0.03)	
Single	3,080	1,850	37.38	40.69	3.31*	8.86	38.39	1.02*	2.72
Married/remarried	810	420	16.68	18.25	1.57*	9.40	16.55	-0.13	-0.79
Separated	140	60	1.75	2.18	0.42*	24.18	1.90	0.15	8.55
Divorced/widowed	210	110	4.62	5.38	0.76	16.35	4.71	0.08	1.84
Not matched in CPS:20	1,650	1,460	39.56	33.50	-6.06*	-15.32	38.44	-1.12*	-2.83

Rounds to zero.

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the student base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the student base weight adjusted for nonresponse) and weighted full-sample mean (using the student base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁷ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁸ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations. As part of the expected family contribution (EFC) formula, some calculations include allowances against income or asset amounts that can result in negative numbers.

NOTE: CPS = Central Processing System. Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-75. Undergraduate student-level survey analysis after poststratification for selected variables—all institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Control and level of institution					
Public less-than-2-year	0.25	0.25	0.36	-0.11*	-0.11*
Public 2-year	31.18	31.18	32.88	-1.70*	-1.70*
Public 4-year, non-doctorate-granting, primarily subbaccalaureate	7.71	7.71	8.38	-0.67*	-0.67*
Public 4-year, non-doctorate-granting, primarily baccalaureate	5.39	5.39	5.12	0.27*	0.27*
Public 4-year, doctorate-granting	30.61	30.61	28.39	2.22*	2.22*
Private nonprofit less-than-4-year	0.35	0.35	0.35	#	#
Private nonprofit 4-year, non-doctorate-granting	6.45	6.45	6.20	0.25	0.25
Private nonprofit 4-year, doctorate-granting	10.54	10.54	10.45	0.09	0.09
Private for-profit less-than-2-year	1.48	1.48	1.57	-0.09	-0.09
Private for-profit 2-year	1.36	1.36	1.35	0.01	0.01
Private for-profit 4-year	4.69	4.69	4.94	-0.25	-0.25
Bureau of Economic Analysis region ³					
New England	5.42	5.42	5.29	0.13	0.13
Mideast	13.83	13.83	13.68	0.15	0.15
Great Lakes	13.30	13.30	13.77	-0.47*	-0.47
Plains	6.47	6.47	6.60	-0.13	-0.13
Southeast	23.87	23.87	24.03	-0.16	-0.16
Southwest	12.50	12.50	12.24	0.26	0.26
Rocky Mountains	4.86	4.86	4.70	0.16	0.16
Far West	18.69	18.69	18.71	-0.02	-0.02
Outlying Areas	1.05	1.05	0.98	0.07*	0.07
Federal aid status					
Received	52.75	52.75	56.41	-3.66*	-3.66*
Did not receive	37.81	37.81	35.61	2.20*	2.20*
Missing	9.44	9.44	7.98	1.46*	1.46*
Direct Loan status					
Received	31.78	31.78	34.46	-2.68*	-2.68*
Did not receive	68.22	68.22	65.54	2.68*	2.68*
Total Direct Loan amount received ⁴					
None	68.22	68.22	65.54	2.68*	2.68*
\$1–\$4,500	7.87	7.87	8.65	-0.78*	-0.78*
\$4,501–\$5,500	7.00	7.00	7.55	-0.55*	-0.55*
\$5,501–\$8,563	10.14	10.14	10.77	-0.63*	-0.63*
\$8,564 or more	6.78	6.78	7.49	-0.71*	-0.71*
Age as of December 31, 2019					
15–23	64.18	64.07	61.89	2.29*	2.18*
24–29	16.12	16.11	17.53	-1.41*	-1.42*
30 or older	19.70	19.66	20.58	-0.88*	-0.92*
Unknown	‡	‡	‡	‡	‡
Institution aid status					
Received	26.34	26.34	25.43	0.91*	0.91*
Did not receive	57.92	57.92	59.91	-1.99*	-1.99*
Unknown	15.74	15.74	14.66	1.08*	1.08*

See notes at end of table.

Table M-75. Undergraduate student-level survey analysis after poststratification for selected variables—all institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
State aid status					
Received	19.44	19.44	19.64	-0.20	-0.20
Did not receive	64.32	64.32	65.05	-0.73*	-0.73*
Unknown	16.24	16.24	15.30	0.94*	0.94*
Received any aid excluding private loans					
Yes	67.50	67.50	69.27	-1.77*	-1.77*
No	23.81	23.81	23.58	0.23	0.23
Unknown	8.69	8.69	7.14	1.55*	1.55*
Veteran status					
Yes	3.69	3.69	3.71	-0.02	-0.02
No	96.31	96.31	96.29	0.02	0.02
Race/ethnicity					
American Indian or Alaska Native, not Hispanic or Latino	0.94	0.55	0.96	-0.02	-0.41*
Asian, not Hispanic or Latino	7.42	7.42	7.90	-0.48*	-0.48*
Black, not Hispanic or Latino	12.68	12.68	12.88	-0.20	-0.20
Hispanic or Latino, of any race	20.40	20.40	20.73	-0.33*	-0.33
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	0.70	0.33	0.64	0.06	-0.31*
White, not Hispanic or Latino	46.78	46.78	47.15	-0.37	-0.37
Two or more races, not Hispanic or Latino	8.45	3.90	7.98	0.47*	-4.08*
Unknown	2.62	7.92	1.76	0.86*	6.16*
Gender					
Male	42.31	42.14	40.99	1.32*	1.15*
Female	56.12	55.94	57.60	-1.48*	-1.66*
Unknown	1.57	1.92	1.40	0.17*	0.52*
Institution total undergraduate enrollment ⁴					
1–2,835	12.35	12.35	12.92	-0.57*	-0.57*
2,836–9,066	20.25	20.25	21.02	-0.77*	-0.77*
9,067–21,075	28.43	28.43	28.74	-0.31	-0.31
21,076 or more	38.97	38.97	37.32	1.65*	1.65*
Major					
Undecided	1.05	1.31	0.97	0.08	0.34*
Humanities	13.14	15.22	13.45	-0.31*	1.77*
Social/behavioral sciences	8.58	7.76	8.33	0.25*	-0.57*
Life sciences	9.88	9.26	9.59	0.29*	-0.33*
Physical sciences/mathematics	1.88	1.73	1.77	0.11*	-0.04
Computer/information science	5.62	4.96	5.53	0.09	-0.57*
Engineering	6.72	5.85	6.32	0.40*	-0.47*
Education	5.13	4.50	5.15	-0.02	-0.65*
Business/management	14.75	14.69	14.45	0.30*	0.24
Health	17.39	15.90	18.47	-1.08*	-2.57*
Vocational/technical	2.65	2.89	2.69	-0.04	0.20
Other technical/professional	12.22	11.60	12.45	-0.23	-0.85*
Unknown	0.98	4.32	0.83	0.15*	3.49*

See notes at end of table.

Table M-75. Undergraduate student-level survey analysis after poststratification for selected variables—all institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Degree program (undergraduate only)					
Certificate	6.27	6.45	6.96	-0.69*	-0.51*
Associate's degree	35.27	32.17	37.42	-2.15*	-5.25*
Bachelor's degree	56.31	54.66	53.43	2.88*	1.23*
Not in a degree program or others	2.15	2.84	2.19	-0.04	0.65*
Unknown	‡	‡	‡	‡	‡
Pell Grant status					
Received	35.30	35.30	40.22	-4.92*	-4.92*
Did not receive	64.70	64.70	59.78	4.92*	4.92*
Total Pell amount received ⁵					
None	64.70	64.70	59.78	4.92*	4.92*
\$1–\$3,097	11.06	11.06	14.00	-2.94*	-2.94*
\$3,098–\$6,194	13.39	13.39	15.20	-1.81*	-1.81*
\$6,195 or more	10.86	10.86	11.02	-0.16	-0.16
First-time beginner status (sampled)					
Yes	14.50	14.50	14.71	-0.21	-0.21
No	85.50	85.50	85.29	0.21	0.21
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁶					
1–67	35.76	34.88	35.96	-0.20	-1.08*
68–82	28.57	28.26	27.95	0.62	0.31
83–94	21.63	22.45	21.61	0.02	0.84*
95 or more	13.26	13.66	13.61	-0.35	0.05
None or unknown	0.78	0.75	0.87	-0.09	-0.12
Number of full-time, first-time undergraduate students living on campus ⁶					
0–114	6.31	6.37	6.59	-0.28	-0.22
115–274	7.16	7.14	7.38	-0.22	-0.24
275–656	10.87	11.00	10.34	0.53	0.66*
657 or more	31.26	31.09	28.72	2.54*	2.37*
Unknown	44.41	44.40	46.97	-2.56*	-2.57*
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁶					
0–36	7.26	7.11	7.21	0.05	-0.10
37–90	11.81	11.87	12.22	-0.41*	-0.35
91–218	21.03	20.59	21.73	-0.70*	-1.14*
219 or more	57.90	58.38	56.73	1.17*	1.65*
Unknown	2.00	2.05	2.10	-0.10	-0.05
Average amount of grant and scholarship aid received ⁶					
\$0–\$5,000	18.19	18.06	19.07	-0.88*	-1.01*
\$5,001–\$6,090	25.49	25.50	26.00	-0.51	-0.50
\$6,091–\$9,754	30.56	30.75	30.20	0.36	0.55
\$9,755 or more	24.67	24.62	23.47	1.20*	1.15*
Unknown	1.09	1.07	1.26	-0.17*	-0.19*

See notes at end of table.

Table M-75. Undergraduate student-level survey analysis after poststratification for selected variables—all institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Total income from CPS: ²⁰					
-\$1,017,256–\$14,287	12.33	12.33	14.11	-1.78*	-1.78*
\$14,288–\$34,554	14.13	14.13	15.75	-1.62*	-1.62*
\$34,555–\$81,855	15.22	15.22	16.10	-0.88*	-0.88*
\$81,856 or more	16.34	16.34	14.95	1.39*	1.39*
Unknown	0.50	0.50	0.51	-0.01	-0.01
Not matched in CPS:20	41.49	41.49	38.58	2.91*	2.91*
Parents' highest education from CPS:20					
Middle school/junior high	3.16	3.16	3.38	-0.22*	-0.22*
High school	18.72	18.72	20.48	-1.76*	-1.76*
College or beyond	33.07	33.07	33.56	-0.49*	-0.49*
Other/unknown	3.13	3.13	3.50	-0.37*	-0.37*
Missing	0.43	0.43	0.51	-0.08*	-0.08*
Not matched in CPS:20	41.49	41.49	38.58	2.91*	2.91*
Has dependents from CPS:20					
Yes	10.40	10.40	12.34	-1.94*	-1.94*
No	48.11	48.11	49.07	-0.96*	-0.96*
Missing	‡	‡	‡	‡	‡
Not matched in CPS:20	41.49	41.49	38.58	2.91*	2.91*
Student's marital status from CPS:20					
Single	50.44	50.44	52.14	-1.70*	-1.70*
Married/remarried	6.02	6.02	6.86	-0.84*	-0.84*
Separated	0.65	0.65	0.82	-0.17*	-0.17*
Divorced/widowed	1.41	1.41	1.61	-0.20*	-0.20*
Not matched in CPS:20	41.49	41.49	38.58	2.91*	2.91*

Rounds to zero.

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the student base weight adjusted for nonresponse.² Mean is calculated using the student base weight adjusted for nonresponse and poststratification.

³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.

⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

⁵ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

⁶ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

⁷ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations. As part of the expected family contribution (EFC) formula, some calculations include allowances against income or asset amounts that can result in negative numbers.

NOTE: CPS = Central Processing System. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-76. Undergraduate student-level survey analysis after poststratification for selected variables—public less-than-2-year institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis region ³					
New England	‡	‡	‡	‡	‡
Mideast	‡	‡	‡	‡	‡
Great Lakes	18.95	24.09	20.30	-1.35	3.79
Plains	‡	‡	‡	‡	‡
Southeast	‡	‡	‡	‡	‡
Southwest	15.71	14.03	18.35	-2.64	-4.32
Rocky Mountains	25.10	27.75	29.03	-3.93	-1.28
Far West	‡	‡	‡	‡	‡
Outlying Areas	‡	‡	‡	‡	‡
Federal aid status					
Received	48.45	51.95	45.83	2.62	6.12*
Did not receive	50.11	45.90	52.24	-2.13	-6.34*
Missing	1.45	2.15	1.92	-0.47	0.23
Direct Loan status					
Received	21.58	23.35	16.18	5.40*	7.17*
Did not receive	78.42	76.65	83.82	-5.40*	-7.17*
Total Direct Loan amount received ⁴					
None	78.42	76.65	83.82	-5.40*	-7.17*
\$1–\$3,500	‡	‡	‡	‡	‡
\$3,501–\$5,000	‡	‡	‡	‡	‡
\$5,001–\$8,673	‡	‡	‡	‡	‡
\$8,674 or more	‡	‡	‡	‡	‡
Age as of December 31, 2019					
15–23	45.56	46.25	49.25	-3.69*	-3.00
24–29	21.92	23.31	20.97	0.95	2.34
30 or older	32.52	30.44	29.77	2.75	0.67
Unknown	‡	‡	‡	‡	‡
Institution aid status					
Received	7.98	8.41	8.65	-0.67	-0.24
Did not receive	89.51	88.32	87.72	1.79	0.60
Unknown	2.51	3.28	3.62	-1.11	-0.34
State aid status					
Received	‡	‡	‡	‡	‡
Did not receive	94.43	93.96	92.86	1.57	1.10
Unknown	2.51	3.28	3.62	-1.11	-0.34
Received any aid excluding private loans					
Yes	55.85	60.26	54.13	1.72	6.13*
No	43.07	37.81	44.37	-1.30	-6.56*
Unknown	1.09	1.93	1.51	-0.42	0.42
Veteran status					
Yes	‡	‡	‡	‡	‡
No	94.91	95.78	93.71	1.20	2.07

See notes at end of table.

Table M-76. Undergraduate student-level survey analysis after poststratification for selected variables—public less-than-2-year institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race/ethnicity					
American Indian or Alaska Native, not Hispanic or Latino	‡	‡	‡	‡	‡
Asian, not Hispanic or Latino	‡	‡	‡	‡	‡
Black, not Hispanic or Latino	22.29	19.74	12.15	10.14*	7.59
Hispanic or Latino, of any race	12.44	11.90	16.48	-4.04*	-4.58*
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡
White, not Hispanic or Latino	56.38	55.56	61.73	-5.35	-6.17
Two or more races, not Hispanic or Latino	‡	‡	‡	‡	‡
Unknown	0.22	7.85	0.19	0.03	7.66
Gender					
Male	44.81	42.75	48.48	-3.67	-5.73*
Female	54.72	53.67	50.99	3.73	2.68
Unknown	0.47	3.58	0.53	-0.06	3.05
Institution total undergraduate enrollment ⁴					
1–420	54.80	55.12	46.74	8.06*	8.38*
421–1,450	14.72	13.81	17.43	-2.71	-3.62
1,451–3,938	13.74	13.79	17.14	-3.40	-3.35
3,939 or more	16.74	17.27	18.69	-1.95	-1.42
Major					
Undecided	‡	‡	‡	‡	‡
Humanities	‡	‡	‡	‡	‡
Social/behavioral sciences	‡	‡	‡	‡	‡
Life sciences	‡	‡	‡	‡	‡
Physical sciences/mathematics	‡	‡	‡	‡	‡
Computer/information science	4.90	4.91	5.62	-0.72	-0.71
Engineering	4.91	4.32	5.06	-0.15	-0.74
Education	‡	‡	‡	‡	‡
Business/management	3.55	3.54	4.26	-0.71	-0.72
Health	50.57	51.77	44.55	6.02*	7.22*
Vocational/technical	20.63	20.65	23.25	-2.62	-2.60
Other technical/professional	13.43	12.06	15.37	-1.94	-3.31*
Unknown	0.08	1.40	0.08	#	1.32
Degree program (undergraduate only)					
Certificate	99.97	98.19	99.96	0.01	-1.77
Associate's degree	‡	‡	‡	‡	‡
Bachelor's degree	‡	‡	‡	‡	‡
Not in a degree program or others	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Pell Grant status					
Received	31.43	32.86	29.14	2.29	3.72
Did not receive	68.57	67.14	70.86	-2.29	-3.72

See notes at end of table.

Table M-76. Undergraduate student-level survey analysis after poststratification for selected variables—public less-than-2-year institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Total Pell amount received ⁵					
None	68.57	67.14	70.86	-2.29	-3.72
\$1–\$2,587	9.34	10.34	8.23	1.11*	2.11
\$2,588–\$6,194	13.15	13.14	12.76	0.39	0.38
\$6,195 or more	‡	‡	‡	‡	‡
First-time beginner status (sampled)					
Yes	22.75	23.15	22.61	0.14	0.54
No	77.25	76.85	77.39	-0.14	-0.54
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁶					
1–46	54.41	50.37	48.88	5.53	1.49
47–65	21.76	23.46	24.59	-2.83	-1.13
66–83	5.49	5.30	5.96	-0.47	-0.66
84 or more	18.24	20.49	20.46	-2.22	0.03
None or unknown	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁶					
1–10	‡	‡	‡	‡	‡
11 or more	10.05	11.19	11.91	-1.86	-0.72
Unknown	87.89	87.63	86.00	1.89	1.63
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁶					
0–3	50.73	48.08	44.36	6.37	3.72
4–11	‡	‡	‡	‡	‡
12–21	21.64	22.16	26.04	-4.40*	-3.88
22 or more	8.56	11.44	9.83	-1.27	1.61
Unknown	15.22	15.77	15.89	-0.67	-0.12
Average amount of grant and scholarship aid received ⁶					
\$0–\$3,048	41.27	37.29	33.78	7.49	3.51
\$3,049–\$3,955	6.00	5.99	7.48	-1.48	-1.49
\$3,956–\$5,239	19.23	19.94	21.41	-2.18	-1.47
\$5,240 or more	10.84	12.54	12.81	-1.97	-0.27
Unknown	22.66	24.23	24.52	-1.86	-0.29
Total income from CPS:20 ⁷					
-\$2,400–\$13,650	8.92	9.50	8.03	0.89*	1.47
\$13,651–\$33,695	16.36	14.40	14.17	2.19*	0.23
\$33,696–\$69,610	14.80	14.92	14.52	0.28	0.40
\$69,611 or more	9.68	11.61	8.73	0.95	2.88*
Unknown	‡	‡	‡	‡	‡
Not matched in CPS:20	49.76	48.74	53.85	-4.09*	-5.11

See notes at end of table.

Table M-76. Undergraduate student-level survey analysis after poststratification for selected variables—public less-than-2-year institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Parents' highest education from CPS:20					
Middle school/junior high	‡	‡	‡	‡	‡
High school	18.82	19.04	17.41	1.41*	1.63
College or beyond	21.83	22.39	21.58	0.25	0.81
Other/unknown	‡	‡	‡	‡	‡
Missing	‡	‡	‡	‡	‡
Not matched in CPS:20	49.76	48.74	53.85	-4.09*	-5.11
Has dependents from CPS:20					
Yes	16.34	17.73	13.66	2.68*	4.07*
No	33.90	33.53	32.49	1.41	1.04
Missing	‡	‡	‡	‡	‡
Not matched in CPS:20	49.76	48.74	53.85	-4.09*	-5.11
Student's marital status from CPS:20					
Single	38.29	40.69	36.19	2.10	4.50
Married/remarried	‡	‡	‡	‡	‡
Separated	‡	‡	‡	‡	‡
Divorced/widowed	‡	‡	‡	‡	‡
Not matched in CPS:20	49.76	48.74	53.85	-4.09*	-5.11

Rounds to zero.

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the student base weight adjusted for nonresponse.² Mean is calculated using the student base weight adjusted for nonresponse and poststratification.³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁵ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁷ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations. As part of the expected family contribution (EFC) formula, some calculations include allowances against income or asset amounts that can result in negative numbers.

NOTE: CPS = Central Processing System. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-77. Undergraduate student-level survey analysis after poststratification for selected variables—public 2-year institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis region ³					
New England	4.04	3.95	4.05	-0.01	-0.10
Mideast	13.15	12.75	12.62	0.53	0.13
Great Lakes	14.34	14.51	15.25	-0.91*	-0.74
Plains	6.54	6.63	6.56	-0.02	0.07
Southeast	19.63	19.16	20.36	-0.73*	-1.20*
Southwest	15.64	15.32	15.86	-0.22	-0.54
Rocky Mountains	1.01	1.05	1.04	-0.03	0.01
Far West	25.66	26.61	24.25	1.41*	2.36*
Outlying Areas	‡	‡	‡	‡	‡
Federal aid status					
Received	43.66	43.75	42.94	0.72*	0.81
Did not receive	39.50	39.09	42.64	-3.14*	-3.55*
Missing	16.84	17.16	14.42	2.42*	2.74*
Direct Loan status					
Received	14.29	14.44	12.24	2.05*	2.20*
Did not receive	85.71	85.56	87.76	-2.05*	-2.20*
Total Direct Loan amount received ⁴					
None	85.71	85.56	87.76	-2.05*	-2.20*
\$1–\$3,250	3.61	3.71	3.88	-0.27*	-0.17
\$3,251–\$5,500	5.37	5.41	4.60	0.77*	0.81*
\$5,501–\$6,999	1.40	1.43	1.09	0.31*	0.34*
\$7,000 or more	3.91	3.88	2.67	1.24*	1.21*
Age as of December 31, 2019					
15–23	54.42	54.69	52.46	1.96*	2.23*
24–29	19.94	19.20	20.75	-0.81*	-1.55*
30 or older	25.64	25.93	26.79	-1.15*	-0.86*
Unknown	‡	‡	‡	‡	‡
Institution aid status					
Received	7.62	7.68	7.40	0.22	0.28
Did not receive	67.54	67.28	71.19	-3.65*	-3.91*
Unknown	24.85	25.05	21.42	3.43*	3.63*
State aid status					
Received	17.01	17.52	16.82	0.19	0.70*
Did not receive	56.47	55.82	59.99	-3.52*	-4.17*
Unknown	26.52	26.66	23.19	3.33*	3.47*
Received any aid excluding private loans					
Yes	53.80	54.14	53.39	0.41	0.75
No	30.21	29.50	33.13	-2.92*	-3.63*
Unknown	15.99	16.36	13.48	2.51*	2.88*
Veteran status					
Yes	3.96	4.01	4.20	-0.24*	-0.19
No	96.04	95.99	95.80	0.24*	0.19

See notes at end of table.

Table M-77. Undergraduate student-level survey analysis after poststratification for selected variables—public 2-year institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race/ethnicity					
American Indian or Alaska Native, not Hispanic or Latino	1.37	0.72	1.13	0.24*	-0.41*
Asian, not Hispanic or Latino	6.35	6.27	5.94	0.41*	0.33*
Black, not Hispanic or Latino	12.92	12.83	13.16	-0.24	-0.33
Hispanic or Latino, of any race	23.60	23.94	24.81	-1.21*	-0.87*
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	0.97	0.39	0.69	0.28*	-0.30*
White, not Hispanic or Latino	40.05	40.82	43.96	-3.91*	-3.14*
Two or more races, not Hispanic or Latino	10.66	3.55	7.60	3.06*	-4.05*
Unknown	4.08	11.48	2.70	1.38*	8.78*
Gender					
Male	41.28	41.58	40.63	0.65*	0.95*
Female	56.93	55.46	57.81	-0.88*	-2.35*
Unknown	1.79	2.96	1.57	0.22*	1.39*
Institution total undergraduate enrollment ⁴					
1–6,046	15.64	16.08	16.11	-0.47*	-0.03
6,047–12,199	24.38	23.52	24.30	0.08	-0.78
12,200–22,861	25.77	26.34	25.76	0.01	0.58
22,862 or more	34.21	34.06	33.83	0.38	0.23
Major					
Undecided	1.04	0.99	0.93	0.11	0.06
Humanities	19.59	23.21	19.47	0.12	3.74*
Social/behavioral sciences	5.12	4.01	4.98	0.14	-0.97*
Life sciences	5.80	5.13	5.78	0.02	-0.65*
Physical sciences/mathematics	0.92	0.84	0.86	0.06	-0.02
Computer/information science	5.73	4.38	5.79	-0.06	-1.41*
Engineering	4.97	4.11	4.93	0.04	-0.82*
Education	4.78	3.59	4.98	-0.20*	-1.39*
Business/management	12.61	11.54	12.81	-0.20	-1.27*
Health	21.46	17.77	21.78	-0.32	-4.01*
Vocational/technical	4.32	5.17	4.44	-0.12	0.73*
Other technical/professional	11.91	10.65	11.82	0.09	-1.17*
Unknown	1.76	8.61	1.44	0.32	7.17*
Degree program (undergraduate only)					
Certificate	8.71	9.07	9.33	-0.62*	-0.26
Associate's degree	86.11	76.34	85.71	0.40	-9.37*
Bachelor's degree	‡	‡	‡	‡	‡
Not in a degree program or others	5.18	5.92	4.96	0.22	0.96*
Unknown	‡	‡	‡	‡	‡
Pell Grant status					
Received	35.99	35.86	36.27	-0.28	-0.41
Did not receive	64.01	64.14	63.73	0.28	0.41

See notes at end of table.

Table M-77. Undergraduate student-level survey analysis after poststratification for selected variables—public 2-year institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Total Pell amount received ⁵					
None	64.01	64.14	63.73	0.28	0.41
\$1–\$3,097	13.76	13.74	16.00	-2.24*	-2.26*
\$3,098–\$6,194	14.14	14.20	13.64	0.50*	0.56*
\$6,195 or more	8.08	7.91	6.64	1.44*	1.27*
First-time beginner status (sampled)					
Yes	14.32	14.47	14.33	-0.01	0.14
No	85.68	85.53	85.67	0.01	-0.14
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁶					
1–64	40.00	38.70	40.14	-0.14	-1.44*
65–76	27.93	27.40	27.27	0.66	0.13
77–87	20.86	22.01	20.96	-0.10	1.05
88 or more	11.19	11.88	11.62	-0.43	0.26
None or unknown	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁶					
0–39	3.27	3.31	3.31	-0.04	#
40–70	3.36	3.36	3.43	-0.07	-0.07
71–127	2.61	2.88	2.68	-0.07	0.20
128 or more	4.83	5.04	4.64	0.19	0.40
Unknown	85.94	85.42	85.94	#	-0.52
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁶					
0–52	4.51	5.31	4.80	-0.29*	0.51
53–116	14.50	14.58	14.90	-0.40	-0.32
117–242	25.06	23.77	24.99	0.07	-1.22*
243 or more	55.13	55.51	54.54	0.59	0.97
Unknown	0.80	0.83	0.77	0.03	0.06
Average amount of grant and scholarship aid received ⁶					
\$0–\$4,692	19.40	19.71	19.14	0.26	0.57
\$4,693–\$5,283	31.06	29.77	30.87	0.19	-1.10
\$5,284–\$5,932	28.34	28.49	28.27	0.07	0.22
\$5,933 or more	21.17	22.01	21.69	-0.52	0.32
Unknown	‡	‡	‡	‡	‡
Total income from CPS:20 ⁷					
–\$300,000–\$13,191	13.14	13.19	13.86	-0.72*	-0.67*
\$13,192–\$30,269	13.91	13.60	14.25	-0.34*	-0.65*
\$30,270–\$64,287	13.20	13.40	13.38	-0.18	0.02
\$64,288 or more	12.02	11.75	11.39	0.63*	0.36
Unknown	0.79	0.82	0.82	-0.03	#
Not matched in CPS:20	46.95	47.25	46.30	0.65*	0.95*

See notes at end of table.

Table M-77. Undergraduate student-level survey analysis after poststratification for selected variables—public 2-year institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Parents' highest education from CPS:20					
Middle school/junior high	3.92	3.81	3.99	-0.07	-0.18
High school	19.68	19.78	20.41	-0.73*	-0.63*
College or beyond	24.70	24.38	24.36	0.34	0.02
Other/unknown	4.21	4.26	4.36	-0.15	-0.10
Missing	0.54	0.52	0.58	-0.04	-0.06
Not matched in CPS:20	46.95	47.25	46.30	0.65*	0.95*
Has dependents from CPS:20					
Yes	13.38	13.00	14.41	-1.03*	-1.41*
No	39.67	39.74	39.29	0.38	0.45
Missing	‡	‡	‡	‡	‡
Not matched in CPS:20	46.95	47.25	46.30	0.65*	0.95*
Student's marital status from CPS:20					
Single	43.60	43.52	43.48	0.12	0.04
Married/remarried	6.96	6.74	7.42	-0.46*	-0.68*
Separated	0.86	0.87	1.00	-0.14*	-0.13*
Divorced/widowed	1.64	1.63	1.80	-0.16*	-0.17
Not matched in CPS:20	46.95	47.25	46.30	0.65*	0.95*

Rounds to zero.

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the student base weight adjusted for nonresponse.² Mean is calculated using the student base weight adjusted for nonresponse and poststratification.³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁵ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁷ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations. As part of the expected family contribution (EFC) formula, some calculations include allowances against income or asset amounts that can result in negative numbers.

NOTE: CPS = Central Processing System. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-78. Undergraduate student-level survey analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis region ³					
New England	‡	‡	‡	‡	‡
Mideast	4.09	3.99	3.79	0.30	0.20
Great Lakes	9.00	9.12	8.48	0.52*	0.64
Plains	‡	‡	‡	‡	‡
Southeast	36.34	35.83	36.08	0.26	-0.25
Southwest	11.24	11.85	11.70	-0.46	0.15
Rocky Mountains	9.27	8.27	9.02	0.25	-0.75
Far West	29.55	30.52	30.46	-0.91	0.06
Outlying Areas	‡	‡	‡	‡	‡
Federal aid status					
Received	45.86	45.61	42.83	3.03*	2.78*
Did not receive	46.42	47.32	50.09	-3.67*	-2.77*
Missing	7.72	7.07	7.09	0.63	-0.02
Direct Loan status					
Received	16.32	15.95	13.07	3.25*	2.88*
Did not receive	83.68	84.05	86.93	-3.25*	-2.88*
Total Direct Loan amount received ⁴					
None	83.68	84.05	86.93	-3.25*	-2.88*
\$1–\$3,334	3.53	3.71	3.71	-0.18	#
\$3,335–\$5,500	6.61	6.22	5.25	1.36*	0.97*
\$5,501–\$6,500	1.54	1.54	1.08	0.46*	0.46*
\$6,501 or more	4.64	4.49	3.03	1.61*	1.46*
Age as of December 31, 2019					
15–23	56.95	56.27	55.88	1.07*	0.39
24–29	19.98	20.52	21.14	-1.16*	-0.62
30 or older	23.06	23.19	22.98	0.08	0.21
Unknown	‡	‡	‡	‡	‡
Institution aid status					
Received	7.96	8.04	7.45	0.51*	0.59
Did not receive	82.14	82.52	83.60	-1.46*	-1.08
Unknown	9.91	9.44	8.95	0.96	0.49
State aid status					
Received	19.44	19.80	18.11	1.33*	1.69*
Did not receive	70.78	71.11	73.06	-2.28*	-1.95*
Unknown	9.78	9.09	8.82	0.96	0.27
Received any aid excluding private loans					
Yes	56.45	55.67	53.94	2.51*	1.73
No	36.24	37.49	39.46	-3.22*	-1.97
Unknown	7.31	6.84	6.60	0.71	0.24
Veteran status					
Yes	4.46	4.54	4.18	0.28	0.36
No	95.54	95.46	95.82	-0.28	-0.36

See notes at end of table.

Table M-78. Undergraduate student-level survey analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race/ethnicity					
American Indian or Alaska Native, not Hispanic or Latino	1.62	1.18	1.57	0.05	-0.39
Asian, not Hispanic or Latino	5.26	5.60	5.97	-0.71*	-0.37
Black, not Hispanic or Latino	12.65	13.07	11.63	1.02*	1.44*
Hispanic or Latino, of any race	29.18	29.82	29.95	-0.77*	-0.13
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡
White, not Hispanic or Latino	40.92	40.93	40.67	0.25	0.26
Two or more races, not Hispanic or Latino	7.88	3.52	8.20	-0.32	-4.68*
Unknown	1.92	5.52	1.42	0.50	4.10*
Gender					
Male	42.16	41.74	41.62	0.54	0.12
Female	56.68	56.41	57.28	-0.60	-0.87
Unknown	1.16	1.85	1.11	0.05	0.74
Institution total undergraduate enrollment ⁴					
1–7,698	15.38	15.80	14.83	0.55	0.97
7,699–18,147	24.57	24.90	24.74	-0.17	0.16
18,148–39,036	31.54	30.31	31.05	0.49	-0.74
39,037 or more	28.51	29.00	29.38	-0.87	-0.38
Major					
Undecided	2.05	1.38	1.87	0.18	-0.49*
Humanities	17.41	23.97	17.47	-0.06	6.50*
Social/behavioral sciences	5.53	4.20	5.53	#	-1.33*
Life sciences	6.14	5.03	6.04	0.10	-1.01*
Physical sciences/mathematics	‡	‡	‡	‡	‡
Computer/information science	5.38	4.52	5.36	0.02	-0.84*
Engineering	5.39	4.10	5.46	-0.07	-1.36*
Education	4.73	3.76	4.63	0.10	-0.87*
Business/management	14.05	12.92	13.56	0.49	-0.64
Health	21.53	19.00	21.61	-0.08	-2.61*
Vocational/technical	3.24	3.42	3.41	-0.17	0.01
Other technical/professional	11.91	11.51	12.25	-0.34	-0.74
Unknown	1.79	5.46	1.94	-0.15	3.52*
Degree program (undergraduate only)					
Certificate	4.19	6.84	4.65	-0.46*	2.19*
Associate's degree	72.48	70.43	72.79	-0.31	-2.36*
Bachelor's degree	20.89	16.31	19.93	0.96*	-3.62*
Not in a degree program or others	2.44	3.51	2.63	-0.19	0.88
Unknown	‡	‡	‡	‡	‡
Pell Grant status					
Received	37.08	37.06	35.13	1.95*	1.93*
Did not receive	62.92	62.94	64.87	-1.95*	-1.93*

See notes at end of table.

Table M-78. Undergraduate student-level survey analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Total Pell amount received ⁵					
None	62.92	62.94	64.87	-1.95*	-1.93*
\$1–\$3,097	13.12	14.24	14.46	-1.34*	-0.22
\$3,098–\$6,194	15.71	14.94	14.27	1.44*	0.67
\$6,195 or more	8.24	7.88	6.40	1.84*	1.48*
First-time beginner status (sampled)					
Yes	15.43	15.60	15.53	-0.10	0.07
No	84.57	84.40	84.47	0.10	-0.07
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁶					
1–59	36.52	36.03	36.92	-0.40	-0.89
60–71	26.45	26.72	26.65	-0.20	0.07
72–83	23.13	22.47	22.87	0.26	-0.40
84 or more	13.88	14.76	13.53	0.35	1.23
None or unknown	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁶					
0–21	9.78	8.84	10.19	-0.41	-1.35
22–75	4.22	5.11	4.29	-0.07	0.82
76–215	5.14	5.13	4.69	0.45*	0.44
216 or more	5.80	5.81	5.31	0.49*	0.50
Unknown	75.06	75.12	75.52	-0.46	-0.40
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁶					
0–71	4.69	4.75	4.00	0.69	0.75*
72–132	11.63	12.66	12.21	-0.58	0.45
133–347	24.10	23.22	23.46	0.64	-0.24
348 or more	59.52	59.31	60.29	-0.77	-0.98
Unknown	‡	‡	‡	‡	‡
Average amount of grant and scholarship aid received ⁶					
\$0–\$4,914	19.30	21.12	20.12	-0.82*	1.00
\$4,915–\$5,564	22.46	23.20	22.61	-0.15	0.59
\$5,565–\$6,239	29.33	28.85	28.12	1.21*	0.73
\$6,240 or more	28.90	26.82	29.13	-0.23	-2.31*
Unknown	‡	‡	‡	‡	‡
Total income from CPS:20 ⁷					
-\$67,447–\$14,566	15.15	14.54	14.89	0.26	-0.35
\$14,567–\$31,819	15.83	15.99	15.56	0.27	0.43
\$31,820–\$66,718	14.00	14.11	13.98	0.02	0.13
\$66,719 or more	11.62	11.24	10.96	0.66*	0.28
Unknown	0.95	0.77	1.00	-0.05	-0.23
Not matched in CPS:20	42.46	43.35	43.61	-1.15*	-0.26

See notes at end of table.

Table M-78. Undergraduate student-level survey analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Parents' highest education from CPS:20					
Middle school/junior high	4.30	4.41	4.19	0.11	0.22
High school	21.42	20.84	21.11	0.31	-0.27
College or beyond	27.65	27.11	26.80	0.85*	0.31
Other/unknown	3.86	3.95	3.98	-0.12	-0.03
Missing	‡	‡	‡	‡	‡
Not matched in CPS:20	42.46	43.35	43.61	-1.15*	-0.26
Has dependents from CPS:20					
Yes	12.50	12.66	12.79	-0.29	-0.13
No	45.04	44.00	43.61	1.43*	0.39
Missing	‡	‡	‡	‡	‡
Not matched in CPS:20	42.46	43.35	43.61	-1.15*	-0.26
Student's marital status from CPS:20					
Single	48.35	47.63	47.10	1.25*	0.53
Married/remarried	6.47	6.50	6.53	-0.06	-0.03
Separated	‡	‡	‡	‡	‡
Divorced/widowed	1.81	1.74	1.92	-0.11	-0.18
Not matched in CPS:20	42.46	43.35	43.61	-1.15*	-0.26

Rounds to zero.

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the student base weight adjusted for nonresponse.² Mean is calculated using the student base weight adjusted for nonresponse and poststratification.³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁵ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁷ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations. As part of the expected family contribution (EFC) formula, some calculations include allowances against income or asset amounts that can result in negative numbers.

NOTE: CPS = Central Processing System. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-79. Undergraduate student-level survey analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis region ³					
New England	7.72	8.24	7.82	-0.10	0.42
Mideast	20.89	21.54	20.89	#	0.65
Great Lakes	6.50	6.59	6.65	-0.15	-0.06
Plains	6.34	6.76	6.20	0.14	0.56*
Southeast	20.45	20.40	20.07	0.38	0.33
Southwest	6.98	6.94	7.26	-0.28	-0.32
Rocky Mountains	11.40	11.74	12.11	-0.71	-0.37
Far West	17.61	15.74	16.88	0.73*	-1.14
Outlying Areas	2.11	2.06	2.13	-0.02	-0.07
Federal aid status					
Received	59.64	61.21	63.86	-4.22*	-2.65*
Did not receive	32.54	31.42	29.44	3.10*	1.98*
Missing	7.83	7.37	6.70	1.13*	0.67
Direct Loan status					
Received	39.07	40.14	42.81	-3.74*	-2.67*
Did not receive	60.93	59.86	57.19	3.74*	2.67*
Total Direct Loan amount received ⁴					
None	60.93	59.86	57.19	3.74*	2.67*
\$1–\$4,750	10.11	10.22	11.13	-1.02*	-0.91*
\$4,751–\$5,500	9.12	9.30	9.90	-0.78*	-0.60
\$5,501–\$7,500	11.88	12.88	12.92	-1.04*	-0.04
\$7,501 or more	7.95	7.74	8.85	-0.90*	-1.11*
Age as of December 31, 2019					
15–23	71.51	71.52	69.45	2.06*	2.07*
24–29	14.62	14.79	15.48	-0.86*	-0.69
30 or older	13.87	13.68	15.07	-1.20*	-1.39*
Unknown	‡	‡	‡	‡	‡
Institution aid status					
Received	29.11	28.89	27.89	1.22*	1.00
Did not receive	56.36	56.42	58.25	-1.89*	-1.83*
Unknown	14.53	14.69	13.87	0.66*	0.82
State aid status					
Received	27.31	27.14	27.48	-0.17	-0.34
Did not receive	57.67	57.66	58.15	-0.48	-0.49
Unknown	15.02	15.20	14.37	0.65*	0.83
Received any aid excluding private loans					
Yes	74.73	75.40	76.90	-2.17*	-1.50*
No	18.53	18.25	17.46	1.07*	0.79
Unknown	6.73	6.35	5.64	1.09*	0.71
Veteran status					
Yes	2.89	3.02	3.14	-0.25*	-0.12
No	97.11	96.98	96.86	0.25*	0.12

See notes at end of table.

Table M-79. Undergraduate student-level survey analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race/ethnicity					
American Indian or Alaska Native, not Hispanic or Latino	2.00	1.07	2.00	#	-0.93*
Asian, not Hispanic or Latino	6.25	6.42	5.92	0.33*	0.50*
Black, not Hispanic or Latino	11.71	12.31	11.98	-0.27	0.33
Hispanic or Latino, of any race	17.94	18.26	19.32	-1.38*	-1.06*
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡
White, not Hispanic or Latino	52.37	52.68	52.28	0.09	0.40
Two or more races, not Hispanic or Latino	7.75	3.99	6.86	0.89*	-2.87*
Unknown	1.66	5.04	1.36	0.30	3.68*
Gender					
Male	42.14	43.46	42.09	0.05	1.37
Female	55.84	55.18	56.07	-0.23	-0.89
Unknown	‡	‡	‡	‡	‡
Institution total undergraduate enrollment ⁴					
1–3,630	17.31	17.20	17.41	-0.10	-0.21
3,631–6,732	24.49	24.85	24.07	0.42	0.78
6,733–13,137	28.98	28.81	28.98	#	-0.17
13,138 or more	29.23	29.13	29.54	-0.31	-0.41
Major					
Undecided	0.92	1.26	0.99	-0.07	0.27
Humanities	10.86	12.94	11.00	-0.14	1.94*
Social/behavioral sciences	11.52	10.98	11.67	-0.15	-0.69*
Life sciences	12.80	11.74	12.37	0.43*	-0.63*
Physical sciences/mathematics	2.55	2.04	2.53	0.02	-0.49*
Computer/information science	6.03	5.50	5.77	0.26*	-0.27
Engineering	5.60	5.17	5.53	0.07	-0.36
Education	8.41	8.09	8.27	0.14	-0.18
Business/management	16.78	16.50	16.71	0.07	-0.21
Health	9.71	9.13	9.62	0.09	-0.49*
Vocational/technical	1.73	1.79	1.79	-0.06	#
Other technical/professional	12.78	12.31	13.41	-0.63*	-1.10*
Unknown	0.33	2.55	0.32	0.01	2.23*
Degree program (undergraduate only)					
Certificate	0.70	0.68	0.69	0.01	-0.01
Associate's degree	3.38	4.11	3.61	-0.23	0.50
Bachelor's degree	95.17	91.37	94.91	0.26	-3.54*
Not in a degree program or others	0.75	1.48	0.78	-0.03	0.70*
Unknown	‡	‡	‡	‡	‡
Pell Grant status					
Received	39.70	40.49	43.55	-3.85*	-3.06*
Did not receive	60.30	59.51	56.45	3.85*	3.06*

See notes at end of table.

Table M-79. Undergraduate student-level survey analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Total Pell amount received ⁵					
None	60.30	59.51	56.45	3.85*	3.06*
\$1–\$3,097	9.78	10.05	12.25	-2.47*	-2.20*
\$3,098–\$6,194	14.48	14.73	15.90	-1.42*	-1.17*
\$6,195 or more	15.45	15.72	15.39	0.06	0.33
First-time beginner status (sampled)					
Yes	14.25	14.38	14.42	-0.17	-0.04
No	85.75	85.62	85.58	0.17	0.04
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁶					
1–72	30.35	29.37	30.18	0.17	-0.81
73–85	32.64	32.97	32.06	0.58	0.91
86–92	20.04	20.12	20.26	-0.22	-0.14
93 or more	13.48	14.04	13.73	-0.25	0.31
None or unknown	3.49	3.50	3.78	-0.29	-0.28
Number of full-time, first-time undergraduate students living on campus ⁶					
0–138	12.31	12.55	12.17	0.14	0.38
139–241	12.68	12.07	12.50	0.18	-0.43
242–550	16.17	17.13	16.09	0.08	1.04*
551 or more	36.13	34.82	35.47	0.66	-0.65
Unknown	22.71	23.43	23.77	-1.06*	-0.34
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁶					
0–56	12.65	12.14	12.62	0.03	-0.48
57–111	12.34	12.27	12.36	-0.02	-0.09
112–219	22.72	22.96	22.40	0.32	0.56
220 or more	49.73	50.07	50.07	-0.34	#
Unknown	2.55	2.57	2.54	0.01	0.03
Average amount of grant and scholarship aid received ⁶					
\$0–\$6,185	27.53	27.03	27.76	-0.23	-0.73
\$6,186–\$7,466	26.35	26.24	25.87	0.48	0.37
\$7,467–\$8,904	15.80	16.04	16.08	-0.28	-0.04
\$8,905 or more	26.78	27.15	26.45	0.33	0.70
Unknown	3.54	3.54	3.85	-0.31	-0.31
Total income from CPS:20 ⁷					
–\$8,000–\$20,104	18.21	18.19	19.78	-1.57*	-1.59*
\$20,105–\$48,126	17.74	18.31	19.21	-1.47*	-0.90
\$48,127–\$104,121	16.36	16.89	16.55	-0.19	0.34
\$104,122 or more	14.77	15.04	13.97	0.80*	1.07*
Unknown	‡	‡	‡	‡	‡
Not matched in CPS:20	32.52	31.19	30.13	2.39*	1.06

See notes at end of table.

Table M-79. Undergraduate student-level survey analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Parents' highest education from CPS:20					
Middle school/junior high	2.98	2.89	3.28	-0.30*	-0.39*
High school	20.90	20.83	21.76	-0.86*	-0.93*
College or beyond	40.08	41.63	41.25	-1.17*	0.38
Other/unknown	3.32	3.15	3.40	-0.08	-0.25
Missing	‡	‡	‡	‡	‡
Not matched in CPS:20	32.52	31.19	30.13	2.39*	1.06
Has dependents from CPS:20					
Yes	7.71	7.67	8.96	-1.25*	-1.29*
No	59.77	61.13	60.91	-1.14*	0.22
Missing	‡	‡	‡	‡	‡
Not matched in CPS:20	32.52	31.19	30.13	2.39*	1.06
Student's marital status from CPS:20					
Single	60.01	61.27	61.31	-1.30*	-0.04
Married/remarried	5.67	5.71	6.48	-0.81*	-0.77
Separated	‡	‡	‡	‡	‡
Divorced/widowed	‡	‡	‡	‡	‡
Not matched in CPS:20	32.52	31.19	30.13	2.39*	1.06

Rounds to zero.

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the student base weight adjusted for nonresponse.² Mean is calculated using the student base weight adjusted for nonresponse and poststratification.³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁵ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁷ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations. As part of the expected family contribution (EFC) formula, some calculations include allowances against income or asset amounts that can result in negative numbers.

NOTE: CPS = Central Processing System. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-80. Undergraduate student-level survey analysis after poststratification for selected variables—public 4-year, doctorate-granting institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis region ³					
New England	2.47	2.56	2.62	-0.15*	-0.06
Mideast	13.34	13.75	13.51	-0.17	0.24
Great Lakes	14.99	14.66	15.16	-0.17	-0.50
Plains	7.69	7.59	7.80	-0.11	-0.21
Southeast	28.90	29.51	28.65	0.25	0.86*
Southwest	12.46	12.48	12.64	-0.18	-0.16
Rocky Mountains	4.33	4.51	4.36	-0.03	0.15
Far West	15.20	14.41	14.72	0.48*	-0.31
Outlying Areas	0.62	0.52	0.55	0.07	-0.03
Federal aid status					
Received	55.13	54.47	62.42	-7.29*	-7.95*
Did not receive	40.72	41.45	34.48	6.24*	6.97*
Missing	4.15	4.09	3.10	1.05*	0.99*
Direct Loan status					
Received	39.07	38.72	45.84	-6.77*	-7.12*
Did not receive	60.93	61.28	54.16	6.77*	7.12*
Total Direct Loan amount received ⁴					
None	60.93	61.28	54.16	6.77*	7.12*
\$1–\$5,250	9.42	9.26	11.26	-1.84*	-2.00*
\$5,251–\$5,500	8.68	8.39	9.78	-1.10*	-1.39*
\$5,501–\$7,500	14.44	14.43	16.43	-1.99*	-2.00*
\$7,501 or more	6.52	6.65	8.37	-1.85*	-1.72*
Age as of December 31, 2019					
15–23	79.11	79.17	76.80	2.31*	2.37*
24–29	12.15	12.13	13.47	-1.32*	-1.34*
30 or older	8.74	8.67	9.73	-0.99*	-1.06*
Unknown	‡	‡	‡	‡	‡
Institution aid status					
Received	38.37	38.31	39.26	-0.89*	-0.95*
Did not receive	54.59	54.84	54.09	0.50	0.75
Unknown	7.04	6.86	6.65	0.39	0.21
State aid status					
Received	27.35	26.91	28.71	-1.36*	-1.80*
Did not receive	65.63	66.36	64.75	0.88*	1.61*
Unknown	7.02	6.73	6.54	0.48	0.19
Received any aid excluding private loans					
Yes	74.55	74.12	78.37	-3.82*	-4.25*
No	22.17	22.70	19.27	2.90*	3.43*
Unknown	3.28	3.19	2.35	0.93*	0.84*
Veteran status					
Yes	2.43	2.42	2.47	-0.04	-0.05
No	97.57	97.58	97.53	0.04	0.05

See notes at end of table.

Table M-80. Undergraduate student-level survey analysis after poststratification for selected variables—public 4-year, doctorate-granting institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race/ethnicity					
American Indian or Alaska Native, not Hispanic or Latino	0.43	0.29	0.45	-0.02	-0.16*
Asian, not Hispanic or Latino	9.90	9.83	10.82	-0.92*	-0.99*
Black, not Hispanic or Latino	11.35	11.28	10.84	0.51*	0.44*
Hispanic or Latino, of any race	17.54	17.47	17.35	0.19	0.12
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡
White, not Hispanic or Latino	52.11	52.44	51.96	0.15	0.48
Two or more races, not Hispanic or Latino	7.09	4.49	7.51	-0.42*	-3.02*
Unknown	1.06	3.96	0.61	0.45	3.35*
Gender					
Male	46.28	45.57	45.00	1.28*	0.57
Female	52.40	53.31	53.73	-1.33*	-0.42
Unknown	1.32	1.12	1.26	0.06	-0.14
Institution total undergraduate enrollment ⁴					
1–12,463	20.23	20.22	20.81	-0.58*	-0.59
12,464–21,818	25.75	25.44	26.16	-0.41	-0.72
21,819–29,870	22.64	22.72	22.48	0.16	0.24
29,871 or more	31.38	31.62	30.55	0.83*	1.07*
Major					
Undecided	0.89	1.58	0.88	0.01	0.70*
Humanities	8.90	9.86	9.24	-0.34*	0.62
Social/behavioral sciences	11.77	11.52	11.78	-0.01	-0.26
Life sciences	15.21	14.77	15.27	-0.06	-0.50*
Physical sciences/mathematics	2.83	2.79	2.74	0.09*	0.05
Computer/information science	5.96	5.54	5.84	0.12	-0.30
Engineering	10.91	9.72	10.15	0.76*	-0.43*
Education	5.04	4.73	5.28	-0.24*	-0.55*
Business/management	15.91	16.45	15.86	0.05	0.59
Health	9.53	9.38	9.89	-0.36*	-0.51*
Vocational/technical	0.95	0.94	0.92	0.03	0.02
Other technical/professional	11.90	11.74	11.94	-0.04	-0.20
Unknown	0.21	0.98	0.20	0.01	0.78*
Degree program (undergraduate only)					
Certificate	0.35	0.76	0.39	-0.04	0.37
Associate's degree	1.17	1.50	1.33	-0.16*	0.17
Bachelor's degree	97.89	95.56	97.73	0.16*	-2.17*
Not in a degree program or others	0.58	1.31	0.55	0.03	0.76*
Unknown	‡	‡	‡	‡	‡
Pell Grant status					
Received	32.56	32.12	39.49	-6.93*	-7.37*
Did not receive	67.44	67.88	60.51	6.93*	7.37*

See notes at end of table.

Table M-80. Undergraduate student-level survey analysis after poststratification for selected variables—public 4-year, doctorate-granting institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Total Pell amount received ⁵					
None	67.44	67.88	60.51	6.93*	7.37*
\$1–\$3,344	10.15	9.81	13.54	-3.39*	-3.73*
\$3,345–\$6,194	9.88	9.75	11.89	-2.01*	-2.14*
\$6,195 or more	12.52	12.56	14.06	-1.54*	-1.50*
First-time beginner status (sampled)					
Yes	14.33	14.23	14.43	-0.10	-0.20
No	85.67	85.77	85.57	0.10	0.20
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁶					
1–69	31.88	31.13	31.03	0.85*	0.10
70–81	24.26	23.84	24.42	-0.16	-0.58
82–90	27.22	27.80	27.40	-0.18	0.40
91 or more	15.79	16.41	16.16	-0.37*	0.25
None or unknown	0.85	0.81	0.99	-0.14	-0.18
Number of full-time, first-time undergraduate students living on campus ⁶					
0–465	10.61	10.78	10.88	-0.27*	-0.10
466–900	15.88	15.68	16.27	-0.39	-0.59
901–1,551	26.33	25.42	26.37	-0.04	-0.95*
1,552 or more	41.89	42.83	40.90	0.99*	1.93*
Unknown	5.29	5.28	5.58	-0.29	-0.30
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁶					
0–181	11.30	10.92	11.41	-0.11	-0.49
182–330	20.88	20.19	21.01	-0.13	-0.82*
331–508	26.49	27.26	26.68	-0.19	0.58
509 or more	38.37	38.54	37.69	0.68	0.85
Unknown	2.96	3.09	3.22	-0.26	-0.13
Average amount of grant and scholarship aid received ⁶					
\$0–\$7,027	20.21	20.60	20.79	-0.58*	-0.19
\$7,028–\$8,427	19.69	19.69	20.10	-0.41*	-0.41
\$8,428–\$9,919	29.41	28.79	28.95	0.46	-0.16
\$9,920 or more	29.36	29.56	28.55	0.81*	1.01*
Unknown	1.34	1.36	1.61	-0.27	-0.25
Total income from CPS:20 ⁷					
-\$1,017,256–\$22,830	15.82	15.88	18.97	-3.15*	-3.09*
\$22,831–\$58,317	16.08	15.87	18.53	-2.45*	-2.66*
\$58,318–\$121,473	15.87	15.55	15.79	0.08	-0.24
\$121,474 or more	14.46	14.73	13.29	1.17*	1.44*
Unknown	0.36	0.34	0.29	0.07*	0.05
Not matched in CPS:20	37.41	37.62	33.13	4.28*	4.49*

See notes at end of table.

Table M-80. Undergraduate student-level survey analysis after poststratification for selected variables—public 4-year, doctorate-granting institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Parents' highest education from CPS:20					
Middle school/junior high	2.94	2.85	3.19	-0.25*	-0.34*
High school	17.11	16.77	19.16	-2.05*	-2.39*
College or beyond	40.42	40.61	42.11	-1.69*	-1.50*
Other/unknown	1.93	1.95	2.20	-0.27*	-0.25*
Missing	‡	‡	‡	‡	‡
Not matched in CPS:20	37.41	37.62	33.13	4.28*	4.49*
Has dependents from CPS:20					
Yes	4.48	4.39	5.60	-1.12*	-1.21*
No	58.11	57.99	61.26	-3.15*	-3.27*
Missing	‡	‡	‡	‡	‡
Not matched in CPS:20	37.41	37.62	33.13	4.28*	4.49*
Student's marital status from CPS:20					
Single	58.15	57.98	61.44	-3.29*	-3.46*
Married/remarried	3.53	3.49	4.32	-0.79*	-0.83*
Separated	‡	‡	‡	‡	‡
Divorced/widowed	0.68	0.69	0.80	-0.12*	-0.11*
Not matched in CPS:20	37.41	37.62	33.13	4.28*	4.49*

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the student base weight adjusted for nonresponse.² Mean is calculated using the student base weight adjusted for nonresponse and poststratification.³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁵ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁷ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations. As part of the expected family contribution (EFC) formula, some calculations include allowances against income or asset amounts that can result in negative numbers.

NOTE: CPS = Central Processing System. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-81. Undergraduate student-level survey analysis after poststratification for selected variables—private nonprofit less-than-4-year institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis region ³					
New England	15.57	15.67	10.80	4.77	4.87
Mideast	32.09	26.43	29.05	3.04	-2.62
Great Lakes	‡	‡	‡	‡	‡
Plains	‡	‡	‡	‡	‡
Southeast	31.75	33.96	41.94	-10.19*	-7.98
Southwest	‡	‡	‡	‡	‡
Rocky Mountains	4.70	12.36	2.62	2.08	9.74
Far West	15.70	11.48	15.56	0.14	-4.08
Outlying Areas	‡	‡	‡	‡	‡
Federal aid status					
Received	63.14	60.71	92.60	-29.46*	-31.89*
Did not receive	24.94	29.38	5.12	19.82*	24.26*
Missing	11.92	9.91	2.28	9.64	7.63
Direct Loan status					
Received	41.99	39.87	73.43	-31.44*	-33.56*
Did not receive	58.01	60.13	26.57	31.44*	33.56*
Total Direct Loan amount received ⁴					
None	58.01	60.13	26.57	31.44*	33.56*
\$1–\$4,713	9.68	9.86	21.06	-11.38*	-11.20*
\$4,714–\$6,500	9.42	9.19	13.80	-4.38*	-4.61*
\$6,501–\$9,833	‡	‡	‡	‡	‡
\$9,834 or more	11.12	10.87	14.93	-3.81*	-4.06*
Age as of December 31, 2019					
15–23	39.21	42.15	39.97	-0.76	2.18
24–29	28.24	25.96	30.48	-2.24	-4.52
30 or older	32.55	31.89	29.55	3.00	2.34
Unknown	‡	‡	‡	‡	‡
Institution aid status					
Received	9.50	11.73	10.94	-1.44	0.79
Did not receive	76.52	73.87	78.63	-2.11	-4.76
Unknown	13.98	14.40	10.43	3.55	3.97
State aid status					
Received	16.67	13.10	25.83	-9.16	-12.73*
Did not receive	55.66	59.39	53.36	2.30	6.03
Unknown	27.68	27.51	20.81	6.87	6.70
Received any aid excluding private loans					
Yes	69.24	68.30	93.98	-24.74*	-25.68*
No	19.44	22.15	3.85	15.59*	18.30*
Unknown	11.32	9.55	2.16	9.16	7.39
Veteran status					
Yes	‡	‡	‡	‡	‡
No	90.42	91.87	91.66	-1.24	0.21

See notes at end of table.

Table M-81. Undergraduate student-level survey analysis after poststratification for selected variables—private nonprofit less-than-4-year institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race/ethnicity					
American Indian or Alaska Native, not Hispanic or Latino	0.75	0.80	3.37	-2.62*	-2.57*
Asian, not Hispanic or Latino	‡	‡	‡	‡	‡
Black, not Hispanic or Latino	18.37	20.84	27.87	-9.50*	-7.03
Hispanic or Latino, of any race	21.15	17.37	13.21	7.94*	4.16*
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡
White, not Hispanic or Latino	42.26	44.91	36.61	5.65	8.30
Two or more races, not Hispanic or Latino	‡	‡	‡	‡	‡
Unknown	4.61	11.11	2.44	2.17	8.67
Gender					
Male	43.38	40.17	40.87	2.51	-0.70
Female	54.07	55.49	58.36	-4.29	-2.87
Unknown	2.55	4.34	0.77	1.78	3.57
Institution total undergraduate enrollment ⁴					
1–339	39.22	33.33	39.85	-0.63	-6.52
340–682	28.14	30.53	34.80	-6.66	-4.27
683–1,266	27.93	23.78	22.72	5.21	1.06
1,267 or more	4.70	12.36	2.62	2.08	9.74
Major					
Undecided	‡	‡	‡	‡	‡
Humanities	1.62	6.87	1.55	0.07	5.32
Social/behavioral sciences	‡	‡	‡	‡	‡
Life sciences	‡	‡	‡	‡	‡
Physical sciences/mathematics	‡	‡	‡	‡	‡
Computer/information science	‡	‡	‡	‡	‡
Engineering	‡	‡	‡	‡	‡
Education	7.94	7.72	7.56	0.38	0.16
Business/management	‡	‡	‡	‡	‡
Health	37.88	31.19	33.81	4.07	-2.62
Vocational/technical	17.99	18.14	21.88	-3.89	-3.74
Other technical/professional	18.86	21.01	25.89	-7.03	-4.88
Unknown	3.01	5.07	0.58	2.43	4.49
Degree program (undergraduate only)					
Certificate	41.60	37.09	38.48	3.12	-1.39
Associate's degree	57.02	57.29	61.14	-4.12	-3.85
Bachelor's degree	‡	‡	‡	‡	‡
Not in a degree program or others	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Pell Grant status					
Received	40.10	39.51	83.07	-42.97*	-43.56*
Did not receive	59.90	60.49	16.93	42.97*	43.56*

See notes at end of table.

Table M-81. Undergraduate student-level survey analysis after poststratification for selected variables—private nonprofit less-than-4-year institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Total Pell amount received ⁵					
None	59.90	60.49	16.93	42.97*	43.56*
\$1–\$2,844	13.62	12.65	21.52	-7.90*	-8.87*
\$2,845–\$6,194	14.27	14.49	29.95	-15.68*	-15.46*
\$6,195 or more	12.21	12.37	31.60	-19.39*	-19.23*
First-time beginner status (sampled)					
Yes	15.71	16.47	20.91	-5.20*	-4.44
No	84.29	83.53	79.09	5.20*	4.44
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁶					
1–75	64.78	65.13	66.62	-1.84	-1.49
76–90	14.49	13.85	12.80	1.69	1.05
91–100	18.70	19.45	19.56	-0.86	-0.11
None or unknown	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁶					
0–11	42.40	38.41	38.61	3.79	-0.20
12–34	29.11	24.08	26.94	2.17	-2.86
35 or more	19.43	30.29	26.04	-6.61	4.25
Unknown	‡	‡	‡	‡	‡
Average amount of grant and scholarship aid received ⁶					
\$0–\$4,895	4.70	12.36	2.62	2.08	9.74
\$4,896–\$5,425	19.11	18.49	21.34	-2.23	-2.85
\$5,426–\$5,995	52.44	51.67	53.48	-1.04	-1.81
\$5,996 or more	14.69	10.26	14.15	0.54	-3.89
Unknown	‡	‡	‡	‡	‡
Total income from CPS:20 ⁷					
-\$6,000–\$8,619	10.12	10.71	18.76	-8.64*	-8.05*
\$8,620–\$21,868	10.14	10.73	19.43	-9.29*	-8.70*
\$21,869–\$45,582	13.73	13.16	17.88	-4.15	-4.72*
\$45,583 or more	16.09	15.40	15.77	0.32	-0.37
Unknown	‡	‡	‡	‡	‡
Not matched in CPS:20	48.63	49.35	27.97	20.66*	21.38*
Parents' highest education from CPS:20					
Middle school/junior high	‡	‡	‡	‡	‡
High school	17.79	16.14	25.64	-7.85*	-9.50*
College or beyond	23.80	24.05	29.05	-5.25*	-5.00
Other/unknown	4.63	5.18	6.96	-2.33	-1.78
Missing	‡	‡	‡	‡	‡
Not matched in CPS:20	48.63	49.35	27.97	20.66*	21.38*

See notes at end of table.

Table M-81. Undergraduate student-level survey analysis after poststratification for selected variables—private nonprofit less-than-4-year institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Has dependents from CPS:20					
Yes	16.95	16.64	28.31	-11.36*	-11.67
No	34.42	34.02	43.72	-9.30*	-9.70
Missing	‡	‡	‡	‡	‡
Not matched in CPS:20	48.63	49.35	27.97	20.66*	21.38*
Student's marital status from CPS:20					
Single	40.48	38.35	57.52	-17.04*	-19.17*
Married/remarried	7.01	8.93	10.52	-3.51*	-1.59
Separated	‡	‡	‡	‡	‡
Divorced/widowed	‡	‡	‡	‡	‡
Not matched in CPS:20	48.63	49.35	27.97	20.66*	21.38*

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the student base weight adjusted for nonresponse.² Mean is calculated using the student base weight adjusted for nonresponse and poststratification.³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁵ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁷ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations. As part of the expected family contribution (EFC) formula, some calculations include allowances against income or asset amounts that can result in negative numbers.

NOTE: CPS = Central Processing System. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-82. Undergraduate student-level survey analysis after poststratification for selected variables—private nonprofit 4-year, non-doctorate-granting institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis region ³					
New England	9.55	9.74	9.79	-0.24	-0.05
Mideast	14.56	14.18	14.59	-0.03	-0.41
Great Lakes	16.41	16.03	17.02	-0.61	-0.99
Plains	11.44	11.65	12.26	-0.82	-0.61
Southeast	19.45	19.88	19.92	-0.47	-0.04
Southwest	2.12	2.12	2.13	-0.01	-0.01
Rocky Mountains	21.51	20.86	18.84	2.67	2.02
Far West	1.55	1.65	1.65	-0.10	#
Outlying Areas	3.40	3.90	3.80	-0.40*	0.10
Federal aid status					
Received	62.94	63.39	67.76	-4.82*	-4.37*
Did not receive	26.36	26.34	22.43	3.93*	3.91*
Missing	10.71	10.27	9.81	0.90	0.46
Direct Loan status					
Received	48.93	50.32	53.90	-4.97*	-3.58*
Did not receive	51.07	49.68	46.10	4.97*	3.58*
Total Direct Loan amount received ⁴					
None	51.07	49.68	46.10	4.97*	3.58*
\$1–\$5,500	20.23	20.58	22.44	-2.21*	-1.86*
\$5,501–\$6,250	1.20	1.33	1.57	-0.37*	-0.24
\$6,251–\$7,500	16.96	17.14	17.63	-0.67	-0.49
\$7,501 or more	10.54	11.28	12.26	-1.72*	-0.98*
Age as of December 31, 2019					
15–23	69.05	68.71	69.35	-0.30	-0.64
24–29	12.00	11.86	12.37	-0.37	-0.51
30 or older	18.95	19.39	18.28	0.67	1.11
Unknown	‡	‡	‡	‡	‡
Institution aid status					
Received	47.58	47.22	48.50	-0.92	-1.28
Did not receive	29.42	30.21	28.36	1.06	1.85
Unknown	23.01	22.57	23.14	-0.13	-0.57
State aid status					
Received	15.37	15.30	16.95	-1.58*	-1.65*
Did not receive	61.38	61.79	59.69	1.69	2.10
Unknown	23.25	22.91	23.36	-0.11	-0.45
Received any aid excluding private loans					
Yes	80.16	80.19	83.21	-3.05*	-3.02*
No	10.80	11.00	8.63	2.17	2.37
Unknown	9.04	8.80	8.16	0.88	0.64
Veteran status					
Yes	3.56	3.51	3.00	0.56	0.51
No	96.44	96.49	97.00	-0.56	-0.51

See notes at end of table.

Table M-82. Undergraduate student-level survey analysis after poststratification for selected variables—private nonprofit 4-year, non-doctorate-granting institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race/ethnicity					
American Indian or Alaska Native, not Hispanic or Latino	‡	‡	‡	‡	‡
Asian, not Hispanic or Latino	4.89	4.86	6.17	-1.28*	-1.31*
Black, not Hispanic or Latino	12.39	12.91	13.19	-0.80*	-0.28
Hispanic or Latino, of any race	13.31	13.09	14.59	-1.28*	-1.50*
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡
White, not Hispanic or Latino	59.30	57.57	55.80	3.50*	1.77
Two or more races, not Hispanic or Latino	7.30	3.29	7.70	-0.40	-4.41*
Unknown	1.87	7.65	1.29	0.58	6.36*
Gender					
Male	41.00	40.78	40.20	0.80*	0.58
Female	56.81	57.45	57.65	-0.84*	-0.20
Unknown	‡	‡	‡	‡	‡
Institution total undergraduate enrollment ⁴					
1–1,307	20.60	19.88	21.05	-0.45	-1.17
1,308–1,889	21.58	22.01	22.43	-0.85	-0.42
1,890–3,149	20.72	20.03	20.52	0.20	-0.49
3,150 or more	37.10	38.08	35.99	1.11	2.09
Major					
Undecided	1.04	1.75	1.03	0.01	0.72*
Humanities	16.94	17.00	17.32	-0.38	-0.32
Social/behavioral sciences	9.62	8.59	9.69	-0.07	-1.10*
Life sciences	10.04	9.93	10.23	-0.19	-0.30
Physical sciences/mathematics	2.55	2.25	2.48	0.07	-0.23
Computer/information science	5.96	5.60	5.30	0.66	0.30
Engineering	3.49	3.03	3.54	-0.05	-0.51*
Education	6.40	6.74	6.44	-0.04	0.30
Business/management	16.77	16.70	16.71	0.06	-0.01
Health	16.00	14.91	15.37	0.63	-0.46
Vocational/technical	‡	‡	‡	‡	‡
Other technical/professional	10.14	9.58	10.84	-0.70*	-1.26*
Unknown	0.25	3.11	0.23	0.02	2.88*
Degree program (undergraduate only)					
Certificate	1.45	1.31	1.62	-0.17	-0.31
Associate's degree	8.11	7.50	8.84	-0.73	-1.34*
Bachelor's degree	90.22	87.38	89.31	0.91	-1.93
Not in a degree program or others	0.22	0.55	0.23	-0.01	0.32*
Unknown	‡	‡	‡	‡	‡
Pell Grant status					
Received	34.26	34.81	41.16	-6.90*	-6.35*
Did not receive	65.74	65.19	58.84	6.90*	6.35*

See notes at end of table.

Table M-82. Undergraduate student-level survey analysis after poststratification for selected variables—private nonprofit 4-year, non-doctorate-granting institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Total Pell amount received ⁵					
None	65.74	65.19	58.84	6.90*	6.35*
\$1–\$3,144	11.98	12.22	14.82	-2.84*	-2.60*
\$3,145–\$6,194	10.23	10.36	12.09	-1.86*	-1.73*
\$6,195 or more	12.05	12.23	14.25	-2.20*	-2.02*
First-time beginner status (sampled)					
Yes	15.77	15.78	16.58	-0.81	-0.80
No	84.23	84.22	83.42	0.81	0.80
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁶					
1–95	50.31	49.42	48.62	1.69	0.80
96–99	20.84	21.63	22.04	-1.20	-0.41
100	28.32	28.43	28.76	-0.44	-0.33
None or unknown	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁶					
0–137	9.57	9.76	11.05	-1.48*	-1.29
138–233	14.05	14.36	14.60	-0.55	-0.24
234–369	29.31	28.20	29.79	-0.48	-1.59
370 or more	26.52	26.97	26.32	0.20	0.65
Unknown	20.55	20.71	18.23	2.32	2.48
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁶					
0–26	21.17	20.52	17.56	3.61	2.96
27–43	19.22	18.28	19.66	-0.44	-1.38
44–72	23.53	23.64	24.07	-0.54	-0.43
73 or more	34.28	36.03	37.05	-2.77*	-1.02
Unknown	1.80	1.53	1.66	0.14	-0.13
Average amount of grant and scholarship aid received ⁶					
\$0–\$11,821	39.65	39.68	38.50	1.15	1.18
\$11,822–\$19,702	17.62	18.06	18.87	-1.25*	-0.81
\$19,703–\$26,070	19.45	19.66	19.69	-0.24	-0.03
\$26,071 or more	22.71	22.05	22.31	0.40	-0.26
Unknown	‡	‡	‡	‡	‡
Total income from CPS:20 ⁷					
-\$9–\$22,918	15.86	16.68	19.05	-3.19*	-2.37*
\$22,919–\$57,515	16.91	17.56	19.53	-2.62*	-1.97*
\$57,516–\$119,471	18.14	18.02	17.34	0.80*	0.68*
\$119,472 or more	14.61	15.25	13.29	1.32*	1.96*
Unknown	‡	‡	‡	‡	‡
Not matched in CPS:20	34.25	32.20	30.52	3.73*	1.68*

See notes at end of table.

Table M-82. Undergraduate student-level survey analysis after poststratification for selected variables—private nonprofit 4-year, non-doctorate-granting institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Parents' highest education from CPS:20					
Middle school/junior high	1.54	1.62	1.74	-0.20*	-0.12
High school	19.21	19.91	21.04	-1.83*	-1.13*
College or beyond	43.15	44.18	44.36	-1.21	-0.18
Other/unknown	1.56	1.74	1.98	-0.42*	-0.24
Missing	‡	‡	‡	‡	‡
Not matched in CPS:20	34.25	32.20	30.52	3.73*	1.68*
Has dependents from CPS:20					
Yes	10.45	11.67	12.45	-2.00*	-0.78
No	55.30	56.13	57.03	-1.73	-0.90
Missing	‡	‡	‡	‡	‡
Not matched in CPS:20	34.25	32.20	30.52	3.73*	1.68*
Student's marital status from CPS:20					
Single	56.27	57.28	58.65	-2.38*	-1.37
Married/remarried	7.92	8.70	9.03	-1.11*	-0.33
Separated	‡	‡	‡	‡	‡
Divorced/widowed	‡	‡	‡	‡	‡
Not matched in CPS:20	34.25	32.20	30.52	3.73*	1.68*

Rounds to zero.

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the student base weight adjusted for nonresponse.² Mean is calculated using the student base weight adjusted for nonresponse and poststratification.³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁵ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁷ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations. As part of the expected family contribution (EFC) formula, some calculations include allowances against income or asset amounts that can result in negative numbers.

NOTE: CPS = Central Processing System. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-83. Undergraduate student-level survey analysis after poststratification for selected variables—private nonprofit 4-year, doctorate-granting institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis region ³					
New England	18.07	17.86	15.01	3.06	2.85
Mideast	22.73	23.18	23.28	-0.55	-0.10
Great Lakes	12.61	12.65	13.02	-0.41	-0.37
Plains	7.85	7.67	8.38	-0.53	-0.71
Southeast	18.08	18.15	19.13	-1.05	-0.98
Southwest	5.75	5.54	5.77	-0.02	-0.23
Rocky Mountains	2.50	2.34	2.56	-0.06	-0.22
Far West	9.56	9.82	10.34	-0.78	-0.52
Outlying Areas	2.84	2.77	2.51	0.33	0.26
Federal aid status					
Received	58.21	57.73	62.99	-4.78*	-5.26*
Did not receive	36.80	36.48	32.37	4.43*	4.11*
Missing	4.98	5.79	4.64	0.34	1.15*
Direct Loan status					
Received	45.96	45.31	51.27	-5.31*	-5.96*
Did not receive	54.04	54.69	48.73	5.31*	5.96*
Total Direct Loan amount received ⁴					
None	54.04	54.69	48.73	5.31*	5.96*
\$1–\$5500	19.70	19.52	20.83	-1.13*	-1.31*
\$5,501–\$7,500	16.60	15.90	19.54	-2.94*	-3.64*
\$7,501 or more	9.65	9.89	10.90	-1.25	-1.01
Age as of December 31, 2019					
15–23	75.12	72.93	73.77	1.35	-0.84
24–29	10.11	11.56	11.53	-1.42*	0.03
30 or older	14.77	14.67	14.70	0.07	-0.03
Unknown	‡	‡	‡	‡	‡
Institution aid status					
Received	50.60	50.12	51.39	-0.79	-1.27
Did not receive	39.16	38.42	37.48	1.68	0.94
Unknown	10.24	11.47	11.13	-0.89*	0.34
State aid status					
Received	14.52	14.35	15.37	-0.85	-1.02*
Did not receive	74.66	73.50	72.81	1.85*	0.69
Unknown	10.82	12.16	11.81	-0.99*	0.35
Received any aid excluding private loans					
Yes	78.14	77.31	80.47	-2.33*	-3.16*
No	17.92	17.87	15.90	2.02*	1.97*
Unknown	3.94	4.82	3.64	0.30	1.18*
Veteran status					
Yes	2.79	2.81	2.97	-0.18	-0.16
No	97.21	97.19	97.03	0.18	0.16

See notes at end of table.

Table M-83. Undergraduate student-level survey analysis after poststratification for selected variables—private nonprofit 4-year, doctorate-granting institutions: 2019–20—
Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race/ethnicity					
American Indian or Alaska Native, not Hispanic or Latino	‡	‡	‡	‡	‡
Asian, not Hispanic or Latino	9.45	9.70	11.16	-1.71*	-1.46*
Black, not Hispanic or Latino	10.21	10.21	9.98	0.23	0.23
Hispanic or Latino, of any race	17.07	16.25	15.33	1.74*	0.92*
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡
White, not Hispanic or Latino	53.47	52.28	52.04	1.43*	0.24
Two or more races, not Hispanic or Latino	7.32	3.97	8.88	-1.56*	-4.91*
Unknown	1.71	7.16	1.49	0.22*	5.67*
Gender					
Male	41.37	41.62	40.69	0.68	0.93
Female	57.00	56.77	57.89	-0.89*	-1.12
Unknown	1.63	1.61	1.42	0.21	0.19
Institution total undergraduate enrollment ⁴					
1–2,541	15.82	16.05	17.70	-1.88*	-1.65*
2,542–4,368	18.48	18.89	19.56	-1.08	-0.67
4,369–8,909	29.10	28.08	28.72	0.38	-0.64
8,910 or more	36.60	36.98	34.03	2.57	2.95
Major					
Undecided	1.26	2.03	1.18	0.08	0.85*
Humanities	11.40	11.84	11.62	-0.22	0.22
Social/behavioral sciences	13.54	11.97	13.25	0.29	-1.28*
Life sciences	13.05	11.88	12.75	0.30	-0.87*
Physical sciences/mathematics	3.13	2.59	3.02	0.11	-0.43
Computer/information science	5.29	5.54	5.54	-0.25	#
Engineering	5.98	5.53	5.73	0.25	-0.20
Education	4.20	3.72	4.15	0.05	-0.43*
Business/management	16.45	17.72	15.95	0.50	1.77
Health	13.68	13.09	14.54	-0.86*	-1.45*
Vocational/technical	‡	‡	‡	‡	‡
Other technical/professional	10.97	10.75	11.23	-0.26	-0.48
Unknown	0.58	2.84	0.57	0.01	2.27*
Degree program (undergraduate only)					
Certificate	0.45	0.62	0.45	#	0.17
Associate's degree	2.80	3.51	2.96	-0.16	0.55
Bachelor's degree	96.20	91.56	95.73	0.47	-4.17*
Not in a degree program or others	0.55	1.48	0.86	-0.31*	0.62
Unknown	‡	‡	‡	‡	‡
Pell Grant status					
Received	29.61	29.59	34.11	-4.50*	-4.52*
Did not receive	70.39	70.41	65.89	4.50*	4.52*

See notes at end of table.

Table M-83. Undergraduate student-level survey analysis after poststratification for selected variables—private nonprofit 4-year, doctorate-granting institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Total Pell amount received ⁵					
None	70.39	70.41	65.89	4.50*	4.52*
\$1–\$3,238	10.95	10.98	13.27	-2.32*	-2.29*
\$3,239–\$6,194	8.99	9.02	10.48	-1.49*	-1.46*
\$6,195 or more	9.67	9.59	10.36	-0.69*	-0.77
First-time beginner status (sampled)					
Yes	16.95	16.47	16.77	0.18	-0.30
No	83.05	83.53	83.23	-0.18	0.30
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁶					
1–90	49.46	47.95	45.93	3.53*	2.02
91–98	21.47	22.01	22.77	-1.30	-0.76
99–100	27.75	28.75	29.86	-2.11*	-1.11
None or unknown	1.32	1.29	1.44	-0.12	-0.15
Number of full-time, first-time undergraduate students living on campus ⁶					
0–194	10.27	10.47	11.47	-1.20*	-1.00
195–415	12.85	13.46	14.01	-1.16*	-0.55
416–738	31.58	30.89	29.74	1.84	1.15
739 or more	38.70	38.44	37.41	1.29	1.03
Unknown	6.60	6.74	7.37	-0.77	-0.63
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁶					
0–43	11.52	10.73	12.69	-1.17*	-1.96*
44–68	18.01	17.55	17.93	0.08	-0.38
69–124	27.20	26.31	27.88	-0.68	-1.57
125 or more	41.91	44.08	40.03	1.88	4.05*
Unknown	1.35	1.33	1.46	-0.11	-0.13
Average amount of grant and scholarship aid received ⁶					
\$0–\$15,784	28.16	28.66	27.26	0.90	1.40
\$15,785–\$22,032	15.30	15.55	16.69	-1.39*	-1.14
\$22,033–\$27,903	20.07	20.51	20.85	-0.78	-0.34
\$27,904 or more	35.15	33.98	33.75	1.40	0.23
Unknown	1.32	1.29	1.44	-0.12	-0.15
Total income from CPS:20 ⁷					
–\$13,711–\$26,499	13.23	14.39	15.37	-2.14*	-0.98
\$26,500–\$68,902	14.60	13.94	16.64	-2.04*	-2.70*
\$68,903–\$138,080	13.93	13.54	14.41	-0.48	-0.87
\$138,081 or more	13.20	12.94	12.91	0.29	0.03
Unknown	‡	‡	‡	‡	‡
Not matched in CPS:20	44.87	44.98	40.47	4.40*	4.51*

See notes at end of table.

Table M-83. Undergraduate student-level survey analysis after poststratification for selected variables—private nonprofit 4-year, doctorate-granting institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Parents' highest education from CPS:20					
Middle school/junior high	1.66	1.70	1.91	-0.25*	-0.21
High school	14.03	14.11	16.04	-2.01*	-1.93*
College or beyond	38.00	37.61	39.80	-1.80	-2.19
Other/unknown	1.28	1.38	1.60	-0.32*	-0.22
Missing	‡	‡	‡	‡	‡
Not matched in CPS:20	44.87	44.98	40.47	4.40*	4.51*
Has dependents from CPS:20					
Yes	5.40	5.66	7.05	-1.65*	-1.39*
No	49.73	49.35	52.48	-2.75*	-3.13*
Missing	‡	‡	‡	‡	‡
Not matched in CPS:20	44.87	44.98	40.47	4.40*	4.51*
Student's marital status from CPS:20					
Single	49.86	49.65	53.08	-3.22*	-3.43*
Married/remarried	3.93	4.02	4.93	-1.00*	-0.91*
Separated	‡	‡	‡	‡	‡
Divorced/widowed	‡	‡	‡	‡	‡
Not matched in CPS:20	44.87	44.98	40.47	4.40*	4.51*

Rounds to zero.

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the student base weight adjusted for nonresponse.² Mean is calculated using the student base weight adjusted for nonresponse and poststratification.³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁵ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁷ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations. As part of the expected family contribution (EFC) formula, some calculations include allowances against income or asset amounts that can result in negative numbers.

NOTE: CPS = Central Processing System. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-84. Undergraduate student-level survey analysis after poststratification for selected variables—private for-profit less-than-2-year institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis region ³					
New England	4.42	4.52	4.48	-0.06	0.04
Mideast	24.41	20.67	22.78	1.63	-2.11
Great Lakes	18.02	21.12	18.19	-0.17	2.93
Plains	0.78	0.81	0.90	-0.12	-0.09
Southeast	22.42	21.39	24.12	-1.70	-2.73
Southwest	10.28	11.28	11.11	-0.83	0.17
Rocky Mountains	1.21	1.19	1.36	-0.15	-0.17
Far West	18.46	19.02	17.06	1.40	1.96
Outlying Areas	‡	‡	‡	‡	‡
Federal aid status					
Received	70.31	72.01	85.03	-14.72*	-13.02*
Did not receive	16.17	15.07	9.44	6.73*	5.63*
Missing	13.51	12.92	5.54	7.97*	7.38*
Direct Loan status					
Received	57.12	55.24	63.71	-6.59*	-8.47*
Did not receive	42.88	44.76	36.29	6.59*	8.47*
Total Direct Loan amount received ⁴					
None	42.88	44.76	36.29	6.59*	8.47*
\$1–\$4,750	18.09	19.41	23.44	-5.35*	-4.03*
\$4,751–\$6,843	10.72	9.94	11.71	-0.99	-1.77*
\$6,844–\$9,500	22.69	21.09	24.53	-1.84*	-3.44*
\$9,501 or more	5.62	4.81	4.03	1.59*	0.78
Age as of December 31, 2019					
15–23	42.57	45.56	41.63	0.94	3.93*
24–29	26.03	25.21	29.12	-3.09*	-3.91*
30 or older	31.40	29.02	29.25	2.15*	-0.23
Unknown	‡	‡	‡	‡	‡
Institution aid status					
Received	3.86	4.04	4.77	-0.91*	-0.73
Did not receive	57.36	57.69	62.80	-5.44*	-5.11
Unknown	38.77	38.28	32.43	6.34*	5.85*
State aid status					
Received	1.86	1.53	2.84	-0.98*	-1.31*
Did not receive	60.02	60.83	65.60	-5.58*	-4.77
Unknown	38.11	37.65	31.55	6.56*	6.10*
Received any aid excluding private loans					
Yes	71.19	72.67	85.67	-14.48*	-13.00*
No	15.61	14.59	9.04	6.57*	5.55*
Unknown	13.21	12.74	5.30	7.91*	7.44*
Veteran status					
Yes	4.37	3.94	4.05	0.32	-0.11
No	95.63	96.06	95.95	-0.32	0.11

See notes at end of table.

Table M-84. Undergraduate student-level survey analysis after poststratification for selected variables—private for-profit less-than-2-year institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race/ethnicity					
American Indian or Alaska Native, not Hispanic or Latino	‡	‡	‡	‡	‡
Asian, not Hispanic or Latino	‡	‡	‡	‡	‡
Black, not Hispanic or Latino	23.24	23.33	25.36	-2.12	-2.03
Hispanic or Latino, of any race	23.95	19.92	23.05	0.90	-3.13
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡
White, not Hispanic or Latino	26.33	25.30	29.67	-3.34*	-4.37*
Two or more races, not Hispanic or Latino	‡	‡	‡	‡	‡
Unknown	12.18	26.68	8.58	3.60	18.10*
Gender					
Male	23.52	22.60	18.84	4.68*	3.76
Female	75.90	75.06	80.42	-4.52	-5.36*
Unknown	0.58	2.33	0.74	-0.16*	1.59*
Institution total undergraduate enrollment ⁴					
1–334	18.77	19.63	21.96	-3.19*	-2.33
335–521	29.94	31.06	31.71	-1.77	-0.65
522–942	31.01	29.35	29.84	1.17	-0.49
943 or more	20.28	19.96	16.50	3.78	3.46
Major					
Undecided	‡	‡	‡	‡	‡
Humanities	‡	‡	‡	‡	‡
Social/behavioral sciences	‡	‡	‡	‡	‡
Life sciences	‡	‡	‡	‡	‡
Physical sciences/mathematics	‡	‡	‡	‡	‡
Computer/information science	3.37	2.37	3.34	0.03	-0.97*
Engineering	2.84	2.26	2.30	0.54	-0.04
Education	‡	‡	‡	‡	‡
Business/management	0.80	1.10	0.99	-0.19	0.11
Health	46.14	42.93	45.77	0.37	-2.84
Vocational/technical	10.33	10.25	5.71	4.62	4.54
Other technical/professional	31.13	29.12	37.64	-6.51*	-8.52*
Unknown	3.78	10.94	2.50	1.28	8.44
Degree program (undergraduate only)					
Certificate	99.07	87.03	98.89	0.18*	-11.86*
Associate's degree	‡	‡	‡	‡	‡
Bachelor's degree	‡	‡	‡	‡	‡
Not in a degree program or others	0.93	1.99	1.11	-0.18*	0.88
Unknown	‡	‡	‡	‡	‡
Pell Grant status					
Received	58.59	60.11	78.76	-20.17*	-18.65*
Did not receive	41.41	39.89	21.24	20.17*	18.65*

See notes at end of table.

Table M-84. Undergraduate student-level survey analysis after poststratification for selected variables—private for-profit less-than-2-year institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Total Pell amount received ⁵					
None	41.41	39.89	21.24	20.17*	18.65*
\$1–\$3,097	17.30	17.96	27.09	-9.79*	-9.13*
\$3,098–\$6,194	25.76	25.63	34.90	-9.14*	-9.27*
\$6,195 or more	15.53	16.52	16.76	-1.23*	-0.24
First-time beginner status (sampled)					
Yes	17.66	18.11	18.32	-0.66	-0.21
No	82.34	81.89	81.68	0.66	0.21
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁶					
1–62	16.53	15.15	17.90	-1.37	-2.75
63–72	35.55	35.99	30.40	5.15*	5.59*
73–85	24.75	24.83	26.13	-1.38	-1.30
86 or more	22.91	23.80	25.26	-2.35	-1.46
None or unknown	0.26	0.23	0.32	-0.06	-0.09
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁶					
0–12	7.73	8.62	9.49	-1.76*	-0.87
13–24	4.83	5.06	5.98	-1.15*	-0.92
25–54	21.92	22.40	22.43	-0.51	-0.03
55 or more	61.73	60.41	57.80	3.93*	2.61
Unknown	3.80	3.51	4.31	-0.51	-0.80
Average amount of grant and scholarship aid received ⁶					
\$0–\$4,175	49.94	51.28	48.81	1.13	2.47
\$4,176–\$4,843	19.01	19.11	17.66	1.35	1.45
\$4,844–\$5,437	15.70	15.56	18.52	-2.82*	-2.96
\$5,438 or more	15.09	13.82	14.69	0.40	-0.87
Unknown	0.26	0.23	0.32	-0.06	-0.09
Total income from CPS:20 ⁷					
-\$1,000–\$6,000	13.62	14.91	17.44	-3.82*	-2.53*
\$6,001–\$16,528	17.82	16.25	20.06	-2.24	-3.81*
\$16,529–\$32,180	15.87	16.23	18.88	-3.01*	-2.65*
\$32,181 or more	15.49	16.36	14.41	1.08	1.95*
Unknown	‡	‡	‡	‡	‡
Not matched in CPS:20	36.87	35.91	28.93	7.94*	6.98*
Parents' highest education from CPS:20					
Middle school/junior high	3.61	4.36	3.99	-0.38	0.37
High school	24.37	26.35	30.21	-5.84*	-3.86*
College or beyond	19.22	20.23	21.97	-2.75*	-1.74
Other/unknown	13.42	11.01	11.77	1.65	-0.76
Missing	2.51	2.14	3.13	-0.62	-0.99
Not matched in CPS:20	36.87	35.91	28.93	7.94*	6.98*

See notes at end of table.

Table M-84. Undergraduate student-level survey analysis after poststratification for selected variables—private for-profit less-than-2-year institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Has dependents from CPS:20					
Yes	30.19	29.94	35.09	-4.90*	-5.15*
No	32.94	34.15	35.98	-3.04*	-1.83
Missing	‡	‡	‡	‡	‡
Not matched in CPS:20	36.87	35.91	28.93	7.94*	6.98*
Student's marital status from CPS:20					
Single	49.98	51.14	55.93	-5.95*	-4.79*
Married/remarried	8.56	8.15	9.59	-1.03*	-1.44*
Separated	2.84	3.03	3.40	-0.56*	-0.37
Divorced/widowed	1.75	1.76	2.15	-0.40*	-0.39
Not matched in CPS:20	36.87	35.91	28.93	7.94*	6.98*

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the student base weight adjusted for nonresponse.² Mean is calculated using the student base weight adjusted for nonresponse and poststratification.³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁵ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁷ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations. As part of the expected family contribution (EFC) formula, some calculations include allowances against income or asset amounts that can result in negative numbers.

NOTE: CPS = Central Processing System. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-85. Undergraduate student-level survey analysis after poststratification for selected variables—private for-profit 2-year institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis region ³					
New England	0.73	0.91	0.90	-0.17	0.01
Mideast	11.03	12.81	13.22	-2.19	-0.41
Great Lakes	8.71	7.21	10.12	-1.41	-2.91
Plains	2.28	2.11	3.80	-1.52	-1.69
Southeast	32.30	30.15	29.73	2.57	0.42
Southwest	16.52	16.32	14.36	2.16	1.96
Rocky Mountains	2.96	3.82	3.48	-0.52	0.34
Far West	19.50	18.64	18.99	0.51	-0.35
Outlying Areas	5.96	8.04	5.41	0.55	2.63
Federal aid status					
Received	57.32	64.96	90.66	-33.34*	-25.70*
Did not receive	24.39	20.69	6.22	18.17*	14.47*
Missing	18.29	14.35	3.12	15.17*	11.23*
Direct Loan status					
Received	43.11	46.69	73.70	-30.59*	-27.01*
Did not receive	56.89	53.31	26.30	30.59*	27.01*
Total Direct Loan amount received ⁴					
None	56.89	53.31	26.30	30.59*	27.01*
\$1–\$4,750	10.43	11.62	19.46	-9.03*	-7.84*
\$4,751–\$7,528	9.22	10.05	15.06	-5.84*	-5.01*
\$7,529–\$9,500	12.92	14.60	25.30	-12.38*	-10.70*
\$9,501 or more	10.55	10.43	13.88	-3.33*	-3.45*
Age as of December 31, 2019					
15–23	38.37	40.98	37.34	1.03	3.64*
24–29	27.36	26.97	30.13	-2.77	-3.16
30 or older	34.27	32.01	32.53	1.74	-0.52
Unknown	‡	‡	‡	‡	‡
Institution aid status					
Received	4.04	4.74	5.70	-1.66	-0.96
Did not receive	45.92	50.92	54.78	-8.86	-3.86
Unknown	50.04	44.34	39.52	10.52	4.82
State aid status					
Received	2.38	2.40	3.97	-1.59*	-1.57
Did not receive	59.55	61.34	59.89	-0.34	1.45
Unknown	38.07	36.25	36.15	1.92	0.10
Received any aid excluding private loans					
Yes	60.10	66.95	91.46	-31.36*	-24.51*
No	11.60	12.46	3.71	7.89*	8.75*
Unknown	28.30	20.59	4.83	23.47*	15.76*
Veteran status					
Yes	6.21	6.64	5.17	1.04	1.47
No	93.79	93.36	94.83	-1.04	-1.47

See notes at end of table.

Table M-85. Undergraduate student-level survey analysis after poststratification for selected variables—private for-profit 2-year institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race/ethnicity					
American Indian or Alaska Native, not Hispanic or Latino	2.59	0.76	1.84	0.75	-1.08*
Asian, not Hispanic or Latino	5.21	4.63	3.98	1.23	0.65
Black, not Hispanic or Latino	12.04	12.50	23.08	-11.04*	-10.58*
Hispanic or Latino, of any race	23.82	24.87	26.06	-2.24	-1.19
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡
White, not Hispanic or Latino	27.71	24.41	29.83	-2.12	-5.42*
Two or more races, not Hispanic or Latino	11.35	2.79	7.72	3.63*	-4.93*
Unknown	16.22	29.56	6.41	9.81*	23.15*
Gender					
Male	44.33	41.13	33.89	10.44*	7.24*
Female	51.27	53.60	64.86	-13.59*	-11.26*
Unknown	4.40	5.27	1.25	3.15	4.02
Institution total undergraduate enrollment ⁴					
1–657	39.41	32.19	32.95	6.46	-0.76
658–940	22.09	24.21	29.48	-7.39*	-5.27*
941–1,415	20.17	21.34	19.15	1.02	2.19
1,416 or more	18.32	22.26	18.42	-0.10	3.84
Major					
Undecided	‡	‡	‡	‡	‡
Humanities	‡	‡	‡	‡	‡
Social/behavioral sciences	‡	‡	‡	‡	‡
Life sciences	‡	‡	‡	‡	‡
Physical sciences/mathematics	‡	‡	‡	‡	‡
Computer/information science	0.92	1.02	1.16	-0.24	-0.14
Engineering	4.97	4.63	4.98	-0.01	-0.35
Education	‡	‡	‡	‡	‡
Business/management	1.39	1.52	1.32	0.07	0.20
Health	45.22	46.30	59.90	-14.68*	-13.60*
Vocational/technical	22.86	20.78	17.36	5.50	3.42
Other technical/professional	12.87	12.29	10.52	2.35	1.77
Unknown	5.72	10.67	0.96	4.76	9.71*
Degree program (undergraduate only)					
Certificate	64.89	59.54	65.57	-0.68	-6.03
Associate's degree	32.78	25.76	33.84	-1.06	-8.08*
Bachelor's degree	‡	‡	‡	‡	‡
Not in a degree program or others	2.33	1.36	0.59	1.74	0.77
Unknown	‡	‡	‡	‡	‡
Pell Grant status					
Received	42.93	49.01	83.42	-40.49*	-34.41*
Did not receive	57.07	50.99	16.58	40.49*	34.41*

See notes at end of table.

Table M-85. Undergraduate student-level survey analysis after poststratification for selected variables—private for-profit 2-year institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Total Pell amount received ⁵					
None	57.07	50.99	16.58	40.49*	34.41*
\$1–\$3,097	13.42	15.26	27.70	-14.28*	-12.44*
\$3,098–\$6,194	15.19	16.95	31.34	-16.15*	-14.39*
\$6,195 or more	14.33	16.80	24.38	-10.05*	-7.58*
First-time beginner status (sampled)					
Yes	19.38	18.82	20.69	-1.31	-1.87
No	80.62	81.18	79.31	1.31	1.87
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁶					
1–59	30.72	24.09	16.74	13.98	7.35
60–73	28.05	30.73	30.44	-2.39	0.29
74–85	15.25	18.14	19.69	-4.44	-1.55
86 or more	22.20	23.75	29.21	-7.01*	-5.46
None or unknown	3.79	3.29	3.91	-0.12	-0.62
Number of full-time, first-time undergraduate students living on campus ⁶					
0	0.50	0.55	0.56	-0.06	-0.01
1–8	12.02	8.10	3.41	8.61	4.69
9 or more	5.56	4.38	3.80	1.76	0.58
Unknown	81.92	86.97	92.23	-10.31	-5.26
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁶					
0–16	25.54	18.52	14.50	11.04	4.02
17–55	28.14	26.64	29.92	-1.78	-3.28
56–97	13.73	13.64	15.46	-1.73	-1.82
98 or more	22.65	29.67	30.55	-7.90*	-0.88
Unknown	9.94	11.54	9.57	0.37	1.97
Average amount of grant and scholarship aid received ⁶					
\$0–\$4,149	33.27	27.16	19.07	14.20*	8.09
\$4,150–\$4,779	28.65	33.08	38.10	-9.45*	-5.02
\$4,780–\$5,500	9.22	11.75	12.44	-3.22	-0.69
\$5,501 or more	24.91	24.57	26.34	-1.43	-1.77
Unknown	3.96	3.44	4.05	-0.09	-0.61
Total income from CPS:20 ⁷					
-\$1,531–\$4,215	8.45	9.87	12.36	-3.91*	-2.49*
\$4,216–\$16,502	10.31	10.74	18.80	-8.49*	-8.06*
\$16,503–\$33,794	10.26	12.50	17.22	-6.96*	-4.72*
\$33,795 or more	12.62	13.56	15.32	-2.70	-1.76
Unknown	‡	‡	‡	‡	‡
Not matched in CPS:20	58.21	53.05	36.13	22.08*	16.92*

See notes at end of table.

Table M-85. Undergraduate student-level survey analysis after poststratification for selected variables—private for-profit 2-year institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Parents' highest education from CPS:20					
Middle school/junior high	2.32	2.98	4.68	-2.36*	-1.70*
High school	17.72	19.54	27.48	-9.76*	-7.94*
College or beyond	14.94	16.12	20.81	-5.87*	-4.69*
Other/unknown	4.83	6.08	7.73	-2.90*	-1.65*
Missing	1.98	2.22	3.17	-1.19*	-0.95*
Not matched in CPS:20	58.21	53.05	36.13	22.08*	16.92*
Has dependents from CPS:20					
Yes	19.00	20.11	32.44	-13.44*	-12.33*
No	22.79	26.84	31.43	-8.64*	-4.59*
Missing	‡	‡	‡	‡	‡
Not matched in CPS:20	58.21	53.05	36.13	22.08*	16.92*
Student's marital status from CPS:20					
Single	31.12	35.08	48.97	-17.85*	-13.89*
Married/remarried	7.04	7.76	9.16	-2.12*	-1.40
Separated	1.27	1.70	2.49	-1.22*	-0.79
Divorced/widowed	2.36	2.41	3.24	-0.88*	-0.83*
Not matched in CPS:20	58.21	53.05	36.13	22.08*	16.92*

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the student base weight adjusted for nonresponse.² Mean is calculated using the student base weight adjusted for nonresponse and poststratification.³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁵ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁷ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations. As part of the expected family contribution (EFC) formula, some calculations include allowances against income or asset amounts that can result in negative numbers.

NOTE: CPS = Central Processing System. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-86. Undergraduate student-level survey analysis after poststratification for selected variables—private for-profit 4-year institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis region ³					
New England	5.19	4.96	8.52	-3.33	-3.56
Mideast	5.39	5.31	6.76	-1.37	-1.45
Great Lakes	8.13	8.47	9.97	-1.84	-1.50
Plains	2.11	1.93	3.29	-1.18	-1.36
Southeast	20.55	20.56	19.95	0.60	0.61
Southwest	30.08	31.38	18.58	11.50*	12.80*
Rocky Mountains	2.16	2.27	2.43	-0.27	-0.16
Far West	23.45	22.55	27.74	-4.29	-5.19*
Outlying Areas	2.96	2.55	2.75	0.21	-0.20
Federal aid status					
Received	67.36	67.40	78.39	-11.03*	-10.99*
Did not receive	28.62	28.43	17.80	10.82*	10.63*
Missing	4.01	4.17	3.80	0.21	0.37
Direct Loan status					
Received	50.62	50.37	63.20	-12.58*	-12.83*
Did not receive	49.38	49.63	36.80	12.58*	12.83*
Total Direct Loan amount received ⁴					
None	49.38	49.63	36.80	12.58*	12.83*
\$1–\$4,849	10.75	11.95	15.64	-4.89*	-3.69*
\$4,850–\$7,765	11.58	11.26	15.18	-3.60*	-3.92*
\$7,766–\$10,500	13.52	12.66	18.31	-4.79*	-5.65*
\$10,501 or more	14.78	14.49	14.07	0.71	0.42
Age as of December 31, 2019					
15–23	20.91	20.80	22.48	-1.57	-1.68
24–29	23.69	24.76	26.37	-2.68	-1.61
30 or older	55.40	54.42	51.15	4.25*	3.27*
Unknown	‡	‡	‡	‡	‡
Institution aid status					
Received	31.44	32.72	24.31	7.13*	8.41*
Did not receive	59.62	58.32	63.94	-4.32	-5.62
Unknown	8.95	8.97	11.74	-2.79	-2.77
State aid status					
Received	3.11	3.06	3.53	-0.42	-0.47
Did not receive	87.72	87.69	84.41	3.31	3.28
Unknown	9.17	9.24	12.06	-2.89	-2.82
Received any aid excluding private loans					
Yes	82.61	82.91	87.73	-5.12*	-4.82*
No	14.10	13.63	9.16	4.94*	4.47*
Unknown	3.29	3.46	3.11	0.18	0.35
Veteran status					
Yes	10.49	10.08	8.78	1.71*	1.30
No	89.51	89.92	91.22	-1.71*	-1.30

See notes at end of table.

Table M-86. Undergraduate student-level survey analysis after poststratification for selected variables—private for-profit 4-year institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race/ethnicity					
American Indian or Alaska Native, not Hispanic or Latino	0.57	0.47	1.65	-1.08*	-1.18*
Asian, not Hispanic or Latino	5.15	5.07	8.01	-2.86	-2.94*
Black, not Hispanic or Latino	22.87	21.64	23.68	-0.81	-2.04
Hispanic or Latino, of any race	21.74	21.93	16.71	5.03*	5.22*
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡
White, not Hispanic or Latino	39.47	38.13	35.19	4.28*	2.94
Two or more races, not Hispanic or Latino	7.58	4.71	12.45	-4.87*	-7.74*
Unknown	1.39	7.03	0.90	0.49	6.13*
Gender					
Male	32.67	32.18	28.26	4.41*	3.92*
Female	66.83	67.22	71.15	-4.32*	-3.93*
Unknown	0.50	0.60	0.59	-0.09	0.01
Institution total undergraduate enrollment ⁴					
1–1,094	7.70	6.93	9.57	-1.87	-2.64*
1,095–3,765	10.85	10.87	13.16	-2.31	-2.29
3,766–8,066	12.75	12.83	17.09	-4.34	-4.26
8,067 or more	68.70	69.37	60.17	8.53*	9.20*
Major					
Undecided	‡	‡	‡	‡	‡
Humanities	3.52	3.66	3.61	-0.09	0.05
Social/behavioral sciences	4.63	4.13	4.80	-0.17	-0.67
Life sciences	3.11	3.12	3.20	-0.09	-0.08
Physical sciences/mathematics	‡	‡	‡	‡	‡
Computer/information science	5.20	5.05	4.69	0.51	0.36
Engineering	‡	‡	‡	‡	‡
Education	7.99	6.89	6.55	1.44	0.34
Business/management	22.59	23.69	19.23	3.36*	4.46*
Health	34.93	36.53	39.90	-4.97*	-3.37
Vocational/technical	0.41	0.29	0.67	-0.26	-0.38
Other technical/professional	15.18	14.38	14.66	0.52	-0.28
Unknown	0.07	0.32	0.12	-0.05	0.20
Degree program (undergraduate only)					
Certificate	4.36	4.33	5.61	-1.25*	-1.28*
Associate's degree	17.66	18.03	21.06	-3.40*	-3.03
Bachelor's degree	77.79	77.16	73.06	4.73*	4.10*
Not in a degree program or others	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Pell Grant status					
Received	45.22	45.08	61.45	-16.23*	-16.37*
Did not receive	54.78	54.92	38.55	16.23*	16.37*

See notes at end of table.

Table M-86. Undergraduate student-level survey analysis after poststratification for selected variables—private for-profit 4-year institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Total Pell amount received ⁵					
None	54.78	54.92	38.55	16.23*	16.37*
\$1–\$3,097	11.88	12.10	19.97	-8.09*	-7.87*
\$3,098–\$6,194	17.30	16.90	24.83	-7.53*	-7.93*
\$6,195 or more	16.04	16.08	16.65	-0.61	-0.57
First-time beginner status (sampled)					
Yes	5.36	5.56	7.30	-1.94*	-1.74*
No	94.64	94.44	92.70	1.94*	1.74*
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁶					
1–67	21.93	22.82	26.81	-4.88	-3.99
68–83	22.93	23.94	21.59	1.34	2.35
84–93	28.86	27.81	26.70	2.16	1.11
94 or more	24.27	23.70	21.93	2.34	1.77
None or unknown	2.01	1.73	2.97	-0.96	-1.24
Number of full-time, first-time undergraduate students living on campus ⁶					
0–37	‡	‡	‡	‡	‡
38–98	0.68	0.64	0.95	-0.27	-0.31
99–128	5.37	5.10	8.71	-3.34	-3.61
129 or more	11.99	12.13	4.28	7.71	7.85
Unknown	81.29	81.71	85.31	-4.02	-3.60
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁶					
0–7	8.52	8.48	11.06	-2.54	-2.58
8–34	19.59	20.06	18.30	1.29	1.76
35–115	15.92	15.20	18.52	-2.60	-3.32
116 or more	52.00	52.29	46.86	5.14	5.43
Unknown	3.97	3.97	5.26	-1.29	-1.29
Average amount of grant and scholarship aid received ⁶					
\$0–\$4,701	22.93	22.51	24.32	-1.39	-1.81
\$4,702–\$5,827	28.43	29.88	22.02	6.41	7.86
\$5,828–\$7,126	6.99	6.25	8.55	-1.56	-2.30*
\$7,127 or more	38.22	38.08	40.46	-2.24	-2.38
Unknown	3.44	3.28	4.65	-1.21	-1.37
Total income from CPS:20 ⁷					
-\$6,096–\$9,004	12.79	11.26	16.76	-3.97*	-5.50*
\$9,005–\$24,099	16.12	15.31	21.63	-5.51*	-6.32*
\$24,100–\$50,761	15.20	16.02	17.44	-2.24*	-1.42
\$50,762 or more	17.35	17.71	15.85	1.50	1.86
Unknown	‡	‡	‡	‡	‡
Not matched in CPS:20	38.44	39.56	28.19	10.25*	11.37*

See notes at end of table.

Table M-86. Undergraduate student-level survey analysis after poststratification for selected variables—private for-profit 4-year institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Parents' highest education from CPS:20					
Middle school/junior high	3.69	4.22	3.72	-0.03	0.50
High school	24.39	24.89	29.60	-5.21*	-4.71*
College or beyond	27.53	26.19	30.74	-3.21	-4.55*
Other/unknown	4.87	4.24	6.53	-1.66*	-2.29*
Missing	1.07	0.89	1.22	-0.15	-0.33
Not matched in CPS:20	38.44	39.56	28.19	10.25*	11.37*
Has dependents from CPS:20					
Yes	30.52	30.86	37.26	-6.74*	-6.40*
No	31.03	29.58	34.56	-3.53	-4.98*
Missing	‡	‡	‡	‡	‡
Not matched in CPS:20	38.44	39.56	28.19	10.25*	11.37*
Student's marital status from CPS:20					
Single	38.39	37.38	45.64	-7.25*	-8.26*
Married/remarried	16.55	16.68	18.31	-1.76	-1.63
Separated	1.90	1.75	2.66	-0.76*	-0.91*
Divorced/widowed	4.71	4.62	5.22	-0.51	-0.60
Not matched in CPS:20	38.44	39.56	28.19	10.25*	11.37*

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the student base weight adjusted for nonresponse.² Mean is calculated using the student base weight adjusted for nonresponse and poststratification.³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁵ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁷ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations. As part of the expected family contribution (EFC) formula, some calculations include allowances against income or asset amounts that can result in negative numbers.

NOTE: CPS = Central Processing System. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-87. Undergraduate student-level study nonresponse bias analysis for selected variables—all institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Control and level of institution					(Effect size = 0.08)			(Effect size = 0.02)	
Public less-than-2-year	2,240	210	0.31	0.36	0.05*	14.75	0.35	0.04	13.53
Public 2-year	97,650	32,810	31.52	28.41	-3.11*	-9.86	31.49	-0.03	-0.10
Public 4-year, non-doctorate-granting, primarily subbaccalaureate	15,720	3,310	8.01	8.42	0.41	5.09	8.28	0.27	3.31
Public 4-year, non-doctorate-granting, primarily baccalaureate	16,390	4,840	5.33	5.17	-0.16	-2.99	5.33	0.01	0.14
Public 4-year, doctorate-granting	75,930	11,380	30.02	32.11	2.09*	6.97	29.77	-0.25	-0.84
Private nonprofit less-than-4-year	1,380	330	0.37	0.37	#	0.03	0.40	0.03	7.34
Private nonprofit 4-year, non-doctorate-granting	18,990	4,350	6.68	6.89	0.21	3.20	6.71	0.03	0.50
Private nonprofit 4-year, doctorate-granting	27,010	5,340	10.77	11.45	0.67*	6.24	10.66	-0.12	-1.11
Private for-profit less-than-2-year	4,880	2,240	1.24	1.04	-0.20*	-15.93	1.16	-0.08	-6.81
Private for-profit 2-year	5,680	2,780	1.25	1.08	-0.17*	-13.65	1.20	-0.05	-3.77
Private for-profit 4-year	10,500	1,710	4.49	4.70	0.20	4.54	4.65	0.16	3.53
State, control, and level of institution					(Effect size = ‡)			(Effect size = ‡)	
Alabama									
Public 2-year	2,180	1,240	0.48	0.39	-0.09	-19.17	0.48	#	#
Public 4-year	2,180	120	0.81	0.93	0.12	14.69	0.81	#	#
Other	1,120	130	0.29	0.32	0.03	10.74	0.29	#	#
Alaska									
Public 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year	760	250	0.14	0.15	0.01	5.01	0.14	#	#
Other	200	290	#	#	#	-26.07	#	#	#
Arizona									
Public 2-year	2,130	790	0.97	0.90	-0.07	-6.98	0.97	#	#
Public 4-year	1,540	80	0.81	0.94	0.13*	16.33	0.81	#	#
Other	1,690	720	1.37	1.25	-0.11	-8.31	1.37	#	#
Arkansas									
Public 2-year	2,040	300	0.24	0.25	0.01	5.96	0.24	#	#
Public 4-year	1,170	490	0.42	0.40	-0.02	-4.68	0.42	#	#
Other	680	430	0.09	0.07	-0.02	-22.46	0.09	#	#

See notes at end of table.

Table M-87. Undergraduate student-level study nonresponse bias analysis for selected variables—all institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
California									
Public 2-year	9,490	4,480	7.34	5.83	-1.51*	-20.52	7.34	#	#
Public 4-year	6,010	780	5.06	5.27	0.21	4.12	5.06	#	#
Other	2,530	1,000	2.06	2.06	#	0.18	2.06	#	#
Colorado									
Public 2-year	620	170	0.11	0.12	0.01	10.38	0.11	#	#
Public 4-year	3,080	500	1.31	1.38	0.07	5.33	1.31	#	#
Other	950	330	0.52	0.46	-0.06	-11.45	0.52	#	#
Connecticut									
Public 2-year	2,420	410	0.31	0.28	-0.03	-10.33	0.31	#	#
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	2,000	430	0.44	0.48	0.04	8.94	0.44	#	#
Delaware									
Public 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year	890	700	0.23	0.11	-0.12	-51.22	0.23	#	#
Other	240	590	0.06	0.01	-0.05	-87.53	0.06	#	#
District of Columbia									
Public 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year	360	940	0.03	0.01	-0.02	-66.77	0.03	#	#
Other	1,270	550	0.29	0.27	-0.02	-7.19	0.29	#	#
Florida									
Public 2-year	1,460	1,450	0.34	0.31	-0.03	-9.04	0.34	#	#
Public 4-year	5,960	760	4.34	4.63	0.29	6.79	4.34	#	#
Other	2,780	980	1.43	1.43	0.01	0.37	1.43	#	#
Georgia									
Public 2-year	1,680	1,800	0.74	0.42	-0.32*	-43.35	0.74	#	#
Public 4-year	3,800	1,010	1.75	1.66	-0.09	-5.15	1.75	#	#
Other	1,870	200	0.50	0.55	0.05	9.59	0.50	#	#
Hawaii									
Public 2-year	1,610	40	0.14	0.16	0.02*	17.29	0.14	#	#
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-87. Undergraduate student-level study nonresponse bias analysis for selected variables—all institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Idaho									
Public 2-year	140	320	0.09	0.04	-0.06	-61.97	0.09	#	#
Public 4-year	860	240	0.25	0.22	-0.03	-10.54	0.25	#	#
Other	1,000	1,370	0.37	0.08	-0.29	-78.41	0.37	#	#
Illinois									
Public 2-year	4,730	1,260	1.68	1.65	-0.03	-1.61	1.68	#	#
Public 4-year	1,940	70	0.74	0.84	0.10*	14.28	0.74	#	#
Other	1,490	260	1.09	1.16	0.07	6.61	1.09	#	#
Indiana									
Public 2-year	2,500	110	0.56	0.64	0.08	14.11	0.56	#	#
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	1,380	320	0.41	0.43	0.03	6.20	0.41	#	#
Iowa									
Public 2-year	1,420	130	0.38	0.43	0.05	14.28	0.38	#	#
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	1,090	50	0.26	0.29	0.03	10.47	0.26	#	#
Kansas									
Public 2-year	800	1,100	0.40	0.21	-0.20	-48.38	0.40	#	#
Public 4-year	1,260	50	0.41	0.48	0.07*	16.77	0.41	#	#
Other	830	90	0.13	0.15	0.02*	13.37	0.13	#	#
Kentucky									
Public 2-year	1,530	270	0.36	0.37	0.01	1.93	0.36	#	#
Public 4-year	1,320	30	0.42	0.50	0.07*	17.33	0.42	#	#
Other	1,470	160	0.20	0.22	0.02	10.90	0.20	#	#
Louisiana									
Public 2-year	1,320	940	0.43	0.29	-0.13*	-30.83	0.43	#	#
Public 4-year	2,290	220	0.65	0.72	0.07*	10.10	0.65	#	#
Other	1,150	150	0.20	0.21	0.01	7.39	0.20	#	#
Maine									
Public 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year	1,370	180	0.15	0.16	0.01	6.17	0.15	#	#
Other	1,970	290	0.10	0.11	0.01	5.29	0.10	#	#

See notes at end of table.

Table M-87. Undergraduate student-level study nonresponse bias analysis for selected variables—all institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Maryland									
Public 2-year	1,710	1,040	0.73	0.54	-0.19	-26.38	0.73	#	#
Public 4-year	1,890	160	0.88	1.00	0.13	14.24	0.88	#	#
Other	970	90	0.21	0.21	#	-1.49	0.21	#	#
Massachusetts									
Public 2-year	1,710	430	0.50	0.50	#	-0.63	0.50	#	#
Public 4-year	1,940	240	0.61	0.66	0.06	9.06	0.61	#	#
Other	2,340	600	1.22	1.21	-0.01	-0.59	1.22	#	#
Michigan									
Public 2-year	2,850	520	0.91	0.95	0.05	5.03	0.91	#	#
Public 4-year	2,820	320	1.45	1.63	0.18*	12.04	1.45	#	#
Other	1,050	240	0.41	0.44	0.02	6.02	0.41	#	#
Minnesota									
Public 2-year	4,970	140	0.66	0.76	0.10*	15.71	0.66	#	#
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	1,400	250	0.49	0.51	0.02	4.37	0.49	#	#
Mississippi									
Public 2-year	1,260	220	0.40	0.40	#	-0.19	0.40	#	#
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	600	250	0.09	0.08	-0.01	-13.61	0.09	#	#
Missouri									
Public 2-year	1,170	560	0.52	0.49	-0.02	-4.09	0.52	#	#
Public 4-year	1,550	340	0.62	0.63	0.01	1.92	0.62	#	#
Other	1,540	380	0.57	0.56	-0.02	-2.71	0.57	#	#
Montana									
Public 2-year	410	750	0.04	0.01	-0.03	-64.48	0.04	#	#
Public 4-year	430	1,070	0.19	0.05	-0.13	-70.87	0.19	#	#
Other	400	40	0.02	0.02	#	11.41	0.02	#	#
Nebraska									
Public 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	1,310	320	0.15	0.14	-0.01	-6.24	0.12	-0.02	-16.60

See notes at end of table.

Table M-87. Undergraduate student-level study nonresponse bias analysis for selected variables—all institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Nevada									
Public 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year	1,480	120	0.62	0.69	0.07	11.67	0.62	#	#
Other	1,060	390	0.05	0.05	#	-6.43	0.05	#	#
New Hampshire									
Public 2-year	330	710	0.08	0.04	-0.04	-45.70	0.04	-0.04	-50.35
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	1,530	120	0.81	0.96	0.15	19.12	0.84	0.03	4.30
New Jersey									
Public 2-year	2,470	800	0.92	0.81	-0.12	-12.61	0.92	#	#
Public 4-year	2,330	360	0.96	0.98	0.02	2.25	0.96	#	#
Other	2,220	590	0.45	0.43	-0.02	-4.31	0.45	#	#
New Mexico									
Public 2-year	2,060	130	0.33	0.38	0.05	15.33	0.33	#	#
Public 4-year	1,330	70	0.24	0.28	0.04*	15.69	0.24	#	#
Other	‡	‡	‡	‡	‡	‡	‡	‡	‡
New York									
Public 2-year	3,400	1,790	1.51	1.16	-0.35*	-23.20	1.51	#	#
Public 4-year	5,380	3,100	2.04	1.58	-0.46*	-22.50	2.04	#	#
Other	2,290	170	2.24	2.54	0.30*	13.49	2.24	#	#
North Carolina									
Public 2-year	7,080	900	1.24	1.30	0.06	4.78	1.24	#	#
Public 4-year	2,310	200	1.14	1.28	0.14	12.60	1.14	#	#
Other	1,720	270	0.50	0.51	0.01	1.46	0.50	#	#
North Dakota									
Public 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	350	320	0.03	0.02	-0.01	-45.27	0.03	#	#
Ohio									
Public 2-year	3,890	140	0.88	1.03	0.15*	17.18	0.88	#	#
Public 4-year	4,590	1,270	1.55	1.51	-0.04	-2.47	1.55	#	#
Other	1,500	110	0.91	1.03	0.12*	13.72	0.91	#	#

See notes at end of table.

Table M-87. Undergraduate student-level study nonresponse bias analysis for selected variables—all institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Oklahoma									
Public 2-year	2,050	810	0.34	0.27	-0.07	-19.95	0.34	#	#
Public 4-year	2,510	310	0.53	0.60	0.06	11.83	0.53	#	#
Other	1,010	370	0.13	0.12	#	-3.38	0.13	#	#
Oregon									
Public 2-year	1,680	170	0.62	0.66	0.03	5.63	0.62	#	#
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	1,030	180	0.15	0.16	0.01	5.88	0.15	#	#
Pennsylvania									
Public 2-year	1,980	450	0.77	0.74	-0.02	-2.88	0.77	#	#
Public 4-year	4,140	1,970	1.16	1.04	-0.12	-10.57	1.16	#	#
Other	1,770	570	1.35	1.32	-0.03	-2.28	1.35	#	#
Puerto Rico									
Public 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year	1,390	430	0.29	0.27	-0.01	-4.92	0.30	0.01	3.22
Other	2,580	550	0.70	0.73	0.03	4.63	0.70	#	#
Rhode Island									
Public 2-year	220	1,420	0.22	0.04	-0.18	-83.73	0.22	#	#
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	1,270	150	0.20	0.21	0.01	3.37	0.20	#	#
South Carolina									
Public 2-year	1,090	770	0.39	0.33	-0.06	-15.41	0.39	#	#
Public 4-year	1,800	50	0.62	0.73	0.11*	17.46	0.62	#	#
Other	1,590	220	0.24	0.25	0.01	5.37	0.24	#	#
South Dakota									
Public 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year	980	390	0.18	0.17	-0.02	-8.61	0.18	#	#
Other	380	380	0.05	0.04	-0.01	-23.04	0.05	#	#
Tennessee									
Public 2-year	4,620	1,060	0.59	0.57	-0.01	-2.18	0.59	#	#
Public 4-year	1,300	230	0.67	0.68	0.02	2.57	0.67	#	#
Other	1,330	340	0.46	0.48	0.02	4.74	0.46	#	#

See notes at end of table.

Table M-87. Undergraduate student-level study nonresponse bias analysis for selected variables—all institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Texas									
Public 2-year	5,490	1,490	3.17	2.96	-0.21	-6.64	3.17	#	#
Public 4-year	7,970	450	3.57	4.03	0.46*	12.91	3.57	#	#
Other	1,590	500	0.87	0.89	0.02	2.26	0.87	#	#
Utah									
Public 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year	1,130	130	0.81	0.86	0.05	6.38	0.81	#	#
Other	3,760	310	1.12	1.32	0.20	17.81	1.12	#	#
Vermont									
Public 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	1,380	50	0.09	0.10	0.02*	17.69	0.09	#	#
Virginia									
Public 2-year	2,400	540	0.85	0.87	0.02	1.79	0.85	#	#
Public 4-year	2,410	160	1.03	1.18	0.14*	13.76	1.03	#	#
Other	800	100	0.85	0.92	0.06	7.17	0.85	#	#
Washington									
Public 2-year	940	520	0.20	0.15	-0.05	-26.91	0.20	#	#
Public 4-year	3,620	1,270	1.53	1.38	-0.16	-10.21	1.53	#	#
Other	1,520	60	0.25	0.29	0.04*	14.44	0.25	#	#
West Virginia									
Public 2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year	1,880	330	0.28	0.31	0.03	10.94	0.28	#	#
Other	1,760	630	0.41	0.46	0.05	11.10	0.41	#	#
Wisconsin									
Public 2-year	1,650	430	0.48	0.48	#	0.86	0.48	#	#
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	1,140	80	0.23	0.27	0.04*	16.34	0.23	#	#
Wyoming									
Public 2-year	690	630	0.10	0.06	-0.03	-34.51	0.10	#	#
Public 4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-87. Undergraduate student-level study nonresponse bias analysis for selected variables—all institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Bureau of Economic Analysis region ⁴					(Effect size = 0.06)			(Effect size = #)	
New England	23,710	5,020	5.34	5.48	0.15	2.74	5.34	#	#
Mideast	33,300	13,880	13.82	12.75	-1.08*	-7.80	13.82	#	#
Great Lakes	36,100	5,130	13.29	14.45	1.16*	8.75	13.29	#	#
Plains	26,190	4,590	6.45	6.75	0.30	4.61	6.45	#	#
Southeast	72,360	16,940	23.91	24.56	0.66	2.75	23.91	#	#
Southwest	30,100	5,750	12.36	12.67	0.31	2.48	12.36	#	#
Rocky Mountains	14,840	5,860	4.98	4.70	-0.28	-5.61	4.98	#	#
Far West	35,800	9,590	18.86	17.64	-1.22*	-6.47	18.86	#	#
Outlying Areas	3,970	2,540	0.99	1.00	0.01	0.90	0.99	#	#
Federal aid status					(Effect size = 0.23)			(Effect size = 0.18)	
Received	151,440	39,220	52.04	51.93	-0.11	-0.21	52.04	#	#
Did not receive	116,310	3,920	38.14	44.53	6.39*	16.74	43.12	4.98*	13.05
Unknown	8,600	26,150	9.82	3.54	-6.28*	-63.95	4.84	-4.98*	-50.68
Direct Loan status					(Effect size = 0.01)			(Effect size = #)	
Received	93,530	22,480	31.11	31.63	0.52	1.66	31.11	#	#
Did not receive	182,830	46,810	68.89	68.37	-0.52	-0.75	68.89	#	#
Total Direct Loan amount received ⁵					(Effect size = 0.01)			(Effect size = #)	
None	182,830	46,810	68.89	68.37	-0.52	-0.75	68.89	#	#
\$1–\$4,500	23,280	5,870	7.71	7.81	0.10	1.32	7.71	#	#
\$4,501–\$6,250	24,490	5,490	7.91	8.12	0.21*	2.61	7.91	#	#
\$6,251–\$7,500	23,810	5,260	8.30	8.51	0.21*	2.56	8.29	#	-0.01
\$7,501 or more	21,950	5,870	7.19	7.19	#	-0.06	7.19	#	#
Age as of December 31, 2019					(Effect size = 0.05)			(Effect size = 0.03)	
15–23	183,550	39,840	63.96	65.29	1.33*	2.08	64.07	0.11	0.18
24–29	41,650	12,110	16.03	15.55	-0.48*	-2.99	16.07	0.04	0.26
30 or older	50,910	15,340	19.67	19.05	-0.62*	-3.16	19.72	0.05	0.25
Unknown	250	2,000	0.34	0.11	-0.23*	-66.73	0.14	-0.20*	-59.55

See notes at end of table.

Table M-87. Undergraduate student-level study nonresponse bias analysis for selected variables—all institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Institution aid status					(Effect size = 0.29)			(Effect size = 0.22)	
Received	79,450	6,820	26.15	29.20	3.05*	11.66	26.16	#	0.02
Did not receive	180,810	13,210	57.85	65.46	7.62*	13.17	65.75	7.90*	13.66
Unknown	16,090	49,250	16.00	5.34	-10.67*	-66.65	8.10	-7.90*	-49.39
State aid status					(Effect size = 0.28)			(Effect size = 0.20)	
Received	55,310	5,570	19.00	20.93	1.93*	10.17	19.00	#	#
Did not receive	203,270	14,890	64.52	72.91	8.38*	12.99	71.85	7.33*	11.36
Unknown	17,780	48,830	16.47	6.16	-10.32*	-62.62	9.14	-7.33*	-44.49
Veteran status					(Effect size = #)			(Effect size = #)	
Yes	9,840	2,660	3.64	3.59	-0.05	-1.41	3.64	#	#
No	266,520	66,630	96.36	96.41	0.05	0.05	96.36	#	#
Race/ethnicity					(Effect size = 0.22)			(Effect size = 0.22)	
American Indian or Alaska Native, not Hispanic or Latino	2,660	610	0.68	0.72	0.04*	5.62	0.72	0.04*	5.86
Asian, not Hispanic or Latino	17,250	2,260	6.88	7.42	0.55*	7.96	7.48	0.60*	8.75
Black, not Hispanic or Latino	36,090	7,210	12.04	12.61	0.57*	4.73	12.94	0.90*	7.47
Hispanic or Latino, of any race	50,470	7,260	19.45	20.93	1.49*	7.64	21.27	1.82*	9.38
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	940	120	0.29	0.31	0.02	5.80	0.33	0.04*	14.72
White, not Hispanic or Latino	143,750	19,080	45.19	49.10	3.91*	8.66	48.33	3.14*	6.96
Two or more races, not Hispanic or Latino	12,420	810	3.65	4.11	0.46*	12.67	4.12	0.47*	12.99
Unknown	12,790	31,930	11.82	4.79	-7.03*	-59.50	4.80	-7.02*	-59.41
Gender					(Effect size = 0.08)			(Effect size = 0.08)	
Male	115,580	26,710	42.03	42.47	0.44*	1.05	42.54	0.51*	1.20
Female	158,820	36,430	56.01	56.68	0.67*	1.19	56.57	0.56*	1.00
Unknown	1,960	6,140	1.95	0.84	-1.11*	-56.76	0.89	-1.07*	-54.59
Institution total undergraduate enrollment ⁵					(Effect size = 0.02)			(Effect size = 0.01)	
1–3,669	65,630	20,940	15.23	14.95	-0.28	-1.83	15.21	-0.02	-0.12
3,670–9,668	70,380	15,950	19.52	19.50	-0.02	-0.11	19.69	0.17	0.85
9,669–19,989	68,370	18,410	25.86	25.18	-0.68	-2.63	25.67	-0.19	-0.72
19,990 or more	71,980	13,990	39.40	40.38	0.98	2.49	39.43	0.04	0.10

See notes at end of table.

Table M-87. Undergraduate student-level study nonresponse bias analysis for selected variables—all institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Major					(Effect size = ‡)			(Effect size = ‡)	
Undecided	‡	‡	‡	‡	‡	‡	‡	‡	‡
Humanities	49,510	11,560	17.85	18.11	0.26	1.47	18.27	0.43*	2.39
Social/behavioral sciences	17,770	2,590	7.24	7.84	0.60*	8.35	7.70	0.47*	6.46
Life sciences	23,200	3,590	8.62	9.23	0.61*	7.11	8.97	0.36*	4.14
Physical sciences/mathematics	4,290	660	1.73	1.86	0.13*	7.28	1.81	0.08*	4.58
Computer/information science	12,030	1,950	4.71	5.07	0.35*	7.49	5.07	0.35*	7.46
Engineering	15,280	2,210	5.59	6.07	0.48*	8.59	5.90	0.31*	5.64
Education	11,010	2,110	3.99	4.17	0.19*	4.69	4.11	0.12	2.99
Business/management	36,110	6,340	14.15	15.06	0.91*	6.43	14.90	0.75*	5.32
Health	45,640	9,420	14.72	15.21	0.50*	3.37	15.52	0.81*	5.48
Vocational/technical	10,050	2,770	2.74	2.76	0.02	0.67	2.92	0.18*	6.65
Other technical/professional	31,350	5,120	10.91	11.63	0.72*	6.63	11.75	0.84*	7.72
Unknown	2,600	18,570	6.09	0.98	-5.10*	-83.84	1.11	-4.98*	-81.80
Degree program (undergraduate only)					(Effect size = 0.22)			(Effect size = 0.22)	
Certificate	26,640	6,890	6.71	6.77	0.06	0.95	7.34	0.63*	9.43
Associate's degree	97,180	16,160	30.91	32.32	1.41*	4.56	34.69	3.78*	12.22
Bachelor's degree	138,680	22,400	53.59	57.18	3.59*	6.70	54.08	0.48	0.90
Not in a degree program or others	11,350	2,420	3.07	3.06	-0.01	-0.42	3.23	0.15	4.98
Unknown	2,500	21,420	5.71	0.66	-5.05*	-88.37	0.67	-5.05*	-88.33
Pell Grant status					(Effect size = 0.01)			(Effect size = #)	
Received	101,290	28,350	34.79	34.22	-0.57*	-1.63	34.79	#	#
Did not receive	175,070	40,940	65.21	65.78	0.57*	0.87	65.21	#	#
Total Pell amount received ⁶					(Effect size = 0.01)			(Effect size = #)	
None	175,070	40,940	65.21	65.78	0.57*	0.87	65.21	#	#
\$1–\$3,097	31,580	9,330	10.88	10.56	-0.31*	-2.87	10.88	#	#
\$3,098–\$6,194	38,130	10,500	12.99	12.82	-0.16*	-1.25	12.99	#	#
\$6,195 or more	31,570	8,520	10.93	10.84	-0.09	-0.86	10.93	#	#

See notes at end of table.

Table M-87. Undergraduate student-level study nonresponse bias analysis for selected variables—all institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Received any aid excluding private loans					(Effect size = 0.23)			(Effect size = 0.19)	
Received	192,170	40,270	65.58	67.79	2.21*	3.36	65.58	#	#
Did not receive	77,210	2,000	25.04	29.32	4.29*	17.11	30.02	4.99*	19.92
Unknown	6,970	27,020	9.38	2.88	-6.49*	-69.24	4.39	-4.99*	-53.18
First-time beginner status (sampled)					(Effect size = 0.03)			(Effect size = #)	
Yes	54,910	9,600	14.42	15.51	1.09*	7.59	14.42	#	#
No	221,440	59,690	85.58	84.49	-1.09*	-1.28	85.58	#	#
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁷					(Effect size = 0.02)			(Effect size = 0.02)	
1–67	90,190	20,090	34.61	35.14	0.53	1.54	34.90	0.29	0.83
68–82	71,020	20,380	27.94	27.23	-0.71	-2.54	28.17	0.23	0.82
83–94	64,850	17,550	22.99	22.81	-0.17	-0.75	23.04	0.05	0.22
95 or more	46,710	9,890	13.65	14.05	0.40	2.94	13.12	-0.53	-3.87
None or unknown	3,590	1,370	0.81	0.76	-0.05	-6.33	0.78	-0.04	-4.71
Number of full-time, first-time undergraduate students living on campus ⁷					(Effect size = 0.06)			(Effect size = 0.01)	
0–114	22,120	7,490	6.33	6.05	-0.29	-4.54	6.55	0.21	3.34
115–274	21,720	7,040	7.17	6.83	-0.34	-4.81	7.22	0.05	0.73
275–656	34,130	4,400	11.02	11.60	0.57*	5.21	10.82	-0.20	-1.81
657 or more	69,130	9,870	30.79	32.98	2.19*	7.12	30.42	-0.37	-1.20
Unknown	129,270	40,500	44.69	42.55	-2.13*	-4.77	44.99	0.30	0.68
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁷					(Effect size = 0.01)			(Effect size = 0.01)	
0–36	27,230	7,090	7.23	7.44	0.21	2.85	7.31	0.08	1.14
37–90	42,980	9,620	11.98	12.02	0.04	0.29	11.80	-0.18	-1.50
91–218	70,060	17,580	20.70	20.66	-0.04	-0.17	20.99	0.30	1.43
219 or more	127,670	31,590	57.92	57.84	-0.08	-0.14	57.81	-0.11	-0.19
Unknown	8,430	3,410	2.17	2.05	-0.13	-5.80	2.08	-0.09	-4.09

See notes at end of table.

Table M-87. Undergraduate student-level study nonresponse bias analysis for selected variables—all institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Average amount of grant and scholarship aid received ⁷					(Effect size = 0.05)			(Effect size = 0.01)	
\$0–\$5,000	52,210	20,540	17.51	16.06	-1.45*	-8.27	17.31	-0.20	-1.15
\$5,001–\$6,090	72,740	19,190	25.81	25.14	-0.67	-2.60	26.24	0.42	1.64
\$6,091–\$9,754	84,110	19,040	30.74	31.10	0.36	1.18	30.84	0.10	0.31
\$9,755 or more	61,090	8,860	24.71	26.53	1.82*	7.36	24.44	-0.27	-1.09
Unknown	6,200	1,650	1.22	1.16	-0.06	-5.03	1.17	-0.05	-3.87

Rounds to zero.

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the student base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the student base weight adjusted for nonresponse) and weighted full-sample mean (using the student base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁷ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. For the purpose of this table, "state" includes Puerto Rico and the District of Columbia. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-88. Undergraduate student-level study nonresponse bias analysis for selected variables—public less-than-2-year institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Bureau of Economic Analysis region ⁴					(Effect size = ‡)			(Effect size = ‡)	
New England	‡	‡	‡	‡	‡	‡	‡	‡	‡
Mideast	‡	‡	‡	‡	‡	‡	‡	‡	‡
Great Lakes	‡	‡	‡	‡	‡	‡	‡	‡	‡
Plains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southeast	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southwest	350	120	10.75	9.50	-1.25	-11.64	11.14	0.40	3.69
Rocky Mountains	1,370	90	23.74	22.28	-1.46	-6.16	19.78	-3.96*	-16.69
Far West	‡	‡	‡	‡	‡	‡	‡	‡	‡
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡
Federal aid status					(Effect size = 0.13)			(Effect size = 0.13)	
Received	810	30	54.15	55.66	1.51	2.78	55.99	1.84	3.40
Did not receive	1,420	100	42.79	43.55	0.76	1.77	43.22	0.42	0.99
Unknown	10	80	3.06	0.79	-2.27	-74.16	0.79	-2.27	-74.16
Direct Loan status					(Effect size = ‡)			(Effect size = ‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	2,080	200	80.08	79.26	-0.82	-1.02	79.37	-0.70	-0.88
Total Direct Loan amount received ⁵					(Effect size = ‡)			(Effect size = ‡)	
None	2,080	200	80.08	79.26	-0.82	-1.02	79.37	-0.70	-0.88
\$1–\$2,932	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$2,933–\$4,850	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$4,851–\$8,034	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$8,035 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Age as of December 31, 2019					(Effect size = ‡)			(Effect size = ‡)	
15–23	1,260	130	49.33	48.93	-0.40	-0.81	47.55	-1.78	-3.62
24–29	450	30	23.25	23.62	0.37	1.60	23.79	0.55	2.35
30 or older	540	40	27.42	27.45	0.03	0.10	28.66	1.24	4.51
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-88. Undergraduate student-level study nonresponse bias analysis for selected variables—public less-than-2-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Institution aid status					(Effect size = 0.14)			(Effect size = 0.15)	
Received	230	30	5.70	5.63	-0.07	-1.31	4.97	-0.73*	-12.83
Did not receive	1,990	80	90.24	93.14	2.90	3.21	93.81	3.57	3.96
Unknown	20	100	4.06	1.23	-2.82	-69.60	1.22	-2.84	-69.96
State aid status					(Effect size = ‡)			(Effect size = ‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	2,130	110	93.40	96.13	2.73	2.93	96.22	2.82	3.02
Unknown	20	100	4.06	1.23	-2.82	-69.60	1.22	-2.84	-69.96
Veteran status					(Effect size = ‡)			(Effect size = ‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡
No	2,150	200	96.42	96.45	0.03	0.03	96.67	0.24	0.25
Race/ethnicity					(Effect size = ‡)			(Effect size = ‡)	
American Indian or Alaska Native, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
Asian, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
Black, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
Hispanic or Latino, of any race	370	30	10.53	10.58	0.04	0.42	10.87	0.34	3.22
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
White, not Hispanic or Latino	1,530	80	51.82	52.64	0.83	1.59	51.23	-0.59	-1.13
Two or more races, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	50	60	16.46	15.20	-1.26	-7.64	14.80	-1.65	-10.05
Gender					(Effect size = 0.04)			(Effect size = 0.05)	
Male	1,280	100	41.27	41.44	0.17	0.41	40.26	-1.01	-2.45
Female	940	70	52.10	52.88	0.77	1.48	54.08	1.98	3.80
Unknown	30	40	6.63	5.69	-0.94	-14.20	5.66	-0.97	-14.64
Institution total undergraduate enrollment ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–738	570	60	64.51	65.08	0.56	0.87	67.03	2.52	3.90
739–3,938	770	120	21.87	21.07	-0.79	-3.63	21.06	-0.81	-3.71
3,939–4,493	‡	‡	‡	‡	‡	‡	‡	‡	‡
4,494 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-88. Undergraduate student-level study nonresponse bias analysis for selected variables—public less-than-2-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Major					(Effect size = ‡)			(Effect size = ‡)	
Undecided	‡	‡	‡	‡	‡	‡	‡	‡	‡
Humanities	‡	‡	‡	‡	‡	‡	‡	‡	‡
Social/behavioral sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡
Life sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡
Physical sciences/mathematics	‡	‡	‡	‡	‡	‡	‡	‡	‡
Computer/information science	‡	‡	‡	‡	‡	‡	‡	‡	‡
Engineering	‡	‡	‡	‡	‡	‡	‡	‡	‡
Education	‡	‡	‡	‡	‡	‡	‡	‡	‡
Business/management	‡	‡	‡	‡	‡	‡	‡	‡	‡
Health	630	40	51.30	52.98	1.68	3.28	54.75	3.44*	6.71
Vocational/technical	810	50	21.18	21.36	0.18	0.87	19.94	-1.24	-5.87
Other technical/professional	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	#	60	1.80	0.05	-1.76	-97.78	0.06	-1.74	-96.80
Degree program (undergraduate only)					(Effect size = ‡)			(Effect size = ‡)	
Certificate	2,220	150	98.01	99.87	1.86	1.89	99.88	1.87	1.91
Associate's degree	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bachelor's degree	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not in a degree program or others	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Pell Grant status					(Effect size = ‡)			(Effect size = ‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	1,700	180	65.95	65.18	-0.77	-1.16	64.40	-1.55*	-2.35
Total Pell amount received ⁶					(Effect size = ‡)			(Effect size = ‡)	
None	1,700	180	65.95	65.18	-0.77	-1.16	64.40	-1.55*	-2.35
\$1–\$2,837	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$2,839–\$6,194	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$6,195 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Received any aid excluding private loans					(Effect size = 0.14)			(Effect size = 0.14)	
Received	1,090	60	61.04	62.52	1.48	2.43	61.94	0.90	1.47
Did not receive	1,150	60	36.07	36.86	0.79	2.19	37.43	1.36	3.77
Unknown	10	80	2.89	0.62	-2.27	-78.59	0.63	-2.26	-78.07

See notes at end of table.

Table M-88. Undergraduate student-level study nonresponse bias analysis for selected variables—public less-than-2-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
First-time beginner status (sampled)					(Effect size = 0.01)			(Effect size = 0.04)	
Yes	860	60	27.03	26.74	-0.29	-1.06	25.07	-1.95*	-7.23
No	1,380	140	72.97	73.26	0.29	0.39	74.93	1.95*	2.68
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁷					(Effect size = ‡)			(Effect size = ‡)	
1–46	1,250	30	37.73	38.86	1.13	3.01	41.63	3.91	10.35
47–65	580	80	22.08	22.28	0.21	0.93	20.40	-1.68	-7.61
66–83	100	100	4.24	1.41	-2.83	-66.76	1.58	-2.66	-62.70
84 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁷					(Effect size = ‡)			(Effect size = ‡)	
1–10	‡	‡	‡	‡	‡	‡	‡	‡	‡
11 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	1,970	210	82.43	81.70	-0.73	-0.88	82.05	-0.38	-0.46
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁷					(Effect size = ‡)			(Effect size = ‡)	
0–3	960	80	36.15	36.84	0.69	1.91	38.36	2.21	6.10
4–11	‡	‡	‡	‡	‡	‡	‡	‡	‡
12–21	430	60	26.42	25.50	-0.92	-3.49	26.42	#	#
22 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	710	70	12.27	11.47	-0.80	-6.52	10.53	-1.74	-14.16

See notes at end of table.

Table M-88. Undergraduate student-level study nonresponse bias analysis for selected variables—public less-than-2-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Average amount of grant and scholarship aid received ⁷					(Effect size = ‡)			(Effect size = ‡)	
\$0–\$3,048	270	100	26.79	24.89	-1.89	-7.07	29.08	2.29	8.54
\$3,049–\$3,955	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$3,956–\$5,239	620	80	25.99	26.35	0.35	1.35	25.23	-0.76	-2.93
\$5,240 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	1,010	30	19.77	20.18	0.41	2.05	18.06	-1.71	-8.65

Rounds to zero.

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the student base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the student base weight adjusted for nonresponse) and weighted full-sample mean (using the student base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁷ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-89. Undergraduate student-level study nonresponse bias analysis for selected variables—public 2-year institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Bureau of Economic Analysis region ⁴					(Effect size = ‡)			(Effect size = ‡)	
New England	6,850	2,970	3.86	3.47	-0.39	-10.10	3.74	-0.12	-3.12
Mideast	9,560	4,080	12.49	11.45	-1.04	-8.31	12.50	0.01	0.10
Great Lakes	15,620	2,460	14.31	16.76	2.46*	17.17	14.32	0.01	0.10
Plains	10,500	1,940	7.13	7.89	0.77	10.77	7.19	0.06	0.85
Southeast	27,820	9,490	19.53	19.78	0.26	1.33	19.55	0.02	0.10
Southwest	11,730	3,230	15.27	15.90	0.63	4.15	15.28	0.02	0.10
Rocky Mountains	1,860	1,880	1.07	0.81	-0.26	-24.18	1.07	#	0.10
Far West	13,720	5,210	26.32	23.92	-2.40	-9.12	26.35	0.03	0.10
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡
Federal aid status					(Effect size = 0.33)			(Effect size = 0.27)	
Received	47,330	14,930	43.29	43.90	0.61	1.41	43.43	0.14	0.33
Did not receive	45,820	1,720	38.43	49.55	11.12*	28.95	47.77	9.35*	24.33
Unknown	4,510	16,160	18.29	6.55	-11.74*	-64.18	8.80	-9.49*	-51.90
Direct Loan status					(Effect size = 0.02)			(Effect size = #)	
Received	18,430	5,460	14.36	14.91	0.55	3.85	14.48	0.12	0.85
Did not receive	79,220	27,360	85.64	85.09	-0.55	-0.64	85.52	-0.12	-0.14
Total Direct Loan amount received ⁵					(Effect size = 0.02)			(Effect size = #)	
None	79,220	27,360	85.64	85.09	-0.55	-0.64	85.52	-0.12	-0.14
\$1–\$3,480	4,610	1,360	3.80	3.99	0.18	4.83	3.82	0.01	0.37
\$3,481–\$5,500	6,710	1,830	5.32	5.65	0.32*	6.08	5.42	0.10	1.82
\$5,501–\$7,500	3,220	980	2.21	2.25	0.03	1.58	2.20	-0.01	-0.29
\$7,501 or more	3,890	1,280	3.02	3.03	0.01	0.32	3.04	0.02	0.58
Age as of December 31, 2019					(Effect size = 0.07)			(Effect size = 0.06)	
15–23	55,830	16,600	54.93	56.23	1.30*	2.36	55.24	0.31	0.56
24–29	17,510	6,120	19.03	18.71	-0.32*	-1.70	19.08	0.05	0.28
30 or older	24,280	8,400	25.57	25.04	-0.53*	-2.08	25.65	0.08	0.31
Unknown	20	1,700	0.47	0.03	-0.44*	-94.37	0.03	-0.44*	-94.33

See notes at end of table.

Table M-89. Undergraduate student-level study nonresponse bias analysis for selected variables—public 2-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Institution aid status					(Effect size = 0.43)			(Effect size = 0.33)	
Received	9,350	760	7.31	8.83	1.53*	20.88	7.34	0.03	0.46
Did not receive	81,560	4,080	65.92	83.41	17.48*	26.52	80.49	14.57*	22.10
Unknown	6,740	27,980	26.77	7.76	-19.01*	-71.02	12.16	-14.60*	-54.56
State aid status					(Effect size = 0.40)			(Effect size = 0.30)	
Received	19,670	1,530	17.15	21.10	3.95*	23.04	17.28	0.13	0.76
Did not receive	70,070	3,590	54.58	68.82	14.24*	26.09	67.65	13.07*	23.94
Unknown	7,920	27,690	28.27	10.08	-18.19*	-64.34	15.07	-13.20*	-46.68
Veteran status					(Effect size = 0.01)			(Effect size = #)	
Yes	3,880	1,370	3.93	3.80	-0.13	-3.39	3.91	-0.02	-0.57
No	93,770	31,440	96.07	96.20	0.13	0.14	96.09	0.02	0.02
Race/ethnicity					(Effect size = 0.36)			(Effect size = 0.36)	
American Indian or Alaska Native, not Hispanic or Latino	1,190	280	0.76	0.87	0.11*	13.93	0.82	0.06*	7.25
Asian, not Hispanic or Latino	5,140	710	5.31	6.23	0.92*	17.32	6.58	1.27*	23.87
Black, not Hispanic or Latino	14,080	2,840	12.06	13.64	1.58*	13.07	13.85	1.79*	14.80
Hispanic or Latino, of any race	18,620	3,240	22.01	25.59	3.58*	16.25	25.96	3.95*	17.95
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	360	30	0.34	0.42	0.08*	22.45	0.46	0.12*	35.70
White, not Hispanic or Latino	50,270	7,260	38.78	45.47	6.69*	17.24	44.44	5.66*	14.59
Two or more races, not Hispanic or Latino	4,350	270	3.01	3.73	0.72*	23.98	3.79	0.78*	25.85
Unknown	3,640	18,170	17.72	4.06	-13.66*	-77.11	4.10	-13.62*	-76.85
Gender					(Effect size = 0.14)			(Effect size = 0.13)	
Male	40,630	12,020	41.36	42.41	1.05*	2.54	42.48	1.11*	2.69
Female	56,190	16,560	54.99	56.56	1.57*	2.86	56.39	1.40*	2.54
Unknown	840	4,230	3.64	1.02	-2.62*	-71.89	1.13	-2.51*	-68.87
Institution total undergraduate enrollment ⁵					(Effect size = 0.05)			(Effect size = 0.01)	
1–5,061	23,200	9,500	13.43	13.96	0.53	3.96	13.45	0.02	0.13
5,062–10,341	26,100	6,480	20.70	21.35	0.66	3.18	20.75	0.05	0.24
10,342–19,108	25,750	6,890	28.35	29.71	1.36	4.80	28.91	0.56	1.97
19,109 or more	22,610	9,940	37.52	34.98	-2.55	-6.79	36.90	-0.63	-1.67

See notes at end of table.

Table M-89. Undergraduate student-level study nonresponse bias analysis for selected variables—public 2-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Major					(Effect size = ‡)			(Effect size = ‡)	
Undecided	‡	‡	‡	‡	‡	‡	‡	‡	‡
Humanities	26,850	7,020	26.79	28.86	2.04*	7.61	28.03	1.24	4.63
Social/behavioral sciences	2,350	280	3.13	3.80	0.67*	21.36	3.96	0.83*	26.70
Life sciences	3,730	880	4.64	5.22	0.57*	12.32	5.38	0.74*	15.93
Physical sciences/mathematics	640	170	0.80	0.87	0.07	8.53	0.92	0.12*	15.62
Computer/information science	3,960	710	4.00	4.59	0.58*	14.42	4.67	0.67*	16.67
Engineering	4,030	680	3.74	4.39	0.64*	17.05	4.31	0.57*	15.14
Education	2,950	620	2.67	3.04	0.36*	13.65	3.04	0.38*	14.19
Business/management	10,020	2,150	10.72	12.00	1.27*	11.83	12.06	1.34*	12.49
Health	16,610	3,920	15.34	17.11	1.75*	11.38	17.21	1.87*	12.22
Vocational/technical	5,920	1,320	5.06	5.77	0.70*	13.92	5.68	0.62*	12.31
Other technical/professional	9,390	1,840	9.76	11.14	1.36*	13.97	11.35	1.59*	16.25
Unknown	1,220	11,570	12.20	1.66	-10.39*	-85.15	1.81	-10.39*	-85.16
Degree program (undergraduate only)					(Effect size = ‡)			(Effect size = ‡)	
Certificate	11,240	2,680	9.48	10.65	1.17*	12.38	10.77	1.30*	13.70
Associate's degree	76,470	12,540	71.17	81.49	10.31*	14.49	81.44	10.27*	14.42
Bachelor's degree	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not in a degree program or others	8,020	1,660	6.00	6.39	0.39	6.54	6.40	0.40	6.72
Unknown	1,930	13,480	11.60	1.47	-10.13*	-87.31	1.38	-10.22*	-88.06
Pell Grant status					(Effect size = 0.01)			(Effect size = #)	
Received	37,390	12,150	35.53	35.80	0.27	0.75	35.62	0.09	0.26
Did not receive	60,270	20,660	64.47	64.20	-0.27	-0.41	64.38	-0.09	-0.14
Total Pell amount received*					(Effect size = 0.01)			(Effect size = #)	
None	60,270	20,660	64.47	64.20	-0.27	-0.41	64.38	-0.09	-0.14
\$1–\$3,097	14,060	4,630	13.59	13.59	#	-0.02	13.60	0.01	0.09
\$3,098–\$6,194	14,650	4,630	13.85	14.07	0.21	1.54	13.90	0.05	0.33
\$6,195 or more	8,680	2,900	8.09	8.14	0.05	0.67	8.12	0.03	0.42
Received any aid excluding private loans					(Effect size = 0.34)			(Effect size = 0.28)	
Received	57,610	15,210	52.27	55.54	3.27*	6.26	52.45	0.18	0.35
Did not receive	36,110	690	29.76	38.75	8.98*	30.19	39.13	9.37*	31.48
Unknown	3,930	16,910	17.97	5.72	-12.26*	-68.20	8.42	-9.55*	-53.14

See notes at end of table.

Table M-89. Undergraduate student-level study nonresponse bias analysis for selected variables—public 2-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
First-time beginner status (sampled)					(Effect size = 0.05)			(Effect size = #)	
Yes	17,990	3,960	14.15	16.03	1.88*	13.28	14.21	0.06	0.41
No	79,670	28,850	85.85	83.97	-1.88*	-2.19	85.79	-0.06	-0.07
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁷					(Effect size = ‡)			(Effect size = ‡)	
1–64	36,410	9,880	37.66	39.92	2.26	6.00	38.07	0.41	1.08
65–76	25,840	6,600	26.75	26.25	-0.50	-1.88	25.57	-1.18	-4.42
77–87	18,480	10,190	22.61	20.98	-1.62	-7.18	23.49	0.88	3.89
88 or more	16,850	6,140	12.97	12.84	-0.14	-1.05	12.87	-0.11	-0.83
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁷					(Effect size = 0.05)			(Effect size = 0.05)	
0–39	4,150	520	3.27	4.04	0.77*	23.49	4.02	0.75*	22.86
40–70	3,450	1,040	3.52	3.68	0.16	4.68	3.44	-0.08	-2.28
71–127	3,580	2,100	2.93	3.13	0.19	6.64	3.50	0.57	19.35
128 or more	4,870	1,450	5.26	5.25	-0.02	-0.35	5.20	-0.06	-1.22
Unknown	81,600	27,710	85.02	83.91	-1.11	-1.30	83.85	-1.17	-1.38
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁷					(Effect size = 0.06)			(Effect size = 0.05)	
0–52	10,570	3,440	5.92	6.17	0.25	4.24	5.86	-0.06	-1.09
53–116	18,570	5,580	14.44	14.44	#	-0.03	13.71	-0.73	-5.06
117–242	25,990	7,440	24.10	26.01	1.91*	7.91	25.48	1.38	5.72
243 or more	41,950	15,270	54.36	52.59	-1.77	-3.25	54.14	-0.22	-0.40
Unknown	580	1,090	1.18	0.79	-0.39	-32.70	0.82	-0.36	-30.75

See notes at end of table.

Table M-89. Undergraduate student-level study nonresponse bias analysis for selected variables—public 2-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Average amount of grant and scholarship aid received ⁷					(Effect size = 0.02)			(Effect size = 0.02)	
\$0–\$4,692	19,530	7,310	19.13	19.00	-0.13	-0.70	18.99	-0.14	-0.75
\$4,693–\$5,283	28,040	9,740	29.80	30.52	0.72	2.42	30.41	0.61	2.05
\$5,284–\$5,932	27,870	8,250	28.68	28.29	-0.40	-1.38	27.94	-0.74	-2.58
\$5,933 or more	22,120	7,460	22.37	22.17	-0.20	-0.88	22.63	0.27	1.19
Unknown	100	50	0.02	0.02	#	25.68	0.02	0.01	31.31

Rounds to zero.

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the student base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the student base weight adjusted for nonresponse) and weighted full-sample mean (using the student base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁷ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-90. Undergraduate student-level study nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Bureau of Economic Analysis region ⁴					(Effect size = ‡)			(Effect size = ‡)	
New England	‡	‡	‡	‡	‡	‡	‡	‡	‡
Mideast	870	450	3.11	2.30	-0.80	-25.83	3.06	-0.05	-1.50
Great Lakes	1,960	790	9.32	8.73	-0.59	-6.35	8.81	-0.51	-5.47
Plains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southeast	4,250	420	35.36	38.55	3.19*	9.01	37.17	1.81	5.11
Southwest	2,500	50	13.26	14.70	1.44	10.84	13.08	-0.18	-1.39
Rocky Mountains	1,690	450	7.14	6.84	-0.30	-4.24	7.23	0.09	1.31
Far West	4,020	1,160	30.86	27.80	-3.06	-9.91	29.56	-1.30	-4.21
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡
Federal aid status					(Effect size = 0.19)			(Effect size = 0.18)	
Received	7,360	1,820	44.29	43.80	-0.50	-1.12	44.31	0.02	0.04
Did not receive	8,000	470	48.48	53.74	5.26*	10.84	52.87	4.39*	9.06
Unknown	360	1,020	7.23	2.47	-4.76*	-65.88	2.82	-4.41*	-61.02
Direct Loan status					(Effect size = 0.02)			(Effect size = #)	
Received	3,030	1,000	15.20	14.37	-0.82*	-5.43	15.30	0.11	0.70
Did not receive	12,690	2,310	84.80	85.63	0.82*	0.97	84.70	-0.11	-0.13
Total Direct Loan amount received ⁵					(Effect size = 0.03)			(Effect size = #)	
None	12,690	2,310	84.80	85.63	0.82*	0.97	84.70	-0.11	-0.13
\$1–\$3,500	950	290	5.08	4.90	-0.17	-3.38	5.11	0.03	0.60
\$3,501–\$5,500	930	280	4.36	4.18	-0.19	-4.28	4.39	0.02	0.55
\$5,501–\$7,500	510	220	2.43	2.14	-0.29*	-11.89	2.43	#	-0.07
\$7,501 or more	640	200	3.33	3.15	-0.18	-5.34	3.38	0.05	1.60
Age as of December 31, 2019					(Effect size = ‡)			(Effect size = ‡)	
15–23	9,620	1,800	56.39	57.07	0.69	1.22	56.44	0.05	0.09
24–29	2,680	690	19.74	19.55	-0.19	-0.97	19.80	0.06	0.29
30 or older	3,420	810	23.86	23.38	-0.49	-2.03	23.75	-0.11	-0.47
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-90. Undergraduate student-level study nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Institution aid status					(Effect size = 0.23)			(Effect size = 0.21)	
Received	1,600	430	7.96	7.92	-0.04	-0.45	7.94	-0.02	-0.26
Did not receive	13,590	1,180	82.59	89.38	6.79*	8.22	88.69	6.10*	7.39
Unknown	530	1,700	9.45	2.70	-6.76*	-71.47	3.37	-6.08*	-64.33
State aid status					(Effect size = 0.22)			(Effect size = 0.20)	
Received	3,000	300	18.93	20.14	1.21*	6.37	18.79	-0.14	-0.74
Did not receive	12,220	1,560	71.99	77.20	5.20*	7.23	77.88	5.88*	8.17
Unknown	500	1,450	9.07	2.66	-6.41*	-70.64	3.33	-5.74*	-63.31
Veteran status					(Effect size = #)			(Effect size = #)	
Yes	620	150	4.21	4.19	-0.02	-0.50	4.21	0.01	0.16
No	15,100	3,160	95.79	95.81	0.02	0.02	95.79	-0.01	-0.01
Race/ethnicity					(Effect size = ‡)			(Effect size = ‡)	
American Indian or Alaska Native, not Hispanic or Latino	280	70	1.14	1.19	0.05	3.95	1.32	0.17	15.25
Asian, not Hispanic or Latino	830	120	5.32	5.39	0.07	1.35	5.47	0.15	2.81
Black, not Hispanic or Latino	1,790	300	12.66	13.24	0.58	4.59	13.17	0.51	4.04
Hispanic or Latino, of any race	4,320	290	30.27	32.54	2.28*	7.53	31.33	1.06	3.50
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
White, not Hispanic or Latino	7,230	1,360	39.20	40.14	0.94	2.40	40.88	1.68	4.28
Two or more races, not Hispanic or Latino	680	80	3.45	3.69	0.24*	7.08	3.76	0.31*	9.04
Unknown	530	1,080	7.71	3.53	-4.18*	-54.20	3.80	-3.91*	-50.67
Gender					(Effect size = 0.08)			(Effect size = 0.08)	
Male	6,640	1,220	41.59	42.31	0.72	1.74	42.36	0.77*	1.86
Female	8,980	1,830	56.89	57.13	0.24	0.43	57.04	0.15	0.26
Unknown	100	260	1.52	0.55	-0.97	-63.65	0.60	-0.92	-60.61
Institution total undergraduate enrollment ⁵					(Effect size = 0.10)			(Effect size = 0.06)	
1–7,161	3,770	1,420	13.72	12.00	-1.72*	-12.52	13.53	-0.19	-1.38
7,162–16,680	3,500	880	20.20	19.56	-0.64	-3.17	21.37	1.17	5.82
16,681–37,642	3,780	950	27.54	25.20	-2.33	-8.48	25.09	-2.44	-8.88
37,643 or more	4,670	60	38.54	43.24	4.69*	12.17	40.00	1.46	3.79

See notes at end of table.

Table M-90. Undergraduate student-level study nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Major					(Effect size = ‡)			(Effect size = ‡)	
Undecided	‡	‡	‡	‡	‡	‡	‡	‡	‡
Humanities	4,330	740	30.12	31.64	1.49*	4.94	30.85	0.73	2.41
Social/behavioral sciences	460	90	3.32	3.38	0.06	1.75	3.33	#	0.08
Life sciences	670	130	3.66	3.79	0.13	3.52	3.82	0.16	4.44
Physical sciences/mathematics	90	30	0.64	0.60	-0.04	-6.16	0.59	-0.05	-8.21
Computer/information science	620	120	4.45	4.68	0.23*	5.08	4.69	0.23*	5.22
Engineering	740	80	3.47	3.71	0.24*	6.80	3.69	0.22	6.46
Education	590	110	3.32	3.45	0.13	3.89	3.43	0.10	3.09
Business/management	1,810	280	11.60	12.15	0.54*	4.62	12.17	0.56	4.87
Health	2,690	460	16.69	17.25	0.55	3.29	17.43	0.74	4.46
Vocational/technical	640	80	3.54	3.73	0.19	5.35	3.77	0.23	6.44
Other technical/professional	1,660	260	10.79	11.37	0.57*	5.26	11.37	0.58*	5.34
Unknown	330	840	6.42	2.00	-4.34*	-67.61	2.43	-3.99*	-62.17
Degree program (undergraduate only)					(Effect size = 0.18)			(Effect size = 0.17)	
Certificate	1,370	270	8.89	8.66	-0.24	-2.65	8.96	0.07	0.76
Associate's degree	10,960	1,260	68.90	72.69	3.79*	5.50	71.83	2.93*	4.25
Bachelor's degree	2,620	820	13.96	13.57	-0.39	-2.80	14.01	0.05	0.34
Not in a degree program or others	680	100	4.34	4.56	0.22	5.06	4.65	0.31	7.06
Unknown	80	860	3.90	0.52	-3.38*	-86.75	0.55	-3.35*	-85.94
Pell Grant status					(Effect size = #)			(Effect size = #)	
Received	5,790	1,320	36.34	36.24	-0.10	-0.28	36.20	-0.14	-0.37
Did not receive	9,930	1,990	63.66	63.76	0.10	0.16	63.80	0.14	0.21
Total Pell amount received ⁶					(Effect size = 0.01)			(Effect size = 0.01)	
None	9,930	1,990	63.66	63.76	0.10	0.16	63.80	0.14	0.21
\$1–\$3,097	2,100	500	13.72	13.46	-0.26	-1.87	13.42	-0.29	-2.14
\$3,098–\$6,194	2,320	490	14.56	14.67	0.11	0.73	14.62	0.06	0.41
\$6,195 or more	1,370	330	8.06	8.11	0.05	0.60	8.16	0.10	1.21
Received any aid excluding private loans					(Effect size = 0.20)			(Effect size = 0.19)	
Received	8,800	1,920	52.84	53.22	0.39	0.73	52.73	-0.11	-0.20
Did not receive	6,600	200	40.09	44.63	4.55*	11.34	44.75	4.67*	11.65
Unknown	320	1,180	7.08	2.14	-4.93*	-69.71	2.52	-4.56*	-64.45

See notes at end of table.

Table M-90. Undergraduate student-level study nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
First-time beginner status (sampled)					(Effect size = 0.02)			(Effect size = 0.01)	
Yes	4,410	410	15.77	16.57	0.79*	5.03	15.36	-0.41	-2.62
No	11,320	2,900	84.23	83.43	-0.79*	-0.94	84.64	0.41	0.49
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁷					(Effect size = ‡)			(Effect size = ‡)	
1–59	5,920	1,470	36.30	34.51	-1.79	-4.93	35.23	-1.07	-2.95
60–71	3,750	480	28.69	30.19	1.51	5.25	29.14	0.46	1.59
72–83	3,060	300	19.26	20.52	1.27	6.58	20.20	0.94	4.88
84 or more	2,990	1,040	15.74	14.76	-0.97	-6.19	15.42	-0.32	-2.04
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁷					(Effect size = 0.08)			(Effect size = 0.09)	
0–21	1,240	320	8.70	8.79	0.09	1.00	8.61	-0.09	-1.04
22–75	730	500	4.89	3.14	-1.74	-35.69	3.36	-1.53	-31.30
76–215	1,380	40	4.50	4.78	0.28	6.17	5.66	1.16*	25.84
216 or more	1,020	230	5.48	5.27	-0.22	-3.97	5.22	-0.26	-4.77
Unknown	11,350	2,220	76.43	78.02	1.60	2.09	77.15	0.72	0.94
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁷					(Effect size = 0.13)			(Effect size = 0.07)	
0–71	1,160	810	4.74	3.09	-1.65*	-34.84	3.39	-1.35	-28.42
72–132	3,160	950	13.27	12.55	-0.72	-5.42	13.70	0.43	3.27
133–347	3,770	980	20.66	17.56	-3.10*	-15.00	19.50	-1.16	-5.62
348 or more	7,610	510	61.27	66.78	5.52*	9.01	63.37	2.10	3.43
Unknown	30	70	0.07	0.02	-0.05	-69.63	0.04	-0.03	-44.14

See notes at end of table.

Table M-90. Undergraduate student-level study nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Average amount of grant and scholarship aid received ⁷					(Effect size = ‡)			(Effect size = ‡)	
\$0–\$4,914	3,240	1,280	18.80	18.44	-0.36	-1.94	18.90	0.10	0.52
\$4,915–\$5,564	4,430	290	24.68	26.36	1.68	6.79	24.67	-0.01	-0.06
\$5,565–\$6,239	3,090	930	28.06	25.75	-2.31	-8.22	26.64	-1.42	-5.07
\$6,240 or more	4,950	800	28.44	29.44	1.00	3.53	29.78	1.34	4.72
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the student base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the student base weight adjusted for nonresponse) and weighted full-sample mean (using the student base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁷ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-91. Undergraduate student-level study nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Bureau of Economic Analysis region ⁴					(Effect size = 0.10)		(Effect size = 0.04)		
New England	2,340	260	8.37	9.52	1.15*	13.70	8.39	0.02	0.27
Mideast	3,660	2,090	21.18	17.67	-3.51*	-16.55	20.80	-0.38	-1.82
Great Lakes	880	110	6.77	7.84	1.08	15.95	7.10	0.33	4.89
Plains	1,330	320	7.12	7.17	0.04	0.58	6.92	-0.21	-2.92
Southeast	3,040	660	20.30	20.67	0.38	1.86	20.01	-0.29	-1.44
Southwest	1,310	400	6.78	6.75	-0.02	-0.36	6.02	-0.76	-11.14
Rocky Mountains	1,260	270	11.88	12.90	1.01	8.54	12.52	0.63	5.32
Far West	2,040	530	15.73	15.73	#	#	16.44	0.71	4.51
Outlying Areas	540	200	1.87	1.75	-0.13	-6.87	1.82	-0.05	-2.92
Federal aid status					(Effect size = 0.20)		(Effect size = 0.15)		
Received	9,700	3,480	60.48	58.18	-2.30*	-3.80	60.60	0.13	0.21
Did not receive	6,170	370	32.29	38.84	6.55*	20.28	35.92	3.64*	11.26
Unknown	520	980	7.24	2.99	-4.25*	-58.71	3.47	-3.76*	-52.02
Direct Loan status					(Effect size = #)		(Effect size = 0.01)		
Received	6,650	2,130	39.99	39.80	-0.20	-0.49	40.33	0.33	0.84
Did not receive	9,730	2,710	60.01	60.20	0.20	0.33	59.67	-0.33	-0.56
Total Direct Loan amount received ⁵					(Effect size = 0.01)		(Effect size = 0.01)		
None	9,730	2,710	60.01	60.20	0.20	0.33	59.67	-0.33	-0.56
\$1–\$4,841	1,660	530	10.03	9.91	-0.11	-1.12	10.02	#	-0.01
\$4,842–\$6,098	1,740	450	9.70	9.97	0.27	2.77	9.93	0.23	2.34
\$6,099–\$7,500	1,980	740	12.56	12.32	-0.24	-1.88	12.47	-0.09	-0.70
\$7,501 or more	1,270	410	7.71	7.59	-0.12	-1.51	7.90	0.20	2.55
Age as of December 31, 2019					(Effect size = ‡)		(Effect size = ‡)		
15–23	11,740	3,560	70.78	70.93	0.15	0.21	70.59	-0.19	-0.27
24–29	2,270	700	15.43	15.02	-0.41	-2.68	15.43	#	0.03
30 or older	2,380	570	13.78	14.05	0.27	1.99	13.97	0.19	1.41
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-91. Undergraduate student-level study nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Institution aid status					(Effect size = 0.25)			(Effect size = 0.20)	
Received	5,500	1,240	29.42	30.99	1.57	5.34	29.83	0.42	1.42
Did not receive	9,880	1,290	56.32	63.43	7.10*	12.61	62.76	6.43*	11.42
Unknown	1,010	2,310	14.26	5.59	-8.67*	-60.83	7.41	-6.85*	-48.04
State aid status					(Effect size = 0.26)			(Effect size = 0.21)	
Received	4,250	1,050	25.45	26.64	1.19	4.67	25.75	0.30	1.18
Did not receive	11,120	1,390	59.74	67.58	7.84*	13.12	66.58	6.84*	11.45
Unknown	1,020	2,390	14.80	5.78	-9.03*	-60.99	7.66	-7.14*	-48.23
Veteran status					(Effect size = #)			(Effect size = #)	
Yes	520	120	2.76	2.74	-0.01	-0.48	2.74	-0.02	-0.63
No	15,860	4,720	97.24	97.26	0.01	0.01	97.26	0.02	0.02
Race/ethnicity					(Effect size = ‡)			(Effect size = ‡)	
American Indian or Alaska Native, not Hispanic or Latino	180	50	0.95	1.04	0.09	9.75	1.06	0.11	11.57
Asian, not Hispanic or Latino	1,010	310	6.03	5.80	-0.22	-3.73	6.31	0.28	4.71
Black, not Hispanic or Latino	1,830	570	11.84	11.27	-0.57	-4.78	12.27	0.43	3.63
Hispanic or Latino, of any race	2,830	670	17.62	18.53	0.91	5.19	18.57	0.95	5.39
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
White, not Hispanic or Latino	9,360	1,780	52.43	57.17	4.74*	9.04	55.59	3.16*	6.02
Two or more races, not Hispanic or Latino	680	80	3.37	3.72	0.35*	10.41	3.77	0.40*	11.76
Unknown	460	1,370	7.58	2.24	-5.34*	-70.44	2.23	-5.36*	-70.63
Gender					(Effect size = ‡)			(Effect size = ‡)	
Male	6,900	2,170	43.12	42.63	-0.49	-1.13	42.74	-0.38	-0.88
Female	9,380	2,640	56.22	56.73	0.51	0.91	56.62	0.40	0.71
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Institution total undergraduate enrollment ⁵					(Effect size = 0.04)			(Effect size = 0.03)	
1–3,497	3,910	1,500	13.64	13.35	-0.29	-2.15	14.09	0.45	3.31
3,498–5,811	4,540	860	20.16	21.69	1.53	7.61	20.54	0.38	1.90
5,812–11,049	3,950	1,230	30.66	30.13	-0.53	-1.72	29.57	-1.09	-3.56
11,050 or more	3,990	1,260	35.54	34.83	-0.71	-2.00	35.80	0.26	0.73

See notes at end of table.

Table M-91. Undergraduate student-level study nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Major					(Effect size = ‡)			(Effect size = ‡)	
Undecided	‡	‡	‡	‡	‡	‡	‡	‡	‡
Humanities	2,200	790	14.20	13.72	-0.48	-3.37	13.62	-0.58	-4.08
Social/behavioral sciences	1,750	440	10.92	11.28	0.36	3.29	11.36	0.44*	4.00
Life sciences	1,920	460	11.28	11.84	0.56*	4.93	11.65	0.37	3.29
Physical sciences/mathematics	380	90	2.28	2.45	0.16*	7.09	2.50	0.21*	9.38
Computer/information science	720	230	5.02	4.82	-0.19	-3.86	5.06	0.04	0.83
Engineering	880	250	5.17	5.47	0.30	5.82	5.44	0.27	5.23
Education	1,280	350	7.55	7.69	0.14	1.92	7.69	0.14	1.86
Business/management	2,690	640	16.69	17.49	0.79*	4.76	17.39	0.70*	4.19
Health	1,610	440	8.70	8.91	0.21	2.37	8.72	0.02	0.24
Vocational/technical	270	70	1.58	1.63	0.05	3.20	1.65	0.07	4.66
Other technical/professional	1,890	410	11.86	12.45	0.59*	4.97	12.67	0.82*	6.89
Unknown	100	580	3.47	0.67	-2.79*	-80.40	0.68	-2.79*	-80.50
Degree program (undergraduate only)					(Effect size = 0.18)			(Effect size = 0.18)	
Certificate	140	30	0.75	0.78	0.03	4.60	0.72	-0.02	-3.13
Associate's degree	790	330	4.55	4.31	-0.24	-5.21	4.46	-0.08	-1.82
Bachelor's degree	15,010	3,670	89.52	92.78	3.27*	3.65	92.79	3.27*	3.66
Not in a degree program or others	400	90	1.83	1.91	0.09	4.77	1.83	#	0.16
Unknown	40	720	3.37	0.21	-3.15*	-93.63	0.19	-3.17*	-94.21
Pell Grant status					(Effect size = 0.04)			(Effect size = 0.01)	
Received	6,090	2,390	39.40	37.20	-2.19*	-5.56	39.68	0.29	0.73
Did not receive	10,300	2,450	60.60	62.80	2.19*	3.61	60.32	-0.29	-0.47
Total Pell amount received ⁶					(Effect size = 0.05)			(Effect size = 0.01)	
None	10,300	2,450	60.60	62.80	2.19*	3.61	60.32	-0.29	-0.47
\$1–\$3,097	1,640	560	10.39	10.12	-0.27	-2.56	10.49	0.10	1.00
\$3,098–\$6,194	2,130	820	13.89	13.19	-0.70*	-5.05	14.01	0.12	0.85
\$6,195 or more	2,320	1,010	15.11	13.89	-1.22*	-8.09	15.17	0.06	0.42
Received any aid excluding private loans					(Effect size = 0.19)			(Effect size = 0.17)	
Received	12,350	3,630	73.90	74.27	0.37	0.51	74.20	0.30	0.41
Did not receive	3,650	220	19.44	23.45	4.02*	20.67	22.95	3.52*	18.10
Unknown	380	990	6.67	2.28	-4.39*	-65.86	2.85	-3.82*	-57.28

See notes at end of table.

Table M-91. Undergraduate student-level study nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
First-time beginner status (sampled)					(Effect size = 0.04)			(Effect size = 0.01)	
Yes	3,090	400	14.05	15.58	1.53*	10.87	14.36	0.30	2.16
No	13,290	4,430	85.95	84.42	-1.53*	-1.78	85.64	-0.30	-0.35
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁷					(Effect size = 0.09)			(Effect size = 0.03)	
1–72	4,750	790	28.76	31.51	2.75*	9.57	29.57	0.81	2.80
73–85	4,890	2,090	32.44	28.91	-3.53*	-10.87	31.35	-1.09	-3.35
86–92	2,860	770	21.70	21.87	0.17	0.77	21.93	0.23	1.06
93 or more	3,030	610	13.35	14.35	1.00	7.52	13.69	0.34	2.52
None or unknown	860	570	3.75	3.35	-0.40	-10.58	3.46	-0.29	-7.64
Number of full-time, first-time undergraduate students living on campus ⁷					(Effect size = 0.04)			(Effect size = 0.03)	
0–138	2,830	980	11.61	10.76	-0.85	-7.30	12.19	0.59	5.07
139–241	1,560	770	11.76	11.22	-0.54	-4.60	11.30	-0.46	-3.88
242–550	3,140	420	16.69	17.40	0.71	4.25	16.60	-0.09	-0.52
551 or more	4,270	1,330	36.26	36.37	0.12	0.32	35.58	-0.67	-1.86
Unknown	4,580	1,340	23.68	24.25	0.56	2.37	24.31	0.63	2.65
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁷					(Effect size = 0.06)			(Effect size = 0.06)	
0–56	3,300	380	11.11	12.26	1.15	10.39	12.40	1.30*	11.66
57–111	2,530	630	12.16	13.13	0.97	7.99	12.37	0.20	1.67
112–219	3,500	1,120	24.21	24.24	0.03	0.14	23.73	-0.48	-1.99
220 or more	6,280	2,130	49.67	48.12	-1.55	-3.13	49.41	-0.26	-0.53
Unknown	790	580	2.85	2.24	-0.61	-21.24	2.10	-0.75*	-26.48

See notes at end of table.

Table M-91. Undergraduate student-level study nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Average amount of grant and scholarship aid received ⁷					(Effect size = 0.06)			(Effect size = 0.06)	
\$0–\$6,185	4,320	860	26.46	28.32	1.87	7.05	27.78	1.33	5.02
\$6,186–\$7,466	3,990	1,400	26.75	26.16	-0.59	-2.19	24.31	-2.44	-9.11
\$7,467–\$8,904	3,540	710	16.15	17.01	0.85	5.28	17.17	1.01	6.28
\$8,905 or more	3,640	1,300	26.85	25.10	-1.75	-6.51	27.23	0.38	1.42
Unknown	910	570	3.80	3.41	-0.38	-10.14	3.51	-0.29	-7.55

Rounds to zero.

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the student base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the student base weight adjusted for nonresponse) and weighted full-sample mean (using the student base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁷ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-92. Undergraduate student-level study nonresponse bias analysis for selected variables—public 4-year, doctorate-granting institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Bureau of Economic Analysis region ⁴					(Effect size = 0.07)			(Effect size = 0.02)	
New England	3,730	170	2.68	2.87	0.18	6.82	2.72	0.03	1.18
Mideast	10,460	4,700	13.04	11.26	-1.78*	-13.65	13.20	0.16	1.22
Great Lakes	11,100	780	15.42	16.26	0.84*	5.45	15.55	0.13	0.83
Plains	7,380	540	7.02	7.46	0.43*	6.18	7.13	0.11	1.58
Southeast	20,390	2,530	28.60	28.46	-0.14	-0.49	28.07	-0.53	-1.85
Southwest	9,550	470	12.44	13.29	0.85*	6.79	12.61	0.17	1.38
Rocky Mountains	3,860	1,220	4.68	4.19	-0.50	-10.59	4.52	-0.17	-3.55
Far West	8,680	750	15.59	15.77	0.18	1.15	15.68	0.09	0.56
Outlying Areas	780	230	0.52	0.45	-0.07	-12.77	0.53	0.01	1.23
Federal aid status					(Effect size = 0.14)			(Effect size = 0.12)	
Received	41,490	7,740	54.42	52.96	-1.46*	-2.68	54.23	-0.19	-0.35
Did not receive	33,030	670	41.30	45.26	3.96*	9.58	43.79	2.49*	6.02
Unknown	1,400	2,970	4.28	1.78	-2.50*	-58.33	1.98	-2.30*	-53.65
Direct Loan status					(Effect size = 0.02)			(Effect size = #)	
Received	30,140	5,490	38.24	37.24	-1.00*	-2.63	38.13	-0.10	-0.27
Did not receive	45,790	5,890	61.76	62.76	1.00*	1.63	61.87	0.10	0.17
Total Direct Loan amount received ⁵					(Effect size = 0.02)			(Effect size = 0.01)	
None	45,790	5,890	61.76	62.76	1.00*	1.63	61.87	0.10	0.17
\$1–\$5,450	7,540	1,370	9.63	9.43	-0.21*	-2.14	9.50	-0.14	-1.40
\$5,451–\$6,500	10,780	1,930	13.77	13.44	-0.32*	-2.35	13.77	0.01	0.06
\$6,501–\$7,500	6,530	1,110	8.50	8.31	-0.19	-2.24	8.59	0.09	1.01
\$7,501 or more	5,290	1,070	6.34	6.05	-0.28*	-4.48	6.27	-0.06	-0.99
Age as of December 31, 2019					(Effect size = ‡)			(Effect size = ‡)	
15–23	59,670	8,170	79.13	79.71	0.58*	0.73	79.34	0.21	0.27
24–29	8,990	1,700	12.08	11.73	-0.35*	-2.90	12.00	-0.08	-0.65
30 or older	7,270	1,490	8.74	8.54	-0.20	-2.27	8.64	-0.10	-1.16
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-92. Undergraduate student-level study nonresponse bias analysis for selected variables—public 4-year, doctorate-granting institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Institution aid status					(Effect size = 0.19)			(Effect size = 0.16)	
Received	30,340	2,500	38.03	39.74	1.71*	4.51	38.13	0.10	0.27
Did not receive	43,830	3,100	55.08	58.15	3.07*	5.57	58.91	3.83*	6.96
Unknown	1,760	5,770	6.89	2.11	-4.78*	-69.38	2.96	-3.93*	-57.08
State aid status					(Effect size = 0.18)			(Effect size = 0.14)	
Received	19,510	2,050	26.27	26.90	0.63	2.41	26.15	-0.12	-0.44
Did not receive	54,470	3,680	66.82	70.61	3.80*	5.69	70.55	3.73*	5.58
Unknown	1,950	5,650	6.92	2.48	-4.43*	-64.08	3.30	-3.61*	-52.24
Veteran status					(Effect size = #)			(Effect size = #)	
Yes	1,990	330	2.42	2.40	-0.02	-0.92	2.43	0.01	0.34
No	73,940	11,050	97.58	97.60	0.02	0.02	97.57	-0.01	-0.01
Race/ethnicity					(Effect size = 0.10)			(Effect size = 0.09)	
American Indian or Alaska Native, not Hispanic or Latino	450	50	0.40	0.42	0.02*	4.71	0.41	0.01	1.39
Asian, not Hispanic or Latino	6,090	720	9.31	9.53	0.21	2.30	9.59	0.28	2.99
Black, not Hispanic or Latino	8,450	1,810	10.40	10.16	-0.23	-2.24	10.45	0.05	0.51
Hispanic or Latino, of any race	12,060	1,360	17.25	17.57	0.32	1.84	17.59	0.33	1.94
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	150	30	0.22	0.20	-0.02	-8.76	0.21	-0.02	-7.41
White, not Hispanic or Latino	41,640	4,060	51.01	52.83	1.82*	3.56	52.47	1.46*	2.86
Two or more races, not Hispanic or Latino	3,690	200	4.40	4.67	0.27*	6.03	4.67	0.27*	6.14
Unknown	3,390	3,150	7.00	4.62	-2.38*	-34.01	4.61	-2.39*	-34.09
Gender					(Effect size = 0.03)			(Effect size = 0.03)	
Male	34,180	4,820	45.71	45.87	0.15	0.34	46.00	0.28*	0.61
Female	41,360	6,050	53.43	53.53	0.10	0.19	53.40	-0.02	-0.05
Unknown	390	510	0.86	0.61	-0.25	-29.58	0.60	-0.26	-29.74
Institution total undergraduate enrollment ⁵					(Effect size = 0.04)			(Effect size = 0.01)	
1–10,836	18,170	4,020	16.70	15.79	-0.91*	-5.46	16.69	-0.01	-0.07
10,837–18,332	17,600	3,920	20.48	19.49	-1.00	-4.88	20.17	-0.31	-1.54
18,333–28,789	20,130	1,800	26.65	27.37	0.73	2.73	27.17	0.53	1.98
28,790 or more	20,030	1,640	36.17	37.35	1.18	3.27	35.97	-0.20	-0.55

See notes at end of table.

Table M-92. Undergraduate student-level study nonresponse bias analysis for selected variables—public 4-year, doctorate-granting institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Major					(Effect size = ‡)			(Effect size = ‡)	
Undecided	‡	‡	‡	‡	‡	‡	‡	‡	‡
Humanities	8,260	1,590	11.27	11.11	-0.17	-1.47	11.25	-0.02	-0.19
Social/behavioral sciences	7,720	1,040	11.05	11.17	0.12	1.05	11.22	0.17*	1.52
Life sciences	10,600	1,210	14.13	14.40	0.27*	1.90	14.34	0.21*	1.49
Physical sciences/mathematics	2,030	260	2.95	2.98	0.03	1.13	3.00	0.05	1.71
Computer/information science	3,750	440	5.33	5.50	0.17*	3.17	5.51	0.18*	3.34
Engineering	7,170	850	9.69	9.95	0.26*	2.69	9.90	0.22	2.23
Education	3,650	500	4.33	4.40	0.07	1.67	4.38	0.05	1.18
Business/management	12,130	1,600	15.98	16.16	0.18	1.15	16.15	0.17	1.05
Health	7,850	1,080	9.19	9.17	-0.02	-0.20	9.19	#	0.04
Vocational/technical	690	60	0.81	0.84	0.03	3.47	0.84	0.03	3.67
Other technical/professional	8,640	1,120	11.20	11.37	0.17	1.55	11.35	0.15	1.34
Unknown	330	1,320	1.82	0.44	-1.38*	-76.19	0.43	-1.38*	-76.10
Degree program (undergraduate only)					(Effect size = 0.10)			(Effect size = 0.10)	
Certificate	890	330	1.36	1.33	-0.03	-1.94	1.34	-0.02	-1.20
Associate's degree	1,420	790	1.59	1.41	-0.18*	-11.05	1.52	-0.07	-4.33
Bachelor's degree	71,980	8,440	93.98	95.44	1.46*	1.55	95.37	1.39*	1.47
Not in a degree program or others	1,300	310	1.44	1.41	-0.03	-2.07	1.38	-0.06	-4.18
Unknown	340	1,500	1.63	0.40	-1.22*	-75.27	0.39	-1.24*	-76.30
Pell Grant status					(Effect size = 0.02)			(Effect size = #)	
Received	23,920	4,690	32.10	31.08	-1.02*	-3.18	31.86	-0.23	-0.72
Did not receive	52,010	6,680	67.90	68.92	1.02*	1.50	68.14	0.23	0.34
Total Pell amount received ⁶					(Effect size = 0.02)			(Effect size = 0.01)	
None	52,010	6,680	67.90	68.92	1.02*	1.50	68.14	0.23	0.34
\$1–\$3,189	7,330	1,500	9.45	9.13	-0.31*	-3.33	9.37	-0.07	-0.79
\$3,190–\$6,194	7,380	1,450	9.95	9.63	-0.32*	-3.18	9.84	-0.11	-1.12
\$6,195 or more	9,210	1,740	12.70	12.31	-0.39*	-3.07	12.66	-0.05	-0.36
Received any aid excluding private loans					(Effect size = 0.14)			(Effect size = 0.13)	
Received	56,330	8,020	72.41	72.64	0.23	0.32	72.24	-0.17	-0.23
Did not receive	18,770	450	24.03	26.30	2.27*	9.45	26.43	2.40*	9.99
Unknown	820	2,910	3.56	1.06	-2.50*	-70.30	1.33	-2.23*	-62.75

See notes at end of table.

Table M-92. Undergraduate student-level study nonresponse bias analysis for selected variables—public 4-year, doctorate-granting institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
First-time beginner status (sampled)					(Effect size = 0.02)			(Effect size = #)	
Yes	11,380	1,110	14.31	15.07	0.76*	5.28	14.31	#	0.03
No	64,550	10,270	85.69	84.93	-0.76*	-0.88	85.69	#	-0.01
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁷					(Effect size = 0.06)			(Effect size = 0.04)	
1–69	19,800	1,780	31.21	33.12	1.92*	6.14	32.21	1.00	3.20
70–81	19,850	4,080	24.89	24.13	-0.76	-3.05	24.53	-0.37	-1.47
82–90	20,350	3,330	27.34	25.91	-1.43	-5.23	26.55	-0.79	-2.88
91 or more	15,210	1,550	15.90	16.47	0.57	3.58	16.31	0.40	2.54
None or unknown	720	650	0.66	0.36	-0.30	-44.79	0.41	-0.25	-37.90
Number of full-time, first-time undergraduate students living on campus ⁷					(Effect size = 0.04)			(Effect size = 0.02)	
0–465	10,780	1,970	10.95	10.33	-0.62	-5.69	10.94	-0.02	-0.17
466–900	15,270	2,450	16.36	15.54	-0.83	-5.05	15.83	-0.53	-3.25
901–1,551	17,840	3,180	25.53	25.42	-0.10	-0.41	25.52	#	-0.01
1,552 or more	27,240	1,820	42.26	43.98	1.73*	4.08	42.67	0.41	0.97
Unknown	4,790	1,960	4.90	4.73	-0.17	-3.51	5.04	0.14	2.89
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁷					(Effect size = 0.01)			(Effect size = 0.01)	
0–181	13,510	2,160	10.63	10.84	0.20	1.88	10.97	0.34	3.16
182–330	15,800	3,090	20.84	20.83	-0.01	-0.03	20.67	-0.17	-0.81
331–508	21,250	2,320	27.42	27.76	0.34	1.24	27.51	0.09	0.32
509 or more	22,460	3,060	38.27	37.89	-0.38	-1.00	37.94	-0.34	-0.88
Unknown	2,890	750	2.83	2.68	-0.15	-5.37	2.91	0.08	2.95

See notes at end of table.

Table M-92. Undergraduate student-level study nonresponse bias analysis for selected variables—public 4-year, doctorate-granting institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Average amount of grant and scholarship aid received ⁷					(Effect size = 0.03)			(Effect size = 0.02)	
\$0–\$7,027	19,530	4,150	21.03	20.94	-0.09	-0.44	21.30	0.27	1.29
\$7,028–\$8,427	17,070	2,010	19.35	19.35	-0.01	-0.03	19.35	#	#
\$8,428–\$9,919	19,480	2,800	28.80	28.51	-0.29	-1.01	28.78	-0.02	-0.06
\$9,920 or more	18,020	1,750	29.61	30.25	0.64	2.15	29.62	0.01	0.02
Unknown	1,840	660	1.21	0.96	-0.25	-20.43	0.95	-0.26	-21.29

Rounds to zero.

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the student base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the student base weight adjusted for nonresponse) and weighted full-sample mean (using the student base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁷ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-93. Undergraduate student-level study nonresponse bias analysis for selected variables—private nonprofit less-than-4-year institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Bureau of Economic Analysis region ⁴					(Effect size = ‡)			(Effect size = ‡)	
New England	240	240	24.93	12.57	-12.36	-49.59	16.07	-8.86	-35.55
Mideast	‡	‡	‡	‡	‡	‡	‡	‡	‡
Great Lakes	‡	‡	‡	‡	‡	‡	‡	‡	‡
Plains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southeast	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southwest	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rocky Mountains	380	70	5.24	5.23	-0.01	-0.18	5.20	-0.04	-0.75
Far West	‡	‡	‡	‡	‡	‡	‡	‡	‡
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡
Federal aid status					(Effect size = ‡)			(Effect size = ‡)	
Received	750	190	62.17	65.95	3.78	6.08	66.82	4.65	7.48
Did not receive	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	80	140	14.50	6.18	-8.32	-57.39	7.17	-7.34	-50.59
Direct Loan status					(Effect size = 0.14)			(Effect size = 0.11)	
Received	480	30	37.84	44.56	6.72	17.76	43.21	5.37*	14.18
Did not receive	900	290	62.16	55.44	-6.72	-10.81	56.79	-5.37*	-8.63
Total Direct Loan amount received ⁵					(Effect size = ‡)			(Effect size = ‡)	
None	900	290	62.16	55.44	-6.72	-10.81	56.79	-5.37*	-8.63
\$1–\$4,731	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$4,732–\$6,750	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$6,751–\$9,500	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$9,501 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Age as of December 31, 2019					(Effect size = ‡)			(Effect size = ‡)	
15–23	650	100	36.38	38.86	2.48	6.81	38.30	1.92*	5.27
24–29	350	50	26.99	29.08	2.09	7.73	28.15	1.15	4.27
30 or older	380	170	36.63	32.06	-4.57	-12.46	33.56	-3.07*	-8.38
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-93. Undergraduate student-level study nonresponse bias analysis for selected variables—private nonprofit less-than-4-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Institution aid status					(Effect size = 0.29)			(Effect size = 0.21)	
Received	310	50	7.26	7.86	0.60	8.20	6.82	-0.44	-6.04
Did not receive	910	50	68.03	79.84	11.80	17.35	77.32	9.29	13.65
Unknown	160	230	24.71	12.31	-12.40	-50.18	15.86	-8.85	-35.81
State aid status					(Effect size = ‡)			(Effect size = ‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	900	80	51.38	60.34	8.96	17.45	57.89	6.51	12.68
Unknown	330	240	33.01	21.02	-11.99	-36.32	24.87	-8.14	-24.66
Veteran status					(Effect size = ‡)			(Effect size = ‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡
No	1,290	320	93.62	92.60	-1.02	-1.09	93.24	-0.38	-0.40
Race/ethnicity					(Effect size = ‡)			(Effect size = ‡)	
American Indian or Alaska Native, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
Asian, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
Black, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
Hispanic or Latino, of any race	‡	‡	‡	‡	‡	‡	‡	‡	‡
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
White, not Hispanic or Latino	700	60	43.56	50.81	7.24	16.62	49.21	5.65	12.97
Two or more races, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	50	230	18.14	4.46	-13.68	-75.41	4.51	-13.63	-75.13
Gender					(Effect size = 0.25)			(Effect size = 0.25)	
Male	620	50	30.41	34.28	3.86	12.70	34.12	3.71	12.20
Female	750	170	62.80	65.15	2.36	3.75	65.29	2.49	3.96
Unknown	10	100	6.79	0.57	-6.22	-91.60	0.59	-6.20	-91.33
Institution total undergraduate enrollment ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–261	‡	‡	‡	‡	‡	‡	‡	‡	‡
262–1,260	‡	‡	‡	‡	‡	‡	‡	‡	‡
1,261 or more	530	300	29.84	17.41	-12.43	-41.65	20.94	-8.90	-29.83

See notes at end of table.

Table M-93. Undergraduate student-level study nonresponse bias analysis for selected variables—private nonprofit less-than-4-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Major					(Effect size = ‡)			(Effect size = ‡)	
Undecided	‡	‡	‡	‡	‡	‡	‡	‡	‡
Humanities	210	60	3.28	2.60	-0.68*	-20.85	2.55	-0.73*	-22.26
Social/behavioral sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡
Life sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡
Physical sciences/mathematics	‡	‡	‡	‡	‡	‡	‡	‡	‡
Computer/information science	‡	‡	‡	‡	‡	‡	‡	‡	‡
Engineering	‡	‡	‡	‡	‡	‡	‡	‡	‡
Education	90	100	12.84	7.42	-5.41	-42.12	10.00	-2.84*	-22.14
Business/management	‡	‡	‡	‡	‡	‡	‡	‡	‡
Health	‡	‡	‡	‡	‡	‡	‡	‡	‡
Vocational/technical	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other technical/professional	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	30	110	8.28	1.94	-6.32	-76.40	2.24	-6.04	-72.98
Degree program (undergraduate only)					(Effect size = ‡)			(Effect size = ‡)	
Certificate	460	50	39.43	45.62	6.19	15.70	44.93	5.50	13.94
Associate's degree	910	140	50.77	53.92	3.15	6.21	54.50	3.73	7.35
Bachelor's degree	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not in a degree program or others	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	#	130	8.97	#	-8.97	-99.96	#	-8.97	-99.97
Pell Grant status					(Effect size = 0.01)			(Effect size = 0.04)	
Received	530	170	41.25	41.50	0.25	0.61	43.10	1.86	4.50
Did not receive	850	160	58.75	58.50	-0.25	-0.43	56.90	-1.86	-3.16
Total Pell amount received ⁶					(Effect size = 0.07)			(Effect size = 0.05)	
None	850	160	58.75	58.50	-0.25	-0.43	56.90	-1.86	-3.16
\$1–\$3,072	180	80	15.22	13.47	-1.75	-11.51	14.87	-0.35	-2.31
\$3,073–\$6,194	200	60	13.57	13.88	0.32	2.33	14.61	1.04	7.69
\$6,195 or more	150	30	12.45	14.14	1.69	13.55	13.62	1.16	9.34

See notes at end of table.

Table M-93. Undergraduate student-level study nonresponse bias analysis for selected variables—private nonprofit less-than-4-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Received any aid excluding private loans					(Effect size = ‡)			(Effect size = ‡)	
Received	940	190	69.18	74.31	5.13	7.41	73.97	4.79	6.92
Did not receive	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	70	130	13.93	5.52	-8.42	-60.40	6.60	-7.33	-52.63
First-time beginner status (sampled)					(Effect size = 0.01)			(Effect size = 0.04)	
Yes	530	150	14.01	13.50	-0.50	-3.59	12.77	-1.24	-8.85
No	840	170	85.99	86.50	0.50	0.59	87.23	1.24	1.44
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁷					(Effect size = ‡)			(Effect size = ‡)	
1–75	830	70	64.38	75.88	11.51	17.88	72.05	7.67	11.92
76–90	‡	‡	‡	‡	‡	‡	‡	‡	‡
91–100	260	230	26.46	14.40	-12.06	-45.57	18.00	-8.46	-31.98
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁷					(Effect size = ‡)			(Effect size = ‡)	
0–11	380	230	59.44	53.79	-5.64	-9.49	56.07	-3.37	-5.66
12–34	‡	‡	‡	‡	‡	‡	‡	‡	‡
35 or more	540	70	23.05	26.51	3.46	15.01	24.63	1.58	6.86
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-93. Undergraduate student-level study nonresponse bias analysis for selected variables—private nonprofit less-than-4-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Average amount of grant and scholarship aid received ⁷					(Effect size = ‡)			(Effect size = ‡)	
\$0–\$4,895	380	70	5.24	5.23	-0.01	-0.18	5.20	-0.04	-0.75
\$4,896–\$5,425	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$5,426–\$5,995	450	230	75.50	72.99	-2.51	-3.32	73.48	-2.02	-2.68
\$5,996 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the student base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the student base weight adjusted for nonresponse) and weighted full-sample mean (using the student base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁷ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-94. Undergraduate student-level study nonresponse bias analysis for selected variables—private nonprofit 4-year, non-doctorate-granting institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Bureau of Economic Analysis region ⁴					(Effect size = ‡)			(Effect size = ‡)	
New England	4,360	470	10.05	10.21	0.16	1.59	9.74	-0.31	-3.06
Mideast	1,870	130	16.12	17.37	1.25	7.76	17.15	1.03*	6.42
Great Lakes	2,230	250	15.58	17.14	1.56	10.02	15.72	0.14	0.91
Plains	2,670	860	11.08	10.40	-0.68	-6.14	10.65	-0.43	-3.88
Southeast	4,410	1,240	18.62	17.86	-0.77	-4.12	18.18	-0.45	-2.39
Southwest	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rocky Mountains	1,680	1,210	19.81	17.63	-2.17	-10.96	19.80	#	-0.02
Far West	550	70	2.71	2.94	0.23	8.62	2.68	-0.03	-1.08
Outlying Areas	830	130	4.14	4.26	0.12	2.82	4.02	-0.11	-2.75
Federal aid status					(Effect size = 0.20)			(Effect size = 0.09)	
Received	12,550	2,620	62.81	63.69	0.89	1.42	62.67	-0.13	-0.21
Did not receive	5,920	50	28.91	33.39	4.48*	15.49	31.20	2.28*	7.90
Unknown	520	1,690	8.28	2.91	-5.37*	-64.81	6.13	-2.15*	-26.00
Direct Loan status					(Effect size = 0.02)			(Effect size = #)	
Received	9,980	2,000	48.99	50.12	1.13	2.31	48.92	-0.07	-0.14
Did not receive	9,010	2,350	51.01	49.88	-1.13	-2.22	51.08	0.07	0.14
Total Direct Loan amount received ⁵					(Effect size = 0.02)			(Effect size = 0.01)	
None	9,010	2,350	51.01	49.88	-1.13	-2.22	51.08	0.07	0.14
\$1–\$5,500	4,260	800	20.68	21.27	0.59	2.86	20.51	-0.17	-0.81
\$5,501–\$6,500	1,570	310	7.72	7.84	0.11	1.44	7.77	0.04	0.54
\$6,501–\$7,500	2,120	410	10.16	10.41	0.25	2.48	10.25	0.09	0.86
\$7,501 or more	2,040	470	10.42	10.60	0.18	1.69	10.39	-0.03	-0.31
Age as of December 31, 2019					(Effect size = ‡)			(Effect size = ‡)	
15–23	14,390	2,930	67.34	67.65	0.31	0.46	66.99	-0.35	-0.52
24–29	1,810	620	12.07	11.61	-0.47	-3.86	12.18	0.11	0.90
30 or older	2,770	800	20.54	20.71	0.17	0.85	20.79	0.25	1.20
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-94. Undergraduate student-level study nonresponse bias analysis for selected variables—private nonprofit 4-year, non-doctorate-granting institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Institution aid status					(Effect size = 0.29)			(Effect size = 0.14)	
Received	11,670	410	46.61	52.93	6.32*	13.56	47.14	0.53	1.13
Did not receive	5,990	200	34.92	39.70	4.78*	13.70	39.42	4.50*	12.89
Unknown	1,330	3,740	18.47	7.36	-11.10*	-60.12	13.44	-5.03*	-27.24
State aid status					(Effect size = 0.28)			(Effect size = 0.13)	
Received	3,300	160	15.89	17.88	1.99*	12.54	16.29	0.40	2.53
Did not receive	14,300	400	65.36	74.47	9.11*	13.94	70.00	4.64*	7.10
Unknown	1,390	3,790	18.75	7.65	-11.10*	-59.21	13.71	-5.04*	-26.90
Veteran status					(Effect size = #)			(Effect size = #)	
Yes	570	130	3.62	3.64	0.02	0.60	3.63	#	0.11
No	18,420	4,220	96.38	96.36	-0.02	-0.02	96.37	#	#
Race/ethnicity					(Effect size = ‡)			(Effect size = ‡)	
American Indian or Alaska Native, not Hispanic or Latino	150	90	1.41	1.47	0.06	4.03	1.42	0.01	0.81
Asian, not Hispanic or Latino	840	60	5.11	5.72	0.60*	11.81	5.44	0.32*	6.36
Black, not Hispanic or Latino	2,670	510	12.53	13.29	0.76	6.04	13.45	0.92*	7.36
Hispanic or Latino, of any race	2,550	160	12.02	13.38	1.35*	11.25	13.43	1.40*	11.66
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
White, not Hispanic or Latino	10,840	1,250	52.47	56.83	4.35*	8.30	57.03	4.56	8.69
Two or more races, not Hispanic or Latino	810	60	3.17	3.48	0.31	9.69	3.55	0.37*	11.69
Unknown	1,120	2,230	13.14	5.70	-7.44*	-56.59	5.52	-7.62*	-58.00
Gender					(Effect size = 0.02)			(Effect size = 0.02)	
Male	8,110	1,880	41.76	41.30	-0.46	-1.09	42.01	0.25	0.59
Female	10,700	2,340	56.84	57.43	0.59	1.04	56.80	-0.04	-0.08
Unknown	180	130	1.40	1.26	-0.14	-9.79	1.20	-0.20	-14.51
Institution total undergraduate enrollment ⁵					(Effect size = 0.05)			(Effect size = 0.02)	
1–1,258	4,590	1,350	15.51	15.04	-0.47	-3.05	14.93	-0.58	-3.76
1,259–1,973	5,110	770	27.08	28.69	1.61	5.95	28.05	0.97	3.59
1,974–4,039	5,040	720	23.65	24.18	0.54	2.26	23.35	-0.30	-1.26
4,040 or more	4,250	1,520	33.76	32.08	-1.67	-4.96	33.66	-0.09	-0.27

See notes at end of table.

Table M-94. Undergraduate student-level study nonresponse bias analysis for selected variables—private nonprofit 4-year, non-doctorate-granting institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Major					(Effect size = ‡)			(Effect size = ‡)	
Undecided	‡	‡	‡	‡	‡	‡	‡	‡	‡
Humanities	3,580	700	18.58	18.75	0.17	0.92	18.47	-0.11	-0.60
Social/behavioral sciences	1,950	280	8.03	8.38	0.36	4.43	8.88	0.86	10.69
Life sciences	2,450	390	9.03	9.32	0.29	3.23	9.44	0.41	4.52
Physical sciences/mathematics	460	50	2.13	2.32	0.20	9.34	2.25	0.13	6.00
Computer/information science	910	90	5.92	6.48	0.56	9.46	6.22	0.30	5.06
Engineering	500	60	2.69	2.87	0.18	6.57	3.02	0.33*	12.32
Education	980	160	6.28	6.73	0.45	7.16	6.48	0.20	3.19
Business/management	3,090	500	16.61	17.56	0.95*	5.72	17.84	1.22*	7.36
Health	2,310	360	13.77	14.69	0.92	6.71	14.23	0.45	3.28
Vocational/technical	140	40	1.25	1.34	0.09	7.13	1.25	#	0.15
Other technical/professional	1,790	340	8.44	8.72	0.28	3.36	9.20	0.76*	8.96
Unknown	80	1,350	5.19	0.42	-4.78*	-92.18	0.48	-4.71*	-90.74
Degree program (undergraduate only)					(Effect size = 0.24)			(Effect size = 0.24)	
Certificate	220	40	1.53	1.55	0.01	0.97	1.70	0.17	10.79
Associate's degree	1,410	350	8.02	8.28	0.26	3.22	8.43	0.40	5.02
Bachelor's degree	17,190	2,440	84.32	89.45	5.13*	6.08	88.98	4.66*	5.52
Not in a degree program or others	170	60	0.75	0.69	-0.06	-8.47	0.87	0.11	15.09
Unknown	10	1,470	5.37	0.03	-5.34*	-99.44	0.03	-5.34*	-99.49
Pell Grant status					(Effect size = #)			(Effect size = #)	
Received	6,910	1,640	34.37	34.35	-0.02	-0.05	34.40	0.03	0.08
Did not receive	12,080	2,710	65.63	65.65	0.02	0.03	65.60	-0.03	-0.04
Total Pell amount received ^o					(Effect size = #)			(Effect size = #)	
None	12,080	2,710	65.63	65.65	0.02	0.03	65.60	-0.03	-0.04
\$1–\$3,097	1,810	430	9.45	9.39	-0.05	-0.54	9.48	0.03	0.32
\$3,098–\$6,194	2,530	590	12.55	12.65	0.10	0.82	12.48	-0.06	-0.49
\$6,195 or more	2,570	620	12.38	12.31	-0.07	-0.56	12.44	0.06	0.46
Received any aid excluding private loans					(Effect size = ‡)			(Effect size = ‡)	
Received	16,130	2,660	78.73	82.01	3.28	4.16	78.63	-0.10	-0.12
Did not receive	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	390	1,660	7.40	2.00	-5.40*	-72.93	5.31	-2.09*	-28.29

See notes at end of table.

Table M-94. Undergraduate student-level study nonresponse bias analysis for selected variables—private nonprofit 4-year, non-doctorate-granting institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
First-time beginner status (sampled)					(Effect size = 0.02)			(Effect size = #)	
Yes	3,770	500	15.34	15.91	0.57	3.74	15.26	-0.08	-0.51
No	15,220	3,850	84.66	84.09	-0.57	-0.68	84.74	0.08	0.09
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁷					(Effect size = ‡)			(Effect size = ‡)	
1–95	6,380	2,390	50.60	48.30	-2.30	-4.55	50.72	0.12	0.23
96–99	5,650	880	21.05	22.36	1.30	6.19	20.94	-0.11	-0.51
100	6,760	1,080	28.03	28.97	0.95	3.38	27.99	-0.04	-0.15
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁷					(Effect size = 0.10)			(Effect size = 0.04)	
0–137	2,640	470	7.95	8.18	0.22	2.82	8.58	0.63	7.93
138–233	2,980	1,160	13.98	12.72	-1.26	-8.99	12.82	-1.16	-8.29
234–369	4,560	2,080	26.30	22.89	-3.42	-13.00	26.59	0.28	1.08
370 or more	6,270	370	28.98	30.83	1.84	6.36	29.11	0.13	0.45
Unknown	2,550	280	22.78	25.39	2.61	11.45	22.90	0.11	0.50
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁷					(Effect size = 0.08)			(Effect size = 0.02)	
0–26	3,440	510	21.68	23.78	2.09	9.65	21.36	-0.32	-1.49
27–43	4,030	1,010	19.35	19.93	0.58	2.98	19.34	-0.01	-0.05
44–72	4,470	510	22.98	23.74	0.77	3.33	22.75	-0.23	-0.98
73 or more	6,570	2,260	34.67	31.04	-3.63	-10.47	35.09	0.42	1.22
Unknown	470	60	1.32	1.52	0.20	14.80	1.46	0.14	10.30

See notes at end of table.

Table M-94. Undergraduate student-level study nonresponse bias analysis for selected variables—private nonprofit 4-year, non-doctorate-granting institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Average amount of grant and scholarship aid received ⁷					(Effect size = ‡)			(Effect size = ‡)	
\$0–\$11,821	4,470	2,380	39.83	36.67	-3.16	-7.92	39.56	-0.27	-0.68
\$11,822–\$19,702	4,040	780	17.53	18.59	1.06	6.04	17.58	0.04	0.24
\$19,703–\$26,070	4,910	440	18.89	19.50	0.61	3.21	18.84	-0.05	-0.26
\$26,071 or more	5,360	740	23.41	24.86	1.44	6.17	23.66	0.25	1.07
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the student base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the student base weight adjusted for nonresponse) and weighted full-sample mean (using the student base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁷ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-95. Undergraduate student-level study nonresponse bias analysis for selected variables—private nonprofit 4-year, doctorate-granting institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Bureau of Economic Analysis region ⁴					(Effect size = 0.03)		(Effect size = 0.03)		
New England	4,660	480	16.35	17.12	0.77	4.71	17.11	0.77	4.69
Mideast	4,200	1,410	25.62	25.00	-0.62	-2.42	25.21	-0.41	-1.59
Great Lakes	2,430	340	11.33	11.27	-0.06	-0.49	11.35	0.02	0.18
Plains	3,050	840	7.33	7.11	-0.22	-3.00	7.27	-0.06	-0.88
Southeast	6,290	1,150	20.52	20.71	0.20	0.96	19.95	-0.56	-2.74
Southwest	1,250	350	5.73	5.69	-0.04	-0.70	5.72	-0.01	-0.18
Rocky Mountains	940	70	1.82	1.82	#	-0.01	1.96	0.14	7.66
Far West	3,210	620	8.87	8.67	-0.20	-2.28	8.74	-0.13	-1.47
Outlying Areas	990	80	2.42	2.60	0.17	7.12	2.67	0.25	10.20
Federal aid status					(Effect size = 0.17)		(Effect size = 0.15)		
Received	15,590	3,220	56.73	56.92	0.19	0.34	56.40	-0.33	-0.58
Did not receive	10,880	290	37.15	40.96	3.81*	10.27	40.83	3.68*	9.91
Unknown	550	1,840	6.12	2.11	-4.01*	-65.48	2.77	-3.35*	-54.79
Direct Loan status					(Effect size = #)		(Effect size = 0.01)		
Received	12,040	2,570	44.58	44.52	-0.06	-0.13	44.07	-0.51	-1.14
Did not receive	14,970	2,770	55.42	55.48	0.06	0.11	55.93	0.51	0.92
Total Direct Loan amount received ⁵					(Effect size = 0.01)		(Effect size = 0.02)		
None	14,970	2,770	55.42	55.48	0.06	0.11	55.93	0.51	0.92
\$1–\$5,500	5,310	990	18.83	19.19	0.35	1.88	18.91	0.08	0.42
\$5,501–\$6,500	1,850	370	6.93	6.84	-0.09	-1.28	6.78	-0.14	-2.04
\$6,501–\$7,500	2,640	510	9.13	9.14	0.01	0.06	9.07	-0.06	-0.70
\$7,501 or more	2,240	710	9.69	9.36	-0.33	-3.40	9.30	-0.38*	-3.94
Age as of December 31, 2019					(Effect size = 0.06)		(Effect size = 0.04)		
15–23	21,220	3,210	73.13	74.51	1.38	1.89	73.80	0.67	0.91
24–29	2,480	740	10.82	10.48	-0.34	-3.12	10.66	-0.16	-1.46
30 or older	3,140	1,150	14.44	14.14	-0.30	-2.11	14.39	-0.05	-0.37
Unknown	170	240	1.61	0.87	-0.74	-45.82	1.15	-0.46	-28.35

See notes at end of table.

Table M-95. Undergraduate student-level study nonresponse bias analysis for selected variables—private nonprofit 4-year, doctorate-granting institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Institution aid status					(Effect size = 0.21)			(Effect size = 0.16)	
Received	16,470	980	51.61	56.14	4.53*	8.77	51.81	0.20	0.39
Did not receive	9,290	980	36.86	39.14	2.28*	6.19	41.30	4.44*	12.04
Unknown	1,250	3,390	11.53	4.72	-6.81*	-59.03	6.89	-4.64*	-40.25
State aid status					(Effect size = 0.21)			(Effect size = 0.14)	
Received	4,290	380	14.50	15.34	0.84*	5.80	14.36	-0.14	-0.99
Did not receive	21,360	1,460	73.40	79.42	6.02*	8.20	78.19	4.79*	6.53
Unknown	1,370	3,500	12.10	5.24	-6.86*	-56.69	7.45	-4.65*	-38.43
Veteran status					(Effect size = #)			(Effect size = #)	
Yes	830	250	3.10	3.05	-0.05	-1.62	3.06	-0.04	-1.36
No	26,180	5,100	96.90	96.95	0.05	0.05	96.94	0.04	0.04
Race/ethnicity					(Effect size = ‡)			(Effect size = ‡)	
American Indian or Alaska Native, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
Asian, not Hispanic or Latino	2,340	200	9.45	10.05	0.60*	6.32	10.04	0.59*	6.24
Black, not Hispanic or Latino	2,570	490	10.35	10.54	0.20	1.92	10.63	0.28	2.75
Hispanic or Latino, of any race	4,010	430	15.03	15.90	0.87*	5.79	15.84	0.82*	5.43
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
White, not Hispanic or Latino	14,670	2,210	51.15	52.94	1.79*	3.50	52.86	1.72*	3.36
Two or more races, not Hispanic or Latino	1,250	100	4.04	4.31	0.27*	6.57	4.34	0.30*	7.38
Unknown	1,930	1,890	9.50	5.76	-3.74*	-39.35	5.77	-3.74*	-39.31
Gender					(Effect size = 0.03)			(Effect size = 0.03)	
Male	11,130	2,050	41.21	41.21	-0.01	-0.01	41.61	0.40	0.97
Female	15,750	2,940	57.58	57.90	0.32	0.56	57.51	-0.06	-0.11
Unknown	130	360	1.21	0.89	-0.32*	-26.34	0.88	-0.34*	-27.69
Institution total undergraduate enrollment ⁵					(Effect size = 0.04)			(Effect size = 0.02)	
1–2,494	6,780	1,350	15.75	14.68	-1.08	-6.85	15.23	-0.53	-3.34
2,495–4,337	6,390	1,680	19.59	19.16	-0.43	-2.20	19.59	#	0.01
4,338–8,330	7,400	860	25.05	26.07	1.01	4.03	25.14	0.09	0.35
8,331 or more	6,450	1,450	39.60	40.10	0.50	1.26	40.04	0.44	1.10

See notes at end of table.

Table M-95. Undergraduate student-level study nonresponse bias analysis for selected variables—private nonprofit 4-year, doctorate-granting institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Major					(Effect size = ‡)			(Effect size = ‡)	
Undecided	‡	‡	‡	‡	‡	‡	‡	‡	‡
Humanities	3,440	530	13.22	13.36	0.14	1.07	13.31	0.09	0.67
Social/behavioral sciences	3,160	430	11.84	12.52	0.68*	5.75	12.63	0.79*	6.72
Life sciences	3,490	470	11.09	11.49	0.40*	3.59	11.33	0.25	2.21
Physical sciences/mathematics	660	60	2.38	2.55	0.16*	6.92	2.53	0.15*	6.24
Computer/information science	1,140	220	5.12	5.27	0.15	2.96	5.38	0.26*	4.99
Engineering	1,300	140	5.19	5.47	0.28	5.30	5.51	0.31*	6.02
Education	1,180	160	3.60	3.72	0.12	3.36	3.61	0.01	0.27
Business/management	4,280	860	17.05	17.41	0.36	2.12	17.52	0.47	2.76
Health	3,970	790	13.28	13.28	#	0.01	13.33	0.05	0.40
Vocational/technical	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other technical/professional	2,500	290	10.16	10.65	0.49*	4.81	10.65	0.48*	4.77
Unknown	260	1,270	4.03	0.89	-3.14*	-77.94	0.84	-3.19*	-79.08
Degree program (undergraduate only)					(Effect size = 0.17)			(Effect size = 0.17)	
Certificate	190	40	0.71	0.73	0.02	2.82	0.82	0.11*	15.62
Associate's degree	950	240	3.79	3.54	-0.26	-6.83	3.71	-0.09	-2.33
Bachelor's degree	25,310	3,540	90.03	93.53	3.50*	3.88	93.15	3.12*	3.46
Not in a degree program or others	460	120	1.76	1.77	0.02	0.99	1.87	0.11	6.39
Unknown	90	1,400	3.71	0.43	-3.28*	-88.37	0.45	-3.25*	-87.78
Pell Grant status					(Effect size = #)			(Effect size = #)	
Received	7,880	1,720	28.92	28.91	-0.01	-0.04	28.75	-0.18	-0.61
Did not receive	19,140	3,620	71.08	71.09	0.01	0.02	71.25	0.18	0.25
Total Pell amount received ^o					(Effect size = #)			(Effect size = 0.01)	
None	19,140	3,620	71.08	71.09	0.01	0.02	71.25	0.18	0.25
\$1–\$3,144	2,440	630	10.14	10.14	#	0.03	10.18	0.03	0.35
\$3,145–\$6,194	2,560	530	8.85	8.89	0.04	0.42	8.80	-0.05	-0.57
\$6,195 or more	2,880	560	9.93	9.88	-0.05	-0.53	9.77	-0.16	-1.62
Received any aid excluding private loans					(Effect size = 0.18)			(Effect size = 0.16)	
Received	21,630	3,310	75.86	78.17	2.31*	3.05	75.72	-0.14	-0.19
Did not receive	5,030	240	18.63	20.30	1.67*	8.96	22.08	3.45*	18.50
Unknown	360	1,790	5.50	1.52	-3.98*	-72.38	2.20	-3.31*	-60.08

See notes at end of table.

Table M-95. Undergraduate student-level study nonresponse bias analysis for selected variables—private nonprofit 4-year, doctorate-granting institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
First-time beginner status (sampled)					(Effect size = 0.03)			(Effect size = 0.01)	
Yes	5,280	420	16.30	17.43	1.12*	6.90	16.78	0.48*	2.96
No	21,730	4,920	83.70	82.57	-1.12*	-1.34	83.22	-0.48*	-0.58
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁷					(Effect size = ‡)			(Effect size = ‡)	
1–90	9,240	2,520	46.68	46.80	0.12	0.26	47.14	0.46	0.98
91–98	7,620	1,620	23.37	23.65	0.28	1.18	23.31	-0.06	-0.27
99–100	9,630	1,190	28.56	28.15	-0.41	-1.43	28.02	-0.54	-1.90
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁷					(Effect size = 0.05)			(Effect size = 0.02)	
0–194	3,980	1,050	10.10	9.45	-0.66	-6.49	9.86	-0.24	-2.38
195–415	5,260	1,280	14.67	13.96	-0.70	-4.79	13.99	-0.67	-4.59
416–738	7,970	1,390	29.75	30.78	1.03	3.46	29.89	0.14	0.48
739 or more	7,940	870	38.39	39.48	1.09	2.85	39.05	0.66	1.73
Unknown	1,870	760	7.09	6.33	-0.76	-10.75	7.20	0.11	1.52
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁷					(Effect size = ‡)			(Effect size = ‡)	
0–43	5,270	1,260	10.25	10.06	-0.19	-1.89	10.29	0.04	0.37
44–68	6,360	1,630	19.35	18.90	-0.45	-2.31	18.94	-0.41	-2.11
69–124	6,140	1,280	26.90	26.97	0.07	0.25	26.81	-0.09	-0.32
125 or more	8,680	1,160	42.06	42.62	0.56	1.33	42.36	0.30	0.72
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-95. Undergraduate student-level study nonresponse bias analysis for selected variables—private nonprofit 4-year, doctorate-granting institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Average amount of grant and scholarship aid received ⁷					(Effect size = ‡)			(Effect size = ‡)	
\$0–\$15,784	6,840	1,860	26.96	27.47	0.50	1.87	27.50	0.54	1.99
\$15,785–\$22,032	5,070	970	15.03	15.83	0.80	5.32	15.30	0.26	1.74
\$22,033–\$27,903	6,070	910	22.00	21.11	-0.90	-4.07	21.64	-0.37	-1.67
\$27,904 or more	8,510	1,580	34.61	34.19	-0.42	-1.21	34.03	-0.58	-1.67
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the student base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the student base weight adjusted for nonresponse) and weighted full-sample mean (using the student base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁷ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-96. Undergraduate student-level study nonresponse bias analysis for selected variables—private for-profit less-than-2-year institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Bureau of Economic Analysis region ⁴					(Effect size = ‡)			(Effect size = ‡)	
New England	450	320	4.31	3.77	-0.55	-12.69	4.40	0.09	2.07
Mideast	870	380	18.70	19.93	1.23	6.57	20.96	2.26	12.09
Great Lakes	350	120	19.29	24.08	4.79	24.83	20.60	1.31	6.77
Plains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southeast	1,090	340	21.89	23.84	1.95	8.91	24.53	2.65	12.09
Southwest	930	500	14.22	11.29	-2.94	-20.65	11.32	-2.90	-20.40
Rocky Mountains	390	90	1.58	2.02	0.43	27.20	1.88	0.29	18.61
Far West	700	480	17.87	12.61	-5.26	-29.45	13.50	-4.37	-24.48
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡
Federal aid status					(Effect size = 0.26)			(Effect size = 0.20)	
Received	3,700	1,700	67.48	66.39	-1.09	-1.62	68.53	1.05	1.56
Did not receive	1,020	80	21.03	28.75	7.72*	36.71	25.90	4.87*	23.16
Unknown	160	460	11.49	4.86	-6.63*	-57.73	5.56	-5.93*	-51.59
Direct Loan status					(Effect size = 0.03)			(Effect size = 0.06)	
Received	3,000	1,220	52.30	53.91	1.61	3.08	55.08	2.78	5.31
Did not receive	1,880	1,020	47.70	46.09	-1.61	-3.37	44.92	-2.78	-5.83
Total Direct Loan amount received ⁵					(Effect size = 0.04)			(Effect size = 0.06)	
None	1,880	1,020	47.70	46.09	-1.61	-3.37	44.92	-2.78	-5.83
\$1–\$4,400	750	310	13.99	14.28	0.29	2.06	14.58	0.59	4.23
\$4,401–\$6,333	810	280	12.27	12.90	0.63	5.16	13.26	0.99*	8.10
\$6,334–\$9,500	1,180	550	21.23	21.37	0.15	0.69	21.67	0.44	2.07
\$9,501 or more	260	70	4.82	5.36	0.54	11.24	5.57	0.75*	15.67
Age as of December 31, 2019					(Effect size = ‡)			(Effect size = ‡)	
15–23	2,390	1,170	44.43	41.62	-2.81*	-6.33	44.15	-0.28	-0.63
24–29	1,210	510	24.98	26.25	1.27*	5.08	25.29	0.31	1.24
30 or older	1,260	550	30.36	32.12	1.76	5.79	30.55	0.18	0.60
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-96. Undergraduate student-level study nonresponse bias analysis for selected variables—private for-profit less-than-2-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Institution aid status					(Effect size = ‡)			(Effect size = ‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	3,560	740	56.61	71.46	14.85*	26.22	69.50	12.88*	22.75
Unknown	1,020	1,500	38.58	21.71	-16.87*	-43.73	25.12	-13.47*	-34.91
State aid status					(Effect size = ‡)			(Effect size = ‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	3,720	730	60.58	77.10	16.52*	27.28	73.80	13.23*	21.83
Unknown	1,000	1,490	37.70	20.91	-16.79*	-44.54	24.34	-13.36*	-35.44
Veteran status					(Effect size = 0.01)			(Effect size = 0.01)	
Yes	170	60	3.11	3.23	0.12	3.81	3.32	0.20	6.49
No	4,720	2,180	96.89	96.77	-0.12	-0.12	96.68	-0.20	-0.21
Race/ethnicity					(Effect size = ‡)			(Effect size = ‡)	
American Indian or Alaska Native, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
Asian, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
Black, not Hispanic or Latino	1,030	240	18.65	24.46	5.81*	31.12	23.99	5.33*	28.59
Hispanic or Latino, of any race	1,350	240	19.25	24.13	4.88*	25.33	25.17	5.92*	30.76
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
White, not Hispanic or Latino	1,750	300	26.45	33.94	7.49*	28.31	32.66	6.21*	23.50
Two or more races, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	390	1,450	30.46	10.46	-20.00*	-65.66	10.38	-20.08*	-65.92
Gender					(Effect size = 0.11)			(Effect size = 0.08)	
Male	890	520	18.97	17.02	-1.96	-10.31	18.95	-0.02	-0.11
Female	3,950	1,590	78.45	81.88	3.44*	4.38	79.80	1.36	1.73
Unknown	40	120	2.58	1.10	-1.48*	-57.36	1.24	-1.34*	-51.77
Institution total undergraduate enrollment ⁵					(Effect size = 0.22)			(Effect size = 0.16)	
1–214	1,300	500	16.88	17.54	0.66	3.92	17.94	1.06	6.28
215–422	1,460	360	24.15	32.07	7.93*	32.83	29.83	5.69*	23.55
423–764	1,210	540	38.84	36.52	-2.31	-5.96	36.87	-1.96	-5.06
765 or more	910	840	20.13	13.86	-6.27*	-31.16	15.35	-4.78*	-23.76

See notes at end of table.

Table M-96. Undergraduate student-level study nonresponse bias analysis for selected variables—private for-profit less-than-2-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Major					(Effect size = ‡)			(Effect size = ‡)	
Undecided	‡	‡	‡	‡	‡	‡	‡	‡	‡
Humanities	‡	‡	‡	‡	‡	‡	‡	‡	‡
Social/behavioral sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡
Life sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡
Physical sciences/mathematics	‡	‡	‡	‡	‡	‡	‡	‡	‡
Computer/information science	‡	‡	‡	‡	‡	‡	‡	‡	‡
Engineering	60	60	1.93	1.35	-0.60	-30.83	1.53	-0.40	-20.87
Education	‡	‡	‡	‡	‡	‡	‡	‡	‡
Business/management	‡	‡	‡	‡	‡	‡	‡	‡	‡
Health	1,560	940	42.72	46.78	4.13	9.66	44.45	1.73	4.05
Vocational/technical	230	220	6.69	4.44	-2.28	-34.09	5.43	-1.26	-18.85
Other technical/professional	2,570	270	32.69	40.77	8.19*	25.06	41.06	8.36*	25.58
Unknown	110	640	12.00	2.04	-10.11*	-84.24	2.39	-9.61*	-80.07
Degree program (undergraduate only)					(Effect size = ‡)			(Effect size = ‡)	
Certificate	4,760	1,400	85.38	98.05	12.67*	14.84	97.93	12.56*	14.71
Associate's degree	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bachelor's degree	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not in a degree program or others	120	60	2.55	1.95	-0.61	-23.72	2.06	-0.49	-19.17
Unknown	#	740	11.42	#	-11.42*	-99.99	#	-11.42*	-99.98
Pell Grant status					(Effect size = 0.02)			(Effect size = 0.01)	
Received	3,060	1,480	56.07	54.92	-1.16	-2.06	56.50	0.42	0.75
Did not receive	1,820	750	43.93	45.08	1.16	2.64	43.50	-0.42	-0.96
Total Pell amount received ⁶					(Effect size = 0.02)			(Effect size = 0.01)	
None	1,820	750	43.93	45.08	1.16	2.64	43.50	-0.42	-0.96
\$1–\$3,097	840	450	15.90	15.54	-0.37	-2.30	16.31	0.41	2.59
\$3,098–\$6,194	1,340	620	24.07	23.69	-0.38	-1.56	24.11	0.04	0.16
\$6,195 or more	880	410	16.10	15.69	-0.41	-2.58	16.07	-0.03	-0.18

See notes at end of table.

Table M-96. Undergraduate student-level study nonresponse bias analysis for selected variables—private for-profit less-than-2-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Received any aid excluding private loans					(Effect size = 0.25)			(Effect size = 0.21)	
Received	3,770	1,700	69.38	69.03	-0.36	-0.51	70.55	1.17	1.68
Did not receive	960	80	19.35	26.36	7.01*	36.24	24.09	4.74*	24.48
Unknown	150	460	11.27	4.61	-6.66*	-59.09	5.36	-5.90*	-52.39
First-time beginner status (sampled)					(Effect size = 0.05)			(Effect size = #)	
Yes	1,400	590	20.44	22.42	1.98	9.70	20.38	-0.06	-0.27
No	3,480	1,650	79.56	77.58	-1.98	-2.49	79.62	0.06	0.07
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁷					(Effect size = 0.16)			(Effect size = 0.13)	
1–62	1,240	430	26.49	30.12	3.63	13.69	29.03	2.54	9.60
63–72	980	580	22.95	18.49	-4.47	-19.46	19.09	-3.86	-16.82
73–85	1,470	840	26.78	23.70	-3.08	-11.48	24.22	-2.56	-9.56
86 or more	1,090	340	23.58	27.57	3.99	16.92	27.47	3.89	16.51
None or unknown	100	50	0.20	0.13	-0.07	-36.33	0.19	-0.01	-6.56
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁷					(Effect size = 0.14)			(Effect size = 0.12)	
0–12	640	130	8.62	8.94	0.32	3.68	8.81	0.19	2.17
13–24	700	140	6.56	8.42	1.86	28.34	8.84	2.28*	34.74
25–54	880	140	14.99	18.50	3.50	23.36	17.48	2.48	16.56
55 or more	2,400	1,500	67.74	62.41	-5.33	-7.87	62.91	-4.83*	-7.13
Unknown	260	330	2.08	1.74	-0.35	-16.66	1.97	-0.12	-5.60

See notes at end of table.

Table M-96. Undergraduate student-level study nonresponse bias analysis for selected variables—private for-profit less-than-2-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Average amount of grant and scholarship aid received ⁷					(Effect size = 0.13)			(Effect size = 0.11)	
\$0–\$4,175	1,580	1,030	43.94	45.61	1.66	3.79	43.03	-0.91	-2.08
\$4,176–\$4,843	1,480	640	22.39	17.08	-5.31	-23.72	19.04	-3.35	-14.98
\$4,844–\$5,437	970	360	21.08	23.47	2.39	11.34	22.97	1.89	8.97
\$5,438 or more	740	160	12.39	13.72	1.33	10.73	14.78	2.39	19.29
Unknown	100	50	0.20	0.13	-0.07	-36.33	0.19	-0.01	-6.56

Rounds to zero.

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the student base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the student base weight adjusted for nonresponse) and weighted full-sample mean (using the student base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁷ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-97. Undergraduate student-level study nonresponse bias analysis for selected variables—private for-profit 2-year institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Bureau of Economic Analysis region ⁴					(Effect size = 0.17)		(Effect size = 0.17)		
New England	120	90	1.34	1.11	-0.24	-17.65	1.40	0.06	4.22
Mideast	520	570	12.92	8.81	-4.12*	-31.86	9.73	-3.20	-24.75
Great Lakes	210	260	6.78	5.33	-1.45	-21.40	4.85	-1.93	-28.50
Plains	310	70	1.92	1.95	0.03	1.63	2.21	0.29	15.33
Southeast	1,720	840	42.63	45.59	2.96	6.95	45.40	2.77	6.49
Southwest	1,130	150	10.28	12.01	1.73	16.78	12.08	1.80	17.51
Rocky Mountains	500	200	4.03	3.77	-0.26	-6.54	3.44	-0.59	-14.68
Far West	900	290	10.90	13.35	2.45	22.44	13.24	2.34	21.50
Outlying Areas	270	320	9.19	8.09	-1.10	-11.93	7.65	-1.54	-16.77
Federal aid status					(Effect size = 0.19)		(Effect size = 0.17)		
Received	4,460	2,100	65.20	66.49	1.29	1.98	66.25	1.05	1.61
Did not receive	980	140	24.86	28.84	3.98	16.01	28.65	3.79*	15.26
Unknown	240	540	9.95	4.68	-5.27*	-53.00	5.11	-4.84*	-48.68
Direct Loan status					(Effect size = 0.05)		(Effect size = 0.03)		
Received	3,540	1,480	47.41	49.98	2.58	5.44	48.95	1.55	3.26
Did not receive	2,140	1,300	52.59	50.02	-2.58	-4.90	51.05	-1.55	-2.94
Total Direct Loan amount received ⁵					(Effect size = 0.06)		(Effect size = 0.03)		
None	2,140	1,300	52.59	50.02	-2.58	-4.90	51.05	-1.55	-2.94
\$1–\$4,750	880	500	12.08	12.01	-0.08	-0.62	12.26	0.18	1.45
\$4,751–\$7,588	810	330	10.73	11.36	0.63	5.85	11.37	0.64	5.93
\$7,589–\$9,500	1,190	450	15.10	16.21	1.11*	7.38	15.48	0.38	2.49
\$9,501 or more	670	200	9.49	10.40	0.91*	9.62	9.84	0.36	3.76
Age as of December 31, 2019					(Effect size = ‡)		(Effect size = ‡)		
15–23	2,770	1,550	39.92	37.84	-2.08*	-5.21	39.69	-0.23	-0.57
24–29	1,410	530	27.93	29.74	1.81*	6.46	28.54	0.61	2.17
30 or older	1,500	700	32.13	32.42	0.29	0.91	31.77	-0.36	-1.13
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-97. Undergraduate student-level study nonresponse bias analysis for selected variables—private for-profit 2-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Institution aid status					(Effect size = ‡)			(Effect size = ‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	3,780	950	59.61	71.67	12.06*	20.23	70.25	10.64*	17.85
Unknown	1,260	1,810	36.98	23.64	-13.34*	-36.07	25.97	-11.00*	-29.76
State aid status					(Effect size = 0.24)			(Effect size = 0.21)	
Received	200	50	2.13	2.21	0.07	3.35	1.87	-0.27	-12.56
Did not receive	4,340	1,080	70.15	80.91	10.76*	15.34	79.88	9.73*	13.86
Unknown	1,130	1,660	27.72	16.88	-10.83*	-39.09	18.26	-9.46*	-34.13
Veteran status					(Effect size = 0.01)			(Effect size = 0.02)	
Yes	280	130	5.64	5.46	-0.18	-3.17	5.24	-0.40	-7.10
No	5,390	2,650	94.36	94.54	0.18	0.19	94.76	0.40	0.42
Race/ethnicity					(Effect size = ‡)			(Effect size = ‡)	
American Indian or Alaska Native, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
Asian, not Hispanic or Latino	210	40	4.44	4.84	0.40	8.99	5.18	0.74	16.73
Black, not Hispanic or Latino	1,100	240	15.61	18.46	2.85*	18.25	18.08	2.47*	15.82
Hispanic or Latino, of any race	1,670	550	26.32	28.44	2.12	8.06	28.51	2.20	8.34
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
White, not Hispanic or Latino	1,750	210	25.60	32.57	6.97*	27.22	32.10	6.50*	25.40
Two or more races, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	580	1,730	24.24	10.69	-13.54*	-55.88	11.34	-12.89*	-53.19
Gender					(Effect size = 0.21)			(Effect size = 0.18)	
Male	1,810	1,360	37.61	31.36	-6.25*	-16.62	33.63	-3.98*	-10.58
Female	3,830	1,090	59.35	68.13	8.78*	14.79	65.87	6.51*	10.98
Unknown	40	330	3.04	0.51	-2.53*	-83.25	0.50	-2.53*	-83.46
Institution total undergraduate enrollment ⁵					(Effect size = 0.12)			(Effect size = 0.11)	
1–609	1,580	540	35.95	39.74	3.79	10.56	38.30	2.35	6.54
610–911	1,940	460	22.42	24.32	1.90	8.48	25.18	2.76	12.32
912–1,382	1,080	770	16.49	13.60	-2.89	-17.54	14.68	-1.81	-10.99
1,383 or more	1,080	1,020	25.15	22.34	-2.80	-11.15	21.85	-3.30	-13.12

See notes at end of table.

Table M-97. Undergraduate student-level study nonresponse bias analysis for selected variables—private for-profit 2-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Major					(Effect size = ‡)			(Effect size = ‡)	
Undecided	‡	‡	‡	‡	‡	‡	‡	‡	‡
Humanities	‡	‡	‡	‡	‡	‡	‡	‡	‡
Social/behavioral sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡
Life sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡
Physical sciences/mathematics	‡	‡	‡	‡	‡	‡	‡	‡	‡
Computer/information science	‡	‡	‡	‡	‡	‡	‡	‡	‡
Engineering	250	80	3.67	3.59	-0.08	-2.19	3.86	0.20	5.35
Education	‡	‡	‡	‡	‡	‡	‡	‡	‡
Business/management	100	60	1.50	1.47	-0.02	-1.41	1.40	-0.10	-6.48
Health	3,350	710	54.19	64.21	9.95*	18.37	62.98	8.79*	16.22
Vocational/technical	820	910	17.80	14.05	-3.73	-20.96	15.28	-2.52	-14.16
Other technical/professional	790	410	10.51	10.90	0.39	3.67	10.26	-0.25	-2.34
Unknown	80	540	8.73	1.85	-6.84*	-78.36	2.09	-6.64*	-76.05
Degree program (undergraduate only)					(Effect size = ‡)			(Effect size = ‡)	
Certificate	4,060	1,680	57.27	59.60	2.33	4.07	60.60	3.32	5.80
Associate's degree	1,500	220	32.65	39.21	6.55*	20.07	38.34	5.69*	17.42
Bachelor's degree	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not in a degree program or others	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Pell Grant status					(Effect size = 0.01)			(Effect size = 0.01)	
Received	3,690	1,770	48.16	48.53	0.37	0.77	48.50	0.34	0.71
Did not receive	1,990	1,010	51.84	51.47	-0.37	-0.71	51.50	-0.34	-0.66
Total Pell amount received ⁶					(Effect size = 0.03)			(Effect size = 0.02)	
None	1,990	1,010	51.84	51.47	-0.37	-0.71	51.50	-0.34	-0.66
\$1–\$3,097	990	550	14.58	13.99	-0.59	-4.05	14.27	-0.31	-2.10
\$3,098–\$6,194	1,330	630	17.19	18.16	0.97	5.66	18.03	0.85	4.93
\$6,195 or more	1,360	590	16.39	16.38	-0.01	-0.08	16.20	-0.20	-1.21

See notes at end of table.

Table M-97. Undergraduate student-level study nonresponse bias analysis for selected variables—private for-profit 2-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Received any aid excluding private loans					(Effect size = ‡)			(Effect size = ‡)	
Received	4,620	2,110	67.47	69.63	2.16	3.19	68.67	1.20	1.78
Did not receive	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	320	670	17.30	9.54	-7.76*	-44.85	11.08	-6.22*	-35.97
First-time beginner status (sampled)					(Effect size = 0.06)			(Effect size = 0.07)	
Yes	2,600	1,610	17.25	14.93	-2.33*	-13.48	14.71	-2.54*	-14.73
No	3,080	1,180	82.75	85.07	2.33*	2.81	85.29	2.54*	3.07
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁷					(Effect size = ‡)			(Effect size = ‡)	
1–59	990	370	19.19	16.69	-2.51	-13.06	17.11	-2.09	-10.86
60–73	1,370	1,040	22.99	21.54	-1.45	-6.31	23.64	0.65	2.84
74–85	1,610	500	18.20	17.19	-1.01	-5.56	17.53	-0.67	-3.67
86 or more	1,550	880	27.15	27.33	0.18	0.67	25.66	-1.49	-5.48
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁷					(Effect size = 0.13)			(Effect size = 0.08)	
0	100	90	0.85	0.43	-0.42	-49.61	0.72	-0.13	-14.99
1–59	140	130	9.27	6.80	-2.48	-26.70	7.75	-1.52	-16.40
60 or more	80	190	2.38	1.12	-1.26	-53.03	1.60	-0.78	-32.64
Unknown	5,360	2,380	87.49	91.65	4.16	4.76	89.92	2.43	2.77
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁷					(Effect size = 0.11)			(Effect size = 0.09)	
0–16	740	290	16.76	14.58	-2.18	-13.00	14.62	-2.14	-12.76
17–55	1,310	560	15.39	16.38	1.00	6.48	17.25	1.87	12.13
56–97	1,150	600	13.30	11.93	-1.37	-10.29	12.41	-0.88	-6.65
98 or more	1,810	1,020	32.63	31.39	-1.24	-3.80	31.67	-0.97	-2.97
Unknown	660	320	21.92	25.71	3.79	17.30	24.05	2.13	9.70

See notes at end of table.

Table M-97. Undergraduate student-level study nonresponse bias analysis for selected variables—private for-profit 2-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Average amount of grant and scholarship aid received ⁷					(Effect size = ‡)			(Effect size = ‡)	
\$0–\$4,149	1,150	1,010	23.04	16.54	-6.50*	-28.22	17.66	-5.38*	-23.33
\$4,150–\$4,779	1,860	910	29.98	30.20	0.23	0.76	31.87	1.89	6.32
\$4,780–\$5,500	1,090	390	15.09	16.87	1.78	11.77	16.22	1.13	7.49
\$5,501 or more	1,400	470	19.32	18.98	-0.33	-1.72	18.06	-1.25	-6.49
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the student base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the student base weight adjusted for nonresponse) and weighted full-sample mean (using the student base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁷ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-98. Undergraduate student-level study nonresponse bias analysis for selected variables—private for-profit 4-year institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Bureau of Economic Analysis region ⁴					(Effect size = ‡)			(Effect size = ‡)	
New England	590	40	4.49	5.07	0.58	12.92	4.30	-0.19	-4.14
Mideast	1,040	80	5.02	5.12	0.10	1.98	4.83	-0.19	-3.84
Great Lakes	‡	‡	‡	‡	‡	‡	‡	‡	‡
Plains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southeast	3,000	260	19.82	21.90	2.08	10.49	20.55	0.73	3.67
Southwest	960	490	29.13	25.84	-3.29	-11.28	28.56	-0.57	-1.94
Rocky Mountains	940	320	7.81	6.40	-1.41	-18.08	7.35	-0.47	-5.99
Far West	1,820	460	23.49	24.03	0.53	2.27	24.10	0.61	2.58
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡
Federal aid status					(Effect size = 0.11)			(Effect size = 0.07)	
Received	7,710	1,400	65.18	63.82	-1.36	-2.09	65.55	0.37	0.56
Did not receive	2,530	30	28.96	32.46	3.50	12.10	30.13	1.17	4.04
Unknown	260	270	5.86	3.72	-2.14*	-36.53	4.32	-1.54*	-26.23
Direct Loan status					(Effect size = 0.03)			(Effect size = 0.01)	
Received	6,070	1,110	49.93	48.52	-1.41	-2.82	50.20	0.27	0.55
Did not receive	4,430	600	50.07	51.48	1.41	2.81	49.80	-0.27	-0.55
Total Direct Loan amount received ⁵					(Effect size = 0.03)			(Effect size = 0.01)	
None	4,430	600	50.07	51.48	1.41	2.81	49.80	-0.27	-0.55
\$1–\$4,906	1,500	300	12.03	11.71	-0.32	-2.70	12.15	0.12	1.04
\$4,907–\$7,949	1,490	300	11.60	10.98	-0.62	-5.38	11.63	0.03	0.26
\$7,950–\$10,699	1,530	270	12.15	12.00	-0.15	-1.20	12.23	0.08	0.64
\$10,700 or more	1,550	250	14.15	13.84	-0.31	-2.22	14.19	0.04	0.29
Age as of December 31, 2019					(Effect size = ‡)			(Effect size = ‡)	
15–23	4,030	600	19.58	18.91	-0.68	-3.46	20.42	0.83	4.25
24–29	2,500	420	26.64	26.81	0.16	0.60	26.67	0.02	0.09
30 or older	3,970	660	53.73	54.27	0.54	1.01	52.90	-0.83	-1.54
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-98. Undergraduate student-level study nonresponse bias analysis for selected variables—private for-profit 4-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Institution aid status					(Effect size = 0.10)			(Effect size = 0.06)	
Received	3,020	410	31.27	30.08	-1.18	-3.79	30.23	-1.04	-3.33
Did not receive	6,440	580	58.53	62.27	3.73	6.38	61.01	2.47	4.22
Unknown	1,030	720	10.20	7.65	-2.55	-25.00	8.77	-1.43	-14.03
State aid status					(Effect size = 0.09)			(Effect size = 0.05)	
Received	710	40	2.25	2.48	0.23	10.21	2.20	-0.05	-2.31
Did not receive	8,640	790	87.40	89.79	2.39	2.73	88.95	1.55	1.78
Unknown	1,150	880	10.35	7.73	-2.62	-25.31	8.85	-1.50	-14.50
Veteran status					(Effect size = 0.01)			(Effect size = #)	
Yes	810	120	10.39	10.83	0.44	4.19	10.28	-0.11	-1.02
No	9,680	1,590	89.61	89.17	-0.44	-0.49	89.72	0.11	0.12
Race/ethnicity					(Effect size = ‡)			(Effect size = ‡)	
American Indian or Alaska Native, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
Asian, not Hispanic or Latino	540	80	4.33	4.01	-0.33	-7.55	4.18	-0.15	-3.51
Black, not Hispanic or Latino	2,220	220	21.70	22.46	0.76*	3.51	22.43	0.73	3.34
Hispanic or Latino, of any race	2,420	270	19.92	19.79	-0.13	-0.64	20.43	0.51	2.57
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
White, not Hispanic or Latino	4,020	500	38.46	38.85	0.39	1.01	37.93	-0.52	-1.36
Two or more races, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	650	580	9.25	8.36	-0.89	-9.63	8.37	-0.88	-9.48
Gender					(Effect size = 0.02)			(Effect size = 0.01)	
Male	3,400	500	32.67	33.51	0.84	2.56	32.92	0.24	0.74
Female	6,990	1,160	66.25	65.42	-0.83	-1.26	66.04	-0.22	-0.33
Unknown	110	50	1.07	1.07	#	-0.35	1.05	-0.02	-2.31
Institution total undergraduate enrollment ⁵					(Effect size = 0.05)			(Effect size = 0.03)	
1–1,114	2,800	300	5.66	5.62	-0.04	-0.78	6.02	0.36	6.28
1,115–4,031	2,620	570	16.75	15.34	-1.41	-8.42	16.40	-0.35	-2.09
4,032–26,622	2,980	370	24.30	25.75	1.45	5.96	23.08	-1.23	-5.05
26,623 or more	2,100	470	53.29	53.29	0.01	0.01	54.51	1.22	2.29

See notes at end of table.

Table M-98. Undergraduate student-level study nonresponse bias analysis for selected variables—private for-profit 4-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Major					(Effect size = ‡)			(Effect size = ‡)	
Undecided	‡	‡	‡	‡	‡	‡	‡	‡	‡
Humanities	610	100	7.17	6.95	-0.22	-3.09	7.18	0.01	0.21
Social/behavioral sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡
Life sciences	280	40	3.13	3.22	0.10	3.04	3.19	0.06	1.91
Physical sciences/mathematics	‡	‡	‡	‡	‡	‡	‡	‡	‡
Computer/information science	540	90	4.78	5.09	0.31	6.57	5.08	0.30	6.38
Engineering	‡	‡	‡	‡	‡	‡	‡	‡	‡
Education	250	100	6.43	5.56	-0.87	-13.53	5.52	-0.91	-14.13
Business/management	1,710	210	24.41	26.03	1.62*	6.62	25.61	1.20	4.92
Health	4,710	680	32.49	30.59	-1.89	-5.83	31.29	-1.20	-3.69
Vocational/technical	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other technical/professional	1,580	150	14.37	15.06	0.68	4.75	14.82	0.44	3.07
Unknown	50	290	0.34	0.05	-0.29	-84.20	0.06	-0.28	-82.56
Degree program (undergraduate only)					(Effect size = ‡)			(Effect size = ‡)	
Certificate	1,100	230	3.42	3.52	0.10	2.79	3.69	0.26	7.70
Associate's degree	2,760	250	15.41	16.52	1.10	7.15	16.59	1.17	7.62
Bachelor's degree	6,570	1,000	80.11	79.25	-0.86	-1.08	79.06	-1.05	-1.31
Not in a degree program or others	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	#	230	0.61	0.23	-0.38	-62.15	0.22	-0.39	-64.46
Pell Grant status					(Effect size = 0.01)			(Effect size = 0.01)	
Received	5,510	990	44.03	43.60	-0.43	-0.99	44.50	0.47	1.06
Did not receive	4,990	720	55.97	56.40	0.43	0.78	55.50	-0.47	-0.84
Total Pell amount received ⁶					(Effect size = 0.01)			(Effect size = 0.01)	
None	4,990	720	55.97	56.40	0.43	0.78	55.50	-0.47	-0.84
\$1–\$3,097	1,630	330	12.16	11.89	-0.27	-2.19	12.37	0.21	1.76
\$3,098–\$6,194	1,830	330	15.42	15.49	0.08	0.50	15.46	0.04	0.29
\$6,195 or more	2,050	320	16.46	16.21	-0.24	-1.48	16.67	0.21	1.28

See notes at end of table.

Table M-98. Undergraduate student-level study nonresponse bias analysis for selected variables—private for-profit 4-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Received any aid excluding private loans					(Effect size = ‡)			(Effect size = ‡)	
Received	8,910	1,460	80.57	80.79	0.22	0.27	80.40	-0.17	-0.21
Did not receive	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	210	240	4.83	2.92	-1.91	-39.54	3.64	-1.19*	-24.70
First-time beginner status (sampled)					(Effect size = 0.01)			(Effect size = 0.01)	
Yes	3,600	390	5.80	6.07	0.27	4.67	5.97	0.17	2.92
No	6,890	1,320	94.20	93.93	-0.27	-0.29	94.03	-0.17	-0.18
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁷					(Effect size = 0.14)			(Effect size = 0.16)	
1–67	2,110	480	22.14	20.27	-1.88	-8.47	21.09	-1.05	-4.76
68–83	2,250	520	27.13	29.82	2.69	9.92	32.18	5.05	18.61
84–93	2,840	120	29.13	32.87	3.73	12.81	30.63	1.49	5.12
94 or more	2,420	520	19.79	15.07	-4.73	-23.88	14.38	-5.41	-27.35
None or unknown	880	60	1.81	1.98	0.18	9.79	1.73	-0.08	-4.24
Number of full-time, first-time undergraduate students living on campus ⁷					(Effect size = ‡)			(Effect size = ‡)	
0–37	‡	‡	‡	‡	‡	‡	‡	‡	‡
38–98	310	130	0.49	0.48	-0.01	-1.80	0.42	-0.07	-14.50
99–128	670	30	4.48	5.09	0.61	13.56	4.30	-0.18	-3.96
129 or more	330	450	10.47	4.59	-5.88	-56.17	5.17	-5.30	-50.60
Unknown	9,030	1,090	84.39	89.65	5.26	6.23	89.93	5.54	6.57
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁷					(Effect size = 0.05)			(Effect size = 0.04)	
0–7	1,300	250	6.86	5.67	-1.19	-17.37	6.09	-0.78	-11.30
8–34	2,130	300	22.56	23.05	0.49	2.18	22.10	-0.47	-2.06
35–115	1,780	260	12.13	12.52	0.40	3.27	12.00	-0.12	-1.01
116 or more	3,970	790	54.15	54.22	0.07	0.12	55.43	1.28	2.36
Unknown	1,320	110	4.30	4.54	0.24	5.51	4.38	0.08	1.93

See notes at end of table.

Table M-98. Undergraduate student-level study nonresponse bias analysis for selected variables—private for-profit 4-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Average amount of grant and scholarship aid received ⁷					(Effect size = 0.12)			(Effect size = 0.14)	
\$0–\$4,701	1,950	400	24.61	26.49	1.88	7.65	25.99	1.38	5.61
\$4,702–\$5,827	2,160	140	28.29	31.71	3.42	12.09	32.75	4.46	15.76
\$5,828–\$7,126	2,030	170	7.64	7.84	0.20	2.64	8.21	0.56	7.38
\$7,127 or more	3,210	770	34.15	29.71	-4.43	-12.98	28.23	-5.92	-17.33
Unknown	1,160	220	5.32	4.25	-1.07	-20.14	4.83	-0.48	-9.08

Rounds to zero.

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the difference between the weighted respondent mean and the weighted full-sample mean using the student base weight.² Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the student base weight adjusted for nonresponse) and weighted full-sample mean (using the student base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁷ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-99. Undergraduate student-level study analysis after poststratification for selected variables—all institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Control and level of institution					
Public less-than-2-year	0.35	0.31	0.36	-0.01	-0.05
Public 2-year	31.49	31.52	32.88	-1.39*	-1.36*
Public 4-year, non-doctorate-granting, primarily subbaccalaureate	8.28	8.01	8.38	-0.10	-0.37
Public 4-year, non-doctorate-granting, primarily baccalaureate	5.33	5.33	5.12	0.21*	0.21
Public 4-year, doctorate-granting	29.77	30.02	28.39	1.38*	1.63*
Private nonprofit less-than-4-year	0.40	0.37	0.35	0.05	0.02
Private nonprofit 4-year, non-doctorate-granting	6.71	6.68	6.20	0.51*	0.48*
Private nonprofit 4-year, doctorate-granting	10.66	10.77	10.45	0.21	0.32
Private for-profit less-than-2-year	1.16	1.24	1.57	-0.41*	-0.33*
Private for-profit 2-year	1.20	1.25	1.35	-0.15	-0.10
Private for-profit 4-year	4.65	4.49	4.94	-0.29	-0.45
State, control, and level of institution					
Alabama					
Public 2-year	0.48	0.48	0.45	0.03*	0.03
Public 4-year	0.81	0.81	0.85	-0.04	-0.04
Other	0.29	0.29	0.30	-0.01	-0.01
Alaska					
Public 2-year	‡	‡	‡	‡	‡
Public 4-year	0.14	0.14	0.17	-0.03	-0.03
Other	#	#	0.01	‡	‡
Arizona					
Public 2-year	0.97	0.97	1.20	-0.23*	-0.23
Public 4-year	0.81	0.81	0.72	0.09*	0.09*
Other	1.37	1.37	1.39	-0.02	-0.02
Arkansas					
Public 2-year	0.24	0.24	0.25	-0.01*	-0.01
Public 4-year	0.42	0.42	0.40	0.02	0.02
Other	0.09	0.09	0.09	#	#
California					
Public 2-year	7.34	7.34	7.37	-0.03	-0.03
Public 4-year	5.06	5.06	4.88	0.18	0.18
Other	2.06	2.06	2.09	-0.03	-0.03
Colorado					
Public 2-year	0.11	0.11	0.08	0.03*	0.03*
Public 4-year	1.31	1.31	1.19	0.12*	0.12
Other	0.52	0.52	0.56	-0.04	-0.04
Connecticut					
Public 2-year	0.31	0.31	0.27	0.04*	0.04
Public 4-year	‡	‡	‡	‡	‡
Other	0.44	0.44	0.70	-0.26	-0.26
Delaware					
Public 2-year	‡	‡	‡	‡	‡
Public 4-year	0.23	0.23	0.22	0.01	0.01
Other	0.06	0.06	0.10	-0.04	-0.04

See notes at end of table.

Table M-99. Undergraduate student-level study analysis after poststratification for selected variables—all institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
District of Columbia					
Public 2-year	‡	‡	‡	‡	‡
Public 4-year	0.03	0.03	0.03	#	#
Other	0.29	0.29	0.32	-0.03*	-0.03
Florida					
Public 2-year	0.34	0.34	0.35	-0.01	-0.01
Public 4-year	4.34	4.34	4.37	-0.03	-0.03
Other	1.43	1.43	1.62	-0.19*	-0.19
Georgia					
Public 2-year	0.74	0.74	0.83	-0.09*	-0.09
Public 4-year	1.75	1.75	1.42	0.33	0.33
Other	0.50	0.50	0.42	0.08	0.08
Hawaii					
Public 2-year	0.14	0.14	0.13	0.01*	0.01*
Public 4-year	‡	‡	‡	‡	‡
Other	‡	‡	‡	‡	‡
Idaho					
Public 2-year	0.09	0.09	0.12	-0.03	-0.03
Public 4-year	0.25	0.25	0.24	0.01	0.01
Other	0.37	0.37	0.41	-0.04	-0.04
Illinois					
Public 2-year	1.68	1.68	1.99	-0.31*	-0.31*
Public 4-year	0.74	0.74	0.65	0.09*	0.09*
Other	1.09	1.09	1.04	0.05	0.05
Indiana					
Public 2-year	0.56	0.56	0.75	-0.19	-0.19
Public 4-year	‡	‡	‡	‡	‡
Other	0.41	0.41	0.50	-0.09*	-0.09*
Iowa					
Public 2-year	0.38	0.38	0.33	0.05*	0.05*
Public 4-year	‡	‡	‡	‡	‡
Other	0.26	0.26	0.24	0.02*	0.02
Kansas					
Public 2-year	0.40	0.40	0.43	-0.03	-0.03
Public 4-year	0.41	0.41	0.39	0.02	0.02
Other	0.13	0.13	0.14	-0.01	-0.01
Kentucky					
Public 2-year	0.36	0.36	0.47	-0.11*	-0.11
Public 4-year	0.42	0.42	0.42	#	#
Other	0.20	0.20	0.20	#	#
Louisiana					
Public 2-year	0.43	0.43	0.42	0.01	0.01
Public 4-year	0.65	0.65	0.61	0.04	0.04
Other	0.20	0.20	0.20	#	#
Maine					
Public 2-year	‡	‡	‡	‡	‡
Public 4-year	0.15	0.15	0.13	0.02	0.02
Other	0.10	0.10	0.13	-0.03*	-0.03*

See notes at end of table.

Table M-99. Undergraduate student-level study analysis after poststratification for selected variables—all institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Maryland					
Public 2-year	0.73	0.73	0.71	0.02	0.02
Public 4-year	0.88	0.88	0.88	#	#
Other	0.21	0.21	0.22	-0.01	-0.01
Massachusetts					
Public 2-year	0.50	0.50	0.54	-0.04	-0.04
Public 4-year	0.61	0.61	0.57	0.04	0.04
Other	1.22	1.22	1.14	0.08	0.08
Michigan					
Public 2-year	0.91	0.91	0.87	0.04	0.04
Public 4-year	1.45	1.45	1.37	0.08*	0.08
Other	0.41	0.41	0.41	#	#
Minnesota					
Public 2-year	0.66	0.66	0.55	0.11*	0.11*
Public 4-year	‡	‡	‡	‡	‡
Other	0.49	0.49	0.49	#	#
Mississippi					
Public 2-year	0.40	0.40	0.42	-0.02	-0.02
Public 4-year	‡	‡	‡	‡	‡
Other	0.09	0.09	0.09	#	#
Missouri					
Public 2-year	0.52	0.52	0.69	-0.17	-0.17
Public 4-year	0.62	0.62	0.59	0.03*	0.03
Other	0.57	0.57	0.74	-0.17*	-0.17
Montana					
Public 2-year	0.04	0.04	0.05	-0.01*	-0.01*
Public 4-year	0.19	0.19	0.19	#	#
Other	0.02	0.02	0.03	-0.01	-0.01
Nebraska					
Public 2-year	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡
Other	0.12	0.15	0.15	-0.03*	#
Nevada					
Public 2-year	‡	‡	‡	‡	‡
Public 4-year	0.62	0.62	0.58	0.04*	0.04
Other	0.05	0.05	0.05	#	#
New Hampshire					
Public 2-year	0.04	0.08	0.05	-0.01	0.03
Public 4-year	‡	‡	‡	‡	‡
Other	0.84	0.81	0.11	0.73	0.70
New Jersey					
Public 2-year	0.92	0.92	0.90	0.02	0.02
Public 4-year	0.96	0.96	0.91	0.05	0.05
Other	0.45	0.45	0.45	#	#
New Mexico					
Public 2-year	0.33	0.33	0.33	#	#
Public 4-year	0.24	0.24	0.23	0.01	0.01
Other	‡	‡	‡	‡	‡

See notes at end of table.

Table M-99. Undergraduate student-level study analysis after poststratification for selected variables—all institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
New York					
Public 2-year	1.51	1.51	1.74	-0.23*	-0.23*
Public 4-year	2.04	2.04	2.04	#	#
Other	2.24	2.24	2.35	-0.11	-0.11
North Carolina					
Public 2-year	1.24	1.24	1.26	-0.02	-0.02
Public 4-year	1.14	1.14	1.07	0.07	0.07*
Other	0.50	0.50	0.46	0.04*	0.04
North Dakota					
Public 2-year	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡
Other	0.03	0.03	0.04	-0.01*	-0.01
Ohio					
Public 2-year	0.88	0.88	0.85	0.03*	0.03*
Public 4-year	1.55	1.55	1.61	-0.06	-0.06
Other	0.91	0.91	0.83	0.08	0.08
Oklahoma					
Public 2-year	0.34	0.34	0.34	#	#
Public 4-year	0.53	0.53	0.48	0.05*	0.05*
Other	0.13	0.13	0.18	-0.05*	-0.05
Oregon					
Public 2-year	0.62	0.62	0.66	-0.04	-0.04
Public 4-year	‡	‡	‡	‡	‡
Other	0.15	0.15	0.14	0.01	0.01
Pennsylvania					
Public 2-year	0.77	0.77	0.78	-0.01	-0.01
Public 4-year	1.16	1.16	1.09	0.07	0.07
Other	1.35	1.35	1.35	#	#
Puerto Rico					
Public 2-year	‡	‡	‡	‡	‡
Public 4-year	0.30	0.29	0.28	0.02	0.01
Other	0.70	0.70	0.67	0.03	0.03
Rhode Island					
Public 2-year	0.22	0.22	0.27	-0.05	-0.05
Public 4-year	‡	‡	‡	‡	‡
Other	0.20	0.20	0.25	-0.05	-0.05
South Carolina					
Public 2-year	0.39	0.39	0.44	-0.05	-0.05
Public 4-year	0.62	0.62	0.57	0.05*	0.05
Other	0.24	0.24	0.22	0.02	0.02
South Dakota					
Public 2-year	‡	‡	‡	‡	‡
Public 4-year	0.18	0.18	0.17	0.01*	0.01*
Other	0.05	0.05	0.06	-0.01	-0.01
Tennessee					
Public 2-year	0.59	0.59	0.52	0.07	0.07
Public 4-year	0.67	0.67	0.61	0.06	0.06
Other	0.46	0.46	0.45	0.01	0.01

See notes at end of table.

Table M-99. Undergraduate student-level study analysis after poststratification for selected variables—all institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Texas					
Public 2-year	3.17	3.17	3.21	-0.04	-0.04
Public 4-year	3.57	3.57	3.70	-0.13	-0.13
Other	0.87	0.87	0.88	-0.01	-0.01
Utah					
Public 2-year	‡	‡	‡	‡	‡
Public 4-year	0.81	0.81	0.76	0.05	0.05
Other	1.12	1.12	1.11	0.01	0.01
Vermont					
Public 2-year	‡	‡	‡	‡	‡
Public 4-year	‡	‡	‡	‡	‡
Other	0.09	0.09	0.08	0.01	0.01
Virginia					
Public 2-year	0.85	0.85	0.83	0.02	0.02
Public 4-year	1.03	1.03	0.97	0.06	0.06
Other	0.85	0.85	0.75	0.10	0.10
Washington					
Public 2-year	0.20	0.20	0.17	0.03*	0.03
Public 4-year	1.53	1.53	1.56	-0.03	-0.03
Other	0.25	0.25	0.24	0.01*	0.01
West Virginia					
Public 2-year	‡	‡	‡	‡	‡
Public 4-year	0.28	0.28	0.26	0.02	0.02
Other	0.41	0.41	0.48	-0.07	-0.07
Wisconsin					
Public 2-year	0.48	0.48	0.59	-0.11*	-0.11
Public 4-year	‡	‡	‡	‡	‡
Other	0.23	0.23	0.26	-0.03	-0.03
Wyoming					
Public 2-year	0.10	0.10	0.11	-0.01*	-0.01
Public 4-year	‡	‡	‡	‡	‡
Other	‡	‡	‡	‡	‡
Bureau of Economic Analysis region ³					
New England	5.34	5.34	4.90	0.44	0.44
Mideast	13.82	13.82	14.07	-0.25	-0.25
Great Lakes	13.29	13.29	13.67	-0.38	-0.38
Plains	6.45	6.45	6.63	-0.18	-0.18
Southeast	23.91	23.91	23.51	0.40	0.40
Southwest	12.36	12.36	12.68	-0.32	-0.32
Rocky Mountains	4.98	4.98	4.91	0.07	0.07
Far West	18.86	18.86	18.68	0.18	0.18
Outlying Areas	0.99	0.99	0.94	0.05	0.05
Federal aid status					
Received	52.04	52.04	56.20	-4.16*	-4.16*
Did not receive	43.12	38.14	39.28	3.84*	-1.14*
Unknown	4.84	9.82	4.53	0.31*	5.29*

See notes at end of table.

Table M-99. Undergraduate student-level study analysis after poststratification for selected variables—all institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Direct Loan status					
Received	31.11	31.11	34.30	-3.19*	-3.19*
Did not receive	68.89	68.89	65.70	3.19*	3.19*
Total Direct Loan amount received ⁴					
None	68.89	68.89	65.70	3.19*	3.19*
\$1–\$4,500	7.71	7.71	8.45	-0.74*	-0.74*
\$4,501–\$6,250	7.91	7.91	8.84	-0.93*	-0.93*
\$6,251–\$7,500	8.29	8.30	8.75	-0.46*	-0.45*
\$7,501 or more	7.19	7.19	8.27	-1.08*	-1.08*
Age as of December 31, 2019					
15–23	64.07	63.96	62.60	1.47*	1.36*
24–29	16.07	16.03	16.97	-0.90*	-0.94*
30 or older	19.72	19.67	20.29	-0.57*	-0.62*
Unknown	0.14	0.34	0.14	#	0.20*
Institution aid status					
Received	26.16	26.15	26.15	0.01	#
Did not receive	65.75	57.85	65.43	0.32	-7.58*
Unknown	8.10	16.00	8.43	-0.33	7.57*
State aid status					
Received	19.00	19.00	23.22	-4.22*	-4.22*
Did not receive	71.85	64.52	67.32	4.53*	-2.80*
Unknown	9.14	16.47	9.46	-0.32	7.01*
Veteran status					
Yes	3.64	3.64	3.61	0.03	0.03
No	96.36	96.36	96.39	-0.03	-0.03
Race/ethnicity					
American Indian or Alaska Native, not Hispanic or Latino	0.72	0.68	0.98	-0.26*	-0.30*
Asian, not Hispanic or Latino	7.48	6.88	9.03	-1.55*	-2.15*
Black, not Hispanic or Latino	12.94	12.04	12.56	0.38*	-0.52*
Hispanic or Latino, of any race	21.27	19.45	20.13	1.14*	-0.68*
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	0.33	0.29	0.48	-0.15*	-0.19*
White, not Hispanic or Latino	48.33	45.19	46.31	2.02*	-1.12*
Two or more races, not Hispanic or Latino	4.12	3.65	5.50	-1.38*	-1.85*
Unknown	4.80	11.82	5.02	-0.22*	6.80*
Gender					
Male	42.54	42.03	41.95	0.59*	0.08
Female	56.57	56.01	57.17	-0.60*	-1.16*
Unknown	0.89	1.95	0.87	0.02	1.08*
Institution total undergraduate enrollment ⁴					
1–3,669	15.21	15.23	15.92	-0.71*	-0.69*
3,670–9,668	19.69	19.52	20.24	-0.55*	-0.72
9,669–19,989	25.67	25.86	26.03	-0.36	-0.17
19,990 or more	39.43	39.40	37.80	1.63*	1.60*

See notes at end of table.

Table M-99. Undergraduate student-level study analysis after poststratification for selected variables—all institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Major					
Undecided	‡	‡	‡	‡	‡
Humanities	18.27	17.85	18.43	-0.16	-0.58*
Social/behavioral sciences	7.70	7.24	7.45	0.25*	-0.21
Life sciences	8.97	8.62	8.77	0.20*	-0.15
Physical sciences/mathematics	1.81	1.73	1.73	0.08*	#
Computer/information science	5.07	4.71	5.02	0.05	-0.31*
Engineering	5.90	5.59	5.71	0.19*	-0.12
Education	4.11	3.99	4.04	0.07	-0.05
Business/management	14.90	14.15	14.41	0.49*	-0.26
Health	15.52	14.72	16.06	-0.54*	-1.34*
Vocational/technical	2.92	2.74	3.10	-0.18*	-0.36*
Other technical/professional	11.75	10.91	12.18	-0.43*	-1.27*
Unknown	1.11	6.09	1.17	-0.06	4.92*
Degree program (undergraduate only)					
Certificate	7.34	6.71	8.35	-1.01*	-1.64*
Associate's degree	34.69	30.91	35.58	-0.89*	-4.67*
Bachelor's degree	54.08	53.59	51.92	2.16*	1.67*
Not in a degree program or others	3.23	3.07	3.46	-0.23*	-0.39*
Unknown	0.67	5.71	0.69	-0.02	5.02*
Pell Grant status					
Received	34.79	34.79	40.22	-5.43*	-5.43*
Did not receive	65.21	65.21	59.78	5.43*	5.43*
Total Pell amount received ⁵					
None	65.21	65.21	59.78	5.43*	5.43*
\$1–\$3,097	10.88	10.88	13.89	-3.01*	-3.01*
\$3,098–\$6,194	12.99	12.99	15.00	-2.01*	-2.01*
\$6,195 or more	10.93	10.93	11.34	-0.41*	-0.41*
Received any aid excluding private loans					
Received	65.58	65.58	68.08	-2.50*	-2.50*
Did not receive	30.02	25.04	27.80	2.22*	-2.76*
Unknown	4.39	9.38	4.12	0.27*	5.26*
First-time beginner status (sampled)					
Yes	14.42	14.42	15.03	-0.61*	-0.61*
No	85.58	85.58	84.97	0.61*	0.61*
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁶					
1–67	34.90	34.61	34.87	0.03	-0.26
68–82	28.17	27.94	27.54	0.63	0.40
83–94	23.04	22.99	23.13	-0.09	-0.14
95 or more	13.12	13.65	13.72	-0.60*	-0.07
None or unknown	0.78	0.81	0.75	0.03	0.06

See notes at end of table.

Table M-99. Undergraduate student-level study analysis after poststratification for selected variables—all institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Number of full-time, first-time undergraduate students living on campus ⁶					
0–114	6.55	6.33	6.72	-0.17	-0.39
115–274	7.22	7.17	7.78	-0.56*	-0.61
275–656	10.82	11.02	10.01	0.81	1.01
657 or more	30.42	30.79	28.79	1.63*	2.00*
Unknown	44.99	44.69	46.71	-1.72*	-2.02*
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁶					
0–36	7.31	7.23	7.60	-0.29	-0.37
37–90	11.80	11.98	12.23	-0.43*	-0.25
91–218	20.99	20.70	21.67	-0.68*	-0.97*
219 or more	57.81	57.92	56.52	1.29*	1.40*
Unknown	2.08	2.17	1.98	0.10	0.19
Average amount of grant and scholarship aid received ⁶					
\$0–\$5,000	17.31	17.51	18.19	-0.88*	-0.68
\$5,001–\$6,090	26.24	25.81	26.69	-0.45	-0.88
\$6,091–\$9,754	30.84	30.74	30.51	0.33	0.23
\$9,755 or more	24.44	24.71	23.43	1.01	1.28
Unknown	1.17	1.22	1.19	-0.02	0.03

Rounds to zero.

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the student base weight adjusted for nonresponse.² Mean is calculated using the student base weight adjusted for nonresponse and poststratification.³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Mississippi, Louisiana, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁵ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. For the purpose of this table, "state" includes Puerto Rico and the District of Columbia. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-100. Undergraduate student-level study analysis after poststratification for selected variables—public less-than-2-year institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis region ³					
New England	‡	‡	‡	‡	‡
Mideast	‡	‡	‡	‡	‡
Great Lakes	‡	‡	‡	‡	‡
Plains	‡	‡	‡	‡	‡
Southeast	‡	‡	‡	‡	‡
Southwest	11.14	10.75	12.45	-1.31	-1.70
Rocky Mountains	19.78	23.74	29.74	-9.96*	-6.00
Far West	‡	‡	‡	‡	‡
Outlying Areas	‡	‡	‡	‡	‡
Federal aid status					
Received	55.99	54.15	48.06	7.93*	6.09*
Did not receive	43.22	42.79	51.04	-7.82*	-8.25*
Unknown	0.79	3.06	0.89	-0.10	2.17
Direct Loan status					
Received	‡	‡	‡	‡	‡
Did not receive	79.37	80.08	84.29	-4.92*	-4.21*
Total Direct Loan amount received ⁴					
None	79.37	80.08	84.29	-4.92*	-4.21*
\$1–\$2,932	‡	‡	‡	‡	‡
\$2,933–\$4,850	‡	‡	‡	‡	‡
\$4,851–\$8,034	‡	‡	‡	‡	‡
\$8,035 or more	‡	‡	‡	‡	‡
Age as of December 31, 2019					
15–23	47.55	49.33	51.39	-3.84	-2.06
24–29	23.79	23.25	23.40	0.39	-0.15
30 or older	28.66	27.42	25.21	3.45	2.21
Unknown	‡	‡	‡	‡	‡
Institution aid status					
Received	4.97	5.70	5.73	-0.76	-0.03
Did not receive	93.81	90.24	92.99	0.82	-2.75
Unknown	1.22	4.06	1.27	-0.05	2.79
State aid status					
Received	‡	‡	‡	‡	‡
Did not receive	96.22	93.40	93.28	2.94	0.12
Unknown	1.22	4.06	1.27	-0.05	2.79
Veteran status					
Yes	‡	‡	‡	‡	‡
No	96.67	96.42	96.66	0.01	-0.24

See notes at end of table.

Table M-100. Undergraduate student-level study analysis after poststratification for selected variables—public less-than-2-year institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race/ethnicity					
American Indian or Alaska Native, not Hispanic or Latino	‡	‡	‡	‡	‡
Asian, not Hispanic or Latino	‡	‡	‡	‡	‡
Black, not Hispanic or Latino	‡	‡	‡	‡	‡
Hispanic or Latino, of any race	10.87	10.53	15.67	-4.80*	-5.14*
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡
White, not Hispanic or Latino	51.23	51.82	54.52	-3.29	-2.70
Two or more races, not Hispanic or Latino	‡	‡	‡	‡	‡
Unknown	14.80	16.46	10.39	4.41	6.07*
Gender					
Male	40.26	41.27	42.46	-2.20	-1.19
Female	54.08	52.10	52.70	1.38	-0.60
Unknown	5.66	6.63	4.84	0.82	1.79
Institution total undergraduate enrollment ⁴					
1–738	67.03	64.51	58.58	8.45*	5.93
739–3,938	21.06	21.87	23.38	-2.32	-1.51
3,939–4,493	‡	‡	‡	‡	‡
4,494 or more	‡	‡	‡	‡	‡
Major					
Undecided	‡	‡	‡	‡	‡
Humanities	‡	‡	‡	‡	‡
Social/behavioral sciences	‡	‡	‡	‡	‡
Life sciences	‡	‡	‡	‡	‡
Physical sciences/mathematics	‡	‡	‡	‡	‡
Computer/information science	‡	‡	‡	‡	‡
Engineering	‡	‡	‡	‡	‡
Education	‡	‡	‡	‡	‡
Business/management	‡	‡	‡	‡	‡
Health	54.75	51.30	49.50	5.25*	1.80
Vocational/technical	19.94	21.18	20.43	-0.49	0.75
Other technical/professional	‡	‡	‡	‡	‡
Unknown	0.06	1.80	0.06	#	1.74
Degree program (undergraduate only)					
Certificate	99.88	98.01	99.73	0.15	-1.72
Associate's degree	‡	‡	‡	‡	‡
Bachelor's degree	‡	‡	‡	‡	‡
Not in a degree program or others	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-100. Undergraduate student-level study analysis after poststratification for selected variables—public less-than-2-year institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Pell Grant status					
Received	‡	‡	‡	‡	‡
Did not receive	64.40	65.95	70.86	-6.46*	-4.91
Total Pell amount received ⁵					
None	64.40	65.95	70.86	-6.46*	-4.91
\$1–\$2,837	‡	‡	‡	‡	‡
\$2,838–\$6,194	‡	‡	‡	‡	‡
\$6,195 or more	‡	‡	‡	‡	‡
Received any aid excluding private loans					
Received	61.94	61.04	55.51	6.43*	5.53
Did not receive	37.43	36.07	43.83	-6.40*	-7.76*
Unknown	0.63	2.89	0.66	-0.03	2.23
First-time beginner status (sampled)					
Yes	25.07	27.03	28.20	-3.13	-1.17
No	74.93	72.97	71.80	3.13	1.17
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁶					
1–46	41.63	37.73	47.51	-5.88	-9.78*
47–65	20.40	22.08	18.85	1.55	3.23
66–83	1.58	4.24	2.64	-1.06	1.60
84 or more	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁶					
1–10	‡	‡	‡	‡	‡
11 or more	‡	‡	‡	‡	‡
Unknown	82.05	82.43	83.48	-1.43	-1.05
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁶					
0–3	38.36	36.15	39.78	-1.42	-3.63
4–11	‡	‡	‡	‡	‡
12–21	26.42	26.42	26.09	0.33	0.33
22 or more	‡	‡	‡	‡	‡
Unknown	10.53	12.27	13.44	-2.91	-1.17

See notes at end of table.

Table M-100. Undergraduate student-level study analysis after poststratification for selected variables—public less-than-2-year institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Average amount of grant and scholarship aid received ⁶					
\$0–\$3,048	29.08	26.79	28.26	0.82	-1.47
\$3,049–\$3,955	‡	‡	‡	‡	‡
\$3,956–\$5,239	25.23	25.99	24.07	1.16	1.92
\$5,240 or more	‡	‡	‡	‡	‡
Unknown	18.06	19.77	24.86	-6.80*	-5.09

Rounds to zero.

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the student base weight adjusted for nonresponse.² Mean is calculated using the student base weight adjusted for nonresponse and poststratification.³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Mississippi, Louisiana, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁵ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-101. Undergraduate student-level study analysis after poststratification for selected variables—public 2-year institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis region ³					
New England	3.74	3.86	3.89	-0.15	-0.03
Mideast	12.50	12.49	12.56	-0.06	-0.07
Great Lakes	14.32	14.31	15.34	-1.02*	-1.03
Plains	7.19	7.13	7.03	0.16	0.10
Southeast	19.55	19.53	19.31	0.24	0.22
Southwest	15.28	15.27	15.45	-0.17	-0.18
Rocky Mountains	1.07	1.07	1.09	-0.02	-0.02
Far West	26.35	26.32	25.32	1.03*	1.00
Outlying Areas	‡	‡	‡	‡	‡
Federal aid status					
Received	43.43	43.29	42.86	0.57	0.43
Did not receive	47.77	38.43	48.60	-0.83*	-10.17*
Unknown	8.80	18.29	8.54	0.26	9.75*
Direct Loan status					
Received	14.48	14.36	12.19	2.29*	2.17*
Did not receive	85.52	85.64	87.81	-2.29*	-2.17*
Total Direct Loan amount received ⁴					
None	85.52	85.64	87.81	-2.29*	-2.17*
\$1–\$3,480	3.82	3.80	3.98	-0.16*	-0.18
\$3,481–\$5,500	5.42	5.32	4.54	0.88*	0.78*
\$5,501–\$7,500	2.20	2.21	1.53	0.67*	0.68*
\$7,501 or more	3.04	3.02	2.14	0.90*	0.88*
Age as of December 31, 2019					
15–23	55.24	54.93	54.22	1.02*	0.71*
24–29	19.08	19.03	19.45	-0.37*	-0.42*
30 or older	25.65	25.57	26.29	-0.64*	-0.72*
Unknown	0.03	0.47	0.03	#	0.44*
Institution aid status					
Received	7.34	7.31	7.13	0.21	0.18
Did not receive	80.49	65.92	80.78	-0.29	-14.86*
Unknown	12.16	26.77	12.09	0.07	14.68*
State aid status					
Received	17.28	17.15	21.39	-4.11*	-4.24*
Did not receive	67.65	54.58	63.95	3.70*	-9.37*
Unknown	15.07	28.27	14.66	0.41	13.61*
Veteran status					
Yes	3.91	3.93	4.02	-0.11	-0.09
No	96.09	96.07	95.98	0.11	0.09

See notes at end of table.

Table M-101. Undergraduate student-level study analysis after poststratification for selected variables—public 2-year institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race/ethnicity					
American Indian or Alaska Native, not Hispanic or Latino	0.82	0.76	1.11	-0.29*	-0.35*
Asian, not Hispanic or Latino	6.58	5.31	8.18	-1.60*	-2.87*
Black, not Hispanic or Latino	13.85	12.06	12.98	0.87*	-0.92*
Hispanic or Latino, of any race	25.96	22.01	24.38	1.58*	-2.37*
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	0.46	0.34	0.57	-0.11*	-0.23*
White, not Hispanic or Latino	44.44	38.78	43.78	0.66*	-5.00*
Two or more races, not Hispanic or Latino	3.79	3.01	4.74	-0.95*	-1.73*
Unknown	4.10	17.72	4.26	-0.16	13.46*
Gender					
Male	42.48	41.36	42.55	-0.07	-1.19*
Female	56.39	54.99	56.29	0.10	-1.30*
Unknown	1.13	3.64	1.16	-0.03	2.48*
Institution total undergraduate enrollment ⁴					
1–5,061	13.45	13.43	13.66	-0.21	-0.23
5,062–10,341	20.75	20.70	20.97	-0.22	-0.27
10,342–19,108	28.91	28.35	28.48	0.43	-0.13
19,109 or more	36.90	37.52	36.89	0.01	0.63
Major					
Undecided	‡	‡	‡	‡	‡
Humanities	28.03	26.79	28.15	-0.12	-1.36
Social/behavioral sciences	3.96	3.13	3.71	0.25*	-0.58*
Life sciences	5.38	4.64	5.32	0.06	-0.68*
Physical sciences/mathematics	0.92	0.80	0.92	#	-0.12*
Computer/information science	4.67	4.00	4.72	-0.05	-0.72*
Engineering	4.31	3.74	4.23	0.08	-0.49*
Education	3.04	2.67	3.02	0.02	-0.35*
Business/management	12.06	10.72	11.89	0.17*	-1.17*
Health	17.21	15.34	17.48	-0.27	-2.14*
Vocational/technical	5.68	5.06	5.83	-0.15	-0.77*
Other technical/professional	11.35	9.76	11.26	0.09	-1.50*
Unknown	1.81	12.20	1.93	-0.12	10.27*
Degree program (undergraduate only)					
Certificate	10.77	9.48	11.57	-0.80*	-2.09*
Associate's degree	81.44	71.17	80.41	1.03*	-9.24*
Bachelor's degree	‡	‡	‡	‡	‡
Not in a degree program or others	6.40	6.00	6.64	-0.24	-0.64
Unknown	1.38	11.60	1.38	#	10.22*

See notes at end of table.

Table M-101. Undergraduate student-level study analysis after poststratification for selected variables—public 2-year institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Pell Grant status					
Received	35.62	35.53	36.27	-0.65	-0.74
Did not receive	64.38	64.47	63.73	0.65	0.74
Total Pell amount received ⁵					
None	64.38	64.47	63.73	0.65	0.74
\$1–\$3,097	13.60	13.59	15.64	-2.04*	-2.05*
\$3,098–\$6,194	13.90	13.85	13.80	0.10	0.05
\$6,195 or more	8.12	8.09	6.84	1.28*	1.25*
Received any aid excluding private loans					
Received	52.45	52.27	52.61	-0.16	-0.34
Did not receive	39.13	29.76	39.17	-0.04	-9.41*
Unknown	8.42	17.97	8.21	0.21	9.76*
First-time beginner status (sampled)					
Yes	14.21	14.15	15.04	-0.83*	-0.89*
No	85.79	85.85	84.96	0.83*	0.89*
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁶					
1–64	38.07	37.66	38.07	#	-0.41
65–76	25.57	26.75	25.19	0.38	1.56
77–87	23.49	22.61	23.28	0.21	-0.67
88 or more	12.87	12.97	13.46	-0.59	-0.49
None or unknown	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁶					
0–39	4.02	3.27	3.88	0.14	-0.61*
40–70	3.44	3.52	3.33	0.11	0.19
71–127	3.50	2.93	3.69	-0.19	-0.76
128 or more	5.20	5.26	5.41	-0.21	-0.15
Unknown	83.85	85.02	83.68	0.17	1.34
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁶					
0–52	5.86	5.92	6.13	-0.27	-0.21
53–116	13.71	14.44	13.86	-0.15	0.58
117–242	25.48	24.10	25.76	-0.28	-1.66
243 or more	54.14	54.36	53.48	0.66	0.88
Unknown	0.82	1.18	0.78	0.04	0.40

See notes at end of table.

Table M-101. Undergraduate student-level study analysis after poststratification for selected variables—public 2-year institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Average amount of grant and scholarship aid received ⁶					
\$0–\$4,692	18.99	19.13	19.25	-0.26	-0.12
\$4,693–\$5,283	30.41	29.80	30.13	0.28	-0.33
\$5,284–\$5,932	27.94	28.68	26.90	1.04*	1.78
\$5,933 or more	22.63	22.37	23.70	-1.07*	-1.33
Unknown	0.02	0.02	0.02	#	#

Rounds to zero.

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the student base weight adjusted for nonresponse.² Mean is calculated using the student base weight adjusted for nonresponse and poststratification.³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Mississippi, Louisiana, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁵ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-102. Undergraduate student-level study analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis region ³					
New England	‡	‡	‡	‡	‡
Mideast	3.06	3.11	2.71	0.35	0.40
Great Lakes	8.81	9.32	8.79	0.02	0.53
Plains	‡	‡	‡	‡	‡
Southeast	37.17	35.36	37.07	0.10	-1.71
Southwest	13.08	13.26	12.77	0.31	0.49
Rocky Mountains	7.23	7.14	6.67	0.56	0.47
Far West	29.56	30.86	31.07	-1.51	-0.21
Outlying Areas	‡	‡	‡	‡	‡
Federal aid status					
Received	44.31	44.29	42.32	1.99*	1.97
Did not receive	52.87	48.48	54.75	-1.88*	-6.27*
Unknown	2.82	7.23	2.93	-0.11	4.30*
Direct Loan status					
Received	15.30	15.20	13.12	2.18*	2.08*
Did not receive	84.70	84.80	86.88	-2.18*	-2.08*
Total Direct Loan amount received ⁴					
None	84.70	84.80	86.88	-2.18*	-2.08*
\$1–\$3,500	5.11	5.08	5.23	-0.12	-0.15
\$3,501–\$5,500	4.39	4.36	3.64	0.75*	0.72*
\$5,501–\$7,500	2.43	2.43	1.83	0.60*	0.60*
\$7,501 or more	3.38	3.33	2.43	0.95*	0.90*
Age as of December 31, 2019					
15–23	56.44	56.39	55.40	1.04*	0.99
24–29	19.80	19.74	20.18	-0.38*	-0.44
30 or older	23.75	23.86	24.39	-0.64	-0.53
Unknown	‡	‡	‡	‡	‡
Institution aid status					
Received	7.94	7.96	7.61	0.33*	0.35
Did not receive	88.69	82.59	88.89	-0.20	-6.30*
Unknown	3.37	9.45	3.50	-0.13	5.95*
State aid status					
Received	18.79	18.93	21.45	-2.66	-2.52
Did not receive	77.88	71.99	75.08	2.80*	-3.09
Unknown	3.33	9.07	3.47	-0.14	5.60*
Veteran status					
Yes	4.21	4.21	4.30	-0.09	-0.09
No	95.79	95.79	95.70	0.09	0.09

See notes at end of table.

Table M-102. Undergraduate student-level study analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race/ethnicity					
American Indian or Alaska Native, not Hispanic or Latino	1.32	1.14	1.78	-0.46*	-0.64*
Asian, not Hispanic or Latino	5.47	5.32	7.63	-2.16*	-2.31*
Black, not Hispanic or Latino	13.17	12.66	12.16	1.01*	0.50
Hispanic or Latino, of any race	31.33	30.27	28.02	3.31*	2.25*
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡
White, not Hispanic or Latino	40.88	39.20	40.30	0.58	-1.10
Two or more races, not Hispanic or Latino	3.76	3.45	5.29	-1.53*	-1.84*
Unknown	3.80	7.71	4.45	-0.65*	3.26
Gender					
Male	42.36	41.59	42.31	0.05	-0.72
Female	57.04	56.89	57.01	0.03	-0.12
Unknown	0.60	1.52	0.68	-0.08	0.84
Institution total undergraduate enrollment ⁴					
1–7,161	13.53	13.72	12.93	0.60	0.79
7,162–16,680	21.37	20.20	21.78	-0.41	-1.58
16,681–37,642	25.09	27.54	25.37	-0.28	2.17
37,643 or more	40.00	38.54	39.91	0.09	-1.37
Major					
Undecided	‡	‡	‡	‡	‡
Humanities	30.85	30.12	30.48	0.37	-0.36
Social/behavioral sciences	3.33	3.32	3.46	-0.13	-0.14
Life sciences	3.82	3.66	3.62	0.20*	0.04
Physical sciences/mathematics	0.59	0.64	0.62	-0.03	0.02
Computer/information science	4.69	4.45	4.71	-0.02	-0.26
Engineering	3.69	3.47	3.61	0.08	-0.14
Education	3.43	3.32	3.42	0.01	-0.10
Business/management	12.17	11.60	12.38	-0.21	-0.78
Health	17.43	16.69	16.94	0.49	-0.25
Vocational/technical	3.77	3.54	3.86	-0.09	-0.32
Other technical/professional	11.37	10.79	11.70	-0.33	-0.91*
Unknown	2.43	6.42	2.65	-0.22	3.77*
Degree program (undergraduate only)					
Certificate	8.96	8.89	9.71	-0.75*	-0.82
Associate's degree	71.83	68.90	71.36	0.47	-2.46
Bachelor's degree	14.01	13.96	13.16	0.85*	0.80
Not in a degree program or others	4.65	4.34	5.13	-0.48*	-0.79*
Unknown	0.55	3.90	0.63	-0.08	3.27*

See notes at end of table.

Table M-102. Undergraduate student-level study analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Pell Grant status					
Received	36.20	36.34	35.13	1.07	1.21
Did not receive	63.80	63.66	64.87	-1.07	-1.21
Total Pell amount received ⁵					
None	63.80	63.66	64.87	-1.07	-1.21
\$1–\$3,097	13.42	13.72	14.86	-1.44*	-1.14
\$3,098–\$6,194	14.62	14.56	13.68	0.94*	0.88*
\$6,195 or more	8.16	8.06	6.59	1.57*	1.47*
Received any aid excluding private loans					
Received	52.73	52.84	51.43	1.30	1.41
Did not receive	44.75	40.09	45.96	-1.21	-5.87*
Unknown	2.52	7.08	2.62	-0.10	4.46*
First-time beginner status (sampled)					
Yes	15.36	15.77	15.56	-0.20	0.21
No	84.64	84.23	84.44	0.20	-0.21
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁶					
1–59	35.23	36.30	36.63	-1.40	-0.33
60–71	29.14	28.69	28.95	0.19	-0.26
72–83	20.20	19.26	18.52	1.68*	0.74
84 or more	15.42	15.74	15.90	-0.48	-0.16
None or unknown	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁶					
0–21	8.61	8.70	9.22	-0.61*	-0.52
22–75	3.36	4.89	3.40	-0.04	1.49
76–215	5.66	4.50	6.58	-0.92	-2.08
216 or more	5.22	5.48	4.32	0.90*	1.16*
Unknown	77.15	76.43	76.47	0.68	-0.04
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁶					
0–71	3.39	4.74	3.52	-0.13	1.22
72–132	13.70	13.27	14.05	-0.35	-0.78
133–347	19.50	20.66	18.39	1.11	2.27
348 or more	63.37	61.27	64.01	-0.64	-2.74
Unknown	0.04	0.07	0.03	0.01	0.04

See notes at end of table.

Table M-102. Undergraduate student-level study analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Average amount of grant and scholarship aid received ⁶					
\$0–\$4,914	18.90	18.80	18.68	0.22	0.12
\$4,915–\$5,564	24.67	24.68	24.52	0.15	0.16
\$5,565–\$6,239	26.64	28.06	26.68	-0.04	1.38
\$6,240 or more	29.78	28.44	30.11	-0.33	-1.67
Unknown	‡	‡	‡	‡	‡

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the student base weight adjusted for nonresponse.² Mean is calculated using the student base weight adjusted for nonresponse and poststratification.³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Mississippi, Louisiana, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁵ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-103. Undergraduate student-level study analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis region ³					
New England	8.39	8.37	8.57	-0.18	-0.20
Mideast	20.80	21.18	21.55	-0.75	-0.37
Great Lakes	7.10	6.77	7.08	0.02	-0.31
Plains	6.92	7.12	6.89	0.03	0.23
Southeast	20.01	20.30	18.16	1.85*	2.14*
Southwest	6.02	6.78	6.36	-0.34	0.42
Rocky Mountains	12.52	11.88	12.34	0.18	-0.46
Far West	16.44	15.73	17.14	-0.70	-1.41
Outlying Areas	1.82	1.87	1.91	-0.09	-0.04
Federal aid status					
Received	60.60	60.48	64.25	-3.65*	-3.77*
Did not receive	35.92	32.29	32.25	3.67*	0.04
Unknown	3.47	7.24	3.50	-0.03	3.74*
Direct Loan status					
Received	40.33	39.99	42.93	-2.60*	-2.94*
Did not receive	59.67	60.01	57.07	2.60*	2.94*
Total Direct Loan amount received ⁴					
None	59.67	60.01	57.07	2.60*	2.94*
\$1–\$4,841	10.02	10.03	10.82	-0.80*	-0.79*
\$4,842–\$6,098	9.93	9.70	10.40	-0.47*	-0.70*
\$6,099–\$7,500	12.47	12.56	13.24	-0.77*	-0.68
\$7,501 or more	7.90	7.71	8.46	-0.56*	-0.75*
Age as of December 31, 2019					
15–23	70.59	70.78	69.91	0.68	0.87
24–29	15.43	15.43	15.88	-0.45	-0.45
30 or older	13.97	13.78	14.22	-0.25	-0.44
Unknown	‡	‡	‡	‡	‡
Institution aid status					
Received	29.83	29.42	30.08	-0.25	-0.66
Did not receive	62.76	56.32	62.36	0.40	-6.04*
Unknown	7.41	14.26	7.56	-0.15	6.70*
State aid status					
Received	25.75	25.45	30.55	-4.80*	-5.10*
Did not receive	66.58	59.74	61.64	4.94*	-1.90
Unknown	7.66	14.80	7.81	-0.15	6.99*
Veteran status					
Yes	2.74	2.76	2.77	-0.03	-0.01
No	97.26	97.24	97.23	0.03	0.01

See notes at end of table.

Table M-103. Undergraduate student-level study analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race/ethnicity					
American Indian or Alaska Native, not Hispanic or Latino	1.06	0.95	1.34	-0.28*	-0.39*
Asian, not Hispanic or Latino	6.31	6.03	7.53	-1.22*	-1.50*
Black, not Hispanic or Latino	12.27	11.84	11.75	0.52	0.09
Hispanic or Latino, of any race	18.57	17.62	19.19	-0.62	-1.57*
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡
White, not Hispanic or Latino	55.59	52.43	52.71	2.88*	-0.28
Two or more races, not Hispanic or Latino	3.77	3.37	4.69	-0.92*	-1.32*
Unknown	2.23	7.58	2.49	-0.26*	5.09*
Gender					
Male	42.74	43.12	42.09	0.65*	1.03*
Female	56.62	56.22	57.20	-0.58*	-0.98*
Unknown	‡	‡	‡	‡	‡
Institution total undergraduate enrollment ⁴					
1–3,497	14.09	13.64	14.35	-0.26	-0.71
3,498–5,811	20.54	20.16	20.76	-0.22	-0.60
5,812–11,049	29.57	30.66	28.78	0.79	1.88
11,050 or more	35.80	35.54	36.11	-0.31	-0.57
Major					
Undecided	‡	‡	‡	‡	‡
Humanities	13.62	14.20	13.78	-0.16	0.42
Social/behavioral sciences	11.36	10.92	11.57	-0.21	-0.65*
Life sciences	11.65	11.28	11.31	0.34*	-0.03
Physical sciences/mathematics	2.50	2.28	2.69	-0.19	-0.41
Computer/information science	5.06	5.02	5.04	0.02	-0.02
Engineering	5.44	5.17	5.20	0.24	-0.03
Education	7.69	7.55	7.67	0.02	-0.12
Business/management	17.39	16.69	16.95	0.44*	-0.26
Health	8.72	8.70	8.76	-0.04	-0.06
Vocational/technical	1.65	1.58	1.53	0.12*	0.05
Other technical/professional	12.67	11.86	13.06	-0.39*	-1.20*
Unknown	0.68	3.47	0.76	-0.08	2.71*
Degree program (undergraduate only)					
Certificate	0.72	0.75	0.74	-0.02	0.01
Associate's degree	4.46	4.55	4.27	0.19	0.28
Bachelor's degree	92.79	89.52	92.71	0.08	-3.19*
Not in a degree program or others	1.83	1.83	1.99	-0.16	-0.16
Unknown	0.19	3.37	0.29	-0.10	3.08*

See notes at end of table.

Table M-103. Undergraduate student-level study analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Pell Grant status					
Received	39.68	39.40	43.55	-3.87*	-4.15*
Did not receive	60.32	60.60	56.45	3.87*	4.15*
Total Pell amount received ⁵					
None	60.32	60.60	56.45	3.87*	4.15*
\$1–\$3,097	10.49	10.39	12.38	-1.89*	-1.99*
\$3,098–\$6,194	14.01	13.89	15.30	-1.29*	-1.41*
\$6,195 or more	15.17	15.11	15.87	-0.70	-0.76
Received any aid excluding private loans					
Received	74.20	73.90	76.53	-2.33*	-2.63*
Did not receive	22.95	19.44	20.71	2.24*	-1.27
Unknown	2.85	6.67	2.76	0.09	3.91*
First-time beginner status (sampled)					
Yes	14.36	14.05	14.61	-0.25	-0.56
No	85.64	85.95	85.39	0.25	0.56
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁶					
1–72	29.57	28.76	29.68	-0.11	-0.92
73–85	31.35	32.44	30.37	0.98	2.07
86–92	21.93	21.70	22.32	-0.39	-0.62
93 or more	13.69	13.35	14.36	-0.67	-1.01
None or unknown	3.46	3.75	3.27	0.19	0.48*
Number of full-time, first-time undergraduate students living on campus ⁶					
0–138	12.19	11.61	11.95	0.24	-0.34
139–241	11.30	11.76	12.10	-0.80	-0.34
242–550	16.60	16.69	16.81	-0.21	-0.12
551 or more	35.58	36.26	34.54	1.04	1.72
Unknown	24.31	23.68	24.61	-0.30	-0.93
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁶					
0–56	12.40	11.11	12.57	-0.17	-1.46
57–111	12.37	12.16	12.36	0.01	-0.20
112–219	23.73	24.21	23.72	0.01	0.49
220 or more	49.41	49.67	49.42	-0.01	0.25
Unknown	2.10	2.85	1.94	0.16	0.91*

See notes at end of table.

Table M-103. Undergraduate student-level study analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Average amount of grant and scholarship aid received ⁶					
\$0–\$6,185	27.78	26.46	26.65	1.13	-0.19
\$6,186–\$7,466	24.31	26.75	23.37	0.94	3.38*
\$7,467–\$8,904	17.17	16.15	17.26	-0.09	-1.11
\$8,905 or more	27.23	26.85	29.39	-2.16*	-2.54
Unknown	3.51	3.80	3.33	0.18	0.47*

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.

¹ Mean is calculated using the student base weight adjusted for nonresponse.

² Mean is calculated using the student base weight adjusted for nonresponse and poststratification.

³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Mississippi, Louisiana, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.

⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

⁵ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

⁶ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-104. Undergraduate student-level study analysis after poststratification for selected variables—public 4-year, doctorate-granting institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis region ³					
New England	2.72	2.68	2.67	0.05	0.01
Mideast	13.20	13.04	13.46	-0.26	-0.42
Great Lakes	15.55	15.42	15.80	-0.25	-0.38
Plains	7.13	7.02	7.23	-0.10	-0.21
Southeast	28.07	28.60	27.65	0.42	0.95
Southwest	12.61	12.44	13.14	-0.53	-0.70
Rocky Mountains	4.52	4.68	4.40	0.12	0.28
Far West	15.68	15.59	15.10	0.58	0.49
Outlying Areas	0.53	0.52	0.55	-0.02	-0.03
Federal aid status					
Received	54.23	54.42	62.28	-8.05*	-7.86*
Did not receive	43.79	41.30	36.14	7.65*	5.16*
Unknown	1.98	4.28	1.58	0.40*	2.70*
Direct Loan status					
Received	38.13	38.24	45.50	-7.37*	-7.26*
Did not receive	61.87	61.76	54.50	7.37*	7.26*
Total Direct Loan amount received ⁴					
None	61.87	61.76	54.50	7.37*	7.26*
\$1–\$5,450	9.50	9.63	11.36	-1.86*	-1.73*
\$5,451–\$6,500	13.77	13.77	16.13	-2.36*	-2.36*
\$6,501–\$7,500	8.59	8.50	9.74	-1.15*	-1.24*
\$7,501 or more	6.27	6.34	8.28	-2.01*	-1.94*
Age as of December 31, 2019					
15–23	79.34	79.13	77.55	1.79*	1.58*
24–29	12.00	12.08	13.04	-1.04*	-0.96*
30 or older	8.64	8.74	9.39	-0.75*	-0.65*
Unknown	‡	‡	‡	‡	‡
Institution aid status					
Received	38.13	38.03	39.59	-1.46*	-1.56*
Did not receive	58.91	55.08	57.57	1.34*	-2.49*
Unknown	2.96	6.89	2.84	0.12	4.05*
State aid status					
Received	26.15	26.27	31.83	-5.68*	-5.56*
Did not receive	70.55	66.82	64.95	5.60*	1.87*
Unknown	3.30	6.92	3.22	0.08	3.70*
Veteran status					
Yes	2.43	2.42	2.49	-0.06	-0.07
No	97.57	97.58	97.51	0.06	0.07

See notes at end of table.

Table M-104. Undergraduate student-level study analysis after poststratification for selected variables—public 4-year, doctorate-granting institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race/ethnicity					
American Indian or Alaska Native, not Hispanic or Latino	0.41	0.40	0.54	-0.13*	-0.14*
Asian, not Hispanic or Latino	9.59	9.31	10.73	-1.14*	-1.42*
Black, not Hispanic or Latino	10.45	10.40	10.51	-0.06	-0.11
Hispanic or Latino, of any race	17.59	17.25	17.08	0.51*	0.17
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	0.21	0.22	0.24	-0.03	-0.02
White, not Hispanic or Latino	52.47	51.01	51.01	1.46*	#
Two or more races, not Hispanic or Latino	4.67	4.40	5.29	-0.62*	-0.89*
Unknown	4.61	7.00	4.61	#	2.39*
Gender					
Male	46.00	45.71	45.19	0.81*	0.52*
Female	53.40	53.43	54.24	-0.84*	-0.81*
Unknown	0.60	0.86	0.57	0.03	0.29
Institution total undergraduate enrollment ⁴					
1–10,836	16.69	16.70	18.30	-1.61*	-1.60*
10,837–18,332	20.17	20.48	20.99	-0.82*	-0.51
18,333–28,789	27.17	26.65	25.87	1.30*	0.78
28,790 or more	35.97	36.17	34.84	1.13*	1.33
Major					
Undecided	‡	‡	‡	‡	‡
Humanities	11.25	11.27	11.35	-0.10	-0.08
Social/behavioral sciences	11.22	11.05	11.24	-0.02	-0.19
Life sciences	14.34	14.13	14.31	0.03	-0.18
Physical sciences/mathematics	3.00	2.95	2.96	0.04	-0.01
Computer/information science	5.51	5.33	5.50	0.01	-0.17
Engineering	9.90	9.69	9.66	0.24	0.03
Education	4.38	4.33	4.46	-0.08	-0.13
Business/management	16.15	15.98	15.69	0.46*	0.29
Health	9.19	9.19	9.72	-0.53*	-0.53*
Vocational/technical	0.84	0.81	0.89	-0.05	-0.08
Other technical/professional	11.35	11.20	11.47	-0.12	-0.27
Unknown	0.43	1.82	0.43	#	1.39*
Degree program (undergraduate only)					
Certificate	1.34	1.36	1.25	0.09	0.11
Associate's degree	1.52	1.59	1.64	-0.12	-0.05
Bachelor's degree	95.37	93.98	95.35	0.02	-1.37*
Not in a degree program or others	1.38	1.44	1.40	-0.02	0.04
Unknown	0.39	1.63	0.37	0.02	1.26*

See notes at end of table.

Table M-104. Undergraduate student-level study analysis after poststratification for selected variables—public 4-year, doctorate-granting institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Pell Grant status					
Received	31.86	32.10	39.49	-7.63*	-7.39*
Did not receive	68.14	67.90	60.51	7.63*	7.39*
Total Pell amount received ⁵					
None	68.14	67.90	60.51	7.63*	7.39*
\$1–\$3,189	9.37	9.45	13.12	-3.75*	-3.67*
\$3,190–\$6,194	9.84	9.95	12.02	-2.18*	-2.07*
\$6,195 or more	12.66	12.70	14.34	-1.68*	-1.64*
Received any aid excluding private loans					
Received	72.24	72.41	76.90	-4.66*	-4.49*
Did not receive	26.43	24.03	22.03	4.40*	2.00*
Unknown	1.33	3.56	1.07	0.26*	2.49*
First-time beginner status (sampled)					
Yes	14.31	14.31	14.38	-0.07	-0.07
No	85.69	85.69	85.62	0.07	0.07
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁶					
1–69	32.21	31.21	31.37	0.84	-0.16
70–81	24.53	24.89	25.42	-0.89*	-0.53
82–90	26.55	27.34	26.67	-0.12	0.67
91 or more	16.31	15.90	16.01	0.30	-0.11
None or unknown	0.41	0.66	0.53	-0.12*	0.13
Number of full-time, first-time undergraduate students living on campus ⁶					
0–465	10.94	10.95	11.27	-0.33	-0.32
466–900	15.83	16.36	17.16	-1.33*	-0.80
901–1,551	25.52	25.53	25.57	-0.05	-0.04
1,552 or more	42.67	42.26	40.76	1.91*	1.50
Unknown	5.04	4.90	5.24	-0.20	-0.34
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁶					
0–181	10.97	10.63	11.32	-0.35	-0.69
182–330	20.67	20.84	21.31	-0.64*	-0.47
331–508	27.51	27.42	27.42	0.09	#
509 or more	37.94	38.27	37.02	0.92	1.25
Unknown	2.91	2.83	2.93	-0.02	-0.10

See notes at end of table.

Table M-104. Undergraduate student-level study analysis after poststratification for selected variables—public 4-year, doctorate-granting institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Average amount of grant and scholarship aid received ⁶					
\$0–\$7,027	21.30	21.03	21.92	-0.62	-0.89
\$7,028–\$8,427	19.35	19.35	19.32	0.03	0.03
\$8,428–\$9,919	28.78	28.80	28.85	-0.07	-0.05
\$9,920 or more	29.62	29.61	28.74	0.88	0.87
Unknown	0.95	1.21	1.16	-0.21*	0.05

Rounds to zero.

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the student base weight adjusted for nonresponse.² Mean is calculated using the student base weight adjusted for nonresponse and poststratification.³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Mississippi, Louisiana, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁵ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-105. Undergraduate student-level study analysis after poststratification for selected variables—private nonprofit less-than-4-year institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis region ³					
New England	16.07	24.93	13.96	2.11	10.97
Mideast	‡	‡	‡	‡	‡
Great Lakes	‡	‡	‡	‡	‡
Plains	‡	‡	‡	‡	‡
Southeast	‡	‡	‡	‡	‡
Southwest	‡	‡	‡	‡	‡
Rocky Mountains	5.20	5.24	3.02	2.18	2.22
Far West	‡	‡	‡	‡	‡
Outlying Areas	‡	‡	‡	‡	‡
Federal aid status					
Received	66.82	62.17	91.63	-24.81*	-29.46*
Did not receive	‡	‡	‡	‡	‡
Unknown	7.17	14.50	0.92	6.25	13.58
Direct Loan status					
Received	43.21	37.84	73.31	-30.10*	-35.47*
Did not receive	56.79	62.16	26.69	30.10*	35.47*
Total Direct Loan amount received ⁴					
None	56.79	62.16	26.69	30.10*	35.47*
\$1–\$4,731	‡	‡	‡	‡	‡
\$4,732–\$6,750	‡	‡	‡	‡	‡
\$6,751–\$9,500	‡	‡	‡	‡	‡
\$9,501 or more	‡	‡	‡	‡	‡
Age as of December 31, 2019					
15–23	38.30	36.38	40.81	-2.51	-4.43*
24–29	28.15	26.99	29.93	-1.78	-2.94
30 or older	33.56	36.63	29.26	4.30*	7.37*
Unknown	‡	‡	‡	‡	‡
Institution aid status					
Received	6.82	7.26	7.43	-0.61	-0.17
Did not receive	77.32	68.03	78.47	-1.15	-10.44
Unknown	15.86	24.71	14.10	1.76	10.61
State aid status					
Received	‡	‡	‡	‡	‡
Did not receive	57.89	51.38	38.60	19.29*	12.78
Unknown	24.87	33.01	28.82	-3.95	4.19
Veteran status					
Yes	‡	‡	‡	‡	‡
No	93.24	93.62	94.62	-1.38	-1.00

See notes at end of table.

Table M-105. Undergraduate student-level study analysis after poststratification for selected variables—private nonprofit less-than-4-year institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race/ethnicity					
American Indian or Alaska Native, not Hispanic or Latino	‡	‡	‡	‡	‡
Asian, not Hispanic or Latino	‡	‡	‡	‡	‡
Black, not Hispanic or Latino	‡	‡	‡	‡	‡
Hispanic or Latino, of any race	‡	‡	‡	‡	‡
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡
White, not Hispanic or Latino	49.21	43.56	37.01	12.20*	6.55
Two or more races, not Hispanic or Latino	‡	‡	‡	‡	‡
Unknown	4.51	18.14	2.46	2.05*	15.68
Gender					
Male	34.12	30.41	35.41	-1.29	-5.00
Female	65.29	62.80	64.32	0.97	-1.52
Unknown	0.59	6.79	0.28	0.31	6.51
Institution total undergraduate enrollment ⁴					
1–261	‡	‡	‡	‡	‡
262–1,260	‡	‡	‡	‡	‡
1,261 or more	20.94	29.84	16.52	4.42	13.32
Major					
Undecided	‡	‡	‡	‡	‡
Humanities	2.55	3.28	2.14	0.41	1.14
Social/behavioral sciences	‡	‡	‡	‡	‡
Life sciences	‡	‡	‡	‡	‡
Physical sciences/mathematics	‡	‡	‡	‡	‡
Computer/information science	‡	‡	‡	‡	‡
Engineering	‡	‡	‡	‡	‡
Education	10.00	12.84	10.79	-0.79	2.05
Business/management	‡	‡	‡	‡	‡
Health	‡	‡	‡	‡	‡
Vocational/technical	‡	‡	‡	‡	‡
Other technical/professional	‡	‡	‡	‡	‡
Unknown	2.24	8.28	0.26	1.98	8.02
Degree program (undergraduate only)					
Certificate	44.93	39.43	39.91	5.02	-0.48
Associate's degree	54.50	50.77	59.97	-5.47	-9.20
Bachelor's degree	‡	‡	‡	‡	‡
Not in a degree program or others	‡	‡	‡	‡	‡
Unknown	#	8.97	0.01	‡	8.96
Pell Grant status					
Received	43.10	41.25	83.02	-39.92*	-41.77*
Did not receive	56.90	58.75	16.98	39.92*	41.77*
Total Pell amount received ⁵					
None	56.90	58.75	16.98	39.92*	41.77*
\$1–\$3,072	14.87	15.22	19.41	-4.54	-4.19
\$3,073–\$6,194	14.61	13.57	34.84	-20.23*	-21.27*
\$6,195 or more	13.62	12.45	28.77	-15.15*	-16.32*

See notes at end of table.

Table M-105. Undergraduate student-level study analysis after poststratification for selected variables—private nonprofit less-than-4-year institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Received any aid excluding private loans					
Received	73.97	69.18	93.26	-19.29*	-24.08*
Did not receive	‡	‡	‡	‡	‡
Unknown	6.60	13.93	0.86	5.74	13.07
First-time beginner status (sampled)					
Yes	12.77	14.01	18.30	-5.53*	-4.29*
No	87.23	85.99	81.70	5.53*	4.29*
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁶					
1–75	72.05	64.38	61.56	10.49	2.82
76–90	‡	‡	‡	‡	‡
91–100	18.00	26.46	20.49	-2.49	5.97
None or unknown	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁶					
0–11	56.07	59.44	53.43	2.64	6.01
12–34	‡	‡	‡	‡	‡
35 or more	24.63	23.05	18.57	6.06	4.48
Unknown	‡	‡	‡	‡	‡
Average amount of grant and scholarship aid received ⁶					
\$0–\$4,895	5.20	5.24	3.02	2.18	2.22
\$4,896–\$5,425	‡	‡	‡	‡	‡
\$5,426–\$5,995	73.48	75.50	63.61	9.87	11.89
\$5,996 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the student base weight adjusted for nonresponse.² Mean is calculated using the student base weight adjusted for nonresponse and poststratification.³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Mississippi, Louisiana, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁵ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-106. Undergraduate student-level study analysis after poststratification for selected variables—private nonprofit 4-year, non-doctorate-granting institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis region ³					
New England	9.74	10.05	10.35	-0.61	-0.30
Mideast	17.15	16.12	16.34	0.81	-0.22
Great Lakes	15.72	15.58	16.37	-0.65	-0.79
Plains	10.65	11.08	10.84	-0.19	0.24
Southeast	18.18	18.62	16.58	1.60	2.04
Southwest	‡	‡	‡	‡	‡
Rocky Mountains	19.80	19.81	20.61	-0.81	-0.80
Far West	2.68	2.71	2.65	0.03	0.06
Outlying Areas	4.02	4.14	3.99	0.03	0.15
Federal aid status					
Received	62.67	62.81	67.45	-4.78*	-4.64*
Did not receive	31.20	28.91	26.69	4.51*	2.22*
Unknown	6.13	8.28	5.86	0.27	2.42*
Direct Loan status					
Received	48.92	48.99	53.86	-4.94*	-4.87*
Did not receive	51.08	51.01	46.14	4.94*	4.87*
Total Direct Loan amount received ⁴					
None	51.08	51.01	46.14	4.94*	4.87*
\$1–\$5,500	20.51	20.68	22.27	-1.76*	-1.59*
\$5,501–\$6,500	7.77	7.72	8.27	-0.50	-0.55
\$6,501–\$7,500	10.25	10.16	10.90	-0.65*	-0.74*
\$7,501 or more	10.39	10.42	12.42	-2.03*	-2.00*
Age as of December 31, 2019					
15–23	66.99	67.34	65.45	1.54	1.89
24–29	12.18	12.07	13.15	-0.97*	-1.08*
30 or older	20.79	20.54	21.37	-0.58	-0.83
Unknown	‡	‡	‡	‡	‡
Institution aid status					
Received	47.14	46.61	47.40	-0.26	-0.79
Did not receive	39.42	34.92	38.75	0.67	-3.83*
Unknown	13.44	18.47	13.84	-0.40	4.63*
State aid status					
Received	16.29	15.89	19.27	-2.98*	-3.38*
Did not receive	70.00	65.36	66.63	3.37*	-1.27
Unknown	13.71	18.75	14.10	-0.39	4.65*
Veteran status					
Yes	3.63	3.62	3.33	0.30	0.29
No	96.37	96.38	96.67	-0.30	-0.29

See notes at end of table.

Table M-106. Undergraduate student-level study analysis after poststratification for selected variables—private nonprofit 4-year, non-doctorate-granting institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race/ethnicity					
American Indian or Alaska Native, not Hispanic or Latino	1.42	1.41	1.01	0.41	0.40
Asian, not Hispanic or Latino	5.44	5.11	7.30	-1.86*	-2.19*
Black, not Hispanic or Latino	13.45	12.53	12.37	1.08*	0.16
Hispanic or Latino, of any race	13.43	12.02	13.38	0.05	-1.36
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡
White, not Hispanic or Latino	57.03	52.47	53.69	3.34*	-1.22
Two or more races, not Hispanic or Latino	3.55	3.17	5.85	-2.30*	-2.68*
Unknown	5.52	13.14	5.98	-0.46	7.16*
Gender					
Male	42.01	41.76	41.49	0.52	0.27
Female	56.80	56.84	57.38	-0.58	-0.54
Unknown	1.20	1.40	1.13	0.07	0.27
Institution total undergraduate enrollment ⁴					
1–1,258	14.93	15.51	13.82	1.11	1.69
1,259–1,973	28.05	27.08	28.05	#	-0.97
1,974–4,039	23.35	23.65	22.83	0.52	0.82
4,040 or more	33.66	33.76	35.30	-1.64	-1.54
Major					
Undecided	‡	‡	‡	‡	‡
Humanities	18.47	18.58	17.95	0.52	0.63
Social/behavioral sciences	8.88	8.03	8.80	0.08	-0.77
Life sciences	9.44	9.03	9.42	0.02	-0.39
Physical sciences/mathematics	2.25	2.13	2.21	0.04	-0.08
Computer/information science	6.22	5.92	6.23	-0.01	-0.31
Engineering	3.02	2.69	3.15	-0.13	-0.46
Education	6.48	6.28	6.02	0.46*	0.26
Business/management	17.84	16.61	18.28	-0.44	-1.67*
Health	14.23	13.77	14.43	-0.20	-0.66
Vocational/technical	1.25	1.25	0.98	0.27	0.27
Other technical/professional	9.20	8.44	9.60	-0.40	-1.16*
Unknown	0.48	5.19	0.47	0.01	4.72*
Degree program (undergraduate only)					
Certificate	1.70	1.53	1.68	0.02	-0.15
Associate's degree	8.43	8.02	8.23	0.20	-0.21
Bachelor's degree	88.98	84.32	89.28	-0.30	-4.96*
Not in a degree program or others	0.87	0.75	0.79	0.08	-0.04
Unknown	0.03	5.37	0.02	0.01	5.35*

See notes at end of table.

Table M-106. Undergraduate student-level study analysis after poststratification for selected variables—private nonprofit 4-year, non-doctorate-granting institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Pell Grant status					
Received	34.40	34.37	41.16	-6.76*	-6.79*
Did not receive	65.60	65.63	58.84	6.76*	6.79*
Total Pell amount received ⁵					
None	65.60	65.63	58.84	6.76*	6.79*
\$1–\$3,097	9.48	9.45	11.88	-2.40*	-2.43*
\$3,098–\$6,194	12.48	12.55	14.72	-2.24*	-2.17*
\$6,195 or more	12.44	12.38	14.57	-2.13*	-2.19*
Received any aid excluding private loans					
Received	78.63	78.73	81.17	-2.54*	-2.44*
Did not receive	‡	‡	‡	‡	‡
Unknown	5.31	7.40	5.16	0.15	2.24*
First-time beginner status (sampled)					
Yes	15.26	15.34	14.91	0.35	0.43
No	84.74	84.66	85.09	-0.35	-0.43
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁶					
1–95	50.72	50.60	50.73	-0.01	-0.13
96–99	20.94	21.05	20.47	0.47	0.58
100	27.99	28.03	28.40	-0.41	-0.37
None or unknown	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁶					
0–137	8.58	7.95	9.59	-1.01	-1.64
138–233	12.82	13.98	13.39	-0.57	0.59
234–369	26.59	26.30	26.90	-0.31	-0.60
370 or more	29.11	28.98	27.55	1.56	1.43
Unknown	22.90	22.78	22.58	0.32	0.20
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁶					
0–26	21.36	21.68	20.09	1.27	1.59
27–43	19.34	19.35	19.93	-0.59	-0.58
44–72	22.75	22.98	22.48	0.27	0.50
73 or more	35.09	34.67	36.21	-1.12	-1.54
Unknown	1.46	1.32	1.28	0.18	0.04

See notes at end of table.

Table M-106. Undergraduate student-level study analysis after poststratification for selected variables—private nonprofit 4-year, non-doctorate-granting institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Average amount of grant and scholarship aid received ⁶					
\$0–\$11,821	39.56	39.83	39.35	0.21	0.48
\$11,822–\$19,702	17.58	17.53	18.11	-0.53	-0.58
\$19,703–\$26,070	18.84	18.89	19.61	-0.77	-0.72
\$26,071 or more	23.66	23.41	22.51	1.15	0.90
Unknown	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the student base weight adjusted for nonresponse.² Mean is calculated using the student base weight adjusted for nonresponse and poststratification.³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Mississippi, Louisiana, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁵ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-107. Undergraduate student-level study analysis after poststratification for selected variables—private nonprofit 4-year, doctorate-granting institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis region ³					
New England	17.11	16.35	10.68	6.43	5.67
Mideast	25.21	25.62	27.51	-2.30	-1.89
Great Lakes	11.35	11.33	11.78	-0.43	-0.45
Plains	7.27	7.33	8.72	-1.45*	-1.39*
Southeast	19.95	20.52	21.46	-1.51	-0.94
Southwest	5.72	5.73	5.75	-0.03	-0.02
Rocky Mountains	1.96	1.82	1.94	0.02	-0.12
Far West	8.74	8.87	9.19	-0.45	-0.32
Outlying Areas	2.67	2.42	2.96	-0.29	-0.54
Federal aid status					
Received	56.40	56.73	62.52	-6.12*	-5.79*
Did not receive	40.83	37.15	34.98	5.85*	2.17*
Unknown	2.77	6.12	2.50	0.27	3.62*
Direct Loan status					
Received	44.07	44.58	50.81	-6.74*	-6.23*
Did not receive	55.93	55.42	49.19	6.74*	6.23*
Total Direct Loan amount received ⁴					
None	55.93	55.42	49.19	6.74*	6.23*
\$1–\$5,500	18.91	18.83	20.89	-1.98*	-2.06*
\$5,501–\$6,500	6.78	6.93	8.15	-1.37*	-1.22*
\$6,501–\$7,500	9.07	9.13	11.06	-1.99*	-1.93*
\$7,501 or more	9.30	9.69	10.71	-1.41	-1.02
Age as of December 31, 2019					
15–23	73.80	73.13	74.78	-0.98	-1.65
24–29	10.66	10.82	10.83	-0.17	-0.01
30 or older	14.39	14.44	13.29	1.10	1.15
Unknown	1.15	1.61	1.10	0.05	0.51
Institution aid status					
Received	51.81	51.61	56.11	-4.30	-4.50
Did not receive	41.30	36.86	36.39	4.91	0.47
Unknown	6.89	11.53	7.49	-0.60	4.04*
State aid status					
Received	14.36	14.50	20.83	-6.47*	-6.33*
Did not receive	78.19	73.40	70.96	7.23*	2.44
Unknown	7.45	12.10	8.21	-0.76	3.89*
Veteran status					
Yes	3.06	3.10	2.86	0.20	0.24
No	96.94	96.90	97.14	-0.20	-0.24

See notes at end of table.

Table M-107. Undergraduate student-level study analysis after poststratification for selected variables—private nonprofit 4-year, doctorate-granting institutions: 2019–20—
Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race/ethnicity					
American Indian or Alaska Native, not Hispanic or Latino	‡	‡	‡	‡	‡
Asian, not Hispanic or Latino	10.04	9.45	12.10	-2.06*	-2.65*
Black, not Hispanic or Latino	10.63	10.35	9.75	0.88	0.60
Hispanic or Latino, of any race	15.84	15.03	14.32	1.52*	0.71
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡
White, not Hispanic or Latino	52.86	51.15	50.50	2.36*	0.65
Two or more races, not Hispanic or Latino	4.34	4.04	6.51	-2.17*	-2.47*
Unknown	5.77	9.50	5.92	-0.15	3.58*
Gender					
Male	41.61	41.21	41.41	0.20	-0.20
Female	57.51	57.58	57.96	-0.45	-0.38
Unknown	0.88	1.21	0.63	0.25	0.58*
Institution total undergraduate enrollment ⁴					
1–2,494	15.23	15.75	18.09	-2.86*	-2.34
2,495–4,337	19.59	19.59	20.99	-1.40	-1.40
4,338–8,330	25.14	25.05	26.28	-1.14	-1.23
8,331 or more	40.04	39.60	34.64	5.40	4.96
Major					
Undecided	‡	‡	‡	‡	‡
Humanities	13.31	13.22	13.44	-0.13	-0.22
Social/behavioral sciences	12.63	11.84	12.26	0.37	-0.42
Life sciences	11.33	11.09	11.69	-0.36	-0.60
Physical sciences/mathematics	2.53	2.38	2.28	0.25*	0.10
Computer/information science	5.38	5.12	5.07	0.31	0.05
Engineering	5.51	5.19	5.75	-0.24	-0.56
Education	3.61	3.60	3.96	-0.35	-0.36
Business/management	17.52	17.05	16.20	1.32	0.85
Health	13.33	13.28	14.52	-1.19*	-1.24*
Vocational/technical	‡	‡	‡	‡	‡
Other technical/professional	10.65	10.16	10.55	0.10	-0.39
Unknown	0.84	4.03	0.81	0.03	3.22*
Degree program (undergraduate only)					
Certificate	0.82	0.71	1.01	-0.19	-0.30*
Associate's degree	3.71	3.79	3.52	0.19	0.27
Bachelor's degree	93.15	90.03	92.66	0.49	-2.63*
Not in a degree program or others	1.87	1.76	2.27	-0.40*	-0.51*
Unknown	0.45	3.71	0.54	-0.09	3.17*

See notes at end of table.

Table M-107. Undergraduate student-level study analysis after poststratification for selected variables—private nonprofit 4-year, doctorate-granting institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Pell Grant status					
Received	28.75	28.92	34.11	-5.36*	-5.19*
Did not receive	71.25	71.08	65.89	5.36*	5.19*
Total Pell amount received ⁵					
None	71.25	71.08	65.89	5.36*	5.19*
\$1–\$3,144	10.18	10.14	13.21	-3.03*	-3.07*
\$3,145–\$6,194	8.80	8.85	10.06	-1.26*	-1.21*
\$6,195 or more	9.77	9.93	10.83	-1.06	-0.90
Received any aid excluding private loans					
Received	75.72	75.86	78.82	-3.10*	-2.96*
Did not receive	22.08	18.63	19.22	2.86*	-0.59
Unknown	2.20	5.50	1.96	0.24	3.54*
First-time beginner status (sampled)					
Yes	16.78	16.30	17.44	-0.66	-1.14
No	83.22	83.70	82.56	0.66	1.14
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁶					
1–90	47.14	46.68	39.85	7.29	6.83
91–98	23.31	23.37	26.05	-2.74	-2.68
99–100	28.02	28.56	32.50	-4.48*	-3.94
None or unknown	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁶					
0–194	9.86	10.10	11.42	-1.56	-1.32
195–415	13.99	14.67	16.36	-2.37*	-1.69
416–738	29.89	29.75	24.62	5.27	5.13
739 or more	39.05	38.39	39.15	-0.10	-0.76
Unknown	7.20	7.09	8.45	-1.25	-1.36
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁶					
0–43	10.29	10.25	11.48	-1.19	-1.23
44–68	18.94	19.35	19.02	-0.08	0.33
69–124	26.81	26.90	29.30	-2.49	-2.40
125 or more	42.36	42.06	38.58	3.78	3.48
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

**Table M-107. Undergraduate student-level study analysis after poststratification for selected variables—private nonprofit 4-year, doctorate-granting institutions: 2019–20—
Continued**

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Average amount of grant and scholarship aid received ⁶					
\$0–\$15,784	27.50	26.96	23.57	3.93	3.39
\$15,785–\$22,032	15.30	15.03	17.53	-2.23	-2.50*
\$22,033–\$27,903	21.64	22.00	23.63	-1.99	-1.63
\$27,904 or more	34.03	34.61	33.67	0.36	0.94
Unknown	‡	‡	‡	‡	‡

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the student base weight adjusted for nonresponse.² Mean is calculated using the student base weight adjusted for nonresponse and poststratification.³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Mississippi, Louisiana, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁵ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-108. Undergraduate student-level study analysis after poststratification for selected variables—private for-profit less-than-2-year institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis region ³					
New England	4.40	4.31	6.88	-2.48	-2.57
Mideast	20.96	18.70	22.92	-1.96	-4.22
Great Lakes	20.60	19.29	14.18	6.42	5.11
Plains	‡	‡	‡	‡	‡
Southeast	24.53	21.89	23.29	1.24	-1.40
Southwest	11.32	14.22	11.01	0.31	3.21
Rocky Mountains	1.88	1.58	3.16	-1.28	-1.58
Far West	13.50	17.87	14.96	-1.46	2.91
Outlying Areas	‡	‡	‡	‡	‡
Federal aid status					
Received	68.53	67.48	84.75	-16.22*	-17.27*
Did not receive	25.90	21.03	12.24	13.66*	8.79
Unknown	5.56	11.49	3.02	2.54*	8.47*
Direct Loan status					
Received	55.08	52.30	64.38	-9.30*	-12.08*
Did not receive	44.92	47.70	35.62	9.30*	12.08*
Total Direct Loan amount received ⁴					
None	44.92	47.70	35.62	9.30*	12.08*
\$1–\$4,400	14.58	13.99	18.90	-4.32*	-4.91*
\$4,401–\$6,333	13.26	12.27	17.25	-3.99*	-4.98*
\$6,334–\$9,500	21.67	21.23	23.79	-2.12	-2.56
\$9,501 or more	5.57	4.82	4.44	1.13	0.38
Age as of December 31, 2019					
15–23	44.15	44.43	44.98	-0.83	-0.55
24–29	25.29	24.98	27.89	-2.60*	-2.91*
30 or older	30.55	30.36	27.11	3.44	3.25
Unknown	‡	‡	‡	‡	‡
Institution aid status					
Received	‡	‡	‡	‡	‡
Did not receive	69.50	56.61	65.63	3.87	-9.02*
Unknown	25.12	38.58	28.39	-3.27	10.19*
State aid status					
Received	‡	‡	‡	‡	‡
Did not receive	73.80	60.58	69.93	3.87	-9.35*
Unknown	24.34	37.70	27.04	-2.70	10.66*
Veteran status					
Yes	3.32	3.11	3.21	0.11	-0.10
No	96.68	96.89	96.79	-0.11	0.10

See notes at end of table.

Table M-108. Undergraduate student-level study analysis after poststratification for selected variables—private for-profit less-than-2-year institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race/ethnicity					
American Indian or Alaska Native, not Hispanic or Latino	‡	‡	‡	‡	‡
Asian, not Hispanic or Latino	‡	‡	‡	‡	‡
Black, not Hispanic or Latino	23.99	18.65	24.24	-0.25	-5.59*
Hispanic or Latino, of any race	25.17	19.25	24.06	1.11	-4.81
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡
White, not Hispanic or Latino	32.66	26.45	27.85	4.81	-1.40
Two or more races, not Hispanic or Latino	‡	‡	‡	‡	‡
Unknown	10.38	30.46	13.61	-3.23	16.85*
Gender					
Male	18.95	18.97	17.80	1.15	1.17
Female	79.80	78.45	80.70	-0.90	-2.25
Unknown	1.24	2.58	1.50	-0.26	1.08
Institution total undergraduate enrollment ⁴					
1–214	17.94	16.88	22.26	-4.32	-5.38
215–422	29.83	24.15	22.49	7.34	1.66
423–764	36.87	38.84	40.21	-3.34	-1.37
765 or more	15.35	20.13	15.04	0.31	5.09
Major					
Undecided	‡	‡	‡	‡	‡
Humanities	‡	‡	‡	‡	‡
Social/behavioral sciences	‡	‡	‡	‡	‡
Life sciences	‡	‡	‡	‡	‡
Physical sciences/mathematics	‡	‡	‡	‡	‡
Computer/information science	‡	‡	‡	‡	‡
Engineering	1.53	1.93	1.39	0.14	0.54
Education	‡	‡	‡	‡	‡
Business/management	‡	‡	‡	‡	‡
Health	44.45	42.72	36.53	7.92	6.19
Vocational/technical	5.43	6.69	4.27	1.16	2.42
Other technical/professional	41.06	32.69	50.50	-9.44*	-17.81*
Unknown	2.39	12.00	2.50	-0.11	9.50*
Degree program (undergraduate only)					
Certificate	97.93	85.38	97.91	0.02	-12.53*
Associate's degree	‡	‡	‡	‡	‡
Bachelor's degree	‡	‡	‡	‡	‡
Not in a degree program or others	2.06	2.55	2.09	-0.03	0.46
Unknown	#	11.42	#	‡	‡*

See notes at end of table.

Table M-108. Undergraduate student-level study analysis after poststratification for selected variables—private for-profit less-than-2-year institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Pell Grant status					
Received	56.50	56.07	78.76	-22.26*	-22.69*
Did not receive	43.50	43.93	21.24	22.26*	22.69*
Total Pell amount received ⁵					
None	43.50	43.93	21.24	22.26*	22.69*
\$1–\$3,097	16.31	15.90	26.74	-10.43*	-10.84*
\$3,098–\$6,194	24.11	24.07	34.70	-10.59*	-10.63*
\$6,195 or more	16.07	16.10	17.32	-1.25	-1.22
Received any aid excluding private loans					
Received	70.55	69.38	85.71	-15.16*	-16.33*
Did not receive	24.09	19.35	11.40	12.69*	7.95
Unknown	5.36	11.27	2.89	2.47*	8.38*
First-time beginner status (sampled)					
Yes	20.38	20.44	19.05	1.33	1.39
No	79.62	79.56	80.95	-1.33	-1.39
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁶					
1–62	29.03	26.49	22.40	6.63	4.09
63–72	19.09	22.95	20.80	-1.71	2.15
73–85	24.22	26.78	24.19	0.03	2.59
86 or more	27.47	23.58	32.30	-4.83	-8.72*
None or unknown	0.19	0.20	0.31	-0.12	-0.11
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁶					
0–12	8.81	8.62	10.79	-1.98	-2.17
13–24	8.84	6.56	11.41	-2.57	-4.85*
25–54	17.48	14.99	18.51	-1.03	-3.52
55 or more	62.91	67.74	57.17	5.74	10.57*
Unknown	1.97	2.08	2.12	-0.15	-0.04

See notes at end of table.

Table M-108. Undergraduate student-level study analysis after poststratification for selected variables—private for-profit less-than-2-year institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Average amount of grant and scholarship aid received ⁵					
\$0–\$4,175	43.03	43.94	38.57	4.46	5.37
\$4,176–\$4,843	19.04	22.39	17.73	1.31	4.66
\$4,844–\$5,437	22.97	21.08	27.67	-4.70	-6.59
\$5,438 or more	14.78	12.39	15.73	-0.95	-3.34
Unknown	0.19	0.20	0.31	-0.12	-0.11

Rounds to zero.

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the student base weight adjusted for nonresponse.² Mean is calculated using the student base weight adjusted for nonresponse and poststratification.³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Mississippi, Louisiana, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁵ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-109. Undergraduate student-level study analysis after poststratification for selected variables—private for-profit 2-year institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis region ³					
New England	1.40	1.34	2.86	-1.46	-1.52
Mideast	9.73	12.92	10.24	-0.51	2.68
Great Lakes	4.85	6.78	6.33	-1.48	0.45
Plains	2.21	1.92	6.01	-3.80	-4.09
Southeast	45.40	42.63	34.67	10.73*	7.96
Southwest	12.08	10.28	14.37	-2.29	-4.09
Rocky Mountains	3.44	4.03	6.33	-2.89	-2.30
Far West	13.24	10.90	13.96	-0.72	-3.06
Outlying Areas	7.65	9.19	5.23	2.42	3.96
Federal aid status					
Received	66.25	65.20	90.09	-23.84*	-24.89*
Did not receive	28.65	24.86	8.36	20.29*	16.50*
Unknown	5.11	9.95	1.55	3.56*	8.40*
Direct Loan status					
Received	48.95	47.41	74.26	-25.31*	-26.85*
Did not receive	51.05	52.59	25.74	25.31*	26.85*
Total Direct Loan amount received ⁴					
None	51.05	52.59	25.74	25.31*	26.85*
\$1–\$4,750	12.26	12.08	19.33	-7.07*	-7.25*
\$4,751–\$7,588	11.37	10.73	15.13	-3.76*	-4.40*
\$7,589–\$9,500	15.48	15.10	26.58	-11.10*	-11.48*
\$9,501 or more	9.84	9.49	13.22	-3.38*	-3.73*
Age as of December 31, 2019					
15–23	39.69	39.92	39.80	-0.11	0.12
24–29	28.54	27.93	29.30	-0.76	-1.37
30 or older	31.77	32.13	30.90	0.87	1.23
Unknown	‡	‡	‡	‡	‡
Institution aid status					
Received	‡	‡	‡	‡	‡
Did not receive	70.25	59.61	64.44	5.81	-4.83
Unknown	25.97	36.98	29.65	-3.68	7.33
State aid status					
Received	1.87	2.13	4.44	-2.57*	-2.31*
Did not receive	79.88	70.15	70.19	9.69*	-0.04
Unknown	18.26	27.72	25.37	-7.11*	2.35
Veteran status					
Yes	5.24	5.64	4.72	0.52	0.92
No	94.76	94.36	95.28	-0.52	-0.92

See notes at end of table.

Table M-109. Undergraduate student-level study analysis after poststratification for selected variables—private for-profit 2-year institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race/ethnicity					
American Indian or Alaska Native, not Hispanic or Latino	‡	‡	‡	‡	‡
Asian, not Hispanic or Latino	5.18	4.44	4.74	0.44	-0.30
Black, not Hispanic or Latino	18.08	15.61	22.74	-4.66*	-7.13*
Hispanic or Latino, of any race	28.51	26.32	24.53	3.98	1.79
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡
White, not Hispanic or Latino	32.10	25.60	28.65	3.45	-3.05
Two or more races, not Hispanic or Latino	‡	‡	‡	‡	‡
Unknown	11.34	24.24	11.31	0.03	12.93*
Gender					
Male	33.63	37.61	30.88	2.75	6.73*
Female	65.87	59.35	68.50	-2.63	-9.15*
Unknown	0.50	3.04	0.62	-0.12	2.42*
Institution total undergraduate enrollment ⁴					
1–609	38.30	35.95	32.91	5.39	3.04
610–911	25.18	22.42	31.37	-6.19*	-8.95*
912–1,382	14.68	16.49	16.54	-1.86	-0.05
1,383 or more	21.85	25.15	19.18	2.67	5.97
Major					
Undecided	‡	‡	‡	‡	‡
Humanities	‡	‡	‡	‡	‡
Social/behavioral sciences	‡	‡	‡	‡	‡
Life sciences	‡	‡	‡	‡	‡
Physical sciences/mathematics	‡	‡	‡	‡	‡
Computer/information science	‡	‡	‡	‡	‡
Engineering	3.86	3.67	3.93	-0.07	-0.26
Education	‡	‡	‡	‡	‡
Business/management	1.40	1.50	1.07	0.33	0.43
Health	62.98	54.19	64.40	-1.42	-10.21*
Vocational/technical	15.28	17.80	15.21	0.07	2.59
Other technical/professional	10.26	10.51	10.09	0.17	0.42
Unknown	2.09	8.73	1.05	1.04	7.68*
Degree program (undergraduate only)					
Certificate	60.60	57.27	65.25	-4.65	-7.98*
Associate's degree	38.34	32.65	33.65	4.69	-1.00
Bachelor's degree	‡	‡	‡	‡	‡
Not in a degree program or others	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table M-109. Undergraduate student-level study analysis after poststratification for selected variables—private for-profit 2-year institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Pell Grant status					
Received	48.50	48.16	83.42	-34.92*	-35.26*
Did not receive	51.50	51.84	16.58	34.92*	35.26*
Total Pell amount received ⁶					
None	51.50	51.84	16.58	34.92*	35.26*
\$1–\$3,097	14.27	14.58	25.63	-11.36*	-11.05*
\$3,098–\$6,194	18.03	17.19	32.64	-14.61*	-15.45*
\$6,195 or more	16.20	16.39	25.15	-8.95*	-8.76*
Received any aid excluding private loans					
Received	68.67	67.47	90.94	-22.27*	-23.47*
Did not receive	‡	‡	‡	‡	‡
Unknown	11.08	17.30	3.95	7.13*	13.35*
First-time beginner status (sampled)					
Yes	14.71	17.25	22.46	-7.75*	-5.21*
No	85.29	82.75	77.54	7.75*	5.21*
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁶					
1–59	17.11	19.19	14.57	2.54	4.62
60–73	23.64	22.99	26.46	-2.82	-3.47
74–85	17.53	18.20	22.96	-5.43*	-4.76
86 or more	25.66	27.15	27.43	-1.77	-0.28
None or unknown	‡	‡	‡	‡	‡
Number of full-time, first-time undergraduate students living on campus ⁶					
0	0.72	0.85	1.54	-0.82	-0.69
1–59	7.75	9.27	4.30	3.45	4.97
60 or more	1.60	2.38	2.01	-0.41	0.37
Unknown	89.92	87.49	92.15	-2.23	-4.66
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁶					
0–16	14.62	16.76	11.44	3.18	5.32
17–55	17.25	15.39	25.00	-7.75*	-9.61*
56–97	12.41	13.30	14.84	-2.43	-1.54
98 or more	31.67	32.63	33.35	-1.68	-0.72
Unknown	24.05	21.92	15.38	8.67	6.54

See notes at end of table.

Table M-109. Undergraduate student-level study analysis after poststratification for selected variables—private for-profit 2-year institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Average amount of grant and scholarship aid received ⁶					
\$0–\$4,149	17.66	23.04	15.49	2.17	7.55
\$4,150–\$4,779	31.87	29.98	34.55	-2.68	-4.57
\$4,780–\$5,500	16.22	15.09	19.66	-3.44	-4.57
\$5,501 or more	18.06	19.32	21.40	-3.34	-2.08
Unknown	‡	‡	‡	‡	‡

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the student base weight adjusted for nonresponse.² Mean is calculated using the student base weight adjusted for nonresponse and poststratification.

³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Mississippi, Louisiana, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.

⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

⁵ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

⁶ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-110. Undergraduate student-level study analysis after poststratification for selected variables—private for-profit 4-year institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis region ³					
New England	4.30	4.49	7.98	-3.68	-3.49
Mideast	4.83	5.02	5.38	-0.55	-0.36
Great Lakes	‡	‡	‡	‡	‡
Plains	‡	‡	‡	‡	‡
Southeast	20.55	19.82	21.14	-0.59	-1.32
Southwest	28.56	29.13	26.60	1.96	2.53
Rocky Mountains	7.35	7.81	7.64	-0.29	0.17
Far West	24.10	23.49	20.53	3.57	2.96
Outlying Areas	‡	‡	‡	‡	‡
Federal aid status					
Received	65.55	65.18	77.47	-11.92*	-12.29*
Did not receive	30.13	28.96	19.58	10.55*	9.38*
Unknown	4.32	5.86	2.96	1.36	2.90*
Direct Loan status					
Received	50.20	49.93	62.83	-12.63*	-12.90*
Did not receive	49.80	50.07	37.17	12.63*	12.90*
Total Direct Loan amount received ⁴					
None	49.80	50.07	37.17	12.63*	12.90*
\$1–\$4,906	12.15	12.03	16.72	-4.57*	-4.69*
\$4,907–\$7,949	11.63	11.60	14.56	-2.93*	-2.96*
\$7,950–\$10,699	12.23	12.15	17.32	-5.09*	-5.17*
\$10,700 or more	14.19	14.15	14.23	-0.04	-0.08
Age as of December 31, 2019					
15–23	20.42	19.58	21.91	-1.49*	-2.33*
24–29	26.67	26.64	28.36	-1.69*	-1.72*
30 or older	52.90	53.73	49.72	3.18*	4.01*
Unknown	‡	‡	‡	‡	‡
Institution aid status					
Received	30.23	31.27	27.53	2.70	3.74
Did not receive	61.01	58.53	63.90	-2.89	-5.37*
Unknown	8.77	10.20	8.57	0.20	1.63
State aid status					
Received	2.20	2.25	3.54	-1.34*	-1.29
Did not receive	88.95	87.40	87.78	1.17	-0.38
Unknown	8.85	10.35	8.69	0.16	1.66
Veteran status					
Yes	10.28	10.39	8.68	1.60*	1.71*
No	89.72	89.61	91.32	-1.60*	-1.71*

See notes at end of table.

Table M-110. Undergraduate student-level study analysis after poststratification for selected variables—private for-profit 4-year institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race/ethnicity					
American Indian or Alaska Native, not Hispanic or Latino	‡	‡	‡	‡	‡
Asian, not Hispanic or Latino	4.18	4.33	7.47	-3.29*	-3.14*
Black, not Hispanic or Latino	22.43	21.70	21.87	0.56	-0.17
Hispanic or Latino, of any race	20.43	19.92	15.99	4.44*	3.93*
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡
White, not Hispanic or Latino	37.93	38.46	32.31	5.62*	6.15*
Two or more races, not Hispanic or Latino	‡	‡	‡	‡	‡
Unknown	8.37	9.25	8.32	0.05	0.93
Gender					
Male	32.92	32.67	31.46	1.46	1.21
Female	66.04	66.25	67.45	-1.41	-1.20
Unknown	1.05	1.07	1.09	-0.04	-0.02
Institution total undergraduate enrollment ⁴					
1–1,114	6.02	5.66	6.44	-0.42	-0.78
1,115–4,031	16.40	16.75	17.05	-0.65	-0.30
4,032–26,622	23.08	24.30	26.51	-3.43	-2.21
26,623 or more	54.51	53.29	50.01	4.50	3.28
Major					
Undecided	‡	‡	‡	‡	‡
Humanities	7.18	7.17	7.30	-0.12	-0.13
Social/behavioral sciences	‡	‡	‡	‡	‡
Life sciences	3.19	3.13	3.64	-0.45	-0.51
Physical sciences/mathematics	‡	‡	‡	‡	‡
Computer/information science	5.08	4.78	5.25	-0.17	-0.47
Engineering	‡	‡	‡	‡	‡
Education	5.52	6.43	4.80	0.72*	1.63
Business/management	25.61	24.41	24.49	1.12	-0.08
Health	31.29	32.49	30.72	0.57	1.77
Vocational/technical	‡	‡	‡	‡	‡
Other technical/professional	14.82	14.37	16.20	-1.38	-1.83
Unknown	0.06	0.34	0.08	-0.02	0.26
Degree program (undergraduate only)					
Certificate	3.69	3.42	4.14	-0.45	-0.72
Associate's degree	16.59	15.41	18.90	-2.31*	-3.49*
Bachelor's degree	79.06	80.11	76.39	2.67*	3.72*
Not in a degree program or others	‡	‡	‡	‡	‡
Unknown	0.22	0.61	0.19	0.03	0.42

See notes at end of table.

Table M-110. Undergraduate student-level study analysis after poststratification for selected variables—private for-profit 4-year institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Pell Grant status					
Received	44.50	44.03	61.45	-16.95*	-17.42*
Did not receive	55.50	55.97	38.55	16.95*	17.42*
Total Pell amount received ⁵					
None	55.50	55.97	38.55	16.95*	17.42*
\$1–\$3,097	12.37	12.16	20.04	-7.67*	-7.88*
\$3,098–\$6,194	15.46	15.42	23.70	-8.24*	-8.28*
\$6,195 or more	16.67	16.46	17.71	-1.04	-1.25
Received any aid excluding private loans					
Received	80.40	80.57	87.98	-7.58*	-7.41*
Did not receive	‡	‡	‡	‡	‡
Unknown	3.64	4.83	2.51	1.13	2.32*
First-time beginner status (sampled)					
Yes	5.97	5.80	8.82	-2.85*	-3.02*
No	94.03	94.20	91.18	2.85*	3.02*
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁶					
1–67	21.09	22.14	19.39	1.70	2.75
68–83	32.18	27.13	32.46	-0.28	-5.33*
84–93	30.63	29.13	27.59	3.04	1.54
94 or more	14.38	19.79	18.29	-3.91	1.50
None or unknown	1.73	1.81	2.27	-0.54	-0.46
Number of full-time, first-time undergraduate students living on campus ⁶					
0–37	‡	‡	‡	‡	‡
38–98	0.42	0.49	0.67	-0.25	-0.18
99–128	4.30	4.48	8.03	-3.73	-3.55
129 or more	5.17	10.47	4.26	0.91	6.21
Unknown	89.93	84.39	86.89	3.04	-2.50
Number of full-time, first-time undergraduate students receiving Title IV aid with income up to \$30,000 ⁶					
0–7	6.09	6.86	6.27	-0.18	0.59
8–34	22.10	22.56	22.08	0.02	0.48
35–115	12.00	12.13	12.87	-0.87	-0.74
116 or more	55.43	54.15	54.18	1.25	-0.03
Unknown	4.38	4.30	4.60	-0.22	-0.30

See notes at end of table.

Table M-110. Undergraduate student-level study analysis after poststratification for selected variables—private for-profit 4-year institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Average amount of grant and scholarship aid received ⁶					
\$0–\$4,701	25.99	24.61	22.17	3.82	2.44
\$4,702–\$5,827	32.75	28.29	31.97	0.78	-3.68
\$5,828–\$7,126	8.21	7.64	8.48	-0.27	-0.84
\$7,127 or more	28.23	34.15	32.21	-3.98	1.94
Unknown	4.83	5.32	5.17	-0.34	0.15

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < 0.05$.

¹ Mean is calculated using the student base weight adjusted for nonresponse.

² Mean is calculated using the student base weight adjusted for nonresponse and poststratification.

³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Mississippi, Louisiana, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.

⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

⁵ Pell Grant amounts include summer awards and are categorized by quartiles for students receiving less than \$6,195, with students receiving \$6,195 or more in one category. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

⁶ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-111. Summary of undergraduate student-level study nonresponse bias analysis and analysis after poststratification, by state, overall and by 2-year and 4-year public institutions: 2019–20

		Nonresponse bias statistics ¹								Summary statistics			
										Difference between means for respondents before and after poststratification adjustment ⁴		Difference between means for full sample and respondents after poststratification adjustment ⁵	
		Before nonresponse weight adjustments ²				After nonresponse weight adjustments ³							
		Percent relative bias across characteristics		Percentage of characteristics with significant bias	Median effect size	Percent relative bias across characteristics		Percentage of characteristics with significant bias	Median effect size	Absolute difference across characteristics		Absolute difference across characteristics	
		Mean	Median			Mean	Median			Mean	Median		
State ⁶	Control and level of institution	Mean	Median			Mean	Median			Mean	Median	Mean	Median
Alabama	Overall	13.27	4.12	5.36	0.01	12.19	2.14	14.29	#	1.98	0.90	3.37	2.48
	2-year public	24.41	12.80	29.41	0.10	21.24	9.27	13.73	0.03	1.29	0.49	6.45	4.45
	4-year public	8.69	2.71	#	0.02	7.79	1.35	#	0.01	1.28	0.64	1.82	1.39
Alaska	Overall	14.11	6.73	7.84	0.08	7.28	0.51	3.92	0.02	1.28	0.61	1.18	0.96
	2-year public	†	†	†	†	†	†	†	†	†	†	†	†
	4-year public	11.56	6.59	14.63	0.12	4.54	0.58	7.32	#	2.35	1.76	1.82	1.80
Arizona	Overall	13.63	4.74	3.17	0.03	12.47	3.14	4.76	0.01	2.42	1.76	3.38	2.52
	2-year public	19.11	8.75	#	0.07	16.29	4.28	#	0.01	1.05	1.03	3.87	1.75
	4-year public	1.17	0.44	12.50	‡	0.72	0.25	4.17	‡	6.52	2.92	6.42	2.53
Arkansas	Overall	14.73	4.86	22.81	0.05	11.72	0.87	7.02	#	1.54	1.13	2.65	2.26
	2-year public	17.65	4.33	#	0.04	17.27	3.14	#	0.03	1.00	0.61	1.63	1.34
	4-year public	19.11	7.23	6.38	0.05	15.20	3.71	4.26	0.01	2.53	1.93	3.86	3.89
California	Overall	18.23	13.41	68.18	0.08	15.38	5.85	46.97	0.04	1.19	0.67	3.53	1.93
	2-year public	23.82	16.47	59.02	0.07	21.74	8.91	45.90	#	0.69	0.45	5.21	2.04
	4-year public	12.07	4.49	32.14	0.04	10.05	2.16	19.64	0.01	1.94	1.48	2.46	1.62
Colorado	Overall	12.67	5.47	24.59	0.05	8.48	1.99	14.75	0.02	2.23	1.68	2.48	1.24
	2-year public	22.02	1.81	#	0.01	22.36	2.39	#	0.02	3.75	1.72	5.63	5.17
	4-year public	12.68	3.86	#	0.02	11.25	1.48	2.00	#	1.44	0.78	1.93	1.19
Connecticut	Overall	18.70	5.47	16.95	0.06	16.01	3.42	23.73	0.01	4.90	3.67	5.65	4.79
	2-year public	26.54	13.37	7.14	0.19	25.19	8.03	2.38	0.17	2.23	1.38	7.51	6.24
	4-year public	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Delaware	Overall	26.58	11.86	20.00	0.06	13.32	0.46	6.67	#	2.10	1.92	3.26	2.54
	2-year public	†	†	†	†	†	†	†	†	†	†	†	†
	4-year public	30.33	17.64	30.19	0.24	14.08	6.75	16.98	0.04	2.01	1.21	2.96	1.74

See notes at end of table.

Table M-111. Summary of undergraduate student-level study nonresponse bias analysis and analysis after poststratification, by state, overall and by 2-year and 4-year public institutions: 2019–20—Continued

State ⁶		Nonresponse bias statistics ¹								Summary statistics			
		Before nonresponse weight adjustments ²				After nonresponse weight adjustments ³				Difference between means for respondents before and after poststratification adjustment ⁴		Difference between means for full sample and respondents after poststratification adjustment ⁵	
		Control and level of institution	Percent relative bias across characteristics		Percentage of characteristics with significant bias	Median effect size	Percent relative bias across characteristics		Percentage of characteristics with significant bias	Median effect size	Absolute difference across characteristics		Absolute difference across characteristics
Mean	Median		Mean	Median			Mean	Median			Mean	Median	
District of Columbia	Overall	23.55	10.78	37.04	0.05	17.29	1.53	29.63	#	2.86	0.70	5.79	2.07
	2-year public	†	†	†	†	†	†	†	†	†	†	†	†
	4-year public	14.74	7.45	82.50	#	24.63	17.32	#	0.07	1.51	0.98	6.89	4.24
Florida	Overall	11.78	2.99	26.87	0.03	10.28	1.23	22.39	0.01	1.30	0.82	1.87	1.09
	2-year public	26.06	11.25	9.62	0.18	24.58	10.57	17.31	0.19	1.75	1.23	5.28	3.12
	4-year public	13.62	4.06	11.86	0.07	12.75	2.99	15.25	0.07	1.00	0.66	2.01	1.65
Georgia	Overall	18.28	11.22	47.69	0.11	11.23	2.09	24.62	0.01	3.18	1.84	3.56	3.44
	2-year public	28.75	16.90	36.54	0.15	20.13	6.15	28.85	#	3.78	2.47	6.66	3.63
	4-year public	8.52	4.76	40.00	0.06	3.22	0.87	1.82	0.01	4.06	2.71	4.26	1.98
Hawaii	Overall	0.29	0.24	26.32	#	0.17	#	#	#	0.96	0.43	1.00	0.64
	2-year public	0.19	0.16	50.00	‡	#	#	#	‡	1.31	1.15	1.31	1.15
	4-year public	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Idaho	Overall	41.02	31.80	45.00	0.12	18.79	0.38	18.33	#	1.78	0.91	4.14	2.02
	2-year public	15.88	5.67	78.13	#	8.60	#	#	#	1.27	1.23	4.41	1.41
	4-year public	10.57	8.72	27.78	0.13	5.07	0.01	11.11	#	1.36	1.00	3.35	1.82
Illinois	Overall	13.44	3.51	34.48	0.03	11.90	1.62	31.03	0.01	1.88	1.29	3.12	2.13
	2-year public	17.54	7.48	50.00	0.06	16.08	4.19	38.46	0.04	1.75	0.86	4.47	3.51
	4-year public	0.85	0.53	4.35	0.01	0.58	#	4.35	0.01	3.98	1.59	3.99	2.16
Indiana	Overall	11.42	1.26	14.29	0.01	10.02	0.71	6.12	#	1.70	1.24	1.74	1.19
	2-year public	9.22	1.58	100.00	‡	8.55	0.01	#	‡	4.73	3.39	4.96	3.76
	4-year public	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Iowa	Overall	9.33	1.09	2.63	#	7.44	0.34	7.89	#	2.11	0.90	2.35	1.40
	2-year public	17.42	1.17	#	0.01	17.22	0.06	#	#	1.55	0.56	1.95	1.38
	4-year public	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-111. Summary of undergraduate student-level study nonresponse bias analysis and analysis after poststratification, by state, overall and by 2-year and 4-year public institutions: 2019–20—Continued

State ⁶	Control and level of institution	Nonresponse bias statistics ¹								Summary statistics			
		Before nonresponse weight adjustments ²				After nonresponse weight adjustments ³				Difference between means for respondents before and after poststratification adjustment ⁴		Difference between means for full sample and respondents after poststratification adjustment ⁵	
		Percent relative bias across characteristics		Percentage of characteristics with significant bias	Median effect size	Percent relative bias across characteristics		Percentage of characteristics with significant bias	Median effect size	Absolute difference across characteristics		Absolute difference across characteristics	
		Mean	Median			Mean	Median			Mean	Median	Mean	Median
Kansas	Overall	22.45	13.38	3.64	0.07	19.92	4.82	10.91	#	1.57	1.16	4.80	2.29
	2-year public	39.06	32.45	28.26	0.24	31.04	12.76	30.43	0.15	4.77	4.75	12.96	9.20
	4-year public	0.81	0.82	#	‡	0.49	0.19	#	‡	2.22	0.41	2.23	0.39
Kentucky	Overall	13.32	3.66	1.89	0.02	10.78	0.84	3.77	0.02	3.03	2.24	3.38	2.51
	2-year public	17.21	4.87	#	0.02	14.77	2.19	#	0.02	3.68	2.74	4.25	3.62
	4-year public	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Louisiana	Overall	17.15	10.03	57.38	0.05	12.50	1.28	21.31	0.02	1.91	1.12	2.97	1.90
	2-year public	23.33	9.27	31.37	0.11	22.06	5.37	31.37	0.04	2.09	1.52	7.43	3.80
	4-year public	2.70	2.11	2.70	0.04	1.88	1.13	5.41	0.01	2.25	1.23	2.65	1.87
Maine	Overall	15.07	3.70	29.41	0.04	10.62	0.85	7.84	0.01	2.22	1.52	2.52	2.01
	2-year public	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
	4-year public	18.57	5.07	#	0.06	12.55	0.78	#	0.03	2.53	1.21	3.53	3.12
Maryland	Overall	17.63	9.16	13.79	0.04	9.90	1.36	13.79	#	1.47	0.62	2.71	1.15
	2-year public	26.93	12.78	26.53	0.06	12.74	0.35	14.29	#	3.84	1.19	6.16	2.05
	4-year public	14.79	1.65	#	0.01	14.05	0.61	#	#	0.96	0.68	1.86	1.48
Massachusetts	Overall	11.23	3.46	15.63	0.05	9.87	2.02	14.06	0.02	1.59	1.06	2.00	1.40
	2-year public	11.69	3.86	#	0.03	10.45	1.03	4.44	#	1.48	0.83	2.62	1.10
	4-year public	3.07	2.50	2.78	0.04	0.48	#	#	#	2.64	2.48	2.68	2.48
Michigan	Overall	11.44	3.02	12.73	0.03	9.39	0.33	1.82	#	2.10	1.46	2.31	2.05
	2-year public	12.29	3.93	#	0.04	11.66	2.80	#	0.03	1.20	0.43	2.22	1.15
	4-year public	12.36	2.67	16.67	0.03	10.75	1.56	8.33	0.02	1.35	0.69	1.54	1.14
Minnesota	Overall	9.36	1.64	16.98	0.01	7.21	0.56	7.55	#	2.14	1.36	2.23	1.37
	2-year public	1.70	1.40	#	0.01	0.80	0.01	3.03	#	2.09	0.98	2.29	1.49
	4-year public	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-111. Summary of undergraduate student-level study nonresponse bias analysis and analysis after poststratification, by state, overall and by 2-year and 4-year public institutions: 2019–20—Continued

State ⁶	Control and level of institution	Nonresponse bias statistics ¹								Summary statistics			
		Before nonresponse weight adjustments ²				After nonresponse weight adjustments ³				Difference between means for respondents before and after poststratification adjustment ⁴		Difference between means for full sample and respondents after poststratification adjustment ⁵	
		Percent relative bias across characteristics		Percentage of characteristics with significant bias	Median effect size	Percent relative bias across characteristics		Percentage of characteristics with significant bias	Median effect size	Absolute difference across characteristics		Absolute difference across characteristics	
		Mean	Median			Mean	Median			Mean	Median	Mean	Median
Mississippi	Overall	13.98	3.66	#	0.04	11.99	0.68	5.88	0.03	2.26	1.91	3.19	3.00
	2-year public	16.84	5.58	#	0.06	16.01	4.67	#	0.04	1.72	1.04	4.31	2.79
	4-year public	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Missouri	Overall	12.96	4.15	16.07	0.04	10.18	1.50	14.29	#	2.22	1.47	3.17	2.39
	2-year public	15.78	3.41	#	0.01	14.57	3.56	#	0.02	1.43	1.04	4.22	2.37
	4-year public	11.91	3.54	2.08	0.04	10.94	3.31	10.42	0.04	1.65	0.78	2.34	2.00
Montana	Overall	42.53	26.10	39.68	0.16	41.85	18.65	28.57	0.07	1.44	1.09	10.27	3.03
	2-year public	42.18	28.15	68.75	0.25	42.15	24.17	77.08	0.29	1.57	0.94	12.55	8.90
	4-year public	58.76	42.24	46.30	0.34	74.39	43.87	37.04	0.07	1.23	0.79	17.91	6.85
Nebraska	Overall	8.86	3.59	#	0.06	6.52	0.57	#	#	1.61	1.22	1.88	1.41
	2-year public	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
	4-year public	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Nevada	Overall	12.00	4.34	#	0.03	10.16	0.80	9.43	#	1.77	0.76	1.93	1.10
	2-year public	†	†	†	†	†	†	†	†	†	†	†	†
	4-year public	4.78	2.98	3.70	0.04	2.59	0.62	11.11	0.01	2.69	2.69	2.80	2.32
New Hampshire	Overall	16.51	3.26	1.82	0.02	15.67	2.80	#	#	7.43	3.41	6.84	3.27
	2-year public	28.63	6.65	30.95	0.02	28.13	6.74	14.29	0.02	1.72	0.76	10.51	2.92
	4-year public	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
New Jersey	Overall	16.11	6.92	20.00	0.06	12.83	3.48	13.85	0.02	1.64	0.94	3.18	1.88
	2-year public	18.44	9.36	14.58	0.07	18.10	7.67	18.75	0.03	0.91	0.52	5.26	2.20
	4-year public	16.79	3.85	#	0.01	14.50	2.82	2.04	0.02	4.71	3.23	5.75	4.54
New Mexico	Overall	9.73	0.66	4.08	0.01	8.87	0.35	2.04	#	3.08	1.68	3.15	1.82
	2-year public	13.45	1.11	23.53	0.02	12.32	0.54	2.94	0.01	6.02	4.61	6.01	4.62
	4-year public	13.62	0.31	#	‡	11.84	0.48	#	‡	7.02	5.46	7.17	4.98

See notes at end of table.

Table M-111. Summary of undergraduate student-level study nonresponse bias analysis and analysis after poststratification, by state, overall and by 2-year and 4-year public institutions: 2019–20—Continued

		Nonresponse bias statistics ¹								Summary statistics			
										Difference between means for respondents before and after poststratification adjustment ⁴		Difference between means for full sample and respondents after poststratification adjustment ⁵	
		Before nonresponse weight adjustments ²				After nonresponse weight adjustments ³							
		Percent relative bias across characteristics		Percentage of characteristics with significant bias	Median effect size	Percent relative bias across characteristics		Percentage of characteristics with significant bias	Median effect size	Absolute difference across characteristics		Absolute difference across characteristics	
		Mean	Median			Mean	Median			Mean	Median		
State ⁶	Control and level of institution	Mean	Median			Mean	Median			Mean	Median	Mean	Median
New York	Overall	16.73	7.73	55.07	0.10	13.01	2.54	23.19	0.04	1.01	0.64	2.05	1.38
	2-year public	19.09	7.87	25.40	0.06	16.74	3.75	23.81	0.01	1.33	0.72	3.79	1.60
	4-year public	15.51	6.28	35.94	0.16	10.62	1.77	21.88	0.01	0.77	0.20	1.73	1.00
North Carolina	Overall	12.17	3.71	35.00	0.04	9.51	0.79	18.33	0.01	1.08	0.50	1.36	1.02
	2-year public	12.73	3.23	10.00	0.03	12.06	1.24	6.00	0.02	0.66	0.28	1.36	0.77
	4-year public	10.99	3.78	5.26	0.05	6.44	1.84	#	0.03	2.54	1.40	2.53	1.83
North Dakota	Overall	6.53	3.72	10.64	0.04	4.12	2.12	4.26	0.02	1.75	1.59	2.23	1.61
	2-year public	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
	4-year public	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Ohio	Overall	4.79	2.08	26.23	0.03	3.41	0.74	1.64	0.01	1.04	0.88	1.09	0.80
	2-year public	5.96	0.76	#	0.02	4.99	0.01	#	#	0.81	0.49	0.97	0.88
	4-year public	7.30	4.27	28.57	0.07	3.07	0.27	1.79	0.01	1.02	0.58	1.23	0.87
Oklahoma	Overall	15.25	5.69	4.55	0.05	12.02	2.36	12.12	0.02	2.97	1.66	4.02	3.57
	2-year public	18.59	7.35	10.20	0.07	14.22	4.66	12.24	0.04	1.84	1.19	4.74	1.95
	4-year public	10.86	2.19	2.56	0.01	11.87	2.54	25.64	0.03	3.07	0.90	3.42	2.64
Oregon	Overall	8.98	4.20	4.00	0.05	6.30	0.40	6.00	#	1.84	1.67	2.00	1.90
	2-year public	6.38	6.60	15.63	0.07	2.04	1.09	3.13	0.03	2.19	1.83	2.71	2.03
	4-year public	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Pennsylvania	Overall	12.80	5.16	33.33	0.06	11.28	3.39	20.29	0.02	2.29	1.24	2.53	1.23
	2-year public	16.71	5.18	#	0.06	17.01	5.56	4.35	0.04	1.51	0.97	3.57	2.80
	4-year public	15.94	6.53	33.33	0.12	14.56	4.50	7.58	0.09	3.16	1.44	2.98	1.72
Puerto Rico	Overall	12.04	4.62	16.36	0.02	11.01	2.45	14.55	#	2.65	1.46	3.87	3.44
	2-year public	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
	4-year public	12.90	3.35	13.16	0.03	12.85	3.66	13.16	0.03	1.87	0.84	3.34	1.49

See notes at end of table.

Table M-111. Summary of undergraduate student-level study nonresponse bias analysis and analysis after poststratification, by state, overall and by 2-year and 4-year public institutions: 2019–20—Continued

		Nonresponse bias statistics ¹								Summary statistics			
										Difference between means for respondents before and after poststratification adjustment ⁴		Difference between means for full sample and respondents after poststratification adjustment ⁵	
		Before nonresponse weight adjustments ²				After nonresponse weight adjustments ³							
		Percent relative bias across characteristics		Percentage of characteristics with significant bias	Median effect size	Percent relative bias across characteristics		Percentage of characteristics with significant bias	Median effect size	Absolute difference across characteristics		Absolute difference across characteristics	
		Mean	Median			Mean	Median			Mean	Median		
State ⁶	Control and level of institution	Mean	Median			Mean	Median			Mean	Median	Mean	Median
Rhode Island	Overall	33.35	26.53	36.54	0.20	9.85	1.01	7.69	#	2.86	2.14	3.48	3.45
	2-year public	25.64	13.42	84.09	0.06	15.20	1.63	#	#	1.50	1.48	2.74	1.54
	4-year public	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
South Carolina	Overall	13.85	4.39	3.70	0.03	7.87	1.22	1.85	#	1.96	1.04	2.46	1.91
	2-year public	18.56	9.09	22.73	0.07	11.57	4.14	4.55	0.03	3.09	1.54	4.43	3.05
	4-year public	2.03	0.87	#	‡	1.51	0.64	#	‡	1.65	0.72	1.43	0.40
South Dakota	Overall	14.21	7.23	7.55	0.09	10.02	1.55	3.77	#	2.29	1.77	3.05	2.13
	2-year public	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
	4-year public	16.47	6.98	#	0.17	10.05	2.22	4.88	0.03	1.12	0.67	2.14	1.62
Tennessee	Overall	14.10	3.59	27.42	0.02	12.26	2.00	20.97	0.01	2.26	1.39	3.01	2.07
	2-year public	15.72	3.08	1.85	0.02	15.10	2.72	7.41	0.02	4.49	2.05	5.06	2.89
	4-year public	15.45	4.08	#	0.02	13.52	3.20	2.94	#	2.88	3.02	4.37	4.46
Texas	Overall	14.30	6.10	35.94	0.05	11.66	2.57	17.19	0.04	1.69	0.64	2.56	1.56
	2-year public	18.39	8.82	18.64	0.05	16.04	6.49	16.95	#	0.90	0.48	3.42	1.70
	4-year public	12.06	1.65	3.92	0.01	11.11	0.65	1.96	#	2.25	1.17	2.68	1.99
Utah	Overall	9.69	2.32	#	0.02	7.85	0.44	#	#	1.87	1.04	2.12	1.65
	2-year public	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
	4-year public	13.98	3.85	#	0.09	10.61	1.00	#	0.03	0.97	0.58	2.03	1.94
Vermont	Overall	15.15	0.39	#	‡	15.07	0.55	#	‡	1.99	1.77	1.96	1.21
	2-year public	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
	4-year public	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Virginia	Overall	12.24	3.01	26.00	0.02	10.31	0.41	16.00	#	1.56	0.92	1.91	0.94
	2-year public	16.27	3.53	4.55	0.03	15.72	3.86	4.55	0.03	1.12	0.68	2.92	2.20
	4-year public	10.53	2.94	#	0.03	7.22	1.45	11.11	0.01	2.77	2.02	2.72	2.93

See notes at end of table.

Table M-111. Summary of undergraduate student-level study nonresponse bias analysis and analysis after poststratification, by state, overall and by 2-year and 4-year public institutions: 2019–20—Continued

State ⁶	Control and level of institution	Nonresponse bias statistics ¹								Summary statistics			
		Before nonresponse weight adjustments ²				After nonresponse weight adjustments ³				Difference between means for respondents before and after poststratification adjustment ⁴		Difference between means for full sample and respondents after poststratification adjustment ⁵	
		Percent relative bias across characteristics		Percentage of characteristics with significant bias	Median effect size	Percent relative bias across characteristics		Percentage of characteristics with significant bias	Median effect size	Absolute difference across characteristics		Absolute difference across characteristics	
		Mean	Median			Mean	Median			Mean	Median	Mean	Median
Washington	Overall	20.90	11.13	40.00	0.06	17.00	4.79	23.33	0.01	1.07	0.54	3.93	1.48
	2-year public	37.81	28.70	2.78	0.08	35.43	27.77	2.78	0.07	1.71	1.34	12.92	6.36
	4-year public	19.93	9.96	26.32	0.06	16.45	3.81	22.81	0.03	1.47	0.91	4.25	1.68
West Virginia	Overall	10.55	1.83	#	0.02	9.43	1.00	5.26	0.04	1.64	1.16	1.95	1.54
	2-year public	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
	4-year public	13.11	3.49	#	0.06	8.30	0.74	#	0.02	2.07	1.02	2.45	1.71
Wisconsin	Overall	13.32	1.86	1.96	0.08	11.80	0.26	#	0.08	1.74	1.31	1.93	1.55
	2-year public	18.32	5.09	#	0.10	17.48	4.52	#	0.07	1.74	1.20	3.14	3.39
	4-year public	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Wyoming	Overall	19.41	7.24	#	0.06	11.84	1.26	9.09	#	1.72	1.02	3.37	1.39
	2-year public	21.82	10.15	13.64	0.11	12.97	3.31	11.36	#	0.96	0.63	4.27	1.50
	4-year public	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

† Not applicable.

Rounds to zero.

‡ Reporting standards not met (fewer than five characteristics had at least 30 nonrespondents).

¹ Relative bias and effect size are calculated using the weighted differences between respondent and full-sample means. Relative bias is calculated as 100 times the ratio of estimated bias to the weighted full-sample mean. Effect size is calculated as the square root of the sum over categories of the squared differences over full-sample means.² Respondent and full-sample means are weighted using the student base weight.³ Full-sample means are weighted using the student base weight and the respondent means are weighted using the student base weight adjusted for nonresponse.⁴ Respondent means before poststratification adjustment are weighted using the student base weight adjusted for nonresponse. Respondent means after poststratification adjustment are weighted using the student base weight adjusted for nonresponse and poststratification.⁵ Full-sample means are weighted using the student base weight and respondent means are weighted using the student base weight adjusted for nonresponse and poststratification.⁶ For the purpose of this table, "state" includes Puerto Rico and District of Columbia.

NOTE: Characteristics that did not meet reporting standards were excluded from calculation of summary statistics. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-112. Graduate student-level nonresponse bias analysis for selected variables—all institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Control and level of institution					(Effect size = ‡)			(Effect size = ‡)	
Public 4-year, non-doctorate-granting, primarily subbaccalaureate	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 4-year, non-doctorate-granting, primarily baccalaureate	1,260	550	3.47	3.49	0.02	0.57	3.47	#	#
Public 4-year, doctorate-granting	7,050	2,580	43.73	44.11	0.38	0.88	43.73	#	#
Private nonprofit 4-year, non-doctorate-granting	1,360	440	5.46	5.88	0.42*	7.68	5.46	#	#
Private nonprofit 4-year, doctorate-granting	6,420	2,640	37.94	36.81	-1.13	-2.97	37.94	#	#
Private for-profit 4-year	3,450	1,380	9.06	9.29	0.23	2.48	9.06	#	#
Bureau of Economic Analysis region ⁴					(Effect size = 0.04)			(Effect size = #)	
New England	1,360	610	7.41	6.86	-0.55	-7.37	7.41	#	#
Mideast	3,660	1,780	19.09	18.13	-0.96	-5.04	19.09	#	#
Great Lakes	2,530	840	13.68	13.76	0.08	0.60	13.68	#	#
Plains	1,950	720	9.26	9.87	0.61	6.55	9.26	#	#
Southeast	4,000	1,600	22.15	22.49	0.34	1.54	22.15	#	#
Southwest	2,340	820	10.82	10.67	-0.15	-1.38	10.82	#	#
Rocky Mountains	1,050	330	4.59	4.94	0.35	7.60	4.59	#	#
Far West	2,520	830	12.23	12.42	0.18	1.51	12.23	#	#
Outlying Areas	240	80	0.78	0.87	0.10	12.26	0.78	#	#
Federal aid status					(Effect size = 0.06)			(Effect size = #)	
Received	8,270	2,450	39.64	42.49	2.84*	7.17	39.64	#	#
Did not receive	9,670	4,090	52.91	50.58	-2.34*	-4.42	52.91	#	#
Unknown	1,720	1,070	7.44	6.94	-0.50	-6.78	7.44	#	#
Direct Loan status					(Effect size = 0.05)			(Effect size = #)	
Received	7,200	2,120	36.70	39.30	2.60*	7.08	36.70	#	#
Did not receive	12,450	5,490	63.30	60.70	-2.60*	-4.10	63.30	#	#
Total Direct Loan amount received ⁵					(Effect size = 0.07)			(Effect size = #)	
None	12,450	5,490	63.30	60.70	-2.60*	-4.10	63.30	#	#
\$1–\$10,250	1,720	610	9.67	9.28	-0.39	-4.04	9.67	#	#
\$10,251–\$20,499	1,750	480	8.66	9.52	0.86*	9.89	8.66	#	#
\$20,500	2,120	550	12.19	13.47	1.28*	10.48	12.19	#	#
\$20,501 or more	1,610	480	6.19	7.04	0.85*	13.81	6.19	#	#

See notes at end of table.

Table M-112. Graduate student-level nonresponse bias analysis for selected variables—all institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Age as of December 31, 2019					(Effect size = ‡)			(Effect size = ‡)	
15–23	2,240	910	13.56	14.01	0.45	3.29	13.61	0.05	0.38
24–29	7,210	2,600	39.38	40.15	0.76	1.94	39.59	0.20	0.52
30 or older	10,200	4,000	46.70	45.84	-0.86	-1.84	46.80	0.10	0.21
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Institution aid status					(Effect size = ‡)			(Effect size = ‡)	
Received	6,820	1,850	30.98	33.03	2.05*	6.62	30.98	#	#
Did not receive	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	2,460	5,760	28.44	10.04	-18.40*	-64.70	10.52	-17.93*	-63.03
State aid status					(Effect size = 0.02)			(Effect size = #)	
Received	400	90	2.46	2.78	0.32*	12.85	2.46	#	#
Did not receive	16,580	6,110	86.91	87.04	0.14	0.16	86.91	#	#
Unknown	2,670	1,410	10.63	10.18	-0.45	-4.25	10.63	#	#
Received any aid excluding private loans					(Effect size = ‡)			(Effect size = ‡)	
Received	14,330	3,790	66.57	72.70	6.12*	9.20	66.57	#	#
Did not receive	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	1,210	3,820	17.67	5.20	-12.47*	-70.56	6.09	-11.58*	-65.53
Veteran status					(Effect size = #)			(Effect size = #)	
Yes	1,990	760	4.37	4.47	0.10	2.21	4.37	#	#
No	17,660	6,850	95.63	95.53	-0.10	-0.10	95.63	#	#
Race/ethnicity					(Effect size = ‡)			(Effect size = ‡)	
American Indian or Alaska Native, not Hispanic or Latino	70	40	0.27	0.24	-0.03	-11.16	0.62	0.36*	133.24
Asian, not Hispanic or Latino	2,960	790	12.81	13.87	1.05*	8.21	12.81	#	#
Black, not Hispanic or Latino	2,790	870	12.31	13.10	0.78*	6.36	12.31	#	#
Hispanic or Latino, of any race	2,240	680	11.44	12.43	0.99*	8.65	11.44	#	#
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
White, not Hispanic or Latino	10,650	2,930	52.80	56.51	3.71*	7.02	52.80	#	#
Two or more races, not Hispanic or Latino	690	210	3.05	2.93	-0.12	-3.99	6.89	3.84*	125.98
Unknown	190	2,070	7.15	0.76	-6.39*	-89.42	2.77	-4.38*	-61.30

See notes at end of table.

Table M-112. Graduate student-level nonresponse bias analysis for selected variables—all institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Gender					(Effect size = 0.05)			(Effect size = 0.01)	
Male	8,110	3,270	38.40	37.88	-0.52	-1.35	38.69	0.29	0.75
Female	11,360	4,070	60.12	61.24	1.12*	1.87	59.93	-0.19	-0.31
Unknown	180	270	1.48	0.88	-0.60*	-40.71	1.38	-0.10	-6.87
Institution total graduate enrollment ⁵					(Effect size = 0.03)			(Effect size = #)	
1–1,615	4,970	1,850	15.78	16.09	0.31	1.96	15.78	#	#
1,616–4,775	4,890	1,960	25.36	26.09	0.74	2.91	25.36	#	#
4,776–11,064	5,060	1,870	31.11	29.81	-1.30	-4.19	31.11	#	#
11,065 or more	4,740	1,940	27.76	28.01	0.26	0.92	27.76	#	#
Graduate field of study or major					(Effect size = ‡)			(Effect size = ‡)	
Humanities	780	370	5.69	5.10	-0.59*	-10.38	5.01	-0.67*	-11.86
Social/behavioral sciences	1,030	230	6.76	7.28	0.52	7.63	6.98	0.23	3.33
Life sciences	1,640	320	6.53	7.59	1.06*	16.25	7.35	0.82*	12.56
Math/engineering/computer science	2,410	1,020	10.51	10.26	-0.26	-2.44	11.10	0.59	5.57
Education	3,960	1,350	15.80	16.14	0.35	2.20	17.20	1.41*	8.91
Business/management	2,530	1,110	13.88	13.17	-0.70	-5.06	13.41	-0.46	-3.34
Health	4,640	1,510	22.28	23.68	1.40*	6.30	22.65	0.37	1.68
Law	580	200	3.57	3.67	0.10	2.74	3.43	-0.14	-3.93
Others	1,730	470	10.18	11.23	1.06*	10.36	10.86	0.68*	6.65
Not applicable	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	50	1,010	3.63	0.22	-3.41*	-94.00	0.28	-3.35*	-92.28
Degree program (graduate only)					(Effect size = 0.19)			(Effect size = 0.19)	
Master's degree	9,070	3,710	62.99	62.88	-0.11	-0.18	63.24	0.25	0.39
Postbaccalaureate or post-master's certificate	1,000	340	4.96	5.58	0.62*	12.44	5.61	0.65*	13.12
Doctor's degree—research/scholarship	5,300	1,120	13.81	15.81	2.00*	14.48	16.15	2.34*	16.94
Doctor's degree—professional practice	3,130	940	10.91	11.62	0.70*	6.46	10.91	#	#
Doctor's degree—other	830	200	1.95	2.43	0.49*	25.01	2.35	0.40*	20.57
Not in a degree program	300	250	2.78	1.65	-1.13*	-40.67	1.69	-1.09*	-39.07
Unknown	30	1,050	2.60	0.04	-2.56*	-98.48	0.05	-2.55*	-98.01

See notes at end of table.

Table M-112. Graduate student-level nonresponse bias analysis for selected variables—all institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Student type					(Effect size = 0.02)			(Effect size = #)	
Graduate, excluding doctor's degree–professional practice	16,520	6,670	89.09	88.38	-0.70*	-0.79	89.09	#	#
Doctor's degree–professional practice	3,130	940	10.91	11.62	0.70*	6.46	10.91	#	#
Number of office and administrative support employees ⁶					(Effect size = #)			(Effect size = 0.01)	
0–31	3,360	1,350	10.05	10.06	0.01	0.07	10.02	-0.03	-0.32
32–75	2,160	950	12.19	12.22	0.03	0.28	11.87	-0.32	-2.62
76–194	4,590	1,780	21.88	21.86	-0.03	-0.11	21.81	-0.07	-0.31
195 or more	9,330	3,460	55.52	55.50	-0.02	-0.04	55.89	0.37	0.66
Unknown	220	80	0.36	0.36	0.01	1.68	0.41	0.05	14.93
Total income from CPS:20 ⁷					(Effect size = ‡)			(Effect size = ‡)	
-\$14,016–\$9,174	1,970	550	11.06	12.53	1.47*	13.30	11.06	#	#
\$9,175–\$30,742	2,010	510	11.51	12.42	0.91*	7.91	11.51	#	#
\$30,743–\$66,838	2,000	500	11.28	12.17	0.90*	7.96	11.28	#	#
\$66,839 or more	1,950	570	10.43	11.19	0.76*	7.28	10.43	#	#
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	11,710	5,470	55.67	51.62	-4.05*	-7.28	55.67	#	#
Parents' highest education from CPS:20					(Effect size = ‡)			(Effect size = ‡)	
Middle school/junior high	300	100	1.78	1.92	0.14	8.08	1.78	#	#
High school	2,290	680	12.79	13.43	0.64	5.03	12.79	#	#
College or beyond	4,950	1,230	27.74	31.00	3.26*	11.74	27.74	#	#
Other/unknown	330	110	1.64	1.60	-0.04	-2.54	1.64	#	#
Missing	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	11,710	5,470	55.67	51.62	-4.05*	-7.28	55.67	#	#
Has dependents from CPS:20					(Effect size = 0.08)			(Effect size = #)	
Yes	2,770	820	13.84	14.66	0.82	5.90	13.84	#	#
No	5,170	1,320	30.49	33.73	3.23*	10.61	30.49	#	#
Not matched in CPS:20	11,710	5,470	55.67	51.62	-4.05*	-7.28	55.67	#	#

See notes at end of table.

Table M-112. Graduate student-level nonresponse bias analysis for selected variables—all institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Student's marital status from CPS:20					(Effect size = 0.08)			(Effect size = #)	
Single	4,710	1,270	28.56	31.17	2.62*	9.16	28.56	#	#
Married/remarried	2,650	650	13.04	14.47	1.44*	11.02	13.04	#	#
Separated	130	60	0.44	0.43	#	-0.65	0.44	#	#
Divorced/widowed	450	160	2.30	2.30	#	0.03	2.30	#	#
Not matched in CPS:20	11,710	5,470	55.67	51.62	-4.05*	-7.28	55.67	#	#

Rounds to zero.

‡ Reporting standards not met (fewer than thirty nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the weighted difference between the respondent and full-sample means using the student base weight.² Relative bias is defined as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the student base weight adjusted for nonresponse) and weighted full-sample mean (using the student base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁷ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations. As part of the expected family contribution (EFC) formula, some calculations include allowances against income or asset amounts that can result in negative numbers. NOTE: CPS = Central Processing System. Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-113. Graduate student-level nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Bureau of Economic Analysis region ⁴					(Effect size = ‡)			(Effect size = ‡)	
New England	‡	‡	‡	‡	‡	‡	‡	‡	‡
Mideast	‡	‡	‡	‡	‡	‡	‡	‡	‡
Great Lakes	‡	‡	‡	‡	‡	‡	‡	‡	‡
Plains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southeast	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southwest	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	‡	‡	‡	‡	‡	‡	‡	‡	‡
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡
Federal aid status					(Effect size = ‡)			(Effect size = ‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Direct Loan status					(Effect size = ‡)			(Effect size = ‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total Direct Loan amount received ⁵					(Effect size = ‡)			(Effect size = ‡)	
None	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$1–\$3,750	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$3,751–\$6,915	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$6,916–\$10,250	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$10,251- or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Age as of December 31, 2019					(Effect size = ‡)			(Effect size = ‡)	
15–23	‡	‡	‡	‡	‡	‡	‡	‡	‡
24–29	‡	‡	‡	‡	‡	‡	‡	‡	‡
30 or older	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-113. Graduate student-level nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Institution aid status					(Effect size = ‡)			(Effect size = ‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
State aid status					(Effect size = ‡)			(Effect size = ‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Received any aid excluding private loans					(Effect size = ‡)			(Effect size = ‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Veteran status					(Effect size = ‡)			(Effect size = ‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡
No	‡	‡	‡	‡	‡	‡	‡	‡	‡
Race/ethnicity					(Effect size = ‡)			(Effect size = ‡)	
American Indian or Alaska Native, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
Asian, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
Black, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
Hispanic or Latino, of any race	‡	‡	‡	‡	‡	‡	‡	‡	‡
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
White, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
Two or more races, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Gender					(Effect size = ‡)			(Effect size = ‡)	
Male	‡	‡	‡	‡	‡	‡	‡	‡	‡
Female	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-113. Graduate student-level nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Institution total graduate enrollment ⁵					(Effect size = ‡)			(Effect size = ‡)	
1–2	‡	‡	‡	‡	‡	‡	‡	‡	‡
3–10	‡	‡	‡	‡	‡	‡	‡	‡	‡
11 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Graduate field of study or major					(Effect size = ‡)			(Effect size = ‡)	
Humanities	‡	‡	‡	‡	‡	‡	‡	‡	‡
Social/behavioral sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡
Life sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡
Math/engineering/computer science	‡	‡	‡	‡	‡	‡	‡	‡	‡
Education	‡	‡	‡	‡	‡	‡	‡	‡	‡
Business/management	‡	‡	‡	‡	‡	‡	‡	‡	‡
Health	‡	‡	‡	‡	‡	‡	‡	‡	‡
Law	‡	‡	‡	‡	‡	‡	‡	‡	‡
Others	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not applicable	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Degree program (graduate only)					(Effect size = ‡)			(Effect size = ‡)	
Master's degree	‡	‡	‡	‡	‡	‡	‡	‡	‡
Postbaccalaureate or post-master's certificate	‡	‡	‡	‡	‡	‡	‡	‡	‡
Doctor's degree—research/scholarship	‡	‡	‡	‡	‡	‡	‡	‡	‡
Doctor's degree—professional practice	‡	‡	‡	‡	‡	‡	‡	‡	‡
Doctor's degree—other	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not in a degree program	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-113. Graduate student-level nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Number of office and administrative support employees ⁶					(Effect size = ‡)			(Effect size = ‡)	
0–25	‡	‡	‡	‡	‡	‡	‡	‡	‡
26–80	‡	‡	‡	‡	‡	‡	‡	‡	‡
81–165	‡	‡	‡	‡	‡	‡	‡	‡	‡
166 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total income from CPS:20 ⁵					(Effect size = ‡)			(Effect size = ‡)	
\$0–\$8,000	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$8,001–\$17,676	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$17,677–\$41,876	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$41,877 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched	‡	‡	‡	‡	‡	‡	‡	‡	‡
Parents' highest education from CPS:20					(Effect size = ‡)			(Effect size = ‡)	
Middle school/junior high	‡	‡	‡	‡	‡	‡	‡	‡	‡
High school	‡	‡	‡	‡	‡	‡	‡	‡	‡
College or beyond	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other/unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Missing	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	‡	‡	‡	‡	‡	‡	‡	‡	‡
Has dependents from CPS:20					(Effect size = ‡)			(Effect size = ‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡
No	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-113. Graduate student-level nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Student's marital status from CPS:20					(Effect size = ‡)			(Effect size = ‡)	
Single	‡	‡	‡	‡	‡	‡	‡	‡	‡
Married/remarried	‡	‡	‡	‡	‡	‡	‡	‡	‡
Separated	‡	‡	‡	‡	‡	‡	‡	‡	‡
Divorced/widowed	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	‡	‡	‡	‡	‡	‡	‡	‡	‡

‡ Reporting standards not met (fewer than thirty nonrespondents).

¹ Bias in the sample mean is estimated as the weighted difference between the respondent and full-sample means using the student base weight.

² Relative bias is defined as 100 times the ratio of estimated bias to the weighted full-sample mean.

³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the student base weight adjusted for nonresponse) and weighted full-sample mean (using the student base weight).

⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.

⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

⁶ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: CPS = Central Processing System. Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-114. Graduate student-level nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Bureau of Economic Analysis region ⁴					(Effect size = ‡)			(Effect size = ‡)	
New England	150	60	15.50	15.62	0.12	0.76	15.43	-0.07	-0.48
Midwest	210	100	17.90	15.54	-2.36	-13.16	15.73	-2.17	-12.13
Great Lakes	‡	‡	‡	‡	‡	‡	‡	‡	‡
Plains	100	100	8.59	6.73	-1.86	-21.68	6.45	-2.14	-24.90
Southeast	220	90	17.58	17.89	0.31	1.77	18.87	1.29	7.32
Southwest	180	80	12.87	12.80	-0.07	-0.53	13.87	1.00	7.77
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	210	80	10.98	10.37	-0.61	-5.54	9.70	-1.28	-11.66
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡
Federal aid status					(Effect size = 0.07)			(Effect size = 0.06)	
Received	460	120	34.00	37.51	3.51*	10.32	34.78	0.77	2.28
Did not receive	670	360	54.98	52.00	-2.98	-5.42	52.72	-2.26	-4.11
Unknown	130	70	11.02	10.49	-0.53	-4.81	12.50	1.49	13.48
Direct Loan status					(Effect size = 0.07)			(Effect size = 0.01)	
Received	420	110	32.59	35.80	3.21*	9.86	33.26	0.67	2.05
Did not receive	840	440	67.41	64.20	-3.21*	-4.77	66.74	-0.67	-0.99
Total Direct Loan amount received ⁵					(Effect size = ‡)			(Effect size = ‡)	
None	840	440	67.41	64.20	-3.21*	-4.77	66.74	-0.67	-0.99
\$1–\$7,696	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$7,697–\$14,146	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$14,147–\$20,500	190	70	14.23	14.07	-0.16	-1.13	12.33	-1.89*	-13.31
\$20,501 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Age as of December 31, 2019					(Effect size = ‡)			(Effect size = ‡)	
15–23	200	70	11.67	12.60	0.93	7.93	11.89	0.22	1.87
24–29	440	200	33.03	31.74	-1.29	-3.92	31.68	-1.35	-4.09
30 or older	630	290	55.29	55.67	0.38	0.68	56.43	1.14	2.07
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-114. Graduate student-level nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Institution aid status					(Effect size = ‡)			(Effect size = ‡)	
Received	270	90	15.77	16.39	0.63	3.97	14.60	-1.17	-7.39
Did not receive	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	180	470	33.39	12.68	-20.71*	-62.02	15.53	-17.85*	-53.48
State aid status					(Effect size = ‡)			(Effect size = ‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	1,020	430	82.15	82.99	0.83	1.01	80.53	-1.62	-1.97
Unknown	200	100	14.80	13.67	-1.13	-7.63	16.37	1.57	10.61
Received any aid excluding private loans					(Effect size = ‡)			(Effect size = ‡)	
Received	790	200	54.21	61.14	6.93*	12.79	54.38	0.17	0.31
Did not receive	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	110	360	24.03	8.50	-15.53*	-64.62	11.03	-13.00*	-54.10
Veteran status					(Effect size = 0.02)			(Effect size = #)	
Yes	120	60	4.65	4.21	-0.44	-9.55	4.56	-0.09	-2.03
No	1,150	490	95.35	95.79	0.44	0.47	95.44	0.09	0.10
Race/ethnicity					(Effect size = ‡)			(Effect size = ‡)	
American Indian or Alaska Native, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
Asian, not Hispanic or Latino	110	40	6.04	5.59	-0.46	-7.56	5.02	-1.03	-17.00
Black, not Hispanic or Latino	160	60	11.22	11.40	0.18	1.62	10.56	-0.66	-5.87
Hispanic or Latino, of any race	150	50	11.31	12.17	0.86	7.59	11.20	-0.11	-0.95
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
White, not Hispanic or Latino	780	250	63.59	67.01	3.42*	5.38	61.17	-2.42	-3.80
Two or more races, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	10	150	4.70	0.46	-4.24*	-90.29	2.47	-2.23	-47.41
Gender					(Effect size = ‡)			(Effect size = ‡)	
Male	510	230	32.40	32.20	-0.20	-0.62	32.91	0.51	1.58
Female	750	310	66.50	67.43	0.92	1.39	66.78	0.28	0.42
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-114. Graduate student-level nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Institution total graduate enrollment ⁵					(Effect size = 0.04)			(Effect size = 0.08)	
1–548	320	130	15.72	15.97	0.25	1.59	17.54	1.83	11.61
549–1,218	340	120	25.46	24.92	-0.54	-2.13	23.05	-2.41	-9.45
1,219–2,101	330	140	27.77	29.21	1.44	5.19	29.83	2.05	7.39
2,102 or more	270	170	31.05	29.90	-1.15	-3.70	29.58	-1.47	-4.74
Graduate field of study or major					(Effect size = ‡)			(Effect size = ‡)	
Humanities	40	30	5.20	3.74	-1.47	-28.16	4.88	-0.32	-6.18
Social/behavioral sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡
Life sciences	120	30	4.43	4.51	0.07	1.69	4.30	-0.14	-3.05
Math/engineering/computer science	200	110	4.56	4.35	-0.21	-4.70	4.77	0.21	4.68
Education	380	140	33.88	33.11	-0.77	-2.27	34.34	0.46	1.35
Business/management	200	90	20.33	20.86	0.52	2.57	19.35	-0.99	-4.85
Health	‡	‡	‡	‡	‡	‡	‡	‡	‡
Law	‡	‡	‡	‡	‡	‡	‡	‡	‡
Others	130	50	9.39	10.17	0.78	8.26	9.46	0.06	0.69
Not applicable	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	#	60	3.26	0.60	-2.66*	-81.51	0.56	-2.70*	-82.72
Degree program (graduate only)					(Effect size = ‡)			(Effect size = ‡)	
Master's degree	1,120	400	77.11	83.67	6.55*	8.50	82.61	5.49*	7.12
Postbaccalaureate or post-master's certificate	110	40	11.40	10.22	-1.18	-10.35	11.28	-0.12	-1.03
Doctor's degree—research/scholarship	‡	‡	‡	‡	‡	‡	‡	‡	‡
Doctor's degree—professional practice	‡	‡	‡	‡	‡	‡	‡	‡	‡
Doctor's degree—other	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not in a degree program	30	40	8.03	5.98	-2.05	-25.50	5.95	-2.08	-25.90
Unknown	#	70	3.41	0.07	-3.34*	-97.81	0.11	-3.30*	-96.83
Student type					(Effect size = ‡)			(Effect size = ‡)	
Graduate, excluding doctor's degree—professional practice	1,260	550	99.96	99.95	-0.02	-0.02	99.95	-0.01	-0.01
Doctor's degree—professional practice	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-114. Graduate student-level nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Number of office and administrative support employees ⁶					(Effect size = ‡)			(Effect size = ‡)	
0–42	130	60	12.20	13.77	1.57	12.91	14.46	2.26	18.57
43–68	190	70	17.60	18.84	1.25	7.08	18.28	0.68	3.87
69–115	360	150	25.76	26.02	0.26	1.00	27.06	1.30	5.05
116 or more	540	260	43.00	40.64	-2.36	-5.48	39.55	-3.44	-8.01
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total income from CPS:20 ⁵					(Effect size = ‡)			(Effect size = ‡)	
\$0–\$8,814	130	40	9.13	9.84	0.71	7.74	8.74	-0.40	-4.34
\$8,815–\$29,859	130	40	9.14	9.39	0.26	2.79	8.87	-0.27	-2.90
\$29,860–\$61,000	130	40	11.15	12.07	0.92	8.23	11.95	0.80	7.15
\$61,001 or more	140	30	11.75	14.25	2.50*	21.29	12.75	1.00	8.51
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched	740	410	58.79	54.39	-4.40*	-7.48	57.61	-1.18	-2.01
Parents' highest education from CPS:20					(Effect size = ‡)			(Effect size = ‡)	
Middle school/junior high	‡	‡	‡	‡	‡	‡	‡	‡	‡
High school	150	60	14.55	14.55	#	0.01	13.69	-0.86	-5.92
College or beyond	330	70	24.00	28.30	4.30*	17.94	26.16	2.16	9.01
Other/unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Missing	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	740	410	58.79	54.39	-4.40*	-7.48	57.61	-1.18	-2.01
Has dependents from CPS:20					(Effect size = 0.09)			(Effect size = 0.03)	
Yes	170	50	13.61	14.31	0.70	5.13	14.21	0.60	4.42
No	360	90	27.60	31.29	3.70*	13.40	28.18	0.58	2.11
Not matched in CPS:20	740	410	58.79	54.39	-4.40*	-7.48	57.61	-1.18	-2.01

See notes at end of table.

Table M-114. Graduate student-level nonresponse bias analysis for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Student's marital status from CPS:20					(Effect size = ‡)			(Effect size = ‡)	
Single	340	100	26.92	28.69	1.77	6.57	26.20	-0.72	-2.69
Married/remarried	160	40	12.24	14.58	2.34*	19.10	13.81	1.56	12.77
Separated	‡	‡	‡	‡	‡	‡	‡	‡	‡
Divorced/widowed	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	740	410	58.79	54.39	-4.40*	-7.48	57.61	-1.18	-2.01

Rounds to zero.

‡ Reporting standards not met (fewer than thirty nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the weighted difference between the respondent and full-sample means using the student base weight.² Relative bias is defined as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the student base weight adjusted for nonresponse) and weighted full-sample mean (using the student base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: CPS = Central Processing System. Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-115. Graduate student-level nonresponse bias analysis for selected variables—public 4-year, doctorate-granting institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Bureau of Economic Analysis region ⁴					(Effect size = ‡)			(Effect size = ‡)	
New England	170	50	2.47	2.22	-0.25	-10.09	2.25	-0.23	-9.12
Mideast	1,160	580	13.23	12.53	-0.71	-5.34	13.07	-0.16	-1.24
Great Lakes	1,070	340	15.53	15.14	-0.40	-2.56	15.21	-0.33	-2.11
Plains	690	230	8.00	8.52	0.52*	6.50	8.44	0.44	5.53
Southeast	1,960	740	30.80	31.51	0.71	2.30	30.86	0.06	0.18
Southwest	920	350	13.96	13.30	-0.65	-4.67	13.70	-0.26	-1.84
Rocky Mountains	290	60	4.45	4.82	0.37	8.20	4.61	0.15	3.39
Far West	760	210	11.14	11.58	0.44	3.96	11.58	0.44	3.91
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡
Federal aid status					(Effect size = 0.04)			(Effect size = 0.03)	
Received	2,790	770	34.26	36.31	2.05*	5.99	34.86	0.61	1.77
Did not receive	3,710	1,500	59.27	57.32	-1.95*	-3.29	59.29	0.02	0.03
Unknown	550	310	6.48	6.37	-0.10	-1.57	5.85	-0.63	-9.65
Direct Loan status					(Effect size = 0.04)			(Effect size = 0.01)	
Received	2,460	670	31.59	33.43	1.84*	5.83	32.14	0.56	1.76
Did not receive	4,600	1,910	68.41	66.57	-1.84*	-2.69	67.86	-0.56	-0.81
Total Direct Loan amount received ⁵					(Effect size = 0.05)			(Effect size = 0.02)	
None	4,600	1,910	68.41	66.57	-1.84*	-2.69	67.86	-0.56	-0.81
\$1–\$12,500	600	200	10.34	10.37	0.03	0.32	10.96	0.62	6.01
\$12,501–\$20,500	410	100	6.46	6.92	0.46	7.07	6.40	-0.07	-1.03
\$20,501–\$26,756	830	210	10.31	11.38	1.07*	10.38	10.52	0.21	2.02
\$26,757 or more	610	170	4.47	4.75	0.28	6.26	4.26	-0.21	-4.64
Age as of December 31, 2019					(Effect size = ‡)			(Effect size = ‡)	
15–23	920	380	15.82	16.69	0.87	5.51	16.71	0.90	5.66
24–29	2,830	980	41.81	42.60	0.79	1.89	41.88	0.08	0.18
30 or older	3,300	1,230	42.34	40.71	-1.62*	-3.84	41.40	-0.93	-2.21
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-115. Graduate student-level nonresponse bias analysis for selected variables—public 4-year, doctorate-granting institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Institution aid status					(Effect size = ‡)			(Effect size = ‡)	
Received	3,050	720	35.49	38.91	3.42*	9.62	36.58	1.09	3.07
Did not receive	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	700	1,860	25.73	7.16	-18.57*	-72.17	6.95	-18.78*	-73.01
State aid status					(Effect size = 0.02)			(Effect size = 0.01)	
Received	240	50	4.15	4.54	0.40	9.63	4.08	-0.07	-1.59
Did not receive	6,060	2,160	88.75	88.18	-0.57	-0.64	88.92	0.17	0.20
Unknown	750	370	7.11	7.28	0.17	2.36	7.00	-0.11	-1.53
Received any aid excluding private loans					(Effect size = ‡)			(Effect size = ‡)	
Received	5,390	1,310	66.35	72.27	5.91*	8.91	67.06	0.71	1.08
Did not receive	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	340	1,270	16.79	4.28	-12.50*	-74.48	4.22	-12.56*	-74.83
Veteran status					(Effect size = #)			(Effect size = 0.01)	
Yes	700	230	3.63	3.69	0.06	1.72	3.86	0.23	6.34
No	6,350	2,350	96.37	96.31	-0.06	-0.06	96.14	-0.23	-0.24
Race/ethnicity					(Effect size = ‡)			(Effect size = ‡)	
American Indian or Alaska Native, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
Asian, not Hispanic or Latino	1,090	270	13.90	15.50	1.60*	11.48	14.63	0.73	5.23
Black, not Hispanic or Latino	850	230	10.65	11.28	0.63	5.88	10.93	0.27	2.54
Hispanic or Latino, of any race	770	270	10.42	11.10	0.68	6.53	10.47	0.06	0.54
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
White, not Hispanic or Latino	4,010	1,100	56.03	58.91	2.88*	5.15	56.36	0.34	0.60
Two or more races, not Hispanic or Latino	250	90	2.84	2.37	-0.47	-16.57	5.75	2.91*	102.58
Unknown	50	600	5.73	0.42	-5.31*	-92.74	1.01	-4.72*	-82.38
Gender					(Effect size = 0.04)			(Effect size = 0.04)	
Male	3,060	1,180	41.64	42.14	0.50	1.20	42.34	0.70	1.69
Female	3,910	1,320	56.77	56.79	0.02	0.03	56.51	-0.26	-0.46
Unknown	80	80	1.59	1.07	-0.52	-32.56	1.14	-0.44	-27.97

See notes at end of table.

Table M-115. Graduate student-level nonresponse bias analysis for selected variables—public 4-year, doctorate-granting institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Institution total graduate enrollment ⁵					(Effect size = 0.03)			(Effect size = 0.02)	
1–2,926	1,760	700	15.98	16.32	0.34	2.15	16.14	0.16	1.02
2,927–6,275	1,770	590	27.72	27.80	0.09	0.32	27.49	-0.22	-0.80
6,276–11,079	1,810	630	29.82	28.47	-1.35	-4.53	29.12	-0.70	-2.36
11,080 or more	1,710	670	26.48	27.40	0.92	3.47	27.25	0.76	2.88
Graduate field of study or major					(Effect size = ‡)			(Effect size = ‡)	
Humanities	160	90	4.06	3.55	-0.51	-12.51	3.51	-0.55	-13.61
Social/behavioral sciences	340	60	5.37	6.21	0.84*	15.69	6.05	0.68*	12.76
Life sciences	650	150	9.24	10.76	1.52*	16.49	10.45	1.21*	13.11
Math/engineering/computer science	840	320	14.08	13.98	-0.10	-0.74	14.96	0.88	6.25
Education	1,470	480	15.10	15.11	0.01	0.08	15.61	0.51	3.39
Business/management	760	330	11.38	10.37	-1.01*	-8.90	10.22	-1.16*	-10.21
Health	1,530	450	19.34	19.95	0.62	3.18	19.44	0.10	0.54
Law	410	140	2.95	3.05	0.11	3.63	2.94	#	-0.01
Others	760	200	13.67	15.22	1.55*	11.32	14.89	1.21*	8.86
Not applicable	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	10	370	3.58	0.07	-3.51*	-97.98	0.07	-3.51*	-98.15
Degree program (graduate only)					(Effect size = ‡)			(Effect size = ‡)	
Master's degree	2,360	1,040	58.14	57.26	-0.88	-1.51	58.08	-0.06	-0.09
Postbaccalaureate or post-master's certificate	340	140	5.26	5.83	0.58	11.00	6.05	0.80	15.17
Doctor's degree—research/scholarship	2,400	530	18.30	20.63	2.33*	12.73	19.88	1.58*	8.62
Doctor's degree—professional practice	1,630	450	11.51	12.55	1.04*	9.00	12.11	0.60	5.22
Doctor's degree—other	190	30	1.59	2.01	0.42*	26.18	2.01	0.42*	26.57
Not in a degree program	120	120	3.43	1.72	-1.71*	-49.82	1.86	-1.57*	-45.76
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Student type					(Effect size = 0.03)			(Effect size = 0.02)	
Graduate, excluding doctor's degree—professional practice	5,420	2,130	88.49	87.45	-1.04*	-1.17	87.89	-0.60	-0.68
Doctor's degree—professional practice	1,630	450	11.51	12.55	1.04*	9.00	12.11	0.60	5.22

See notes at end of table.

Table M-115. Graduate student-level nonresponse bias analysis for selected variables—public 4-year, doctorate-granting institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Number of office and administrative support employees ⁶					(Effect size = 0.05)		(Effect size = 0.06)		
0–131	750	290	8.91	7.79	-1.12	-12.56	7.60	-1.32*	-14.77
132–245	1,120	420	15.74	16.49	0.75	4.74	17.00	1.25	7.96
246–520	1,930	760	26.93	28.04	1.11	4.14	28.20	1.27	4.72
521 or more	3,170	1,080	48.07	47.32	-0.75	-1.55	46.80	-1.27	-2.64
Unknown	90	30	0.34	0.35	0.01	1.92	0.41	0.06	17.65
Total income from CPS:20 ⁷					(Effect size = ‡)		(Effect size = ‡)		
-\$6,169–\$6,377	720	200	8.19	9.49	1.31*	15.97	8.51	0.33	3.99
\$6,378–\$20,999	740	170	10.79	11.76	0.97	8.99	10.89	0.09	0.84
\$21,000–\$55,653	750	160	11.05	11.53	0.48	4.38	11.08	0.03	0.27
\$55,654 or more	710	200	10.89	11.65	0.75	6.90	10.87	-0.02	-0.21
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched	4,130	1,840	58.99	55.46	-3.53*	-5.98	58.57	-0.42	-0.71
Parents' highest education from CPS:20					(Effect size = ‡)		(Effect size = ‡)		
Middle school/junior high	80	30	1.13	1.15	0.02	1.37	1.10	-0.03	-2.47
High school	770	220	12.53	13.19	0.65	5.21	12.89	0.36	2.88
College or beyond	1,960	450	25.70	28.86	3.16*	12.30	26.05	0.35	1.37
Other/unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Missing	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	4,130	1,840	58.99	55.46	-3.53*	-5.98	58.57	-0.42	-0.71
Has dependents from CPS:20					(Effect size = 0.08)		(Effect size = 0.01)		
Yes	750	220	10.70	10.96	0.26	2.46	10.49	-0.20	-1.91
No	2,170	520	30.31	33.58	3.26*	10.77	30.93	0.62	2.05
Not matched in CPS:20	4,130	1,840	58.99	55.46	-3.53*	-5.98	58.57	-0.42	-0.71

See notes at end of table.

Table M-115. Graduate student-level nonresponse bias analysis for selected variables—public 4-year, doctorate-granting institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Student's marital status from CPS:20					(Effect size = ‡)			(Effect size = ‡)	
Single	1,950	490	27.72	30.14	2.42*	8.73	27.96	0.23	0.85
Married/remarried	820	200	11.11	12.05	0.93*	8.41	11.03	-0.08	-0.76
Separated	‡	‡	‡	‡	‡	‡	‡	‡	‡
Divorced/widowed	120	30	1.77	1.96	0.20	11.04	2.05	0.28	15.78
Not matched in CPS:20	4,130	1,840	58.99	55.46	-3.53*	-5.98	58.57	-0.42	-0.71

Rounds to zero.

‡ Reporting standards not met (fewer than thirty nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the weighted difference between the respondent and full-sample means using the student base weight.² Relative bias is defined as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the student base weight adjusted for nonresponse) and weighted full-sample mean (using the student base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁷ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations. As part of the expected family contribution (EFC) formula, some calculations include allowances against income or asset amounts that can result in negative numbers. NOTE: CPS = Central Processing System. Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-116. Graduate student-level nonresponse bias analysis for selected variables—private nonprofit 4-year, non-doctorate-granting institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Bureau of Economic Analysis region ⁴					(Effect size = ‡)			(Effect size = ‡)	
New England	180	70	16.46	16.10	-0.36	-2.16	16.43	-0.03	-0.19
Mideast	280	70	14.74	16.61	1.87	12.68	16.57	1.83*	12.39
Great Lakes	240	80	12.61	12.98	0.37	2.90	12.98	0.37	2.92
Plains	190	70	11.22	9.81	-1.41	-12.56	9.71	-1.51	-13.46
Southeast	200	90	8.21	7.80	-0.40	-4.90	7.93	-0.28	-3.38
Southwest	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rocky Mountains	100	30	29.12	28.98	-0.14	-0.48	28.64	-0.48	-1.66
Far West	‡	‡	‡	‡	‡	‡	‡	‡	‡
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡
Federal aid status					(Effect size = 0.08)			(Effect size = 0.05)	
Received	700	180	45.94	49.92	3.98*	8.65	48.06	2.12	4.61
Did not receive	510	200	47.22	44.27	-2.95*	-6.25	45.88	-1.34	-2.83
Unknown	150	70	6.84	5.81	-1.03	-14.99	6.06	-0.78	-11.42
Direct Loan status					(Effect size = 0.09)			(Effect size = 0.06)	
Received	640	160	43.99	48.50	4.50*	10.24	46.75	2.76*	6.27
Did not receive	720	280	56.01	51.50	-4.50*	-8.04	53.25	-2.76*	-4.93
Total Direct Loan amount received ⁵					(Effect size = ‡)			(Effect size = ‡)	
None	720	280	56.01	51.50	-4.50*	-8.04	53.25	-2.76*	-4.93
\$1–\$8,000	150	50	13.68	13.60	-0.08	-0.58	12.83	-0.85	-6.20
\$8,001–\$13,949	160	40	10.27	11.96	1.69*	16.49	12.20	1.94*	18.87
\$13,950–\$20,500	310	70	18.11	20.87	2.76*	15.25	19.50	1.39	7.68
\$20,501 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡
Age as of December 31, 2019					(Effect size = ‡)			(Effect size = ‡)	
15–23	150	40	11.05	12.74	1.69*	15.29	11.52	0.47	4.23
24–29	420	130	27.95	28.51	0.56	2.00	29.68	1.73	6.20
30 or older	790	270	60.99	58.75	-2.24*	-3.67	58.80	-2.19	-3.60
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-116. Graduate student-level nonresponse bias analysis for selected variables—private nonprofit 4-year, non-doctorate-granting institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Institution aid status					(Effect size = ‡)			(Effect size = ‡)	
Received	370	90	22.80	25.35	2.55*	11.20	24.33	1.53	6.72
Did not receive	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	280	350	28.98	11.83	-17.16*	-59.20	12.24	-16.75*	-57.79
State aid status					(Effect size = ‡)			(Effect size = ‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	1,060	340	86.37	87.42	1.05	1.22	86.97	0.60	0.69
Unknown	290	100	13.26	12.20	-1.06	-7.99	12.69	-0.57	-4.28
Received any aid excluding private loans					(Effect size = ‡)			(Effect size = ‡)	
Received	1,020	240	67.64	74.87	7.23*	10.69	69.87	2.23	3.29
Did not receive	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	110	200	16.41	4.35	-12.06*	-73.50	4.82	-11.59*	-70.64
Veteran status					(Effect size = 0.05)			(Effect size = 0.05)	
Yes	170	70	6.59	5.35	-1.25	-18.92	5.28	-1.32	-19.95
No	1,190	370	93.41	94.65	1.25	1.34	94.72	1.32	1.41
Race/ethnicity					(Effect size = ‡)			(Effect size = ‡)	
American Indian or Alaska Native, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
Asian, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
Black, not Hispanic or Latino	170	50	13.55	14.95	1.40*	10.32	14.39	0.84	6.23
Hispanic or Latino, of any race	160	40	12.09	11.81	-0.28	-2.29	11.00	-1.08	-8.97
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
White, not Hispanic or Latino	920	180	57.32	61.80	4.48*	7.81	57.89	0.56	0.98
Two or more races, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	20	140	6.96	0.94	-6.03*	-86.54	2.35	-4.61*	-66.27
Gender					(Effect size = ‡)			(Effect size = ‡)	
Male	500	180	34.86	34.91	0.05	0.13	35.85	0.99	2.83
Female	850	240	63.70	63.99	0.28	0.45	63.01	-0.69	-1.08
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-116. Graduate student-level nonresponse bias analysis for selected variables—private nonprofit 4-year, non-doctorate-granting institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Institution total graduate enrollment ⁵					(Effect size = 0.02)			(Effect size = 0.03)	
1–211	340	110	10.57	10.88	0.31	2.93	11.00	0.43	4.06
212–444	370	100	17.14	16.24	-0.90	-5.23	16.30	-0.84	-4.90
445–935	350	120	21.19	21.40	0.21	0.98	20.63	-0.57	-2.67
936 or more	310	110	51.10	51.47	0.38	0.74	52.07	0.98	1.91
Graduate field of study or major					(Effect size = ‡)			(Effect size = ‡)	
Humanities	170	60	9.52	9.70	0.18	1.92	10.11	0.59	6.21
Social/behavioral sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡
Life sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡
Math/engineering/computer science	70	30	8.39	8.72	0.32	3.85	8.51	0.12	1.38
Education	370	100	20.34	20.74	0.40	1.97	22.21	1.86	9.17
Business/management	290	100	24.23	22.64	-1.59	-6.55	21.93	-2.30	-9.47
Health	200	50	19.66	20.38	0.71	3.63	19.61	-0.05	-0.27
Law	‡	‡	‡	‡	‡	‡	‡	‡	‡
Others	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not applicable	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	#	50	2.32	0.08	-2.24*	-96.55	0.08	-2.24*	-96.53
Degree program (graduate only)					(Effect size = ‡)			(Effect size = ‡)	
Master's degree	1,230	310	87.38	91.66	4.28	4.90	91.63	4.26	4.87
Postbaccalaureate or post-master's certificate	‡	‡	‡	‡	‡	‡	‡	‡	‡
Doctor's degree—research/scholarship	‡	‡	‡	‡	‡	‡	‡	‡	‡
Doctor's degree—professional practice	‡	‡	‡	‡	‡	‡	‡	‡	‡
Doctor's degree—other	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not in a degree program	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	#	100	3.98	0.20	-3.78	-95.05	0.19	-3.79	-95.30
Student type					(Effect size = ‡)			(Effect size = ‡)	
Graduate, excluding doctor's degree—professional practice	1,360	440	99.89	99.86	-0.03	-0.03	99.87	-0.02	-0.02
Doctor's degree—professional practice	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-116. Graduate student-level nonresponse bias analysis for selected variables—private nonprofit 4-year, non-doctorate-granting institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Number of office and administrative support employees ⁶					(Effect size = ‡)			(Effect size = ‡)	
0–13	250	60	7.56	7.98	0.43	5.66	7.99	0.43	5.70
14–28	310	90	10.98	11.52	0.55	4.97	11.75	0.77	7.05
29–50	300	110	25.42	26.47	1.05	4.11	26.21	0.79	3.11
51 or more	490	180	55.23	53.11	-2.13	-3.85	53.13	-2.10*	-3.81
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total income from CPS:20 ⁵					(Effect size = ‡)			(Effect size = ‡)	
\$0–\$9,838	180	50	10.95	11.94	0.99	9.00	11.05	0.10	0.96
\$9,839–\$31,178	200	40	16.19	19.50	3.31*	20.44	20.63	4.44*	27.40
\$31,179–\$64,843	200	40	14.26	16.34	2.07*	14.53	15.27	1.00	7.04
\$64,844 or more	180	50	14.58	14.48	-0.10	-0.66	13.92	-0.66	-4.53
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched	600	260	43.96	37.71	-6.25*	-14.21	39.11	-4.85*	-11.04
Parents' highest education from CPS:20					(Effect size = ‡)			(Effect size = ‡)	
Middle school/junior high	‡	‡	‡	‡	‡	‡	‡	‡	‡
High school	210	60	15.04	16.55	1.51*	10.05	16.28	1.24	8.23
College or beyond	510	100	37.22	41.23	4.01*	10.79	40.06	2.84*	7.63
Other/unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Missing	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	600	260	43.96	37.71	-6.25*	-14.21	39.11	-4.85*	-11.04
Has dependents from CPS:20					(Effect size = 0.13)			(Effect size = 0.10)	
Yes	270	70	23.39	24.88	1.49*	6.35	24.91	1.52	6.51
No	490	110	32.65	37.41	4.76*	14.58	35.98	3.33*	10.21
Not matched in CPS:20	600	260	43.96	37.71	-6.25*	-14.21	39.11	-4.85*	-11.04

See notes at end of table.

Table M-116. Graduate student-level nonresponse bias analysis for selected variables—private nonprofit 4-year, non-doctorate-granting institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Student's marital status from CPS:20					(Effect size = ‡)			(Effect size = ‡)	
Single	430	100	32.48	37.30	4.82*	14.84	37.62	5.14*	15.83
Married/remarried	270	60	19.66	20.78	1.12*	5.71	18.89	-0.77	-3.94
Separated	‡	‡	‡	‡	‡	‡	‡	‡	‡
Divorced/widowed	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	600	260	43.96	37.71	-6.25*	-14.21	39.11	-4.85*	-11.04

Rounds to zero.

‡ Reporting standards not met (fewer than thirty nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the weighted difference between the respondent and full-sample means using the student base weight.² Relative bias is defined as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the student base weight adjusted for nonresponse) and weighted full-sample mean (using the student base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: CPS = Central Processing System. Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-117. Graduate student-level nonresponse bias analysis for selected variables—private nonprofit 4-year, doctorate-granting institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Bureau of Economic Analysis region ⁴					(Effect size = 0.05)		(Effect size = 0.04)		
New England	840	420	12.74	11.76	-0.98	-7.67	13.03	0.29	2.27
Mideast	1,840	880	30.13	29.29	-0.84	-2.78	30.36	0.23	0.78
Great Lakes	600	180	11.93	12.71	0.78	6.55	12.34	0.41	3.47
Plains	540	150	7.06	7.20	0.14	1.97	6.28	-0.78	-11.02
Southeast	1,000	420	16.86	17.07	0.21	1.25	16.85	-0.01	-0.07
Southwest	590	190	5.13	5.66	0.53	10.27	5.47	0.34	6.55
Rocky Mountains	90	30	1.19	1.05	-0.14	-11.64	0.96	-0.24	-19.81
Far West	820	330	13.82	13.84	0.02	0.13	13.46	-0.36	-2.57
Outlying Areas	110	30	1.15	1.43	0.28*	24.25	1.26	0.11	9.41
Federal aid status					(Effect size = 0.08)		(Effect size = 0.03)		
Received	2,590	780	42.22	46.01	3.79*	8.99	41.52	-0.70	-1.66
Did not receive	3,270	1,480	48.69	45.54	-3.15*	-6.47	48.53	-0.16	-0.32
Unknown	550	380	9.09	8.45	-0.64	-7.08	9.95	0.86	9.44
Direct Loan status					(Effect size = 0.07)		(Effect size = 0.01)		
Received	2,200	670	38.95	42.41	3.46*	8.89	38.30	-0.65	-1.68
Did not receive	4,220	1,960	61.05	57.59	-3.46*	-5.67	61.70	0.65	1.07
Total Direct Loan amount received ⁵					(Effect size = 0.09)		(Effect size = 0.02)		
None	4,220	1,960	61.05	57.59	-3.46*	-5.67	61.70	0.65	1.07
\$1–\$13,000	520	200	9.40	8.78	-0.61	-6.54	8.74	-0.66	-7.05
\$13,001–\$20,500	330	90	6.01	6.37	0.36	6.01	5.88	-0.13	-2.21
\$20,501–\$33,000	850	230	19.29	22.12	2.83*	14.65	19.33	0.03	0.18
\$33,001 or more	500	160	4.25	5.14	0.89*	20.99	4.35	0.11	2.56
Age as of December 31, 2019					(Effect size = ‡)		(Effect size = ‡)		
15–23	830	370	14.10	14.01	-0.09	-0.63	13.19	-0.91	-6.47
24–29	2,880	1,030	41.15	42.09	0.94	2.29	41.18	0.03	0.07
30 or older	2,700	1,140	43.86	43.89	0.03	0.07	45.63	1.77	4.04
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-117. Graduate student-level nonresponse bias analysis for selected variables—private nonprofit 4-year, doctorate-granting institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Institution aid status					(Effect size = ‡)			(Effect size = ‡)	
Received	2,410	650	29.33	31.19	1.86*	6.35	28.76	-0.56	-1.93
Did not receive	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	800	1,980	32.75	13.98	-18.77*	-57.31	14.79	-17.97*	-54.86
State aid status					(Effect size = ‡)			(Effect size = ‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	5,450	2,110	84.04	84.35	0.31	0.36	83.77	-0.28	-0.33
Unknown	900	510	14.66	14.05	-0.61	-4.18	14.87	0.21	1.41
Received any aid excluding private loans					(Effect size = ‡)			(Effect size = ‡)	
Received	4,790	1,290	67.06	74.25	7.18*	10.71	66.64	-0.42	-0.63
Did not receive	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	390	1,340	19.80	6.77	-13.04*	-65.84	8.65	-11.16*	-56.33
Veteran status					(Effect size = 0.02)			(Effect size = #)	
Yes	540	180	4.07	4.43	0.36*	8.90	4.08	0.01	0.20
No	5,880	2,450	95.93	95.57	-0.36*	-0.38	95.92	-0.01	-0.01
Race/ethnicity					(Effect size = ‡)			(Effect size = ‡)	
American Indian or Alaska Native, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
Asian, not Hispanic or Latino	1,420	400	14.76	15.64	0.88	5.94	13.97	-0.79	-5.37
Black, not Hispanic or Latino	680	210	10.96	11.86	0.89	8.16	10.91	-0.05	-0.49
Hispanic or Latino, of any race	710	170	11.97	13.66	1.69*	14.13	12.11	0.14	1.16
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
White, not Hispanic or Latino	3,270	890	49.03	53.72	4.69*	9.56	48.76	-0.28	-0.56
Two or more races, not Hispanic or Latino	230	70	3.42	3.62	0.20	5.81	8.43	5.01*	146.33
Unknown	80	890	9.54	1.15	-8.39*	-87.92	4.87	-4.66*	-48.89
Gender					(Effect size = 0.06)			(Effect size = 0.05)	
Male	2,990	1,270	38.77	36.99	-1.78*	-4.58	38.41	-0.35	-0.91
Female	3,360	1,280	59.84	62.20	2.36*	3.94	59.62	-0.22	-0.37
Unknown	60	90	1.39	0.81	-0.58	-41.68	1.97	0.58	41.61

See notes at end of table.

Table M-117. Graduate student-level nonresponse bias analysis for selected variables—private nonprofit 4-year, doctorate-granting institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Institution total graduate enrollment ⁵					(Effect size = 0.04)			(Effect size = 0.04)	
1–2,008	1,740	630	23.91	25.26	1.35	5.66	24.44	0.53	2.23
2,009–5,718	1,550	620	30.74	31.29	0.56	1.81	29.77	-0.97	-3.16
5,719–12,497	1,630	640	25.12	24.58	-0.54	-2.16	26.52	1.40	5.57
12,498 or more	1,500	740	20.23	18.87	-1.37	-6.75	19.27	-0.96	-4.75
Graduate field of study or major					(Effect size = ‡)			(Effect size = ‡)	
Humanities	360	170	8.22	7.47	-0.76	-9.20	7.08	-1.14*	-13.90
Social/behavioral sciences	310	80	8.67	8.68	0.01	0.06	8.05	-0.62	-7.19
Life sciences	770	130	5.49	6.40	0.91*	16.49	6.16	0.66*	12.10
Math/engineering/computer science	1,170	520	9.30	8.64	-0.65	-7.04	9.63	0.34	3.63
Education	940	320	13.41	14.19	0.79	5.86	16.04	2.63*	19.61
Business/management	780	380	14.95	14.88	-0.07	-0.47	15.71	0.76	5.07
Health	1,270	380	22.06	25.20	3.14*	14.24	23.53	1.47	6.64
Law	150	60	5.65	5.85	0.19	3.41	5.18	-0.47	-8.35
Others	580	150	7.11	7.22	0.11	1.50	6.97	-0.14	-1.94
Not applicable	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	30	440	4.38	0.39	-3.99*	-91.06	0.52	-3.86*	-88.09
Degree program (graduate only)					(Effect size = ‡)			(Effect size = ‡)	
Master's degree	2,770	1,270	62.24	61.76	-0.48	-0.77	62.30	0.06	0.09
Postbaccalaureate or post-master's certificate	230	80	3.76	4.30	0.54	14.31	4.18	0.42	11.22
Doctor's degree—research/scholarship	2,130	400	13.04	15.62	2.58*	19.79	16.91	3.88*	29.75
Doctor's degree—professional practice	1,030	380	13.52	14.34	0.82	6.04	12.80	-0.72	-5.36
Doctor's degree—other	200	80	2.34	2.90	0.57*	24.21	2.67	0.34	14.46
Not in a degree program	70	70	1.78	1.09	-0.70*	-38.97	1.14	-0.65*	-36.29
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Student type					(Effect size = 0.02)			(Effect size = 0.02)	
Graduate, excluding doctor's degree—professional practice	5,390	2,260	86.48	85.66	-0.82	-0.94	87.20	0.72	0.84
Doctor's degree—professional practice	1,030	380	13.52	14.34	0.82	6.04	12.80	-0.72	-5.36

See notes at end of table.

Table M-117. Graduate student-level nonresponse bias analysis for selected variables—private nonprofit 4-year, doctorate-granting institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Number of office and administrative support employees ⁶					(Effect size = ‡)			(Effect size = ‡)	
0–33	740	310	11.22	10.05	-1.17	-10.45	10.51	-0.70	-6.28
34–66	740	330	16.67	17.92	1.24	7.46	16.96	0.29	1.73
67–156	1,060	510	20.39	20.12	-0.27	-1.34	19.57	-0.82	-4.03
157 or more	3,880	1,480	51.68	51.87	0.19	0.37	52.87	1.19	2.30
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total income from CPS:20 ⁷					(Effect size = ‡)			(Effect size = ‡)	
-\$14,016–\$8,021	480	140	12.19	13.77	1.58*	12.96	11.68	-0.51	-4.19
\$8,022–\$29,292	500	110	11.35	12.39	1.04	9.13	10.91	-0.44	-3.92
\$29,293–\$67,554	500	120	10.11	11.56	1.45*	14.30	10.52	0.40	3.99
\$67,555 or more	480	140	9.82	10.45	0.63	6.46	9.74	-0.08	-0.84
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched	4,460	2,130	56.50	51.79	-4.71*	-8.33	57.13	0.63	1.12
Parents' highest education from CPS:20					(Effect size = ‡)			(Effect size = ‡)	
Middle school/junior high	‡	‡	‡	‡	‡	‡	‡	‡	‡
High school	540	140	11.67	12.49	0.82	7.02	11.51	-0.16	-1.40
College or beyond	1,270	320	28.45	32.14	3.69*	12.98	27.90	-0.55	-1.92
Other/unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Missing	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	4,460	2,130	56.50	51.79	-4.71*	-8.33	57.13	0.63	1.12
Has dependents from CPS:20					(Effect size = 0.10)			(Effect size = 0.02)	
Yes	620	150	11.21	12.27	1.05*	9.40	11.49	0.28	2.46
No	1,340	350	32.29	35.94	3.65*	11.32	31.38	-0.91	-2.81
Not matched in CPS:20	4,460	2,130	56.50	51.79	-4.71*	-8.33	57.13	0.63	1.12

See notes at end of table.

Table M-117. Graduate student-level nonresponse bias analysis for selected variables—private nonprofit 4-year, doctorate-granting institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Student's marital status from CPS:20					(Effect size = ‡)			(Effect size = ‡)	
Single	1,210	330	30.19	33.37	3.17*	10.52	29.56	-0.63	-2.08
Married/remarried	630	120	10.87	12.44	1.57*	14.46	11.04	0.17	1.57
Separated	‡	‡	‡	‡	‡	‡	‡	‡	‡
Divorced/widowed	100	40	2.31	2.25	-0.06	-2.73	2.11	-0.20	-8.61
Not matched in CPS:20	4,460	2,130	56.50	51.79	-4.71*	-8.33	57.13	0.63	1.12

Rounds to zero.

‡ Reporting standards not met (fewer than thirty nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the weighted difference between the respondent and full-sample means using the student base weight.² Relative bias is defined as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the student base weight adjusted for nonresponse) and weighted full-sample mean (using the student base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁷ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations. As part of the expected family contribution (EFC) formula, some calculations include allowances against income or asset amounts that can result in negative numbers. NOTE: CPS = Central Processing System. Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-118. Graduate student-level nonresponse bias analysis for selected variables—private for-profit 4-year institutions: 2019–20

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Bureau of Economic Analysis region ⁴					(Effect size = ‡)			(Effect size = ‡)	
New England	‡	‡	‡	‡	‡	‡	‡	‡	‡
Mideast	150	150	4.52	2.98	-1.54	-34.01	4.25	-0.27	-5.95
Great Lakes	480	210	15.53	14.14	-1.39	-8.93	14.67	-0.85	-5.50
Plains	430	160	23.58	28.00	4.42	18.75	26.39	2.81	11.93
Southeast	600	260	12.80	12.38	-0.42	-3.30	12.34	-0.46	-3.59
Southwest	600	190	24.51	22.98	-1.53	-6.26	23.69	-0.82	-3.36
Rocky Mountains	490	190	2.48	2.45	-0.03	-1.19	2.18	-0.31	-12.34
Far West	640	190	15.93	16.52	0.58	3.67	15.94	0.01	0.03
Outlying Areas	‡	‡	‡	‡	‡	‡	‡	‡	‡
Federal aid status					(Effect size = 0.07)			(Effect size = 0.05)	
Received	1,710	590	54.21	56.48	2.27*	4.19	52.77	-1.44	-2.66
Did not receive	1,430	540	41.67	40.68	-0.99	-2.38	43.81	2.14	5.13
Unknown	310	240	4.12	2.84	-1.28	-31.13	3.42	-0.70	-16.93
Direct Loan status					(Effect size = 0.03)			(Effect size = 0.03)	
Received	1,470	500	50.18	51.83	1.65	3.28	48.44	-1.74	-3.47
Did not receive	1,970	870	49.82	48.17	-1.65	-3.31	51.56	1.74	3.50
Total Direct Loan amount received ⁵					(Effect size = 0.09)			(Effect size = 0.07)	
None	1,970	870	49.82	48.17	-1.65	-3.31	51.56	1.74	3.50
\$1–\$9,500	340	150	10.56	9.25	-1.31	-12.38	9.92	-0.63	-5.99
\$9,501–\$17,269	380	110	14.01	15.49	1.48*	10.57	14.33	0.33	2.33
\$17,270–\$20,500	490	150	14.89	14.19	-0.70	-4.72	12.74	-2.15*	-14.46
\$20,501 or more	260	90	10.72	12.90	2.18*	20.32	11.44	0.72	6.68
Age as of December 31, 2019					(Effect size = ‡)			(Effect size = ‡)	
15–23	100	50	2.36	2.36	#	0.01	2.16	-0.19	-8.16
24–29	620	260	29.67	31.23	1.57	5.28	30.72	1.05	3.54
30 or older	2,730	1,060	67.98	66.41	-1.57	-2.30	67.12	-0.86	-1.26
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-118. Graduate student-level nonresponse bias analysis for selected variables—private for-profit 4-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Institution aid status					(Effect size = ‡)			(Effect size = ‡)	
Received	710	300	27.78	24.76	-3.02*	-10.88	24.48	-3.31*	-11.90
Did not receive	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	490	1,080	21.54	5.87	-15.67*	-72.73	6.85	-14.69*	-68.20
State aid status					(Effect size = ‡)			(Effect size = ‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	2,910	1,050	92.31	93.86	1.55	1.68	92.92	0.61	0.66
Unknown	520	320	7.63	6.07	-1.56	-20.49	7.02	-0.61	-8.02
Received any aid excluding private loans					(Effect size = ‡)			(Effect size = ‡)	
Received	2,290	740	70.84	73.30	2.45*	3.46	67.90	-2.94*	-4.15
Did not receive	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	250	640	11.51	2.54	-8.97*	-77.91	3.20	-8.31*	-72.23
Veteran status					(Effect size = #)			(Effect size = 0.01)	
Yes	460	220	7.93	8.04	0.11	1.38	7.63	-0.31	-3.86
No	2,990	1,160	92.07	91.96	-0.11	-0.12	92.37	0.31	0.33
Race/ethnicity					(Effect size = ‡)			(Effect size = ‡)	
American Indian or Alaska Native, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
Asian, not Hispanic or Latino	260	70	6.05	6.70	0.64	10.60	5.92	-0.14	-2.26
Black, not Hispanic or Latino	920	320	25.92	26.42	0.51	1.96	24.56	-1.36*	-5.25
Hispanic or Latino, of any race	430	160	13.38	13.78	0.39	2.93	13.14	-0.24	-1.82
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
White, not Hispanic or Latino	1,630	500	45.88	48.79	2.91	6.35	46.12	0.24	0.52
Two or more races, not Hispanic or Latino	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	30	300	5.33	0.84	-4.49*	-84.20	2.90	-2.43	-45.54
Gender					(Effect size = 0.10)			(Effect size = 0.07)	
Male	1,020	400	25.88	25.50	-0.37	-1.45	26.44	0.56	2.18
Female	2,420	900	72.58	74.20	1.62	2.24	72.92	0.35	0.48
Unknown	20	70	1.55	0.30	-1.25	-80.74	0.64	-0.91	-58.85

See notes at end of table.

Table M-118. Graduate student-level nonresponse bias analysis for selected variables—private for-profit 4-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Institution total graduate enrollment ⁵					(Effect size = 0.09)			(Effect size = 0.05)	
1–3,878	1,070	530	14.03	12.00	-2.03	-14.47	12.75	-1.27	-9.08
3,879–5,560	640	200	11.23	11.76	0.53	4.72	11.58	0.35	3.11
5,5613–6,393	850	350	35.44	33.30	-2.13	-6.02	34.16	-1.28	-3.60
6,394 or more	890	300	39.31	42.94	3.63	9.25	41.51	2.20	5.60
Graduate field of study or major					(Effect size = ‡)			(Effect size = ‡)	
Humanities	‡	‡	‡	‡	‡	‡	‡	‡	‡
Social/behavioral sciences	230	60	8.27	9.88	1.61*	19.48	9.92	1.66*	20.04
Life sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡
Math/engineering/computer science	120	50	2.20	2.56	0.36	16.28	2.91	0.71*	32.38
Education	790	310	19.74	19.77	0.03	0.15	20.45	0.72	3.62
Business/management	480	200	12.81	10.99	-1.82*	-14.20	11.92	-0.89	-6.92
Health	1,530	610	43.99	42.42	-1.57	-3.57	40.85	-3.14*	-7.14
Law	‡	‡	‡	‡	‡	‡	‡	‡	‡
Others	160	50	8.18	10.55	2.37*	29.00	9.77	1.59*	19.45
Not applicable	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	10	80	1.63	0.17	-1.46	-89.47	0.32	-1.31	-80.28
Degree program (graduate only)					(Effect size = ‡)			(Effect size = ‡)	
Master's degree	1,560	680	71.17	70.07	-1.10	-1.55	69.28	-1.89	-2.66
Postbaccalaureate or post-master's certificate	190	50	4.44	5.59	1.15*	25.89	5.52	1.08*	24.21
Doctor's degree—research/scholarship	770	200	9.50	10.33	0.84	8.81	11.47	1.97*	20.73
Doctor's degree—professional practice	460	110	8.11	8.46	0.34	4.23	8.23	0.12	1.42
Doctor's degree—other	440	80	4.02	5.16	1.14*	28.39	4.99	0.96*	23.96
Not in a degree program	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	10	260	2.39	0.09	-2.29	-96.14	0.26	-2.12	-88.94
Student type					(Effect size = 0.01)			(Effect size = #)	
Graduate, excluding doctor's degree—professional practice	2,990	1,260	91.89	91.54	-0.34	-0.37	91.77	-0.12	-0.13
Doctor's degree—professional practice	460	110	8.11	8.46	0.34	4.23	8.23	0.12	1.42

See notes at end of table.

Table M-118. Graduate student-level nonresponse bias analysis for selected variables—private for-profit 4-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Number of office and administrative support employees ⁶					(Effect size = ‡)			(Effect size = ‡)	
0–4	580	260	8.12	7.97	-0.15	-1.85	8.68	0.56	6.90
5–14	490	260	3.96	3.38	-0.58	-14.53	3.12	-0.84	-21.14
15–35	950	440	41.84	43.44	1.60	3.83	42.45	0.61	1.45
36 or more	1,340	390	44.99	44.00	-0.99	-2.21	44.34	-0.66	-1.46
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total income from CPS:20 ⁷					(Effect size = ‡)			(Effect size = ‡)	
-\$8,164–\$20,298	430	140	13.01	13.22	0.21	1.62	12.09	-0.92	-7.06
\$20,299–\$48,219	430	140	17.28	19.67	2.39*	13.85	17.74	0.46	2.68
\$48,220–\$88,202	420	150	14.51	12.84	-1.68	-11.55	12.54	-1.97	-13.61
\$88,203 or more	430	140	13.28	14.17	0.89	6.70	13.01	-0.27	-2.00
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched	1,740	810	41.83	39.98	-1.85	-4.42	44.51	2.68*	6.41
Parents' highest education from CPS:20					(Effect size = ‡)			(Effect size = ‡)	
Middle school/junior high	100	40	7.50	8.77	1.28	17.02	7.83	0.34	4.49
High school	600	200	16.57	15.88	-0.69	-4.18	15.14	-1.44	-8.66
College or beyond	870	280	30.64	31.69	1.05	3.41	28.75	-1.89*	-6.17
Other/unknown	120	40	2.97	3.19	0.22	7.50	3.34	0.37	12.50
Missing	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not matched in CPS:20	1,740	810	41.83	39.98	-1.85	-4.42	44.51	2.68*	6.41
Has dependents from CPS:20					(Effect size = 0.04)			(Effect size = 0.05)	
Yes	940	330	34.54	35.58	1.04	3.02	33.19	-1.35	-3.90
No	780	230	23.63	24.44	0.81	3.41	22.30	-1.33	-5.64
Not matched in CPS:20	1,740	810	41.83	39.98	-1.85	-4.42	44.51	2.68*	6.41

See notes at end of table.

Table M-118. Graduate student-level nonresponse bias analysis for selected variables—private for-profit 4-year institutions: 2019–20—Continued

Variable	Sample counts		Before nonresponse weight adjustment				After nonresponse weight adjustment		
	Respondents, unweighted	Non-respondents, unweighted	Full-sample mean, base weighted	Respondent mean, base weighted	Estimated bias ¹	Relative bias ²	Respondent mean, non-response adjusted	Estimated bias ³	Relative bias ²
Student's marital status from CPS:20					(Effect size = 0.07)			(Effect size = 0.07)	
Single	730	230	23.95	24.56	0.62	2.58	22.72	-1.23	-5.13
Married/remarried	760	230	27.91	30.28	2.37	8.48	27.46	-0.45	-1.62
Separated	70	40	1.90	1.75	-0.14	-7.54	1.77	-0.13	-6.68
Divorced/widowed	160	70	4.42	3.43	-0.99	-22.46	3.55	-0.87	-19.72
Not matched in CPS:20	1,740	810	41.83	39.98	-1.85	-4.42	44.51	2.68*	6.41

Rounds to zero.

‡ Reporting standards not met (fewer than thirty nonrespondents).

* $p < 0.05$.¹ Bias in the sample mean is estimated as the weighted difference between the respondent and full-sample means using the student base weight.² Relative bias is defined as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Bias in the sample mean is estimated as the difference between the weighted respondent mean (using the student base weight adjusted for nonresponse) and weighted full-sample mean (using the student base weight).⁴ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁵ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁶ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁷ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations. As part of the expected family contribution (EFC) formula, some calculations include allowances against income or asset amounts that can result in negative numbers. NOTE: CPS = Central Processing System. Effect size is calculated as the square root of the sum over categories of the squared differences (respondent vs. full sample) over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-119. Graduate student-level analysis after poststratification for selected variables—all institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Control and level of institution					
Public 4-year, non-doctorate-granting, primarily subbaccalaureate	‡	‡	‡	‡	‡
Public 4-year, non-doctorate-granting, primarily baccalaureate	3.47	3.47	3.18	0.29*	0.29*
Public 4-year, doctorate-granting	43.73	43.73	43.15	0.58	0.58
Private nonprofit 4-year, non-doctorate-granting	5.46	5.46	5.26	0.20	0.20
Private nonprofit 4-year, doctorate-granting	37.94	37.94	38.64	-0.70	-0.70
Private for-profit 4-year	9.06	9.06	9.48	-0.42	-0.42
Bureau of Economic Analysis region ³					
New England	7.41	7.41	7.23	0.18	0.18
Mideast	19.09	19.09	18.40	0.69	0.69
Great Lakes	13.68	13.68	14.34	-0.66	-0.66
Plains	9.26	9.26	9.00	0.26	0.26
Southeast	22.15	22.15	21.99	0.16	0.16
Southwest	10.82	10.82	11.42	-0.60	-0.60
Rocky Mountains	4.59	4.59	4.22	0.37	0.37
Far West	12.23	12.23	12.41	-0.18	-0.18
Outlying Areas	0.78	0.78	1.00	-0.22*	-0.22*
Federal aid status					
Received	39.64	39.64	42.58	-2.94*	-2.94*
Did not receive	52.91	52.91	50.71	2.20*	2.20*
Unknown	7.44	7.44	6.71	0.73	0.73
Direct Loan status					
Received	36.70	36.70	39.28	-2.58*	-2.58*
Did not receive	63.30	63.30	60.72	2.58*	2.58*
Total Direct Loan amount received ⁴					
None	63.30	63.30	60.72	2.58*	2.58*
\$1–\$10,250	9.67	9.67	10.43	-0.76	-0.76
\$10,251–\$20,499	8.66	8.66	9.39	-0.73*	-0.73
\$20,500	12.19	12.19	12.06	0.13	0.13
\$20,501 or more	6.19	6.19	7.39	-1.20*	-1.20*
Age as of December 31, 2019					
15–23	13.61	13.56	13.54	0.07	0.02
24–29	39.59	39.38	39.36	0.23	0.02
30 or older	46.80	46.70	47.10	-0.30	-0.40
Unknown	‡	‡	‡	‡	‡
Institution aid status					
Received	30.98	30.98	33.98	-3.00*	-3.00*
Did not receive	‡	‡	‡	‡	‡
Unknown	10.52	28.44	10.70	-0.18	17.74*

See notes at end of table.

Table M-119. Graduate student-level analysis after poststratification for selected variables—all institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
State aid status					
Received	2.46	2.46	2.40	0.06	0.06
Did not receive	86.91	86.91	86.70	0.21	0.21
Unknown	10.63	10.63	10.90	-0.27	-0.27
Received any aid excluding private loans					
Received	66.57	66.57	71.22	-4.65*	-4.65*
Did not receive	‡	‡	‡	‡	‡
Unknown	6.09	17.67	5.08	1.01	12.59*
Veteran status					
Yes	4.37	4.37	6.03	-1.66*	-1.66*
No	95.63	95.63	93.97	1.66*	1.66*
Race/ethnicity					
American Indian or Alaska Native, not Hispanic or Latino	0.62	0.27	0.72	-0.10	-0.45*
Asian, not Hispanic or Latino	12.81	12.81	16.96	-4.15*	-4.15*
Black, not Hispanic or Latino	12.31	12.31	12.07	0.24	0.24
Hispanic or Latino, of any race	11.44	11.44	10.89	0.55	0.55
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡
White, not Hispanic or Latino	52.80	52.80	50.52	2.28*	2.28*
Two or more races, not Hispanic or Latino	6.89	3.05	6.64	0.25	-3.59*
Unknown	2.77	7.15	1.74	1.03*	5.41*
Gender					
Male	38.69	38.40	40.29	-1.60*	-1.89*
Female	59.93	60.12	58.57	1.36	1.55*
Unknown	1.38	1.48	1.14	0.24	0.34
Institution total graduate enrollment ⁴					
1–1,615	15.78	15.78	18.53	-2.75*	-2.75*
1,616–4,775	25.36	25.36	26.40	-1.04	-1.04
4,776–11,064	31.11	31.11	29.96	1.15	1.15
11,065 or more	27.76	27.76	25.11	2.65*	2.65*
Graduate field of study or major					
Humanities	5.01	5.69	4.86	0.15	0.83*
Social/behavioral sciences	6.98	6.76	6.47	0.51	0.29
Life sciences	7.35	6.53	8.19	-0.84*	-1.66*
Math/engineering/computer science	11.10	10.51	12.84	-1.74*	-2.33*
Education	17.20	15.80	16.93	0.27	-1.13
Business/management	13.41	13.88	12.44	0.97	1.44*
Health	22.65	22.28	23.00	-0.35	-0.72
Law	3.43	3.57	3.13	0.30	0.44
Others	10.86	10.18	9.90	0.96*	0.28
Not applicable	‡	‡	‡	‡	‡
Unknown	0.28	3.63	0.33	-0.05	3.30*

See notes at end of table.

Table M-119. Graduate student-level analysis after poststratification for selected variables—all institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Degree program (graduate only)					
Master's degree	63.24	62.99	56.37	6.87*	6.62*
Postbaccalaureate or post-master's certificate	5.61	4.96	5.86	-0.25	-0.90*
Doctor's degree—research/scholarship	16.15	13.81	20.11	-3.96*	-6.30*
Doctor's degree—professional practice	10.91	10.91	13.22	-2.31*	-2.31*
Doctor's degree—other	2.35	1.95	2.52	-0.17	-0.57*
Not in a degree program	1.69	2.78	1.86	-0.17	0.92*
Unknown	0.05	2.60	0.06	-0.01	2.54*
Student type					
Graduate, excluding doctor's degree—professional practice	89.09	89.09	86.78	2.31*	2.31*
Doctor's degree—professional practice	10.91	10.91	13.22	-2.31*	-2.31*
Number of office and administrative support employees ⁵					
0–31	10.02	10.05	9.46	0.56	0.59
32–75	11.87	12.19	12.19	-0.32	#
76–194	21.81	21.88	23.63	-1.82*	-1.75
195 or more	55.89	55.52	54.30	1.59	1.22
Unknown	0.41	0.36	0.41	#	-0.05
Total income from CPS:20 ⁶					
-\$14,016–\$9,174	11.06	11.06	11.67	-0.61	-0.61
\$9,175–\$30,742	11.51	11.51	11.73	-0.22	-0.22
\$30,743–\$66,838	11.28	11.28	10.82	0.46	0.46
\$66,839 or more	10.43	10.43	10.15	0.28	0.28
Unknown	‡	‡	‡	‡	‡
Not matched in CPS:20	55.67	55.67	55.53	0.14	0.14
Parents' highest education from CPS:20					
Middle school/junior high	1.78	1.78	1.50	0.28	0.28
High school	12.79	12.79	12.25	0.54	0.54
College or beyond	27.74	27.74	28.53	-0.79	-0.79
Other/unknown	1.64	1.64	1.80	-0.16	-0.16
Missing	‡	‡	‡	‡	‡
Not matched in CPS:20	55.67	55.67	55.53	0.14	0.14
Has dependents from CPS:20					
Yes	13.84	13.84	13.64	0.20	0.20
No	30.49	30.49	30.82	-0.33	-0.33
Not matched in CPS:20	55.67	55.67	55.53	0.14	0.14

See notes at end of table.

Table M-119. Graduate student-level analysis after poststratification for selected variables—all institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Student's marital status from CPS:20					
Single	28.56	28.56	28.53	0.03	0.03
Married/remarried	13.04	13.04	13.12	-0.08	-0.08
Separated	0.44	0.44	0.64	-0.20*	-0.20*
Divorced/widowed	2.30	2.30	2.18	0.12	0.12
Not matched in CPS:20	55.67	55.67	55.53	0.14	0.14

Rounds to zero.

‡ Reporting standards not met (fewer than thirty nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the student base weight, adjusted for nonresponse.² Mean is calculated using the student base weight, adjusted for nonresponse and poststratification.

³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.

⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

⁵ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

⁶ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations. As part of the expected family contribution (EFC) formula, some calculations include allowances against income or asset amounts that can result in negative numbers.

NOTE: CPS = Central Processing System. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-120. Graduate student-level analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis region ³					
New England	†	†	†	†	†
Mideast	†	†	†	†	†
Great Lakes	†	†	†	†	†
Plains	†	†	†	†	†
Southeast	†	†	†	†	†
Southwest	†	†	†	†	†
Rocky Mountains	†	†	†	†	†
Far West	†	†	†	†	†
Outlying Areas	†	†	†	†	†
Federal aid status					
Received	†	†	†	†	†
Did not receive	†	†	†	†	†
Unknown	†	†	†	†	†
Direct Loan status					
Received	†	†	†	†	†
Did not receive	†	†	†	†	†
Total Direct Loan amount received ⁴					
None	†	†	†	†	†
\$1–\$3,750	†	†	†	†	†
\$3,751–\$6,915	†	†	†	†	†
\$6,916–\$10,250	†	†	†	†	†
\$10,251- or more	†	†	†	†	†
Age as of December 31, 2019					
15–23	†	†	†	†	†
24–29	†	†	†	†	†
30 or older	†	†	†	†	†
Unknown	†	†	†	†	†
Institution aid status					
Received	†	†	†	†	†
Did not receive	†	†	†	†	†
Unknown	†	†	†	†	†
State aid status					
Received	†	†	†	†	†
Did not receive	†	†	†	†	†
Unknown	†	†	†	†	†
Received any aid excluding private loans					
Received	†	†	†	†	†
Did not receive	†	†	†	†	†
Unknown	†	†	†	†	†
Veteran status					
Yes	†	†	†	†	†
No	†	†	†	†	†

See notes at end of table.

Table M-120. Graduate student-level analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race/ethnicity					
American Indian or Alaska Native, not Hispanic or Latino	†	†	†	†	†
Asian, not Hispanic or Latino	†	†	†	†	†
Black, not Hispanic or Latino	†	†	†	†	†
Hispanic or Latino, of any race	†	†	†	†	†
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	†	†	†	†	†
White, not Hispanic or Latino	†	†	†	†	†
Two or more races, not Hispanic or Latino	†	†	†	†	†
Unknown	†	†	†	†	†
Gender					
Male	†	†	†	†	†
Female	†	†	†	†	†
Unknown	†	†	†	†	†
Institution total graduate enrollment ⁴					
1–2	†	†	†	†	†
3–10	†	†	†	†	†
11 or more	†	†	†	†	†
Graduate field of study or major					
Humanities	†	†	†	†	†
Social/behavioral sciences	†	†	†	†	†
Life sciences	†	†	†	†	†
Math/engineering/computer science	†	†	†	†	†
Education	†	†	†	†	†
Business/management	†	†	†	†	†
Health	†	†	†	†	†
Law	†	†	†	†	†
Others	†	†	†	†	†
Not applicable	†	†	†	†	†
Unknown	†	†	†	†	†
Degree program (graduate only)					
Master's degree	†	†	†	†	†
Postbaccalaureate or post-master's certificate	†	†	†	†	†
Doctor's degree—research/scholarship	†	†	†	†	†
Doctor's degree—professional practice	†	†	†	†	†
Doctor's degree—other	†	†	†	†	†
Not in a degree program	†	†	†	†	†
Unknown	†	†	†	†	†
Number of office and administrative support employees ⁵					
0–25	†	†	†	†	†
26–80	†	†	†	†	†
81–165	†	†	†	†	†
166 or more	†	†	†	†	†

See notes at end of table.

Table M-120. Graduate student-level analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Total income from CPS:20 ⁴					
\$0–\$8,000	‡	‡	‡	‡	‡
\$8,001–\$17,676	‡	‡	‡	‡	‡
\$17,677–\$41,876	‡	‡	‡	‡	‡
\$41,877 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Not matched	‡	‡	‡	‡	‡
Parents' highest education from CPS:20					
Middle school/junior high	‡	‡	‡	‡	‡
High school	‡	‡	‡	‡	‡
College or beyond	‡	‡	‡	‡	‡
Other/unknown	‡	‡	‡	‡	‡
Missing	‡	‡	‡	‡	‡
Not matched in CPS:20	‡	‡	‡	‡	‡
Has dependents from CPS:20					
Yes	‡	‡	‡	‡	‡
No	‡	‡	‡	‡	‡
Not matched in CPS:20	‡	‡	‡	‡	‡
Student's marital status from CPS:20					
Single	‡	‡	‡	‡	‡
Married/remarried	‡	‡	‡	‡	‡
Separated	‡	‡	‡	‡	‡
Divorced/widowed	‡	‡	‡	‡	‡
Not matched in CPS:20	‡	‡	‡	‡	‡

‡ Reporting standards not met (fewer than thirty nonrespondents).

¹ Mean is calculated using the student base weight, adjusted for nonresponse.² Mean is calculated using the student base weight, adjusted for nonresponse and poststratification.³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁵ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: CPS = Central Processing System. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-121. Graduate student-level analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis region ³					
New England	15.43	15.50	15.02	0.41	0.48
Mideast	15.73	17.90	16.56	-0.83	1.34
Great Lakes	‡	‡	‡	‡	‡
Plains	6.45	8.59	6.51	-0.06	2.08
Southeast	18.87	17.58	20.14	-1.27	-2.56
Southwest	13.87	12.87	13.03	0.84	-0.16
Rocky Mountains	‡	‡	‡	‡	‡
Far West	9.70	10.98	10.17	-0.47	0.81
Outlying Areas	‡	‡	‡	‡	‡
Federal aid status					
Received	34.78	34.00	39.14	-4.36*	-5.14*
Did not receive	52.72	54.98	50.65	2.07	4.33*
Unknown	12.50	11.02	10.22	2.28	0.80
Direct Loan status					
Received	33.26	32.59	37.74	-4.48*	-5.15*
Did not receive	66.74	67.41	62.26	4.48*	5.15*
Total Direct Loan amount received ⁴					
None	66.74	67.41	62.26	4.48*	5.15*
\$1–\$7,696	‡	‡	‡	‡	‡
\$7,697–\$14,146	‡	‡	‡	‡	‡
\$14,147–\$20,500	12.33	14.23	15.64	-3.31*	-1.41
\$20,501 or more	‡	‡	‡	‡	‡
Age as of December 31, 2019					
15–23	11.89	11.67	12.37	-0.48	-0.70
24–29	31.68	33.03	32.87	-1.19	0.16
30 or older	56.43	55.29	54.76	1.67	0.53
Unknown	‡	‡	‡	‡	‡
Institution aid status					
Received	14.60	15.77	15.29	-0.69	0.48
Did not receive	‡	‡	‡	‡	‡
Unknown	15.53	33.39	13.27	2.26	20.12*
State aid status					
Received	‡	‡	‡	‡	‡
Did not receive	80.53	82.15	82.52	-1.99	-0.37
Unknown	16.37	14.80	14.17	2.20	0.63
Received any aid excluding private loans					
Received	54.38	54.21	57.92	-3.54*	-3.71*
Did not receive	‡	‡	‡	‡	‡
Unknown	11.03	24.03	8.68	2.35*	15.35*
Veteran status					
Yes	4.56	4.65	4.52	0.04	0.13
No	95.44	95.35	95.48	-0.04	-0.13

See notes at end of table.

Table M-121. Graduate student-level analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2019–20—
Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race/ethnicity					
American Indian or Alaska Native, not Hispanic or Latino	‡	‡	‡	‡	‡
Asian, not Hispanic or Latino	5.02	6.04	6.95	-1.93*	-0.91
Black, not Hispanic or Latino	10.56	11.22	10.68	-0.12	0.54
Hispanic or Latino, of any race	11.20	11.31	10.28	0.92*	1.03
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡
White, not Hispanic or Latino	61.17	63.59	62.20	-1.03	1.39
Two or more races, not Hispanic or Latino	‡	‡	‡	‡	‡
Unknown	2.47	4.70	1.20	1.27	3.50*
Gender					
Male	32.91	32.40	32.94	-0.03	-0.54
Female	66.78	66.50	66.75	0.03	-0.25
Unknown	‡	‡	‡	‡	‡
Institution total graduate enrollment ⁴					
1–548	17.54	15.72	18.16	-0.62	-2.44*
549–1,218	23.05	25.46	23.77	-0.72	1.69
1,219–2,101	29.83	27.77	32.32	-2.49*	-4.55*
2,102 or more	29.58	31.05	25.75	3.83	5.30*
Graduate field of study or major					
Humanities	4.88	5.20	4.52	0.36	0.68
Social/behavioral sciences	‡	‡	‡	‡	‡
Life sciences	4.30	4.43	4.69	-0.39	-0.26
Math/engineering/computer science	4.77	4.56	4.96	-0.19	-0.40
Education	34.34	33.88	34.11	0.23	-0.23
Business/management	19.35	20.33	18.30	1.05	2.03
Health	‡	‡	‡	‡	‡
Law	‡	‡	‡	‡	‡
Others	9.46	9.39	10.54	-1.08*	-1.15
Not applicable	‡	‡	‡	‡	‡
Unknown	0.56	3.26	0.65	-0.09	2.61*
Degree program (graduate only)					
Master's degree	82.61	77.11	84.33	-1.72	-7.22*
Postbaccalaureate or post-master's certificate	11.28	11.40	11.23	0.05	0.17
Doctor's degree—research/scholarship	‡	‡	‡	‡	‡
Doctor's degree—professional practice	‡	‡	‡	‡	‡
Doctor's degree—other	‡	‡	‡	‡	‡
Not in a degree program	5.95	8.03	4.28	1.67	3.75*
Unknown	0.11	3.41	0.12	-0.01	3.29*
Student type					
Graduate, excluding doctor's degree—professional practice	99.95	99.96	99.96	-0.01	#
Doctor's degree—professional practice	‡	‡	‡	‡	‡

See notes at end of table.

Table M-121. Graduate student-level analysis after poststratification for selected variables—public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2019–20—
Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Number of office and administrative support employees ⁵					
0–42	14.46	12.20	11.51	2.95	0.69
43–68	18.28	17.60	18.03	0.25	-0.43
69–115	27.06	25.76	27.01	0.05	-1.25
116 or more	39.55	43.00	42.77	-3.22*	0.23
Unknown	‡	‡	‡	‡	‡
Total income from CPS:20 ⁴					
\$0–\$8,814	8.74	9.13	9.92	-1.18*	-0.79
\$8,815–\$29,859	8.87	9.14	9.17	-0.30	-0.03
\$29,860–\$61,000	11.95	11.15	12.64	-0.69	-1.49
\$61,001 or more	12.75	11.75	13.37	-0.62	-1.62
Unknown	‡	‡	‡	‡	‡
Not matched	57.61	58.79	54.80	2.81*	3.99*
Parents' highest education from CPS:20					
Middle school/junior high	‡	‡	‡	‡	‡
High school	13.69	14.55	14.08	-0.39	0.47
College or beyond	26.16	24.00	28.40	-2.24	-4.40*
Other/unknown	‡	‡	‡	‡	‡
Missing	‡	‡	‡	‡	‡
Not matched in CPS:20	57.61	58.79	54.80	2.81*	3.99*
Has dependents from CPS:20					
Yes	14.21	13.61	15.33	-1.12	-1.72
No	28.18	27.60	29.87	-1.69	-2.27
Not matched in CPS:20	57.61	58.79	54.80	2.81*	3.99*
Student's marital status from CPS:20					
Single	26.20	26.92	27.25	-1.05	-0.33
Married/remarried	13.81	12.24	15.12	-1.31	-2.88*
Separated	‡	‡	‡	‡	‡
Divorced/widowed	‡	‡	‡	‡	‡
Not matched in CPS:20	57.61	58.79	54.80	2.81*	3.99*

Rounds to zero.

‡ Reporting standards not met (fewer than thirty nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the student base weight, adjusted for nonresponse.² Mean is calculated using the student base weight, adjusted for nonresponse and poststratification.³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.⁵ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: CPS = Central Processing System. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-122. Graduate student-level analysis after poststratification for selected variables—public 4-year, doctorate-granting institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis region ³					
New England	2.25	2.47	2.55	-0.30*	-0.08
Mideast	13.07	13.23	12.16	0.91	1.07
Great Lakes	15.21	15.53	15.60	-0.39	-0.07
Plains	8.44	8.00	9.53	-1.09*	-1.53*
Southeast	30.86	30.80	29.13	1.73	1.67
Southwest	13.70	13.96	13.98	-0.28	-0.02
Rocky Mountains	4.61	4.45	5.13	-0.52	-0.68
Far West	11.58	11.14	11.51	0.07	-0.37
Outlying Areas	‡	‡	‡	‡	‡
Federal aid status					
Received	34.86	34.26	37.22	-2.36*	-2.96*
Did not receive	59.29	59.27	56.89	2.40*	2.38*
Unknown	5.85	6.48	5.89	-0.04	0.59
Direct Loan status					
Received	32.14	31.59	34.11	-1.97*	-2.52*
Did not receive	67.86	68.41	65.89	1.97*	2.52*
Total Direct Loan amount received ⁴					
None	67.86	68.41	65.89	1.97*	2.52*
\$1–\$12,500	10.96	10.34	11.69	-0.73	-1.35*
\$12,501–\$20,500	6.40	6.46	6.25	0.15	0.21
\$20,501–\$26,756	10.52	10.31	10.25	0.27	0.06
\$26,757 or more	4.26	4.47	5.92	-1.66*	-1.45*
Age as of December 31, 2019					
15–23	16.71	15.82	15.62	1.09	0.20
24–29	41.88	41.81	41.93	-0.05	-0.12
30 or older	41.40	42.34	42.45	-1.05	-0.11
Unknown	‡	‡	‡	‡	‡
Institution aid status					
Received	36.58	35.49	41.09	-4.51*	-5.60*
Did not receive	‡	‡	‡	‡	‡
Unknown	6.95	25.73	7.50	-0.55	18.23*
State aid status					
Received	4.08	4.15	3.95	0.13	0.20
Did not receive	88.92	88.75	88.40	0.52	0.35
Unknown	7.00	7.11	7.65	-0.65	-0.54
Received any aid excluding private loans					
Received	67.06	66.35	72.39	-5.33*	-6.04*
Did not receive	‡	‡	‡	‡	‡
Unknown	4.22	16.79	4.05	0.17	12.74*
Veteran status					
Yes	3.86	3.63	6.00	-2.14*	-2.37*
No	96.14	96.37	94.00	2.14*	2.37*

See notes at end of table.

Table M-122. Graduate student-level analysis after poststratification for selected variables—public 4-year, doctorate-granting institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race/ethnicity					
American Indian or Alaska Native, not Hispanic or Latino	‡	‡	‡	‡	‡
Asian, not Hispanic or Latino	14.63	13.90	16.84	-2.21*	-2.94*
Black, not Hispanic or Latino	10.93	10.65	10.15	0.78	0.50
Hispanic or Latino, of any race	10.47	10.42	10.79	-0.32	-0.37
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡
White, not Hispanic or Latino	56.36	56.03	54.43	1.93	1.60
Two or more races, not Hispanic or Latino	5.75	2.84	5.75	#	-2.91*
Unknown	1.01	5.73	1.03	-0.02	4.70*
Gender					
Male	42.34	41.64	42.87	-0.53	-1.23
Female	56.51	56.77	55.83	0.68	0.94
Unknown	1.14	1.59	1.30	-0.16	0.29
Institution total graduate enrollment ⁴					
1–2,926	16.14	15.98	20.20	-4.06*	-4.22*
2,927–6,275	27.49	27.72	27.26	0.23	0.46
6,276–11,079	29.12	29.82	28.38	0.74	1.44
11,080 or more	27.25	26.48	24.16	3.09*	2.32
Graduate field of study or major					
Humanities	3.51	4.06	3.17	0.34	0.89*
Social/behavioral sciences	6.05	5.37	6.32	-0.27	-0.95*
Life sciences	10.45	9.24	10.48	-0.03	-1.24*
Math/engineering/computer science	14.96	14.08	14.81	0.15	-0.73
Education	15.61	15.10	15.30	0.31	-0.20
Business/management	10.22	11.38	9.48	0.74	1.90*
Health	19.44	19.34	20.93	-1.49*	-1.59*
Law	2.94	2.95	3.77	-0.83*	-0.82*
Others	14.89	13.67	13.33	1.56*	0.34
Not applicable	‡	‡	‡	‡	‡
Unknown	0.07	3.58	0.09	-0.02	3.49*
Degree program (graduate only)					
Master's degree	58.08	58.14	44.90	13.18*	13.24*
Postbaccalaureate or post-master's certificate	6.05	5.26	6.66	-0.61	-1.40*
Doctor's degree—research/scholarship	19.88	18.30	26.72	-6.84*	-8.42*
Doctor's degree—professional practice	12.11	11.51	17.17	-5.06*	-5.66*
Doctor's degree—other	2.01	1.59	2.21	-0.20	-0.62*
Not in a degree program	1.86	3.43	2.34	-0.48*	1.09
Unknown	‡	‡	‡	‡	‡
Student type					
Graduate, excluding doctor's degree—professional practice	87.89	88.49	82.83	5.06*	5.66*
Doctor's degree—professional practice	12.11	11.51	17.17	-5.06*	-5.66*

See notes at end of table.

Table M-122. Graduate student-level analysis after poststratification for selected variables—public 4-year, doctorate-granting institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Number of office and administrative support employees ⁵					
0–131	7.60	8.91	9.65	-2.05*	-0.74
132–245	17.00	15.74	16.86	0.14	-1.12
246–520	28.20	26.93	26.72	1.48	0.21
521 or more	46.80	48.07	46.50	0.30	1.57
Unknown	0.41	0.34	0.28	0.13	0.06
Total income from CPS:20 ⁶					
-\$6,169–\$6,377	8.51	8.19	8.99	-0.48	-0.80
\$6,378–\$20,999	10.89	10.79	11.01	-0.12	-0.22
\$21,000–\$55,653	11.08	11.05	10.73	0.35	0.32
\$55,654 or more	10.87	10.89	10.60	0.27	0.29
Unknown	‡	‡	‡	‡	‡
Not matched	58.57	58.99	58.56	0.01	0.43
Parents' highest education from CPS:20					
Middle school/junior high	1.10	1.13	1.13	-0.03	#
High school	12.89	12.53	11.54	1.35*	0.99
College or beyond	26.05	25.70	27.09	-1.04	-1.39
Other/unknown	‡	‡	‡	‡	‡
Missing	‡	‡	‡	‡	‡
Not matched in CPS:20	58.57	58.99	58.56	0.01	0.43
Has dependents from CPS:20					
Yes	10.49	10.70	10.65	-0.16	0.05
No	30.93	30.31	30.80	0.13	-0.49
Not matched in CPS:20	58.57	58.99	58.56	0.01	0.43
Student's marital status from CPS:20					
Single	27.96	27.72	28.13	-0.17	-0.41
Married/remarried	11.03	11.11	11.00	0.03	0.11
Separated	‡	‡	‡	‡	‡
Divorced/widowed	2.05	1.77	1.82	0.23	-0.05
Not matched in CPS:20	58.57	58.99	58.56	0.01	0.43

Rounds to zero.

‡ Reporting standards not met (fewer than thirty nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the student base weight, adjusted for nonresponse.² Mean is calculated using the student base weight, adjusted for nonresponse and poststratification.

³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.

⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

⁵ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

⁶ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations. As part of the expected family contribution (EFC) formula, some calculations include allowances against income or asset amounts that can result in negative numbers.

NOTE: CPS = Central Processing System. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-123. Graduate student-level analysis after poststratification for selected variables—private nonprofit 4-year, non-doctorate-granting institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis region ³					
New England	16.43	16.46	18.35	-1.92	-1.89
Mideast	16.57	14.74	17.77	-1.20	-3.03
Great Lakes	12.98	12.61	15.39	-2.41	-2.78
Plains	9.71	11.22	11.48	-1.77	-0.26
Southeast	7.93	8.21	8.99	-1.06	-0.78
Southwest	‡	‡	‡	‡	‡
Rocky Mountains	28.64	29.12	17.62	11.02	11.50
Far West	‡	‡	‡	‡	‡
Outlying Areas	‡	‡	‡	‡	‡
Federal aid status					
Received	48.06	45.94	44.51	3.55*	1.43
Did not receive	45.88	47.22	47.16	-1.28	0.06
Unknown	6.06	6.84	8.33	-2.27*	-1.49
Direct Loan status					
Received	46.75	43.99	42.86	3.89*	1.13
Did not receive	53.25	56.01	57.14	-3.89*	-1.13
Total Direct Loan amount received ⁴					
None	53.25	56.01	57.14	-3.89*	-1.13
\$1–\$8,000	12.83	13.68	11.54	1.29	2.14
\$8,001–\$13,949	12.20	10.27	11.05	1.15	-0.78
\$13,950–\$20,500	19.50	18.11	18.43	1.07	-0.32
\$20,501 or more	‡	‡	‡	‡	‡
Age as of December 31, 2019					
15–23	11.52	11.05	12.09	-0.57	-1.04
24–29	29.68	27.95	30.32	-0.64	-2.37
30 or older	58.80	60.99	57.59	1.21	3.40
Unknown	‡	‡	‡	‡	‡
Institution aid status					
Received	24.33	22.80	23.93	0.40	-1.13
Did not receive	‡	‡	‡	‡	‡
Unknown	12.24	28.98	15.72	-3.48*	13.26*
State aid status					
Received	‡	‡	‡	‡	‡
Did not receive	86.97	86.37	83.04	3.93*	3.33
Unknown	12.69	13.26	16.58	-3.89*	-3.32
Received any aid excluding private loans					
Received	69.87	67.64	68.52	1.35	-0.88
Did not receive	‡	‡	‡	‡	‡
Unknown	4.82	16.41	6.43	-1.61	9.98*
Veteran status					
Yes	5.28	6.59	6.49	-1.21*	0.10
No	94.72	93.41	93.51	1.21*	-0.10

See notes at end of table.

Table M-123. Graduate student-level analysis after poststratification for selected variables—private nonprofit 4-year, non-doctorate-granting institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race/ethnicity					
American Indian or Alaska Native, not Hispanic or Latino	‡	‡	‡	‡	‡
Asian, not Hispanic or Latino	‡	‡	‡	‡	‡
Black, not Hispanic or Latino	14.39	13.55	11.49	2.90	2.06
Hispanic or Latino, of any race	11.00	12.09	11.47	-0.47	0.62
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡
White, not Hispanic or Latino	57.89	57.32	57.41	0.48	-0.09
Two or more races, not Hispanic or Latino	‡	‡	‡	‡	‡
Unknown	2.35	6.96	2.56	-0.21	4.40
Gender					
Male	35.85	34.86	34.16	1.69	0.70
Female	63.01	63.70	64.29	-1.28	-0.59
Unknown	‡	‡	‡	‡	‡
Institution total graduate enrollment ⁴					
1–211	11.00	10.57	14.05	-3.05*	-3.48*
212–444	16.30	17.14	21.84	-5.54*	-4.70*
445–935	20.63	21.19	24.06	-3.43	-2.87
936 or more	52.07	51.10	40.05	12.02*	11.05*
Graduate field of study or major					
Humanities	10.11	9.52	13.38	-3.27*	-3.86*
Social/behavioral sciences	‡	‡	‡	‡	‡
Life sciences	‡	‡	‡	‡	‡
Math/engineering/computer science	8.51	8.39	8.35	0.16	0.04
Education	22.21	20.34	19.38	2.83	0.96
Business/management	21.93	24.23	19.27	2.66	4.96*
Health	19.61	19.66	20.16	-0.55	-0.50
Law	‡	‡	‡	‡	‡
Others	‡	‡	‡	‡	‡
Not applicable	‡	‡	‡	‡	‡
Unknown	0.08	2.32	0.10	-0.02	2.22*
Degree program (graduate only)					
Master's degree	91.63	87.38	90.55	1.08	-3.17
Postbaccalaureate or post-master's certificate	‡	‡	‡	‡	‡
Doctor's degree—research/scholarship	‡	‡	‡	‡	‡
Doctor's degree—professional practice	‡	‡	‡	‡	‡
Doctor's degree—other	‡	‡	‡	‡	‡
Not in a degree program	‡	‡	‡	‡	‡
Unknown	0.19	3.98	0.23	-0.04	3.75
Student type					
Graduate, excluding doctor's degree—professional practice	99.87	99.89	99.85	0.02	0.04
Doctor's degree—professional practice	‡	‡	‡	‡	‡

See notes at end of table.

Table M-123. Graduate student-level analysis after poststratification for selected variables—private nonprofit 4-year, non-doctorate-granting institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Number of office and administrative support employees ⁵					
0–13	7.99	7.56	10.78	-2.79*	-3.22*
14–28	11.75	10.98	15.88	-4.13*	-4.90*
29–50	26.21	25.42	26.74	-0.53	-1.32
51 or more	53.13	55.23	45.29	7.84	9.94*
Unknown	‡	‡	‡	‡	‡
Total income from CPS:20 ⁴					
\$0–\$9,838	11.05	10.95	11.85	-0.80	-0.90
\$9,839–\$31,178	20.63	16.19	14.67	5.96*	1.52
\$31,179–\$64,843	15.27	14.26	13.55	1.72*	0.71
\$64,844 or more	13.92	14.58	12.75	1.17	1.83
Unknown	‡	‡	‡	‡	‡
Not matched	39.11	43.96	47.14	-8.03*	-3.18
Parents' highest education from CPS:20					
Middle school/junior high	‡	‡	‡	‡	‡
High school	16.28	15.04	14.61	1.67	0.43
College or beyond	40.06	37.22	33.58	6.48*	3.64*
Other/unknown	‡	‡	‡	‡	‡
Missing	‡	‡	‡	‡	‡
Not matched in CPS:20	39.11	43.96	47.14	-8.03*	-3.18
Has dependents from CPS:20					
Yes	24.91	23.39	18.83	6.08*	4.56*
No	35.98	32.65	34.03	1.95	-1.38
Not matched in CPS:20	39.11	43.96	47.14	-8.03*	-3.18
Student's marital status from CPS:20					
Single	37.62	32.48	32.35	5.27*	0.13
Married/remarried	18.89	19.66	16.81	2.08	2.85
Separated	‡	‡	‡	‡	‡
Divorced/widowed	‡	‡	‡	‡	‡
Not matched in CPS:20	39.11	43.96	47.14	-8.03*	-3.18

‡ Reporting standards not met (fewer than thirty nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the student base weight, adjusted for nonresponse.² Mean is calculated using the student base weight, adjusted for nonresponse and poststratification.

³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.

⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

⁵ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

NOTE: CPS = Central Processing System. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-124. Graduate student-level analysis after poststratification for selected variables—private nonprofit 4-year, doctorate-granting institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis region ³					
New England	13.03	12.74	12.01	1.02	0.73
Mideast	30.36	30.13	28.68	1.68	1.45
Great Lakes	12.34	11.93	12.17	0.17	-0.24
Plains	6.28	7.06	7.44	-1.16*	-0.38
Southeast	16.85	16.86	17.85	-1.00	-0.99
Southwest	5.47	5.13	6.32	-0.85	-1.19
Rocky Mountains	0.96	1.19	1.24	-0.28*	-0.05
Far West	13.46	13.82	12.68	0.78	1.14
Outlying Areas	1.26	1.15	1.60	-0.34*	-0.45*
Federal aid status					
Received	41.52	42.22	45.09	-3.57*	-2.87*
Did not receive	48.53	48.69	47.29	1.24	1.40
Unknown	9.95	9.09	7.62	2.33	1.47
Direct Loan status					
Received	38.30	38.95	41.05	-2.75*	-2.10
Did not receive	61.70	61.05	58.95	2.75*	2.10
Total Direct Loan amount received ⁴					
None	61.70	61.05	58.95	2.75*	2.10
\$1–\$13,000	8.74	9.40	9.96	-1.22*	-0.56
\$13,001–\$20,500	5.88	6.01	6.28	-0.40	-0.27
\$20,501–\$33,000	19.33	19.29	18.92	0.41	0.37
\$33,001 or more	4.35	4.25	5.90	-1.55*	-1.65*
Age as of December 31, 2019					
15–23	13.19	14.10	14.16	-0.97	-0.06
24–29	41.18	41.15	41.72	-0.54	-0.57
30 or older	45.63	43.86	44.12	1.51	-0.26
Unknown	‡	‡	‡	‡	‡
Institution aid status					
Received	28.76	29.33	30.88	-2.12	-1.55
Did not receive	‡	‡	‡	‡	‡
Unknown	14.79	32.75	13.50	1.29	19.25*
State aid status					
Received	‡	‡	‡	‡	‡
Did not receive	83.77	84.04	84.98	-1.21	-0.94
Unknown	14.87	14.66	13.62	1.25	1.04
Received any aid excluding private loans					
Received	66.64	67.06	71.67	-5.03*	-4.61*
Did not receive	‡	‡	‡	‡	‡
Unknown	8.65	19.80	5.95	2.70	13.85*
Veteran status					
Yes	4.08	4.07	6.00	-1.92*	-1.93*
No	95.92	95.93	94.00	1.92*	1.93*

See notes at end of table.

Table M-124. Graduate student-level analysis after poststratification for selected variables—private nonprofit 4-year, doctorate-granting institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race/ethnicity					
American Indian or Alaska Native, not Hispanic or Latino	‡	‡	‡	‡	‡
Asian, not Hispanic or Latino	13.97	14.76	20.42	-6.45*	-5.66*
Black, not Hispanic or Latino	10.91	10.96	10.91	#	0.05
Hispanic or Latino, of any race	12.11	11.97	10.90	1.21	1.07
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡
White, not Hispanic or Latino	48.76	49.03	47.29	1.47	1.74
Two or more races, not Hispanic or Latino	8.43	3.42	6.99	1.44	-3.57*
Unknown	4.87	9.54	2.45	2.42	7.09*
Gender					
Male	38.41	38.77	42.06	-3.65*	-3.29*
Female	59.62	59.84	56.86	2.76	2.98*
Unknown	1.97	1.39	1.08	0.89	0.31
Institution total graduate enrollment ⁴					
1–2,008	24.44	23.91	27.40	-2.96	-3.49*
2,009–5,718	29.77	30.74	28.37	1.40	2.37
5,719–12,497	26.52	25.12	25.16	1.36	-0.04
12,498 or more	19.27	20.23	19.07	0.20	1.16
Graduate field of study or major					
Humanities	7.08	8.22	6.62	0.46	1.60*
Social/behavioral sciences	8.05	8.67	7.53	0.52	1.14
Life sciences	6.16	5.49	8.34	-2.18*	-2.85*
Math/engineering/computer science	9.63	9.30	14.26	-4.63*	-4.96*
Education	16.04	13.41	15.33	0.71	-1.92
Business/management	15.71	14.95	14.20	1.51	0.75
Health	23.53	22.06	21.34	2.19	0.72
Law	5.18	5.65	3.46	1.72*	2.19*
Others	6.97	7.11	7.08	-0.11	0.03
Not applicable	‡	‡	‡	‡	‡
Unknown	0.52	4.38	0.56	-0.04	3.82*
Degree program (graduate only)					
Master's degree	62.30	62.24	59.66	2.64	2.58
Postbaccalaureate or post-master's certificate	4.18	3.76	4.05	0.13	-0.29
Doctor's degree—research/scholarship	16.91	13.04	19.57	-2.66*	-6.53*
Doctor's degree—professional practice	12.80	13.52	12.64	0.16	0.88
Doctor's degree—other	2.67	2.34	2.79	-0.12	-0.45
Not in a degree program	1.14	1.78	1.28	-0.14	0.50
Unknown	‡	‡	‡	‡	‡
Student type					
Graduate, excluding doctor's degree—professional practice	87.20	86.48	87.36	-0.16	-0.88
Doctor's degree—professional practice	12.80	13.52	12.64	0.16	0.88

See notes at end of table.

Table M-124. Graduate student-level analysis after poststratification for selected variables—private nonprofit 4-year, doctorate-granting institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Number of office and administrative support employees ⁵					
0–33	10.51	11.22	9.59	0.92	1.63
34–66	16.96	16.67	16.41	0.55	0.26
67–156	19.57	20.39	21.25	-1.68	-0.86
157 or more	52.87	51.68	52.64	0.23	-0.96
Unknown	‡	‡	‡	‡	‡
Total income from CPS:20 ⁶					
-\$14,016–\$8,021	11.68	12.19	12.00	-0.32	0.19
\$8,022–\$29,292	10.91	11.35	11.36	-0.45	-0.01
\$29,293–\$67,554	10.52	10.11	10.02	0.50	0.09
\$67,555 or more	9.74	9.82	9.83	-0.09	-0.01
Unknown	‡	‡	‡	‡	‡
Not matched	57.13	56.50	56.74	0.39	-0.24
Parents' highest education from CPS:20					
Middle school/junior high	‡	‡	‡	‡	‡
High school	11.51	11.67	10.95	0.56	0.72
College or beyond	27.90	28.45	29.28	-1.38	-0.83
Other/unknown	‡	‡	‡	‡	‡
Missing	‡	‡	‡	‡	‡
Not matched in CPS:20	57.13	56.50	56.74	0.39	-0.24
Has dependents from CPS:20					
Yes	11.49	11.21	12.06	-0.57	-0.85
No	31.38	32.29	31.20	0.18	1.09
Not matched in CPS:20	57.13	56.50	56.74	0.39	-0.24
Student's marital status from CPS:20					
Single	29.56	30.19	28.80	0.76	1.39
Married/remarried	11.04	10.87	12.21	-1.17*	-1.34*
Separated	‡	‡	‡	‡	‡
Divorced/widowed	2.11	2.31	1.94	0.17	0.37
Not matched in CPS:20	57.13	56.50	56.74	0.39	-0.24

Rounds to zero.

‡ Reporting standards not met (fewer than thirty nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the student base weight, adjusted for nonresponse.² Mean is calculated using the student base weight, adjusted for nonresponse and poststratification.

³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.

⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

⁵ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

⁶ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations. As part of the expected family contribution (EFC) formula, some calculations include allowances against income or asset amounts that can result in negative numbers.

NOTE: CPS = Central Processing System. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-125. Graduate student-level analysis after poststratification for selected variables—private for-profit 4-year institutions: 2019–20

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis region ³					
New England	‡	‡	‡	‡	‡
Mideast	4.25	4.52	6.13	-1.88	-1.61
Great Lakes	14.67	15.53	19.07	-4.40	-3.54
Plains	26.39	23.58	12.50	13.89	11.08
Southeast	12.34	12.80	14.25	-1.91	-1.45
Southwest	23.69	24.51	25.22	-1.53	-0.71
Rocky Mountains	2.18	2.48	2.51	-0.33	-0.03
Far West	15.94	15.93	19.67	-3.73	-3.74
Outlying Areas	‡	‡	‡	‡	‡
Federal aid status					
Received	52.77	54.21	57.79	-5.02*	-3.58
Did not receive	43.81	41.67	37.74	6.07*	3.93
Unknown	3.42	4.12	4.47	-1.05	-0.35
Direct Loan status					
Received	48.44	50.18	55.10	-6.66*	-4.92
Did not receive	51.56	49.82	44.90	6.66*	4.92
Total Direct Loan amount received ⁴					
None	51.56	49.82	44.90	6.66*	4.92
\$1–\$9,500	9.92	10.56	14.41	-4.49*	-3.85*
\$9,501–\$17,269	14.33	14.01	15.74	-1.41	-1.73
\$17,270–\$20,500	12.74	14.89	17.37	-4.63*	-2.48
\$20,501 or more	11.44	10.72	7.58	3.86*	3.14
Age as of December 31, 2019					
15–23	2.16	2.36	2.60	-0.44	-0.24
24–29	30.72	29.67	25.27	5.45	4.40
30 or older	67.12	67.98	72.13	-5.01	-4.15
Unknown	‡	‡	‡	‡	‡
Institution aid status					
Received	24.48	27.78	27.01	-2.53	0.77
Did not receive	‡	‡	‡	‡	‡
Unknown	6.85	21.54	10.10	-3.25	11.44*
State aid status					
Received	‡	‡	‡	‡	‡
Did not receive	92.92	92.31	89.59	3.33	2.72
Unknown	7.02	7.63	10.36	-3.34	-2.73
Received any aid excluding private loans					
Received	67.90	70.84	71.17	-3.27	-0.33
Did not receive	‡	‡	‡	‡	‡
Unknown	3.20	11.51	4.15	-0.95	7.36*
Veteran status					
Yes	7.63	7.93	6.70	0.93	1.23
No	92.37	92.07	93.30	-0.93	-1.23

See notes at end of table.

Table M-125. Graduate student-level analysis after poststratification for selected variables—private for-profit 4-year institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race/ethnicity					
American Indian or Alaska Native, not Hispanic or Latino	‡	‡	‡	‡	‡
Asian, not Hispanic or Latino	5.92	6.05	10.98	-5.06*	-4.93*
Black, not Hispanic or Latino	24.56	25.92	26.53	-1.97	-0.61
Hispanic or Latino, of any race	13.14	13.38	10.73	2.41	2.65
Native Hawaiian or Other Pacific Islander, not Hispanic or Latino	‡	‡	‡	‡	‡
White, not Hispanic or Latino	46.12	45.88	38.02	8.10*	7.86*
Two or more races, not Hispanic or Latino	‡	‡	‡	‡	‡
Unknown	2.90	5.33	1.91	0.99	3.42*
Gender					
Male	26.44	25.88	27.43	-0.99	-1.55
Female	72.92	72.58	71.78	1.14	0.80
Unknown	0.64	1.55	0.79	-0.15	0.76
Institution total graduate enrollment ⁴					
1–3,878	12.75	14.03	17.05	-4.30	-3.02
3,879–5,560	11.58	11.23	14.29	-2.71	-3.06
5,561–6,393	34.16	35.44	39.01	-4.85	-3.57
6,394 or more	41.51	39.31	29.65	11.86	9.66
Graduate field of study or major					
Humanities	‡	‡	‡	‡	‡
Social/behavioral sciences	9.92	8.27	4.23	5.69	4.04
Life sciences	‡	‡	‡	‡	‡
Math/engineering/computer science	2.91	2.20	3.59	-0.68	-1.39*
Education	20.45	19.74	23.93	-3.48	-4.19
Business/management	11.92	12.81	13.12	-1.20	-0.31
Health	40.85	43.99	44.44	-3.59	-0.45
Law	‡	‡	‡	‡	‡
Others	9.77	8.18	6.30	3.47	1.88
Not applicable	‡	‡	‡	‡	‡
Unknown	0.32	1.63	0.48	-0.16	1.15
Degree program (graduate only)					
Master's degree	69.28	71.17	68.06	1.22	3.11
Postbaccalaureate or post-master's certificate	5.52	4.44	5.88	-0.36	-1.44*
Doctor's degree—research/scholarship	11.47	9.50	10.70	0.77	-1.20
Doctor's degree—professional practice	8.23	8.11	9.63	-1.40	-1.52
Doctor's degree—other	4.99	4.02	5.09	-0.10	-1.07*
Not in a degree program	‡	‡	‡	‡	‡
Unknown	0.26	2.39	0.36	-0.10	2.03
Student type					
Graduate, excluding doctor's degree—professional practice	91.77	91.89	90.37	1.40	1.52
Doctor's degree—professional practice	8.23	8.11	9.63	-1.40	-1.52

See notes at end of table.

Table M-125. Graduate student-level analysis after poststratification for selected variables—private for-profit 4-year institutions: 2019–20—Continued

Variable	Before poststratification adjustment		After poststratification adjustment		
	Respondent mean, nonresponse adjusted ¹ (1)	Full-sample mean, base weighted (2)	Respondent mean, after all weight adjustments ² (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Number of office and administrative support employees ⁵					
0–4	8.68	8.12	10.32	-1.64	-2.20
5–14	3.12	3.96	4.19	-1.07	-0.23
15–35	42.45	41.84	34.87	7.58	6.97
36 or more	44.34	44.99	48.96	-4.62	-3.97
Unknown	‡	‡	‡	‡	‡
Total income from CPS:20 ⁶					
–\$8,164–\$20,298	12.09	13.01	15.99	-3.90*	-2.98
\$20,299–\$48,219	17.74	17.28	16.64	1.10	0.64
\$48,220–\$88,202	12.54	14.51	14.02	-1.48	0.49
\$88,203 or more	13.01	13.28	11.63	1.38	1.65
Unknown	‡	‡	‡	‡	‡
Not matched	44.51	41.83	41.61	2.90	0.22
Parents' highest education from CPS:20					
Middle school/junior high	7.83	7.50	4.29	3.54*	3.21*
High school	15.14	16.57	18.76	-3.62	-2.19
College or beyond	28.75	30.64	29.62	-0.87	1.02
Other/unknown	3.34	2.97	5.30	-1.96*	-2.33*
Missing	‡	‡	‡	‡	‡
Not matched in CPS:20	44.51	41.83	41.61	2.90	0.22
Has dependents from CPS:20					
Yes	33.19	34.54	30.36	2.83	4.18
No	22.30	23.63	28.03	-5.73	-4.40
Not matched in CPS:20	44.51	41.83	41.61	2.90	0.22
Student's marital status from CPS:20					
Single	22.72	23.95	27.45	-4.73	-3.50
Married/remarried	27.46	27.91	23.88	3.58	4.03
Separated	1.77	1.90	2.74	-0.97	-0.84
Divorced/widowed	3.55	4.42	4.31	-0.76	0.11
Not matched in CPS:20	44.51	41.83	41.61	2.90	0.22

‡ Reporting standards not met (fewer than thirty nonrespondents).

* $p < 0.05$.¹ Mean is calculated using the student base weight, adjusted for nonresponse.² Mean is calculated using the student base weight, adjusted for nonresponse and poststratification.

³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, the District of Columbia, Maryland, New Jersey, New York, Pennsylvania; Great Lakes = Illinois, Indiana, Michigan, Ohio, Wisconsin; Plains = Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota; Southeast = Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, West Virginia; Southwest = Arizona, New Mexico, Oklahoma, Texas; Rocky Mountains = Colorado, Idaho, Montana, Utah, Wyoming; Far West = Alaska, California, Hawaii, Nevada, Oregon, Washington; Outlying Areas = Puerto Rico.

⁴ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

⁵ Categories were defined by quartiles at the institution level. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations.

⁶ Categories were defined by quartiles. Fewer than four categories will display in cases where the variable's values cause quartiles to overlap. Categories of "None" or "Unknown" were excluded from quartile calculations. As part of the expected family contribution (EFC) formula, some calculations include allowances against income or asset amounts that can result in negative numbers.

NOTE: CPS = Central Processing System. "Student base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20

		Public					Private nonprofit			Private for-profit		
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting						
Variable	All students	Less-than-2-year	2-year				Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
AIDAPP (Applied for any aid)												
Before imputation												
Mean percent relative bias across characteristics	13.17	13.38	17.72	15.61	11.17	10.49	31.44	14.79	11.40	33.70	35.63	16.48
Median percent relative bias across characteristics	10.57	9.64	15.01	12.63	8.53	6.17	22.14	8.01	6.29	29.91	23.69	10.61
Percentage of characteristics with significant bias	65.83	22.86	62.86	39.60	20.00	48.15	9.64	16.83	36.27	32.26	20.62	4.81
Median effect size	0.15	0.16	0.12	0.18	0.09	0.07	0.30	0.10	0.11	0.24	0.36	0.14
After imputation												
Difference between pre- and postimputation means	2.44*	1.24	4.19*	3.23	4.22*	2.43*	4.66	2.56	1.73*	2.60	2.91	0.89
Effect size for difference	0.04	‡	0.05	0.04	0.07	0.04	0.06	0.05	0.03	0.06	0.06	0.02
AIDAPP2 (Applied for any aid [including nonfederal])												
Before imputation												
Mean percent relative bias across characteristics	13.17	13.38	17.72	15.61	11.17	10.49	31.44	14.79	11.40	33.70	35.63	16.48
Median percent relative bias across characteristics	10.57	9.64	15.01	12.63	8.53	6.17	22.14	8.01	6.29	29.91	23.69	10.61
Percentage of characteristics with significant bias	65.83	22.86	62.86	39.60	20.00	48.15	9.64	16.83	36.27	32.26	20.62	4.81
Median effect size	0.15	0.16	0.12	0.18	0.09	0.07	0.30	0.10	0.11	0.24	0.36	0.14
After imputation												
Difference between pre- and postimputation means	4.00*	‡	4.18*	3.96	7.81*	3.93*	4.55	4.32*	4.64*	4.15	2.94	6.95*
Effect size for difference	0.05	‡	0.05	0.05	0.10	0.05	0.06	0.08	0.05	0.07	0.06	0.11

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
AIDCST (Ratio of total aid to student budget)												
Before imputation												
Mean percent relative bias across characteristics	15.41	16.43	20.36	18.09	11.84	12.66	33.03	15.33	12.48	35.19	41.21	17.00
Median percent relative bias across characteristics	12.06	13.87	17.94	15.74	9.28	6.98	24.05	8.76	6.74	29.02	27.69	9.41
Percentage of characteristics with significant bias	74.17	24.64	64.76	46.53	21.15	49.53	9.76	15.84	38.24	28.26	17.53	5.77
Median effect size	0.17	0.19	0.14	0.22	0.10	0.09	0.32	0.11	0.12	0.26	0.41	0.13
After imputation												
Difference between pre- and postimputation means	0.91	6.27	3.50*	5.05	5.14*	2.14*	7.25	5.05	1.79	5.33	0.40	0.28
Effect size for difference	0.01	0.05	0.03	0.04	0.06	0.03	0.13	0.08	0.02	0.07	0.01	#
AIDCST3 (Ratio of aid [excluding Parent PLUS Loans] to student budget)												
Before imputation												
Mean percent relative bias across characteristics	15.39	18.24	20.59	18.15	11.82	12.67	33.23	15.12	12.44	35.50	41.17	16.48
Median percent relative bias across characteristics	11.99	14.61	17.11	15.20	8.92	7.11	23.48	8.50	7.22	29.25	26.80	9.83
Percentage of characteristics with significant bias	74.17	25.71	65.71	47.52	23.08	49.53	14.63	15.84	38.24	31.52	15.46	5.77
Median effect size	0.17	0.19	0.14	0.22	0.10	0.09	0.34	0.11	0.11	0.26	0.41	0.13
After imputation												
Difference between pre- and postimputation means	0.55	6.61	3.13	5.24	5.24*	1.76	6.73	5.99	1.09	4.84	1.06	4.46
Effect size for difference	0.01	0.05	0.02	0.04	0.06	0.02	0.11	0.09	0.01	0.06	0.01	0.06

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
		Less- than- 2-year	2-year	4-year, non- doctorate- granting, primarily subbacca- laureate	4-year, non- doctorate- granting, primarily bacca- laureate	4-year, doctorate- granting	Less- than- 4-year	4-year, non- doctorate- granting	4-year, doctorate- granting	Less- than- 2-year	2-year	4-year
Variable	All students											
AIDSNEED (Aid amount exceeding federal need)												
Before imputation												
Mean percent relative bias across characteristics	27.39	38.51	39.62	36.77	25.62	25.96	41.75	23.29	24.56	46.51	50.25	28.58
Median percent relative bias across characteristics	22.07	31.11	28.30	29.98	19.65	15.73	33.78	17.67	19.27	44.25	39.34	22.97
Percentage of characteristics with significant bias	74.17	47.14	68.57	52.00	45.19	57.55	15.19	44.00	48.04	46.15	28.42	15.38
Median effect size	0.34	0.40	0.45	0.34	0.28	0.26	0.45	0.24	0.26	0.51	0.50	0.30
After imputation												
Difference between pre- and postimputation means	5.07	17.80*	13.41	9.09	5.34	1.20	8.04	11.92	11.96*	8.88	8.05	20.46
Effect size for difference	0.01	0.05	0.03	0.02	0.02	#	0.02	0.05	0.05	0.01	0.02	0.06
AIDSRC (Aid package by source of aid)												
Before imputation												
Mean percent relative bias across characteristics	13.17	13.38	17.72	15.61	11.17	10.49	31.44	14.79	11.40	33.70	35.63	16.48
Median percent relative bias across characteristics	10.57	9.64	15.01	12.63	8.53	6.17	22.14	8.01	6.29	29.91	23.69	10.61
Percentage of characteristics with significant bias	65.83	22.86	62.86	39.60	20.00	48.15	9.64	16.83	36.27	32.26	20.62	4.81
Median effect size	0.15	0.16	0.12	0.18	0.09	0.07	0.30	0.10	0.11	0.24	0.36	0.14
After imputation												
Difference between pre- and postimputation means	8.65*	‡	9.49*	9.19*	12.87*	7.01*	5.94	13.72*	6.20*	10.72*	10.60	13.31
Effect size for difference	0.10	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting						
Variable	All students	Less-than-2-year	2-year				Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
AIDTYPE (Aid package by type of aid)												
Before imputation												
Mean percent relative bias across characteristics	13.17	13.38	17.72	15.61	11.17	10.49	31.44	14.79	11.40	33.70	35.63	16.48
Median percent relative bias across characteristics	10.57	9.64	15.01	12.63	8.53	6.17	22.14	8.01	6.29	29.91	23.69	10.61
Percentage of characteristics with significant bias	65.83	22.86	62.86	39.60	20.00	48.15	9.64	16.83	36.27	32.26	20.62	4.81
Median effect size	0.15	0.16	0.12	0.18	0.09	0.07	0.30	0.10	0.11	0.24	0.36	0.14
After imputation												
Difference between pre- and postimputation means	4.46*	‡	6.82*	6.96*	8.30*	5.07*	25.82	8.15	5.86*	6.31*	8.33*	11.11
Effect size for difference	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
AWAREIDR (Aware of income-driven student loan repayment plans)												
Before imputation												
Mean percent relative bias across characteristics	12.92	15.22	15.45	16.86	9.35	10.89	23.71	8.94	11.71	16.19	19.23	11.13
Median percent relative bias across characteristics	10.80	13.27	12.18	15.80	5.15	6.52	21.35	4.94	8.08	11.86	12.98	7.58
Percentage of characteristics with significant bias	79.03	31.58	66.06	58.65	48.60	60.00	23.53	42.31	56.19	45.83	38.83	34.26
Median effect size	0.11	0.14	0.12	0.13	0.07	0.09	0.22	0.06	0.08	0.12	0.13	0.07
After imputation												
Difference between pre- and postimputation means	0.67*	2.84	1.06*	1.99	0.09	0.13	1.58	2.10*	0.16	3.32*	1.25	0.41
Effect size for difference	0.01	0.03	0.01	0.02	#	#	‡	0.02	#	0.04	0.01	#

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit			
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year	
AWARELFP (Aware of student loan forgiveness programs)													
Before imputation													
Mean percent relative bias across characteristics	12.90	14.33	15.48	16.97	9.31	10.81	23.65	8.91	11.73	16.23	19.13	11.17	
Median percent relative bias across characteristics	10.74	11.86	12.52	16.41	5.13	6.21	21.12	4.86	8.10	11.84	13.00	7.65	
Percentage of characteristics with significant bias	79.03	26.32	66.97	59.62	49.53	58.18	23.53	42.31	56.19	45.83	38.83	34.26	
Median effect size	0.11	0.12	0.12	0.13	0.07	0.09	0.22	0.06	0.08	0.12	0.13	0.07	
After imputation													
Difference between pre- and postimputation means	0.46	0.26	0.77	2.07*	0.10	0.02	0.23	1.18	0.10	1.30	0.35	0.85	
Effect size for difference	#	‡	0.01	0.02	#	#	#	0.01	#	0.01	#	0.01	
BANK1 (Bank accounts: had checking or savings account)													
Before imputation													
Mean percent relative bias across characteristics	13.02	14.12	15.44	16.64	9.59	11.04	23.57	9.02	11.78	16.42	19.47	11.58	
Median percent relative bias across characteristics	10.97	11.93	12.64	15.24	5.51	6.74	20.37	5.06	8.44	11.51	12.89	7.81	
Percentage of characteristics with significant bias	78.23	28.95	66.06	58.65	50.47	58.18	22.73	42.31	55.24	42.71	38.83	33.33	
Median effect size	0.11	0.12	0.12	0.13	0.07	0.09	0.21	0.05	0.08	0.13	0.13	0.07	
After imputation													
Difference between pre- and postimputation means	0.22	0.44*	0.23	0.23	0.39	0.34	0.64	0.13	0.21	2.57	0.31	0.69	
Effect size for difference	#	‡	#	#	0.01	0.01	‡	#	#	0.03	#	0.01	

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
BANK2 (Bank accounts: individual or shared)												
Before imputation												
Mean percent relative bias across characteristics	13.73	14.45	15.81	17.33	9.88	11.25	25.16	9.43	12.08	19.42	20.66	12.32
Median percent relative bias across characteristics	11.50	12.25	13.00	16.73	5.70	7.04	21.21	5.46	8.66	13.81	12.67	7.72
Percentage of characteristics with significant bias	79.84	27.63	64.22	59.62	50.47	55.45	17.05	42.31	55.24	42.71	30.10	33.33
Median effect size	0.12	0.13	0.11	0.14	0.08	0.08	0.23	0.06	0.09	0.12	0.14	0.09
After imputation												
Difference between pre- and postimputation means	0.02	0.94	0.27	0.86	1.50	0.05	0.94	0.35	0.15	0.42	3.50	0.69
Effect size for difference	#	0.01	#	0.01	0.02	#	0.01	#	#	0.01	0.04	0.01
BINCOME (Total income [categorical])												
Before imputation												
Mean percent relative bias across characteristics	21.59	35.87	26.76	26.81	18.90	21.40	27.64	20.63	24.24	21.59	27.40	21.16
Median percent relative bias across characteristics	15.07	30.49	17.78	20.25	12.55	10.49	26.68	14.70	15.69	17.66	25.43	18.44
Percentage of characteristics with significant bias	79.03	42.67	77.06	66.35	66.67	66.36	34.52	68.27	69.23	50.00	42.72	45.87
Median effect size	0.22	0.37	0.22	0.24	0.19	0.14	0.28	0.19	0.21	0.19	0.27	0.15
After imputation												
Difference between pre- and postimputation means	10.26*	‡	12.84*	13.35*	7.55*	10.11*	‡	9.37*	12.55*	1.98	1.97*	13.12*
Effect size for difference	0.35	‡	0.46	‡	‡	0.34	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
BORAMT1 (Cumulative amount borrowed for undergrad)												
Before imputation												
Mean percent relative bias across characteristics	12.72	13.86	14.39	16.98	10.03	11.29	23.40	10.89	12.30	27.07	24.57	14.86
Median percent relative bias across characteristics	9.11	10.58	11.47	16.40	5.34	5.92	19.49	6.05	6.75	23.34	14.26	9.55
Percentage of characteristics with significant bias	75.00	18.18	59.63	54.29	34.26	54.55	20.69	27.88	45.79	39.18	22.33	24.77
Median effect size	0.10	0.12	0.14	0.13	0.06	0.08	0.21	0.07	0.07	0.20	0.21	0.11
After imputation												
Difference between pre- and postimputation means	6.72*	1.67	5.80*	4.45*	8.79*	4.17*	6.73*	9.32*	7.53*	4.70	7.93	7.96
Effect size for difference	0.04	0.01	0.03	0.02	0.06	0.03	0.08	0.08	0.06	0.06	0.09	0.09
BUDGETAJ (Student budget [attendance adjusted])												
Before imputation												
Mean percent relative bias across characteristics	14.58	19.64	18.01	18.00	11.25	12.51	26.78	10.30	11.86	19.26	21.95	13.13
Median percent relative bias across characteristics	11.97	14.73	14.85	15.40	6.76	7.44	19.22	5.84	7.83	15.53	12.75	9.31
Percentage of characteristics with significant bias	79.03	27.03	65.14	55.77	54.21	64.55	16.87	36.54	53.33	45.26	19.42	24.07
Median effect size	0.12	0.18	0.18	0.16	0.07	0.10	0.23	0.08	0.09	0.17	0.16	0.10
After imputation												
Difference between pre- and postimputation means	2.10*	3.99	1.60*	0.88	1.77*	0.77*	2.02	2.31	0.83	0.14	3.60*	2.75
Effect size for difference	0.03	0.06	0.03	0.01	0.04	0.02	0.04	0.04	0.02	#	0.08	0.04

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
BUDNONAJ (Nontuition expense budget [attendance adjusted])												
Before imputation												
Mean percent relative bias across characteristics	14.58	19.64	18.01	18.00	11.25	12.51	26.78	10.30	11.86	19.26	21.95	13.13
Median percent relative bias across characteristics	11.97	14.73	14.85	15.40	6.76	7.44	19.22	5.84	7.83	15.53	12.75	9.31
Percentage of characteristics with significant bias	79.03	27.03	65.14	55.77	54.21	64.55	16.87	36.54	53.33	45.26	19.42	24.07
Median effect size	0.12	0.18	0.18	0.16	0.07	0.10	0.23	0.08	0.09	0.17	0.16	0.10
After imputation												
Difference between pre- and postimputation means	1.01*	0.89	1.22*	1.68*	1.23*	0.42	0.87	2.11	0.68	1.10	0.31	2.03
Effect size for difference	0.02	0.01	0.02	0.02	0.02	0.01	0.01	0.03	0.01	0.01	#	0.03
CAGI (Adjusted gross income [AGI])												
Before imputation												
Mean percent relative bias across characteristics	25.39	41.03	31.27	31.38	21.73	25.06	34.70	23.30	28.60	30.73	41.94	24.99
Median percent relative bias across characteristics	17.46	35.02	18.76	22.86	13.32	11.62	30.38	15.63	17.71	23.54	35.35	20.18
Percentage of characteristics with significant bias	80.65	43.42	73.39	63.46	66.67	65.45	32.94	63.46	71.43	59.38	43.69	40.37
Median effect size	0.23	0.44	0.27	0.26	0.21	0.18	0.35	0.20	0.22	0.23	0.33	0.18
After imputation												
Difference between pre- and postimputation means	10.27	7.19	12.36*	15.20*	8.79*	10.67*	3.48	7.62*	10.49*	6.58*	6.71	10.63*
Effect size for difference	0.08	0.07	0.10	0.12	0.08	0.08	0.03	0.05	0.08	0.05	0.04	0.10

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
		Less- than- 2-year	2-year	4-year, non- doctorate- granting, primarily subbacca- laureate	4-year, non- doctorate- granting, primarily bacca- laureate	4-year, doctorate- granting	Less- than- 4-year	4-year, non- doctorate- granting	4-year, doctorate- granting	Less- than- 2-year	2-year	4-year
Variable	All students											
CAMPAMT (Federal campus-based aid [SEOG, FWS])												
Before imputation												
Mean percent relative bias across characteristics	11.46	‡	5.12	3.41	6.34	3.37	13.41	5.33	3.18	12.66	13.82	7.45
Median percent relative bias across characteristics	8.64	‡	3.12	1.64	4.37	1.51	5.17	3.50	1.58	8.44	9.56	5.54
Percentage of characteristics with significant bias	67.74	‡	50.00	32.39	35.96	46.15	5.56	27.71	33.73	30.56	35.29	13.75
Median effect size	0.09	‡	0.03	0.03	0.06	0.03	0.09	0.05	0.03	0.13	0.13	0.07
After imputation												
Difference between pre- and postimputation means	0.85	‡	7.76*	9.34*	6.19	4.51	10.23	4.57*	2.94*	23.92	0.94	3.67
Effect size for difference	#	‡	0.01	0.01	0.02	0.01	0.03	0.02	0.01	0.08	#	0.01
CINCOME (Total income [continuous])												
Before imputation												
Mean percent relative bias across characteristics	21.59	35.87	26.76	26.81	18.90	21.40	27.64	20.63	24.24	21.59	27.40	21.16
Median percent relative bias across characteristics	15.07	30.49	17.78	20.25	12.55	10.49	26.68	14.70	15.69	17.66	25.43	18.44
Percentage of characteristics with significant bias	79.03	42.67	77.06	66.35	66.67	66.36	34.52	68.27	69.23	50.00	42.72	45.87
Median effect size	0.22	0.37	0.22	0.24	0.19	0.14	0.28	0.19	0.21	0.19	0.27	0.15
After imputation												
Difference between pre- and postimputation means	12.18*	11.71	14.66*	17.13*	9.70*	12.07*	3.04	8.50*	11.17*	9.00*	6.10	15.25*
Effect size for difference	0.08	0.10	0.10	0.12	0.08	0.08	0.02	0.05	0.08	0.06	0.04	0.11

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit			
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting			
Variable	All students	Less-than-2-year	2-year				Less-than-4-year				Less-than-2-year	2-year	4-year
COVCOMMCWRK (COVID-19 pandemic: Helpful communication from NPSAS: Access to coursework)													
Before imputation													
Mean percent relative bias across characteristics	15.43	21.24	16.95	17.23	10.72	12.06	26.87	10.86	13.49		25.23	25.92	14.52
Median percent relative bias across characteristics	12.84	19.11	14.14	12.90	6.56	6.66	21.60	7.67	9.85		15.83	18.69	8.81
Percentage of characteristics with significant bias	83.06	33.33	63.30	54.29	50.93	55.45	19.10	54.29	58.49		48.96	38.83	35.19
Median effect size	0.15	0.21	0.15	0.14	0.09	0.11	0.23	0.08	0.10		0.21	0.22	0.10
After imputation													
Difference between pre- and postimputation means	0.73*	1.21	1.02*	0.98	0.31	0.74*	5.75	0.72	0.63		6.04*	3.13	1.69*
Effect size for difference	0.01	‡	0.01	0.01	#	0.02	0.06	0.01	0.01		0.06	0.03	0.02
COVCOMMEMP (COVID-19 pandemic: Helpful communication from NPSAS: Employment at institution)													
Before imputation													
Mean percent relative bias across characteristics	15.42	21.20	16.82	17.28	10.46	12.07	26.80	10.79	13.57		25.31	25.90	14.64
Median percent relative bias across characteristics	12.57	19.17	14.12	12.56	6.11	6.87	22.16	7.47	9.79		17.05	18.71	8.86
Percentage of characteristics with significant bias	83.06	33.33	60.55	53.33	49.53	55.45	19.10	53.33	59.43		48.96	38.83	34.26
Median effect size	0.15	0.21	0.15	0.14	0.09	0.11	0.24	0.08	0.10		0.20	0.22	0.09
After imputation													
Difference between pre- and postimputation means	0.29	0.94	2.67*	1.60*	0.73	0.99*	2.91	2.15*	1.66*		3.00	0.89	0.86
Effect size for difference	#	‡	0.03	0.02	0.01	0.01	‡	0.03	0.02		0.03	0.01	0.01

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit			
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting			
Variable	All students	Less-than-2-year	2-year				Less-than-4-year				Less-than-2-year	2-year	4-year
COVCOMMFAID (COVID-19 pandemic: Helpful communication from NPSAS: Financial aid)													
Before imputation													
Mean percent relative bias across characteristics	15.43	21.20	16.93	17.31	10.53	12.13	26.82	10.78	13.46		25.33	25.85	14.36
Median percent relative bias across characteristics	12.76	19.21	14.22	12.96	6.21	6.71	22.12	7.46	9.64		16.68	18.70	9.02
Percentage of characteristics with significant bias	83.06	33.33	63.30	54.29	50.47	55.45	19.10	52.38	59.43		50.00	38.83	35.19
Median effect size	0.15	0.21	0.15	0.14	0.09	0.11	0.24	0.08	0.10		0.20	0.22	0.09
After imputation													
Difference between pre- and postimputation means	0.09	1.07	1.41*	2.15*	0.92	0.91*	4.93	2.07*	0.57		0.63	3.55	1.24
Effect size for difference	#	0.01	0.02	0.03	0.01	0.01	0.05	0.02	0.01		0.01	0.04	0.01
COVCOMMHOUS (COVID-19 pandemic: Helpful communication from NPSAS: Housing [on campus or college owned])													
Before imputation													
Mean percent relative bias across characteristics	38.79	68.34	38.41	52.06	26.51	24.60	65.02	26.56	26.77		39.35	35.39	49.08
Median percent relative bias across characteristics	36.53	61.49	27.26	36.67	21.22	19.40	48.10	21.38	19.24		29.47	24.50	40.28
Percentage of characteristics with significant bias	87.90	41.10	72.48	55.77	60.75	59.09	20.69	63.46	66.35		26.04	26.21	26.17
Median effect size	0.42	0.61	0.34	0.46	0.25	0.21	0.53	0.23	0.21		0.36	0.26	0.50
After imputation													
Difference between pre- and postimputation means	8.14*	19.31	6.41*	2.32	7.05*	4.88*	‡	3.35*	4.91*		10.42*	5.74*	11.25*
Effect size for difference	0.09	‡	0.08	0.03	0.08	0.06	‡	0.04	0.07		0.13	0.06	0.13

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit			
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting			
Variable	All students	Less-than-2-year	2-year				Less-than-4-year				Less-than-2-year	2-year	4-year
COVCOMMPROG (COVID-19 pandemic: Helpful communication from NPSAS: Degree program progress)													
Before imputation													
Mean percent relative bias across characteristics	15.43	21.20	16.94	17.27	10.55	12.06	27.07	10.81	13.53		25.29	26.03	14.53
Median percent relative bias across characteristics	12.51	19.17	14.14	12.87	6.15	6.77	22.41	7.43	9.84		16.89	18.81	8.77
Percentage of characteristics with significant bias	83.06	33.33	61.47	53.33	49.53	55.45	19.10	52.38	58.49		48.96	38.83	35.19
Median effect size	0.15	0.21	0.15	0.14	0.09	0.11	0.24	0.08	0.10		0.20	0.22	0.10
After imputation													
Difference between pre- and postimputation means	0.29	3.86	0.17	1.93*	1.16	0.92*	2.20	0.66	0.45		7.17*	1.76	2.24
Effect size for difference	0.01	‡	#	0.03	0.01	0.01	‡	0.01	#		0.07	0.03	0.02
COVENRDIS (COVID-19 pandemic: Enrollment disruptions/changes)													
Before imputation													
Mean percent relative bias across characteristics	15.50	21.54	17.07	17.38	10.60	12.22	26.77	10.70	13.79		25.22	25.99	15.19
Median percent relative bias across characteristics	12.76	19.42	14.34	13.25	6.62	7.18	21.56	7.63	9.54		17.36	18.85	10.09
Percentage of characteristics with significant bias	83.87	34.67	61.47	55.24	50.47	57.27	19.10	51.43	60.38		47.92	38.83	33.94
Median effect size	0.15	0.20	0.15	0.14	0.09	0.11	0.24	0.08	0.10		0.20	0.22	0.10
After imputation													
Difference between pre- and postimputation means	0.43	1.32	0.77	0.83	0.09	0.67*	1.98	0.09	1.73*		3.38*	1.12	2.30
Effect size for difference	0.01	‡	0.01	0.01	#	0.01	‡	#	0.03		0.05	0.02	0.02

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit			
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting			
Variable	All students	Less-than-2-year	2-year				Less-than-4-year				Less-than-2-year	2-year	4-year
COVEXPABS (COVID-19 pandemic: Took leave of absence from NPSAS)													
Before imputation													
Mean percent relative bias across characteristics	15.50	21.54	17.07	17.38	10.60	12.22	26.77	10.70	13.79	25.22	25.99	15.19	
Median percent relative bias across characteristics	12.76	19.42	14.34	13.25	6.62	7.18	21.56	7.63	9.54	17.36	18.85	10.09	
Percentage of characteristics with significant bias	83.87	34.67	61.47	55.24	50.47	57.27	19.10	51.43	60.38	47.92	38.83	33.94	
Median effect size	0.15	0.20	0.15	0.14	0.09	0.11	0.24	0.08	0.10	0.20	0.22	0.10	
After imputation													
Difference between pre- and postimputation means	0.35*	1.51	0.22	0.35	0.23	0.45*	0.92	0.09	0.10	4.48*	0.82	0.76	
Effect size for difference	0.01	‡	0.01	‡	‡	0.02	‡	#	‡	0.06	0.01	0.01	
COVEXPBRK (COVID-19 pandemic: School break extended)													
Before imputation													
Mean percent relative bias across characteristics	15.50	21.54	17.07	17.38	10.60	12.22	26.77	10.70	13.79	25.22	25.99	15.19	
Median percent relative bias across characteristics	12.76	19.42	14.34	13.25	6.62	7.18	21.56	7.63	9.54	17.36	18.85	10.09	
Percentage of characteristics with significant bias	83.87	34.67	61.47	55.24	50.47	57.27	19.10	51.43	60.38	47.92	38.83	33.94	
Median effect size	0.15	0.20	0.15	0.14	0.09	0.11	0.24	0.08	0.10	0.20	0.22	0.10	
After imputation													
Difference between pre- and postimputation means	1.22*	7.31	1.07	2.21	2.35*	1.99*	9.43*	2.09*	2.19*	5.79*	2.28	4.91*	
Effect size for difference	0.01	0.08	0.01	0.02	0.02	0.02	0.13	0.02	0.02	0.08	0.03	0.08	

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non- doctorate- granting, primarily subbacca- laureate	4-year, non- doctorate- granting, primarily bacca- laureate	4-year, doctorate- granting						
Variable	All students	Less- than- 2-year	2-year				Less- than- 4-year	4-year, non- doctorate- granting	4-year, doctorate- granting	Less- than- 2-year	2-year	4-year
COVEXPCAN (COVID-19 pandemic: Some or all classes canceled)												
Before imputation												
Mean percent relative bias across characteristics	15.50	21.54	17.07	17.38	10.60	12.22	26.77	10.70	13.79	25.22	25.99	15.19
Median percent relative bias across characteristics	12.76	19.42	14.34	13.25	6.62	7.18	21.56	7.63	9.54	17.36	18.85	10.09
Percentage of characteristics with significant bias	83.87	34.67	61.47	55.24	50.47	57.27	19.10	51.43	60.38	47.92	38.83	33.94
Median effect size	0.15	0.20	0.15	0.14	0.09	0.11	0.24	0.08	0.10	0.20	0.22	0.10
After imputation												
Difference between pre- and postimputation means	0.30	2.41	0.67*	0.62	0.30	0.29	1.48*	0.93*	0.05	1.94	0.99	2.51*
Effect size for difference	#	0.03	0.01	0.01	0.01	0.01	‡	0.02	#	0.02	0.01	0.05
COVEXPCC (COVID-19 pandemic: Had difficulty finding safe and stable child care)												
Before imputation												
Mean percent relative bias across characteristics	51.65	41.76	50.67	47.54	52.67	77.88	55.79	54.57	70.90	33.55	50.86	28.87
Median percent relative bias across characteristics	39.64	32.68	35.16	33.89	33.06	37.54	47.87	40.17	52.07	23.08	37.78	21.45
Percentage of characteristics with significant bias	68.29	24.29	60.19	39.60	46.08	57.14	15.19	58.16	49.00	39.36	40.40	36.19
Median effect size	0.43	0.37	0.52	0.50	0.34	0.48	0.40	0.40	0.52	0.24	0.41	0.27
After imputation												
Difference between pre- and postimputation means	2.57*	‡	4.05*	6.40	2.51	0.24	‡	‡	6.89	0.51	1.58	4.44
Effect size for difference	0.03	‡	0.04	‡	‡	#	‡	‡	‡	0.01	0.02	0.05

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting		
Variable	All students	Less-than-2-year	2-year				Less-than-4-year	doctorate-granting	doctorate-granting	Less-than-2-year	2-year	4-year
COVEXPFIN (COVID-19 pandemic: Received emergency financial assistance from NPSAS)												
Before imputation												
Mean percent relative bias across characteristics	15.50	21.54	17.07	17.38	10.60	12.22	26.77	10.70	13.79	25.22	25.99	15.19
Median percent relative bias across characteristics	12.76	19.42	14.34	13.25	6.62	7.18	21.56	7.63	9.54	17.36	18.85	10.09
Percentage of characteristics with significant bias	83.87	34.67	61.47	55.24	50.47	57.27	19.10	51.43	60.38	47.92	38.83	33.94
Median effect size	0.15	0.20	0.15	0.14	0.09	0.11	0.24	0.08	0.10	0.20	0.22	0.10
After imputation												
Difference between pre- and postimputation means	0.30	0.47	1.62*	0.76	0.91	1.04*	0.04	0.82	1.00*	1.01	1.17	1.74
Effect size for difference	#	‡	0.02	0.01	0.01	0.01	‡	0.01	0.01	0.01	0.02	0.02
COVEXPONL (COVID-19 pandemic: Some or all classes moved to online only)												
Before imputation												
Mean percent relative bias across characteristics	15.71	21.54	17.07	17.38	11.16	12.22	26.77	14.21	13.79	25.22	25.99	22.76
Median percent relative bias across characteristics	13.46	19.42	14.34	13.25	7.16	7.18	21.56	10.68	9.54	17.36	18.85	17.97
Percentage of characteristics with significant bias	81.45	34.67	61.47	55.24	52.34	57.27	19.10	52.88	60.38	47.92	38.83	31.48
Median effect size	0.15	0.20	0.15	0.14	0.09	0.11	0.24	0.12	0.10	0.20	0.22	0.20
After imputation												
Difference between pre- and postimputation means	0.91*	0.95	0.72	0.37	0.01	1.25*	3.24	0.59	2.49*	2.65	1.27	1.85
Effect size for difference	0.01	‡	0.01	0.01	#	0.02	‡	0.01	0.04	0.03	0.02	0.02

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit			
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year	
COVEXPPAD (COVID-19 pandemic: Moved back to permanent address)													
Before imputation													
Mean percent relative bias across characteristics	15.50	21.54	17.07	17.38	10.60	12.22	26.77	10.70	13.79	25.22	25.99	15.19	
Median percent relative bias across characteristics	12.76	19.42	14.34	13.25	6.62	7.18	21.56	7.63	9.54	17.36	18.85	10.09	
Percentage of characteristics with significant bias	83.87	34.67	61.47	55.24	50.47	57.27	19.10	51.43	60.38	47.92	38.83	33.94	
Median effect size	0.15	0.20	0.15	0.14	0.09	0.11	0.24	0.08	0.10	0.20	0.22	0.10	
After imputation													
Difference between pre- and postimputation means	1.10*	0.39	7.10*	6.43*	1.74*	2.22*	3.04*	5.44*	5.22*	3.67*	4.23*	1.21	
Effect size for difference	0.01	‡	0.12	0.10	0.02	0.02	‡	0.05	0.05	0.08	0.08	0.02	
COVEXPSAP (COVID-19 pandemic: Study-abroad program canceled or modified)													
Before imputation													
Mean percent relative bias across characteristics	15.50	21.54	17.07	17.38	10.60	12.22	26.77	10.70	13.79	25.22	25.99	15.19	
Median percent relative bias across characteristics	12.76	19.42	14.34	13.25	6.62	7.18	21.56	7.63	9.54	17.36	18.85	10.09	
Percentage of characteristics with significant bias	83.87	34.67	61.47	55.24	50.47	57.27	19.10	51.43	60.38	47.92	38.83	33.94	
Median effect size	0.15	0.20	0.15	0.14	0.09	0.11	0.24	0.08	0.10	0.20	0.22	0.10	
After imputation													
Difference between pre- and postimputation means	0.05	0.34	0.81*	0.01	0.14	0.18	0.21	0.37	0.65*	0.09	0.07	0.31	
Effect size for difference	#	‡	0.03	‡	#	#	‡	0.01	0.01	‡	‡	‡	

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting		
Variable	All students	Less-than-2-year	2-year				Less-than-4-year			Less-than-2-year	2-year	4-year
COVEXPWIT (COVID-19 pandemic: Withdrew from NPSAS)												
Before imputation												
Mean percent relative bias across characteristics	15.50	21.54	17.07	17.38	10.60	12.22	26.77	10.70	13.79	25.22	25.99	15.19
Median percent relative bias across characteristics	12.76	19.42	14.34	13.25	6.62	7.18	21.56	7.63	9.54	17.36	18.85	10.09
Percentage of characteristics with significant bias	83.87	34.67	61.47	55.24	50.47	57.27	19.10	51.43	60.38	47.92	38.83	33.94
Median effect size	0.15	0.20	0.15	0.14	0.09	0.11	0.24	0.08	0.10	0.20	0.22	0.10
After imputation												
Difference between pre- and postimputation means	0.18	0.01	0.06	0.09	0.04	0.19	0.11	0.36	0.08	0.80	0.71	1.88*
Effect size for difference	#	‡	#	#	‡	0.01	‡	0.01	#	0.02	0.01	0.04
COVFINDIS (COVID-19 pandemic: Financial disruptions/changes)												
Before imputation												
Mean percent relative bias across characteristics	15.50	21.54	17.07	17.38	10.60	12.22	26.77	10.70	13.79	25.22	25.99	15.19
Median percent relative bias across characteristics	12.76	19.42	14.34	13.25	6.62	7.18	21.56	7.63	9.54	17.36	18.85	10.09
Percentage of characteristics with significant bias	83.87	34.67	61.47	55.24	50.47	57.27	19.10	51.43	60.38	47.92	38.83	33.94
Median effect size	0.15	0.20	0.15	0.14	0.09	0.11	0.24	0.08	0.10	0.20	0.22	0.10
After imputation												
Difference between pre- and postimputation means	1.88*	2.46	4.33*	3.38*	1.06	0.14	3.73	0.38	1.18	2.69	3.09	5.66*
Effect size for difference	0.02	0.03	0.04	0.03	0.01	#	0.04	#	0.01	0.03	0.03	0.06

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non- doctorate- granting, primarily subbacca- laureate	4-year, non- doctorate- granting, primarily bacca- laureate	4-year, doctorate- granting						
Variable	All students	Less- than- 2-year	2-year				Less- than- 4-year	4-year, non- doctorate- granting	4-year, doctorate- granting	Less- than- 2-year	2-year	4-year
COVHOUDIS (COVID-19 pandemic: Housing disruptions/changes)												
Before imputation												
Mean percent relative bias across characteristics	15.50	21.54	17.07	17.38	10.60	12.22	26.77	10.70	13.79	25.22	25.99	15.19
Median percent relative bias across characteristics	12.76	19.42	14.34	13.25	6.62	7.18	21.56	7.63	9.54	17.36	18.85	10.09
Percentage of characteristics with significant bias	83.87	34.67	61.47	55.24	50.47	57.27	19.10	51.43	60.38	47.92	38.83	33.94
Median effect size	0.15	0.20	0.15	0.14	0.09	0.11	0.24	0.08	0.10	0.20	0.22	0.10
After imputation												
Difference between pre- and postimputation means	0.24	0.62	7.69*	6.33*	0.68	1.35*	3.20*	4.79*	4.80*	5.53*	4.70*	2.08
Effect size for difference	#	‡	0.11	0.08	0.01	0.01	‡	0.05	0.05	0.08	0.07	0.03
COVIDAID (COVID-19 pandemic: Emergency aid received [institution reported])												
Before imputation												
Mean percent relative bias across characteristics	18.53	19.47	24.74	20.75	13.68	14.47	36.33	18.02	14.34	39.36	42.02	17.21
Median percent relative bias across characteristics	13.16	14.51	19.21	16.62	8.14	7.37	30.49	9.86	9.14	34.83	31.49	13.13
Percentage of characteristics with significant bias	75.81	31.43	65.14	56.86	43.93	53.21	15.85	26.92	47.12	46.81	34.34	31.73
Median effect size	0.18	0.21	0.21	0.17	0.09	0.10	0.38	0.13	0.11	0.40	0.41	0.16
After imputation												
Difference between pre- and postimputation means	0.71*	0.22	0.78	0.94	1.05	#	0.14	0.53	0.44	1.67	0.32	0.14
Effect size for difference	0.01	‡	0.01	0.01	0.01	#	#	0.01	0.01	0.03	#	#

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit			
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year	
COVIDAIDAMT (COVID-19 pandemic: Emergency aid amount [institution reported])													
Before imputation													
Mean percent relative bias across characteristics	17.25	19.47	23.44	20.75	13.08	13.67	36.33	16.41	14.34	39.36	42.02	17.21	
Median percent relative bias across characteristics	13.11	14.51	19.41	16.62	8.40	7.28	30.49	9.83	9.13	34.83	31.49	13.13	
Percentage of characteristics with significant bias	75.41	31.43	65.42	56.86	42.45	52.78	15.85	25.49	47.12	46.81	34.34	31.73	
Median effect size	0.18	0.21	0.21	0.17	0.09	0.10	0.38	0.13	0.11	0.40	0.41	0.16	
After imputation													
Difference between pre- and postimputation means	1.80	4.40	1.41	3.53	7.61	0.50	0.67	3.21	0.17	2.83	6.46	0.19	
Effect size for difference	0.01	0.01	#	0.01	0.03	#	#	0.01	#	0.01	0.03	#	
COVINFOALTLV (COVID-19 pandemic: Information provided from NPSAS: Find alternative living arrangements)													
Before imputation													
Mean percent relative bias across characteristics	15.44	21.35	16.86	17.27	10.49	12.05	26.76	10.79	13.54	25.18	26.05	14.60	
Median percent relative bias across characteristics	12.53	20.25	14.00	12.61	6.20	6.71	22.12	7.50	9.93	17.22	18.81	8.76	
Percentage of characteristics with significant bias	83.06	34.67	62.39	53.33	48.60	56.36	19.10	53.33	58.49	46.88	38.83	36.11	
Median effect size	0.15	0.22	0.15	0.14	0.09	0.11	0.24	0.08	0.10	0.20	0.22	0.10	
After imputation													
Difference between pre- and postimputation means	0.03	3.09	3.23*	1.23	0.77	0.83*	2.74	1.01	0.81	3.98	1.33	0.13	
Effect size for difference	#	‡	0.03	0.01	0.01	0.01	‡	0.01	0.01	0.04	0.01	#	

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting		4-year, doctorate-granting			
Variable	All students	Less-than-2-year	2-year				Less-than-4-year	doctorate-granting	doctorate-granting	Less-than-2-year	2-year	4-year
COVINFOEAID (COVID-19 pandemic: Information provided from NPSAS: Access emergency financial aid)												
Before imputation												
Mean percent relative bias across characteristics	15.44	21.37	16.89	17.37	10.50	12.07	26.63	10.78	13.52	25.13	25.99	14.60
Median percent relative bias across characteristics	12.59	19.35	14.01	12.54	6.56	7.00	21.81	7.45	9.94	16.20	18.72	8.97
Percentage of characteristics with significant bias	82.26	33.33	61.47	53.33	50.47	56.36	19.10	52.38	58.49	47.92	38.83	35.19
Median effect size	0.15	0.21	0.15	0.14	0.09	0.11	0.24	0.08	0.10	0.20	0.22	0.10
After imputation												
Difference between pre- and postimputation means	0.16	0.26	1.82*	1.67	0.94	0.70	1.51	0.54	0.62	3.45	0.12	0.42
Effect size for difference	#	‡	0.02	0.02	0.01	0.01	‡	0.01	0.01	0.04	#	0.01
COVINFOFAST (COVID-19 pandemic: Information provided from NPSAS: Access food assistance)												
Before imputation												
Mean percent relative bias across characteristics	15.44	21.36	16.87	17.29	10.48	12.08	26.76	10.80	13.58	25.18	25.95	14.56
Median percent relative bias across characteristics	12.56	19.31	13.98	12.65	6.34	6.82	22.12	7.51	9.92	16.99	18.78	8.99
Percentage of characteristics with significant bias	83.06	33.33	61.47	53.33	50.47	55.45	19.10	53.33	59.43	47.92	38.83	36.11
Median effect size	0.15	0.21	0.15	0.14	0.09	0.11	0.24	0.08	0.10	0.20	0.22	0.10
After imputation												
Difference between pre- and postimputation means	0.24	5.28*	2.73*	0.75	1.18	1.12*	1.21	0.32	0.47	3.29	2.41	0.66
Effect size for difference	#	‡	0.03	0.01	0.01	0.01	‡	#	0.01	0.03	0.02	0.01

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting		
Variable	All students	Less-than-2-year	2-year				Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
COVINFOHLTH (COVID-19 pandemic: Information provided from NPSAS: Obtain physical/mental health care)												
Before imputation												
Mean percent relative bias across characteristics	15.42	21.24	16.91	17.27	10.50	12.07	26.63	10.77	13.54	25.18	26.03	14.58
Median percent relative bias across characteristics	12.54	19.09	14.02	12.58	6.65	6.86	21.81	7.50	9.88	17.07	18.94	9.13
Percentage of characteristics with significant bias	83.06	33.33	61.47	53.33	50.47	56.36	19.10	53.33	58.49	48.96	37.86	35.19
Median effect size	0.15	0.21	0.15	0.14	0.09	0.11	0.24	0.08	0.10	0.21	0.22	0.10
After imputation												
Difference between pre- and postimputation means	0.17	8.35*	2.64*	0.80	0.66	0.73*	0.40	0.84	1.40*	3.49*	0.50	1.63
Effect size for difference	#	‡	0.03	0.01	0.01	0.01	‡	0.01	0.02	0.05	0.01	0.02
COVINFOMOV (COVID-19 pandemic: Information provided from NPSAS: Move out of college-owned housing)												
Before imputation												
Mean percent relative bias across characteristics	38.83	68.77	38.16	51.84	26.45	24.64	65.11	26.49	26.81	39.27	35.47	49.12
Median percent relative bias across characteristics	36.60	61.78	27.11	37.13	20.84	19.23	48.04	21.28	19.29	29.01	24.91	40.53
Percentage of characteristics with significant bias	87.90	41.10	72.48	53.85	60.75	60.00	20.69	63.46	66.35	27.08	27.18	26.17
Median effect size	0.42	0.61	0.34	0.46	0.25	0.20	0.54	0.23	0.21	0.36	0.26	0.50
After imputation												
Difference between pre- and postimputation means	8.62*	7.78	5.17*	4.50	5.06*	6.32*	2.21	4.85*	6.37*	12.39*	3.53*	3.94
Effect size for difference	0.09	‡	0.06	0.05	0.06	0.07	‡	0.05	0.07	‡	0.06	0.07

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit			
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year	
COVREFTUITION (COVID-19 pandemic: Received tuition refund from NPSAS)													
Before imputation													
Mean percent relative bias across characteristics	16.06	25.15	15.75	16.47	10.79	11.51	26.85	11.48	14.25	29.73	23.95	14.89	
Median percent relative bias across characteristics	13.47	24.38	12.73	11.57	6.94	6.43	21.79	6.92	9.47	21.69	14.64	9.43	
Percentage of characteristics with significant bias	79.03	31.65	61.47	45.71	47.71	50.45	15.73	52.38	55.14	44.33	24.27	24.77	
Median effect size	0.15	0.25	0.13	0.11	0.07	0.11	0.23	0.09	0.10	0.18	0.20	0.12	
After imputation													
Difference between pre- and postimputation means	0.64	0.53	2.50*	1.22	3.89*	1.59*	5.17	2.44*	0.54	4.77	6.09	0.49	
Effect size for difference	0.01	0.01	0.03	0.01	0.04	0.02	0.07	0.03	0.01	0.06	0.08	0.01	
COVROOMREF (COVID-19 pandemic: Received room-and-board refund from NPSAS)													
Before imputation													
Mean percent relative bias across characteristics	39.02	64.70	37.31	50.72	26.89	24.84	61.87	27.23	26.30	40.22	33.36	50.48	
Median percent relative bias across characteristics	37.37	63.19	25.14	36.39	23.84	19.50	53.42	21.84	20.01	30.17	20.77	40.88	
Percentage of characteristics with significant bias	88.71	34.25	66.06	57.69	60.19	59.09	20.00	63.46	66.35	27.08	27.18	26.61	
Median effect size	0.41	0.73	0.31	0.44	0.25	0.21	0.55	0.24	0.21	0.37	0.24	0.54	
After imputation													
Difference between pre- and postimputation means	8.88*	20.38*	11.61*	4.66	7.70*	6.18*	0.35	1.79	4.85*	7.44*	8.63*	0.87	
Effect size for difference	0.09	‡	0.16	0.06	0.08	0.06	‡	0.02	0.05	0.17	0.17	0.02	

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit			
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting			
Variable	All students	Less-than-2-year	2-year				Less-than-4-year				Less-than-2-year	2-year	4-year
COVROOMREFSR (COVID-19 pandemic: Room-and-board refund from student records)													
Before imputation													
Mean percent relative bias across characteristics	37.76	63.31	44.57	48.17	34.99	24.42	52.89	28.95	30.59	53.13	44.41	45.34	
Median percent relative bias across characteristics	36.17	63.46	29.29	32.66	29.26	17.43	41.68	17.29	24.20	45.47	33.71	34.31	
Percentage of characteristics with significant bias	81.45	42.03	66.06	56.31	53.70	53.21	27.63	50.96	56.19	38.71	31.00	27.62	
Median effect size	0.40	0.53	0.43	0.40	0.37	0.21	0.53	0.26	0.26	0.56	0.41	0.43	
After imputation													
Difference between pre- and postimputation means	4.32*	‡	0.60	4.70	11.64*	0.80	5.89	5.60*	4.21	0.15	0.10	3.48	
Effect size for difference	0.04	‡	0.01	0.07	0.12	0.01	‡	0.06	0.04	‡	‡	‡	
COVTECHSER (COVID-19 pandemic: Received technology or technical services from NPSAS)													
Before imputation													
Mean percent relative bias across characteristics	18.42	27.86	18.36	19.18	12.81	14.56	29.72	18.11	18.04	29.06	29.31	43.86	
Median percent relative bias across characteristics	15.94	26.33	15.40	14.66	8.48	8.41	24.50	13.48	13.25	21.65	20.96	41.50	
Percentage of characteristics with significant bias	79.84	33.33	65.14	53.33	53.70	59.09	17.98	59.62	57.55	45.83	37.86	33.33	
Median effect size	0.19	0.22	0.15	0.17	0.10	0.12	0.26	0.16	0.13	0.21	0.24	0.42	
After imputation													
Difference between pre- and postimputation means	0.05	6.05	0.87	0.92	0.62	0.08	6.28*	2.44*	0.48	7.69	1.21	7.08*	
Effect size for difference	#	0.06	0.01	0.01	0.01	#	0.06	0.02	#	0.08	0.01	0.07	

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit			
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting			
Variable	All students	Less-than-2-year	2-year				Less-than-4-year				Less-than-2-year	2-year	4-year
COVTUITREFSR (COVID-19 pandemic: tuition refund [institution reported])													
Before imputation													
Mean percent relative bias across characteristics	20.85	37.90	24.92	25.03	19.04	17.49	47.21	21.42	24.09		53.87	46.57	23.97
Median percent relative bias across characteristics	13.41	30.10	18.95	18.66	10.70	10.58	32.95	14.79	17.76		38.84	26.44	17.27
Percentage of characteristics with significant bias	61.29	33.80	59.63	44.66	28.44	44.25	28.57	13.33	34.58		42.27	14.00	16.98
Median effect size	0.20	0.35	0.28	0.24	0.19	0.14	0.46	0.15	0.23		0.39	0.34	0.22
After imputation													
Difference between pre- and postimputation means	6.58*	1.09	6.42*	1.02	17.78*	7.94*	1.55	3.37	7.65		2.48	4.99*	0.12
Effect size for difference	0.09	‡	0.10	0.01	0.19	0.10	0.02	0.04	0.10		0.07	0.14	#
CRBALCR (Credit cards: balance carried over each month)													
Before imputation													
Mean percent relative bias across characteristics	16.03	20.38	18.74	20.84	12.70	13.67	27.52	12.15	13.78		21.73	22.83	13.52
Median percent relative bias across characteristics	12.93	17.06	12.94	19.46	8.10	8.55	21.50	7.39	9.67		15.10	14.65	8.35
Percentage of characteristics with significant bias	81.45	32.89	69.72	60.58	49.53	53.64	23.86	27.88	52.38		44.79	26.21	31.48
Median effect size	0.12	0.16	0.13	0.15	0.09	0.11	0.23	0.08	0.10		0.16	0.16	0.10
After imputation													
Difference between pre- and postimputation means	0.73*	3.15	0.19	1.07	0.29	0.45	1.31	2.08*	4.43*		2.32	3.16	1.41
Effect size for difference	0.01	0.03	#	0.01	#	#	0.01	0.02	0.05		0.02	0.03	0.01

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit			
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting			
Variable	All students	Less-than-2-year	2-year				Less-than-4-year				Less-than-2-year	2-year	4-year
CRBALDUE (Credit cards: balance due on all credit cards)													
Before imputation													
Mean percent relative bias across characteristics	25.24	29.91	27.99	29.59	23.49	28.80	33.06	25.74	33.91		27.58	31.55	18.28
Median percent relative bias across characteristics	19.87	22.24	23.49	25.61	16.72	21.96	27.08	21.21	29.11		16.52	20.90	12.36
Percentage of characteristics with significant bias	66.13	28.95	64.22	59.62	52.34	62.39	18.60	59.22	51.46		35.42	34.95	35.19
Median effect size	0.23	0.30	0.23	0.23	0.21	0.23	0.34	0.24	0.29		0.20	0.24	0.14
After imputation													
Difference between pre- and postimputation means	1.23	8.88*	1.22	9.00*	3.79	0.13	5.99	2.39	0.39		12.55*	5.88	3.15
Effect size for difference	0.01	0.07	0.01	0.06	0.02	#	0.03	0.02	#		0.06	0.04	0.02
CRNUMCRD (Credit cards: number of credit cards in own name)													
Before imputation													
Mean percent relative bias across characteristics	13.00	14.37	15.41	16.74	9.48	11.01	23.54	9.08	11.68		16.17	19.45	11.53
Median percent relative bias across characteristics	10.94	12.62	12.33	15.96	5.34	6.30	20.07	5.02	8.38		11.05	12.85	7.76
Percentage of characteristics with significant bias	78.23	30.26	65.14	57.69	50.47	58.18	21.59	40.38	55.24		43.75	38.83	33.33
Median effect size	0.11	0.12	0.12	0.13	0.07	0.09	0.21	0.06	0.08		0.12	0.13	0.08
After imputation													
Difference between pre- and postimputation means	0.68*	1.56	1.14*	1.84*	1.95*	0.90	1.68	2.60*	1.77*		3.04	2.05	1.15
Effect size for difference	0.01	0.02	0.01	0.02	0.02	0.01	0.02	0.03	0.02		0.04	0.02	0.01

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non- doctorate- granting, primarily subbacca- laureate	4-year, non- doctorate- granting, primarily bacca- laureate	4-year, doctorate- granting						
Variable	All students	Less- than- 2-year	2-year				Less- than- 4-year	4-year, non- doctorate- granting	4-year, doctorate- granting	Less- than- 2-year	2-year	4-year
CRTUIT (Credit cards: used credit cards to pay tuition and fees in 2019–20)												
Before imputation												
Mean percent relative bias across characteristics	16.01	20.69	18.77	20.71	11.89	13.66	27.70	12.15	13.86	21.77	22.73	13.21
Median percent relative bias across characteristics	12.92	17.48	13.92	19.55	8.17	8.57	21.81	7.46	9.83	15.10	13.44	8.40
Percentage of characteristics with significant bias	80.65	32.47	68.81	60.58	50.00	53.64	23.86	27.88	52.38	45.83	26.21	30.56
Median effect size	0.12	0.16	0.13	0.15	0.09	0.11	0.23	0.08	0.10	0.16	0.16	0.09
After imputation												
Difference between pre- and postimputation means	0.55	2.44	0.42	2.46	0.65	0.60	0.51	1.82*	1.23	6.12*	3.69	1.82
Effect size for difference	0.01	‡	#	0.03	0.01	0.01	‡	0.02	0.02	0.08	0.04	0.02
CRTUIT2 (Credit cards: only source available to pay tuition and fees in 2019–20)												
Before imputation												
Mean percent relative bias across characteristics	20.54	34.21	22.65	24.60	21.28	29.48	47.15	21.61	25.62	35.00	37.83	34.55
Median percent relative bias across characteristics	13.73	27.62	15.60	19.68	16.40	20.24	35.49	15.24	18.37	19.99	24.34	22.64
Percentage of characteristics with significant bias	62.90	27.63	61.47	44.23	38.68	57.27	17.24	24.75	26.92	27.37	19.80	22.22
Median effect size	0.12	0.25	0.12	0.14	0.16	0.20	0.36	0.18	0.21	0.18	0.24	0.22
After imputation												
Difference between pre- and postimputation means	0.27	‡	0.16	2.43	1.33	0.22	‡	4.96	1.98	2.24	0.98	1.86
Effect size for difference	#	‡	#	0.03	0.01	#	‡	0.05	0.02	‡	‡	0.02

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting		
Variable	All students	Less-than-2-year	2-year				Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
CSTBKSDG (Cost of digital textbooks [student reported])												
Before imputation												
Mean percent relative bias across characteristics	13.04	16.17	15.14	16.78	9.48	11.08	23.01	9.11	11.72	18.33	18.74	11.93
Median percent relative bias across characteristics	10.94	12.07	12.49	14.71	5.45	6.78	17.86	5.15	8.01	13.59	13.05	8.89
Percentage of characteristics with significant bias	76.61	30.77	66.06	56.19	48.60	57.66	16.28	48.08	51.43	46.39	31.07	35.78
Median effect size	0.11	0.13	0.12	0.13	0.07	0.08	0.21	0.05	0.09	0.14	0.13	0.08
After imputation												
Difference between pre- and postimputation means	0.30	1.84	1.53	2.31	2.29	3.28*	6.66	6.33*	2.39	41.48*	5.99	5.91
Effect size for difference	#	0.01	0.01	0.01	0.01	0.02	0.03	0.03	0.01	0.11	0.02	0.02
CSTBKSPR (Cost of print-only textbooks [student reported])												
Before imputation												
Mean percent relative bias across characteristics	13.04	16.17	15.13	16.97	9.50	11.09	23.01	9.07	11.72	18.40	18.86	11.89
Median percent relative bias across characteristics	10.92	12.07	12.49	14.83	5.49	6.62	17.86	5.15	8.01	13.83	13.34	8.86
Percentage of characteristics with significant bias	76.61	30.77	66.06	56.19	47.66	57.66	16.28	43.27	51.43	46.39	29.13	34.86
Median effect size	0.11	0.13	0.12	0.13	0.07	0.08	0.21	0.05	0.09	0.14	0.13	0.08
After imputation												
Difference between pre- and postimputation means	0.12	0.64	0.11	0.52	0.36	0.43	2.78	3.12	2.87*	5.97	0.36	5.53
Effect size for difference	#	0.01	#	#	#	#	0.02	0.02	0.02	0.02	#	0.02

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting						
Variable	All students	Less-than-2-year	2-year				Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
CSTOTHER (Cost of other required course materials [student reported])												
Before imputation												
Mean percent relative bias across characteristics	13.05	16.17	15.14	16.97	9.52	11.10	23.27	9.09	11.77	18.46	18.72	11.73
Median percent relative bias across characteristics	10.91	12.07	12.56	14.81	5.39	6.83	17.75	5.17	8.16	13.93	12.93	8.55
Percentage of characteristics with significant bias	76.61	30.77	66.06	56.19	47.66	57.66	16.47	42.31	50.94	45.36	29.13	35.78
Median effect size	0.11	0.13	0.12	0.13	0.07	0.08	0.20	0.05	0.09	0.14	0.13	0.08
After imputation												
Difference between pre- and postimputation means	1.71	3.05	3.39	7.87*	6.29	0.97	17.45	3.64	3.29	8.67	4.05	3.82
Effect size for difference	#	0.01	0.01	0.02	0.01	#	0.04	0.01	0.01	0.02	0.01	0.01
CSTSUPP (Cost of required supplies [student reported])												
Before imputation												
Mean percent relative bias across characteristics	13.04	16.17	15.14	16.77	9.48	11.09	23.01	9.07	11.72	18.45	18.87	11.87
Median percent relative bias across characteristics	10.89	12.07	12.55	14.66	5.45	6.79	17.86	5.17	8.12	13.84	12.93	8.77
Percentage of characteristics with significant bias	76.61	30.77	66.06	56.19	48.60	57.66	16.28	42.31	51.43	45.36	29.13	35.78
Median effect size	0.11	0.13	0.12	0.13	0.07	0.08	0.21	0.05	0.09	0.14	0.13	0.08
After imputation												
Difference between pre- and postimputation means	1.51*	2.51	1.84	0.63	4.67	1.48	12.08*	1.73	1.25	5.12	3.41	1.51
Effect size for difference	0.01	0.01	0.01	#	0.02	0.01	0.06	0.01	0.01	0.02	0.02	0.01

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit					
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting			Less-than-2-year	2-year	4-year
Variable	All students	Less-than-2-year	2-year				Less-than-4-year								
CSTTECH (Cost of required technology [student reported])															
Before imputation															
Mean percent relative bias across characteristics	13.05	16.17	15.14	16.79	9.48	11.12	23.01	9.07	11.72	18.38	18.80	11.91			
Median percent relative bias across characteristics	10.93	12.07	12.52	14.73	5.45	6.82	17.86	5.16	8.02	13.82	12.90	8.86			
Percentage of characteristics with significant bias	76.61	30.77	66.06	56.19	48.60	57.66	16.28	42.31	51.43	45.36	30.10	33.94			
Median effect size	0.11	0.13	0.12	0.13	0.07	0.08	0.21	0.05	0.09	0.14	0.13	0.08			
After imputation															
Difference between pre- and postimputation means	1.95*	3.64	2.22	3.66	4.43*	1.61	11.43*	0.91	3.05	19.38*	0.64	0.72			
Effect size for difference	0.01	0.01	0.01	0.02	0.02	0.01	0.05	#	0.01	0.06	#	#			
CSTTOTAL (Total cost of required course materials [student reported])															
Before imputation															
Mean percent relative bias across characteristics	13.07	16.17	15.15	16.97	9.55	11.13	23.01	9.12	11.77	18.51	19.01	11.71			
Median percent relative bias across characteristics	10.89	12.07	12.57	14.91	5.45	6.86	17.86	5.15	8.16	14.08	12.97	8.61			
Percentage of characteristics with significant bias	76.61	30.77	66.06	57.14	45.79	57.66	16.28	43.27	50.94	45.36	31.07	33.94			
Median effect size	0.11	0.13	0.12	0.13	0.07	0.08	0.21	0.05	0.09	0.14	0.13	0.08			
After imputation															
Difference between pre- and postimputation means	0.93*	1.97	1.28*	0.98	2.43*	0.06	7.58	2.00	0.59	7.37	0.41	2.28			
Effect size for difference	0.01	0.01	0.01	0.01	0.02	#	0.05	0.01	#	0.04	#	0.01			

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
CUMLNTP1 (Cumulative loan type for undergrad)												
Before imputation												
Mean percent relative bias across characteristics	12.72	13.86	14.39	16.98	10.03	11.29	23.40	10.89	12.30	27.07	24.57	14.86
Median percent relative bias across characteristics	9.11	10.58	11.47	16.40	5.34	5.92	19.49	6.05	6.75	23.34	14.26	9.55
Percentage of characteristics with significant bias	75.00	18.18	59.63	54.29	34.26	54.55	20.69	27.88	45.79	39.18	22.33	24.77
Median effect size	0.10	0.12	0.14	0.13	0.06	0.08	0.21	0.07	0.07	0.20	0.21	0.11
After imputation												
Difference between pre- and postimputation means	5.46*	2.38	3.65*	2.34*	7.07*	3.60*	10.68*	11.19*	7.21*	11.86*	12.07*	12.99
Effect size for difference	0.07	‡	0.05	0.03	0.08	0.05	‡	0.12	0.09	0.14	0.15	0.14
DECMJ (Formally declared major field of study)												
Before imputation												
Mean percent relative bias across characteristics	13.86	12.99	17.88	18.54	8.65	9.52	23.92	7.74	10.64	13.64	19.63	10.90
Median percent relative bias across characteristics	12.38	10.13	14.99	17.10	5.79	6.24	20.78	5.15	8.16	10.76	13.35	7.67
Percentage of characteristics with significant bias	81.97	24.32	65.42	59.22	49.52	59.26	24.42	40.20	54.37	43.01	30.39	34.26
Median effect size	0.15	0.10	0.16	0.15	0.08	0.09	0.22	0.06	0.09	0.11	0.16	0.07
After imputation												
Difference between pre- and postimputation means	0.37*	‡	0.24	0.56	0.19	0.23	0.77	0.78*	0.51	#	0.98	0.68
Effect size for difference	0.01	‡	0.01	‡	‡	‡	‡	‡	‡	‡	0.05	‡

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
DEGPRAA (Prior degree: associate's degree)												
Before imputation												
Mean percent relative bias across characteristics	23.66	29.99	24.79	28.24	20.28	28.32	36.76	25.88	33.88	34.06	33.94	19.50
Median percent relative bias across characteristics	15.12	28.91	14.94	23.59	13.74	17.09	30.93	19.48	25.15	19.45	24.80	14.63
Percentage of characteristics with significant bias	64.52	30.14	59.63	52.88	45.79	60.00	17.86	46.08	52.88	36.84	33.98	33.64
Median effect size	0.22	0.29	0.21	0.23	0.13	0.20	0.34	0.25	0.28	0.24	0.25	0.15
After imputation												
Difference between pre- and postimputation means	0.74	‡	2.35*	2.76	4.25*	1.62	‡	2.49*	1.47	2.72	2.57	0.66
Effect size for difference	0.01	‡	0.03	0.03	0.05	0.02	‡	0.03	0.02	‡	0.03	0.01
DEGPRBA (Prior degree: 4-year bachelor's degree)												
Before imputation												
Mean percent relative bias across characteristics	23.66	29.99	24.79	28.24	20.28	28.32	36.76	25.88	33.88	34.06	33.94	19.50
Median percent relative bias across characteristics	15.12	28.91	14.94	23.59	13.74	17.09	30.93	19.48	25.15	19.45	24.80	14.63
Percentage of characteristics with significant bias	64.52	30.14	59.63	52.88	45.79	60.00	17.86	46.08	52.88	36.84	33.98	33.64
Median effect size	0.22	0.29	0.21	0.23	0.13	0.20	0.34	0.25	0.28	0.24	0.25	0.15
After imputation												
Difference between pre- and postimputation means	0.47	‡	0.41	0.42	0.71	0.46	‡	0.80	1.14	1.25	0.31	0.12
Effect size for difference	0.01	‡	#	0.01	‡	0.01	‡	‡	0.01	‡	‡	‡

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
DEGPRCRT (Prior degree: undergraduate certificate/diploma)												
Before imputation												
Mean percent relative bias across characteristics	23.66	29.99	24.79	28.24	20.28	28.32	36.76	25.88	33.88	34.06	33.94	19.50
Median percent relative bias across characteristics	15.12	28.91	14.94	23.59	13.74	17.09	30.93	19.48	25.15	19.45	24.80	14.63
Percentage of characteristics with significant bias	64.52	30.14	59.63	52.88	45.79	60.00	17.86	46.08	52.88	36.84	33.98	33.64
Median effect size	0.22	0.29	0.21	0.23	0.13	0.20	0.34	0.25	0.28	0.24	0.25	0.15
After imputation												
Difference between pre- and postimputation means	0.15	‡	1.95*	0.07	2.58	1.81*	‡	0.32	0.68	5.20	2.69	0.54
Effect size for difference	#	‡	0.02	#	0.03	0.02	‡	#	0.01	0.06	0.03	0.01
DEGPRDOC (Prior degree: doctorate or professional degree)												
Before imputation												
Mean percent relative bias across characteristics	23.66	29.99	24.79	28.24	20.28	28.32	36.76	25.88	33.88	34.06	33.94	19.50
Median percent relative bias across characteristics	15.12	28.91	14.94	23.59	13.74	17.09	30.93	19.48	25.15	19.45	24.80	14.63
Percentage of characteristics with significant bias	64.52	30.14	59.63	52.88	45.79	60.00	17.86	46.08	52.88	36.84	33.98	33.64
Median effect size	0.22	0.29	0.21	0.23	0.13	0.20	0.34	0.25	0.28	0.24	0.25	0.15
After imputation												
Difference between pre- and postimputation means	0.03	‡	0.11	0.01	0.16	0.03*	#	0.17	#	0.01	#	#
Effect size for difference	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
DEGPRMS (Prior degree: master's degree)												
Before imputation												
Mean percent relative bias across characteristics	23.66	29.99	24.79	28.24	20.28	28.32	36.76	25.88	33.88	34.06	33.94	19.50
Median percent relative bias across characteristics	15.12	28.91	14.94	23.59	13.74	17.09	30.93	19.48	25.15	19.45	24.80	14.63
Percentage of characteristics with significant bias	64.52	30.14	59.63	52.88	45.79	60.00	17.86	46.08	52.88	36.84	33.98	33.64
Median effect size	0.22	0.29	0.21	0.23	0.13	0.20	0.34	0.25	0.28	0.24	0.25	0.15
After imputation												
Difference between pre- and postimputation means	0.21	‡	0.16	0.25	0.23*	0.17	0.17*	0.26*	0.02	0.01	0.07	0.51
Effect size for difference	0.01	‡	#	‡	‡	‡	‡	‡	‡	‡	‡	‡
DEGPRPTB (Prior degree: post-BA certificate)												
Before imputation												
Mean percent relative bias across characteristics	23.66	29.99	24.79	28.24	20.28	28.32	36.76	25.88	33.88	34.06	33.94	19.50
Median percent relative bias across characteristics	15.12	28.91	14.94	23.59	13.74	17.09	30.93	19.48	25.15	19.45	24.80	14.63
Percentage of characteristics with significant bias	64.52	30.14	59.63	52.88	45.79	60.00	17.86	46.08	52.88	36.84	33.98	33.64
Median effect size	0.22	0.29	0.21	0.23	0.13	0.20	0.34	0.25	0.28	0.24	0.25	0.15
After imputation												
Difference between pre- and postimputation means	0.02	‡	0.01	0.20	#	0.01	0.03	#	0.02	0.04	0.01	0.01
Effect size for difference	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
DEGPRPTM (Prior degree: post-MA certificate)												
Before imputation												
Mean percent relative bias across characteristics	23.66	29.99	24.79	28.24	20.28	28.32	36.76	25.88	33.88	34.06	33.94	19.50
Median percent relative bias across characteristics	15.12	28.91	14.94	23.59	13.74	17.09	30.93	19.48	25.15	19.45	24.80	14.63
Percentage of characteristics with significant bias	64.52	30.14	59.63	52.88	45.79	60.00	17.86	46.08	52.88	36.84	33.98	33.64
Median effect size	0.22	0.29	0.21	0.23	0.13	0.20	0.34	0.25	0.28	0.24	0.25	0.15
After imputation												
Difference between pre- and postimputation means	0.02	‡	0.01	0.05	#	#	#	0.01	#	#	0.01	0.27
Effect size for difference	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
DEPCARE (Dependents: child in paid childcare)												
Before imputation												
Mean percent relative bias across characteristics	44.53	39.35	43.83	42.63	44.34	69.44	47.77	43.50	58.36	27.04	43.99	23.46
Median percent relative bias across characteristics	35.59	32.60	33.76	35.20	29.74	41.57	35.24	37.98	40.61	18.53	35.68	17.45
Percentage of characteristics with significant bias	73.39	41.67	66.06	44.66	50.49	62.39	22.22	59.60	49.51	45.74	41.18	40.00
Median effect size	0.38	0.31	0.47	0.43	0.32	0.39	0.40	0.42	0.43	0.24	0.33	0.19
After imputation												
Difference between pre- and postimputation means	0.44	‡	1.69	2.43	0.48	1.69	‡	1.76	1.79	1.73	8.80*	2.19
Effect size for difference	#	‡	0.02	0.02	#	0.02	‡	0.02	0.02	0.02	0.09	0.02

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit			
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year	
DEPCOLCS (Amount contributed to college costs for dependents in 2019–20)													
Before imputation													
Mean percent relative bias across characteristics	52.98	‡	53.13	54.99	63.99	87.19	55.69	58.95	76.88	54.37	47.98	41.65	
Median percent relative bias across characteristics	25.90	‡	27.41	32.55	32.00	32.84	41.48	53.63	42.49	42.07	29.63	30.13	
Percentage of characteristics with significant bias	41.80	‡	40.19	23.47	22.77	29.52	18.31	48.42	31.68	25.84	23.66	27.00	
Median effect size	0.28	‡	0.27	0.31	0.41	0.36	0.20	0.47	0.44	0.44	0.35	0.22	
After imputation													
Difference between pre- and postimputation means	5.12	‡	8.44*	‡	‡	‡	‡	‡	‡	‡	‡	14.33	
Effect size for difference	0.03	‡	0.05	‡	‡	‡	‡	‡	‡	‡	‡	0.08	
DEPCOST (Dependents: children in paid childcare - monthly costs)													
Before imputation													
Mean percent relative bias across characteristics	50.55	43.67	50.41	46.61	51.53	80.03	62.41	54.50	68.64	36.22	50.47	27.06	
Median percent relative bias across characteristics	39.30	36.21	37.82	31.48	31.23	41.74	49.84	40.66	46.39	23.93	39.47	20.37	
Percentage of characteristics with significant bias	67.74	28.57	61.11	39.60	45.63	58.88	12.50	56.12	43.00	40.00	42.42	31.13	
Median effect size	0.39	0.40	0.52	0.52	0.32	0.49	0.50	0.41	0.50	0.26	0.39	0.25	
After imputation													
Difference between pre- and postimputation means	2.57	‡	1.49	5.91	2.58	3.33	‡	3.67	0.54	11.08	13.12	1.15	
Effect size for difference	0.03	‡	0.02	0.08	0.03	0.04	‡	0.05	0.01	0.11	0.12	0.01	

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non- doctorate- granting, primarily subbacca- laureate	4-year, non- doctorate- granting, primarily bacca- laureate	4-year, doctorate- granting						
Variable	All students	Less- than- 2-year	2-year				Less- than- 4-year	4-year, non- doctorate- granting	4-year, doctorate- granting	Less- than- 2-year	2-year	4-year
DEPINC (Dependent students: Parents' income)												
Before imputation												
Mean percent relative bias across characteristics	29.43	48.11	31.17	32.66	22.08	24.73	44.13	24.07	30.06	33.37	37.91	51.43
Median percent relative bias across characteristics	22.51	41.58	24.36	26.42	16.32	14.43	34.70	17.26	19.18	20.79	30.15	46.88
Percentage of characteristics with significant bias	87.39	32.35	75.96	66.67	67.31	64.15	25.64	62.00	65.00	39.33	32.99	34.31
Median effect size	0.26	0.45	0.26	0.22	0.17	0.17	0.38	0.21	0.22	0.18	0.26	0.38
After imputation												
Difference between pre- and postimputation means	12.18*	9.23	14.50*	17.73*	9.63*	12.25*	2.83	8.91*	10.47*	8.36*	10.26	13.49
Effect size for difference	0.09	0.09	0.11	0.13	0.09	0.09	0.02	0.06	0.09	0.07	0.05	0.08
DEPOTCST (Dependents: monthly cost of supporting dependents other than children)												
Before imputation												
Mean percent relative bias across characteristics	41.93	‡	38.61	51.87	62.04	71.37	49.24	57.08	76.31	50.92	58.47	43.68
Median percent relative bias across characteristics	25.76	‡	21.65	33.62	40.12	32.96	40.60	45.17	61.17	31.62	45.86	29.26
Percentage of characteristics with significant bias	43.09	‡	33.64	26.00	26.26	23.81	29.17	39.58	55.67	21.84	36.46	18.45
Median effect size	0.27	‡	0.19	0.32	0.46	0.32	0.37	0.45	0.51	0.26	0.49	0.30
After imputation												
Difference between pre- and postimputation means	0.93	‡	4.74	17.32	11.81	23.54*	‡	3.59	24.31	6.19	11.23	22.27
Effect size for difference	#	‡	0.02	0.09	0.08	0.17	‡	0.03	0.15	0.03	0.14	0.07

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
DIS16A (Disability: deaf or serious difficulty hearing)												
Before imputation												
Mean percent relative bias across characteristics	13.02	13.89	15.47	16.58	9.32	10.88	23.56	9.01	11.78	16.16	19.47	11.56
Median percent relative bias across characteristics	11.01	11.43	12.59	15.05	5.25	6.14	19.65	5.00	8.41	11.55	13.11	8.12
Percentage of characteristics with significant bias	78.23	26.32	66.06	57.69	49.53	58.18	22.73	42.31	55.24	44.79	38.83	34.26
Median effect size	0.11	0.11	0.12	0.13	0.07	0.09	0.21	0.05	0.08	0.12	0.13	0.08
After imputation												
Difference between pre- and postimputation means	0.05	0.32	0.13	0.22*	0.08	0.03	0.09	0.04	0.02	0.11	0.18*	0.18
Effect size for difference	#	‡	0.01	‡	‡	‡	‡	‡	‡	‡	‡	‡
DIS16B (Disability: blind or serious difficulty seeing)												
Before imputation												
Mean percent relative bias across characteristics	13.02	14.39	15.44	16.61	9.33	10.93	23.56	8.99	11.79	16.13	19.50	11.57
Median percent relative bias across characteristics	10.93	12.54	12.48	14.96	5.34	6.23	19.65	4.92	8.47	11.23	13.16	7.83
Percentage of characteristics with significant bias	79.03	30.26	65.14	57.69	49.53	60.00	22.73	42.31	55.24	45.83	38.83	34.26
Median effect size	0.11	0.12	0.12	0.13	0.07	0.09	0.21	0.05	0.08	0.12	0.13	0.08
After imputation												
Difference between pre- and postimputation means	0.12	0.08	0.16	0.56*	0.10	0.02	0.25	0.05	0.09	0.52	0.57	0.24
Effect size for difference	#	‡	#	‡	‡	#	‡	‡	‡	‡	0.01	‡

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting						
Variable	All students	Less-than-2-year	2-year				Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
DIS17A (Disability: serious difficulty concentrating, remembering, deciding)												
Before imputation												
Mean percent relative bias across characteristics	13.04	14.13	15.45	16.53	9.35	10.91	23.57	9.13	11.79	16.16	19.50	11.59
Median percent relative bias across characteristics	11.08	11.70	12.68	14.87	5.34	6.23	19.63	5.11	8.47	11.38	13.21	8.04
Percentage of characteristics with significant bias	78.23	28.95	65.14	57.69	48.60	58.18	22.73	43.27	55.24	45.83	38.83	34.26
Median effect size	0.11	0.12	0.13	0.13	0.07	0.09	0.21	0.05	0.08	0.12	0.13	0.08
After imputation												
Difference between pre- and postimputation means	0.01	0.39	0.59	0.19	0.18	0.14	0.18	0.31	1.32*	3.13*	0.11	0.24
Effect size for difference	#	‡	0.01	#	#	#	‡	#	0.02	0.04	#	#
DIS17B (Disability: serious difficulty walking or climbing stairs)												
Before imputation												
Mean percent relative bias across characteristics	13.02	14.36	15.44	16.61	9.35	10.91	23.57	9.12	11.79	16.11	19.44	11.53
Median percent relative bias across characteristics	11.00	11.27	12.72	14.65	5.37	6.19	19.63	5.06	8.40	11.38	13.30	8.24
Percentage of characteristics with significant bias	78.23	30.26	65.14	57.69	50.47	58.18	22.73	43.27	55.24	45.83	38.83	34.26
Median effect size	0.11	0.12	0.12	0.13	0.07	0.09	0.21	0.05	0.09	0.12	0.13	0.08
After imputation												
Difference between pre- and postimputation means	0.01	0.28*	0.03	0.10	0.02	0.02	0.54*	0.09	0.02	0.04	0.25	0.24
Effect size for difference	#	‡	#	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
DISABLE (Disability: has some type of disability)												
Before imputation												
Mean percent relative bias across characteristics	13.04	13.85	15.38	16.60	9.31	10.93	23.57	9.11	11.79	16.19	19.48	11.56
Median percent relative bias across characteristics	11.05	11.29	12.63	14.99	5.33	6.19	19.63	5.05	8.41	11.41	13.12	7.81
Percentage of characteristics with significant bias	78.23	30.26	65.14	57.69	50.47	60.00	22.73	42.31	55.24	45.83	38.83	34.26
Median effect size	0.11	0.12	0.12	0.13	0.07	0.09	0.21	0.05	0.08	0.12	0.13	0.08
After imputation												
Difference between pre- and postimputation means	0.25	0.48	0.75	1.68	0.05	0.20	0.52	0.08	1.26*	4.09*	0.76	0.11
Effect size for difference	#	‡	0.01	0.02	#	#	‡	#	0.02	0.05	0.01	#
DISTALL (Distance education: entire program at NPSAS was online)												
Before imputation												
Mean percent relative bias across characteristics	13.68	16.65	17.05	17.82	9.35	10.44	24.22	8.11	11.37	15.27	18.64	10.74
Median percent relative bias across characteristics	11.71	13.46	14.19	16.38	5.39	6.03	21.14	4.72	7.84	12.21	13.95	8.24
Percentage of characteristics with significant bias	82.11	36.36	63.89	59.62	48.11	59.63	23.81	33.98	54.81	44.21	39.22	36.45
Median effect size	0.12	0.14	0.15	0.14	0.08	0.09	0.22	0.05	0.09	0.12	0.13	0.08
After imputation												
Difference between pre- and postimputation means	0.49	1.17	1.55*	1.71	1.57	1.13*	0.55	1.57	0.49	0.57	0.12	1.05
Effect size for difference	0.01	‡	0.02	0.02	0.02	0.01	‡	0.02	0.01	0.01	#	0.01

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit			
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year	
DISTEDUC (Distance education: any classes taken at NPSAS taught entirely online)													
Before imputation													
Mean percent relative bias across characteristics	12.90	16.35	15.39	16.75	9.11	10.71	23.81	8.67	11.62	15.80	18.64	10.75	
Median percent relative bias across characteristics	10.66	14.02	12.23	14.75	5.08	6.09	20.00	4.69	8.09	12.12	14.05	8.07	
Percentage of characteristics with significant bias	79.84	29.87	64.22	58.65	49.53	59.09	23.81	34.62	56.19	45.83	38.83	36.45	
Median effect size	0.11	0.13	0.13	0.13	0.07	0.09	0.22	0.05	0.09	0.12	0.13	0.08	
After imputation													
Difference between pre- and postimputation means	0.18	6.94*	0.12	0.11	0.07	0.24	0.40	1.49	0.58	1.92	1.14	1.56	
Effect size for difference	#	0.07	#	#	#	#	#	0.01	0.01	0.02	0.01	0.02	
DISTYPES (Disability: main type of condition or impairment)													
Before imputation													
Mean percent relative bias across characteristics	22.53	33.46	26.44	31.12	18.92	22.74	41.25	18.34	26.49	28.85	37.25	26.09	
Median percent relative bias across characteristics	18.88	23.67	20.72	23.85	13.62	18.54	37.48	11.46	22.49	23.44	28.47	18.18	
Percentage of characteristics with significant bias	72.58	14.47	62.39	49.51	39.62	55.05	25.58	35.58	53.33	35.79	33.98	25.23	
Median effect size	0.24	0.23	0.22	0.26	0.19	0.23	0.36	0.14	0.26	0.25	0.34	0.18	
After imputation													
Difference between pre- and postimputation means	2.22*	‡	2.15*	4.36	2.09	2.19	‡	3.50*	6.43*	8.98*	4.61	5.58	
Effect size for difference	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
DODAMT (Department of Defense [military] aid)												
Before imputation												
Mean percent relative bias across characteristics	16.37	15.44	22.38	19.44	13.47	13.92	31.89	17.51	14.69	31.88	28.84	15.05
Median percent relative bias across characteristics	11.13	10.91	18.47	14.90	7.63	6.61	23.67	8.82	7.87	25.70	16.61	9.65
Percentage of characteristics with significant bias	75.81	26.76	66.97	57.28	41.67	55.45	10.84	18.27	46.23	44.21	23.00	25.71
Median effect size	0.15	0.16	0.16	0.14	0.07	0.08	0.29	0.12	0.10	0.27	0.25	0.12
After imputation												
Difference between pre- and postimputation means	9.58	‡	65.23	80.87	15.62	6.89	#	30.55	13.69	100.00	100.00	38.56
Effect size for difference	#	‡	0.01	0.01	#	#	‡	0.01	#	0.01	0.03	0.03
DSTUINC (Dependent students: Income)												
Before imputation												
Mean percent relative bias across characteristics	28.43	48.51	30.39	32.51	21.01	22.59	45.36	22.48	26.05	34.00	36.47	49.96
Median percent relative bias across characteristics	23.77	43.75	24.52	24.94	15.13	12.21	37.63	16.27	17.99	21.21	25.22	44.25
Percentage of characteristics with significant bias	88.24	31.43	74.04	64.65	66.02	61.32	25.32	59.00	62.00	41.57	38.14	34.31
Median effect size	0.27	0.42	0.25	0.21	0.16	0.17	0.41	0.21	0.17	0.18	0.25	0.36
After imputation												
Difference between pre- and postimputation means	28.18*	37.59*	34.96*	32.32*	19.52*	20.80*	‡	18.52*	33.63*	26.79*	14.22*	16.02
Effect size for difference	0.10	0.28	0.14	0.19	0.07	0.07	‡	0.07	0.10	0.16	0.07	0.09

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit			
		Less- than- 2-year	2-year	4-year, non- doctorate- granting, primarily subbacca- laureate	4-year, non- doctorate- granting, primarily bacca- laureate	4-year, doctorate- granting	Less- than- 4-year	4-year, non- doctorate- granting	4-year, doctorate- granting	Less- than- 2-year	2-year	4-year	
Variable	All students												
EFC (Expected family contribution)													
Before imputation													
Mean percent relative bias across characteristics	22.68	36.96	28.34	28.05	20.25	22.91	28.76	21.86	25.38	21.03	27.51	21.40	
Median percent relative bias across characteristics	14.96	32.56	17.82	20.16	12.96	10.73	28.04	15.69	16.74	15.59	26.73	18.20	
Percentage of characteristics with significant bias	78.23	42.67	77.06	64.42	63.89	66.36	34.88	66.35	68.27	48.96	44.66	44.04	
Median effect size	0.22	0.38	0.24	0.25	0.19	0.16	0.30	0.20	0.21	0.21	0.29	0.15	
After imputation													
Difference between pre- and postimputation means	16.54*	18.47	26.33*	27.45*	14.77*	13.71*	5.33*	9.84*	11.31*	22.53*	20.71	29.41*	
Effect size for difference	0.06	0.09	0.09	0.10	0.07	0.06	0.02	0.04	0.05	0.06	0.03	0.10	
EFCAID (Aid subject to federal EFC limitation)													
Before imputation													
Mean percent relative bias across characteristics	15.01	15.44	19.89	17.48	11.93	12.71	27.71	16.54	13.55	31.89	35.17	14.87	
Median percent relative bias across characteristics	10.59	10.91	14.47	13.35	7.50	6.05	20.25	9.22	8.26	28.40	22.70	8.93	
Percentage of characteristics with significant bias	78.05	26.76	63.89	57.28	31.13	51.38	11.76	18.45	45.71	40.00	28.28	10.48	
Median effect size	0.15	0.16	0.13	0.13	0.09	0.07	0.28	0.11	0.09	0.26	0.33	0.11	
After imputation													
Difference between pre- and postimputation means	2.65*	‡	6.20*	4.96*	6.22*	0.74	6.01	10.77	2.64	10.44*	0.78	0.58	
Effect size for difference	0.02	‡	0.04	0.03	0.06	0.01	0.08	0.11	0.02	0.13	0.01	0.01	

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit			
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting			
Variable	All students	Less-than-2-year	2-year				Less-than-4-year				Less-than-2-year	2-year	4-year
EFFORT20 (Net price after grants and loans as percentage of income)													
Before imputation													
Mean percent relative bias across characteristics	26.11	39.49	34.29	32.12	25.08	25.26	38.22	26.41	27.21		39.22	42.47	28.24
Median percent relative bias across characteristics	19.04	33.37	27.63	25.61	16.27	16.39	30.52	20.86	17.33		35.10	31.35	24.44
Percentage of characteristics with significant bias	75.81	41.33	67.89	58.10	51.85	60.36	18.60	46.15	51.85		42.71	34.95	24.77
Median effect size	0.26	0.40	0.38	0.29	0.21	0.22	0.38	0.22	0.23		0.37	0.35	0.25
After imputation													
Difference between pre- and postimputation means	5.99*	10.13	14.31*	9.41*	5.78*	1.69	3.51	0.13	4.12		1.76	18.81	11.38
Effect size for difference	0.06	0.09	0.14	0.10	0.06	0.02	0.04	#	0.04		0.03	0.23	0.11
EFFORT3 (Net price after grants as percentage of income)													
Before imputation													
Mean percent relative bias across characteristics	26.16	38.94	34.47	31.97	25.26	25.29	38.98	26.44	27.16		39.84	42.46	28.06
Median percent relative bias across characteristics	19.01	31.43	27.58	25.49	16.10	15.99	31.62	20.80	16.45		36.68	31.41	23.73
Percentage of characteristics with significant bias	75.81	41.89	67.89	59.05	53.70	60.36	16.28	45.19	53.70		42.71	35.92	26.61
Median effect size	0.27	0.41	0.38	0.29	0.21	0.22	0.38	0.22	0.23		0.37	0.36	0.25
After imputation													
Difference between pre- and postimputation means	8.53*	16.94	14.21*	10.16*	7.81*	5.31*	6.53	6.90	1.55		2.88	9.33*	8.24*
Effect size for difference	0.10	0.17	0.15	0.11	0.10	0.07	0.12	0.09	0.02		0.07	0.21	0.12

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit			
		Less- than- 2-year	2-year	4-year, non- doctorate- granting, primarily subbacca- laureate	4-year, non- doctorate- granting, primarily bacca- laureate	4-year, doctorate- granting	Less- than- 4-year	4-year, non- doctorate- granting	4-year, doctorate- granting	Less- than- 2-year	2-year	4-year	
Variable	All students												
EFFORT9 (Net tuition after all grants as percentage of income)													
Before imputation													
Mean percent relative bias across characteristics	25.81	38.42	33.89	31.38	24.46	25.00	38.47	26.41	27.16	39.97	42.18	27.48	
Median percent relative bias across characteristics	18.53	30.29	26.33	25.42	15.49	14.79	30.87	20.97	16.98	37.01	29.75	22.44	
Percentage of characteristics with significant bias	75.81	41.89	66.97	57.14	50.00	61.26	20.93	45.19	53.70	44.79	33.98	25.69	
Median effect size	0.26	0.40	0.36	0.28	0.21	0.22	0.38	0.22	0.23	0.38	0.37	0.25	
After imputation													
Difference between pre- and postimputation means	15.84*	3.15	42.88*	25.63*	23.39*	3.48	15.16	13.73	2.39	7.14*	25.09*	8.86	
Effect size for difference	0.10	0.02	0.20	0.12	0.13	0.02	0.16	0.10	0.02	0.13	0.34	0.08	
EMPLWAIV (Institution tuition waivers for staff)													
Before imputation													
Mean percent relative bias across characteristics	15.51	15.44	20.43	18.73	12.81	13.10	26.64	16.59	13.95	31.88	36.22	15.04	
Median percent relative bias across characteristics	10.81	10.91	16.04	14.86	7.67	6.63	19.64	8.81	8.33	25.70	25.23	9.64	
Percentage of characteristics with significant bias	74.80	26.76	62.96	56.86	40.19	55.05	10.98	17.48	46.67	44.21	33.00	25.71	
Median effect size	0.14	0.16	0.15	0.14	0.08	0.08	0.28	0.12	0.09	0.27	0.32	0.12	
After imputation													
Difference between pre- and postimputation means	2.93	‡	28.72	7.43	14.96	0.92	4.25	1.61	2.99	#	100.00	13.31	
Effect size for difference	#	‡	0.01	#	0.01	#	#	#	#	‡	0.01	#	

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting		4-year, doctorate-granting			
Variable	All students	Less-than-2-year	2-year				Less-than-4-year	doctorate-granting	doctorate-granting	Less-than-2-year	2-year	4-year
EMPLYAMT (Employer aid [includes college staff])												
Before imputation												
Mean percent relative bias across characteristics	15.53	15.44	20.49	18.73	12.81	13.09	26.68	16.60	13.95	31.88	36.22	15.04
Median percent relative bias across characteristics	10.77	10.91	16.04	14.86	7.67	6.60	19.97	8.81	8.32	25.70	25.24	9.64
Percentage of characteristics with significant bias	75.61	26.76	62.96	56.86	40.19	55.05	10.84	17.48	45.71	44.21	33.00	25.71
Median effect size	0.14	0.16	0.15	0.14	0.08	0.08	0.28	0.12	0.09	0.27	0.32	0.12
After imputation												
Difference between pre- and postimputation means	0.18	‡	6.98	1.32	2.52	0.18	10.39	0.34	1.72	32.64	19.35	0.18
Effect size for difference	#	‡	0.01	#	#	#	0.01	#	#	0.03	0.02	#
ESUBMX2 (Direct Subsidized Loan individual maximum)												
Before imputation												
Mean percent relative bias across characteristics	38.88	64.24	72.94	71.39	28.10	29.53	46.12	23.84	26.27	34.01	46.05	22.74
Median percent relative bias across characteristics	36.52	61.66	43.19	53.94	20.25	16.74	37.99	16.88	20.58	30.56	40.23	16.89
Percentage of characteristics with significant bias	79.66	58.49	71.84	67.35	64.36	62.50	30.14	63.54	61.22	54.44	41.67	32.00
Median effect size	0.41	0.77	0.59	0.59	0.25	0.23	0.48	0.25	0.25	0.34	0.42	0.20
After imputation												
Difference between pre- and postimputation means	0.18	‡	‡	‡	‡	‡	‡	‡	‡	0.92	‡	0.33
Effect size for difference	#	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
FAMHELP (Other financial support received)												
Before imputation												
Mean percent relative bias across characteristics	13.01	14.42	15.33	16.73	9.42	10.83	23.92	9.03	11.65	16.14	19.66	11.54
Median percent relative bias across characteristics	11.01	12.50	12.28	15.66	5.34	6.19	21.12	4.98	8.35	11.69	13.12	7.95
Percentage of characteristics with significant bias	77.42	30.26	66.06	58.10	50.47	60.91	21.59	41.35	55.24	44.79	38.83	34.26
Median effect size	0.11	0.12	0.12	0.13	0.07	0.09	0.21	0.05	0.08	0.12	0.13	0.08
After imputation												
Difference between pre- and postimputation means	0.19	1.07	0.99*	0.01	0.65	0.20	0.51	0.49	1.28*	1.49	0.86	0.60
Effect size for difference	#	‡	0.02	#	0.01	#	‡	0.01	0.02	0.02	0.01	0.01
FAMHPAM (Help from family and friends: total amount in 2019–20)												
Before imputation												
Mean percent relative bias across characteristics	13.00	14.56	15.32	16.68	9.43	10.83	23.94	9.06	11.64	16.13	19.62	11.50
Median percent relative bias across characteristics	11.04	12.58	12.27	15.70	5.41	5.95	21.01	5.02	8.28	11.68	13.20	7.91
Percentage of characteristics with significant bias	77.42	32.47	66.06	58.10	51.40	56.36	21.59	39.42	56.19	44.79	38.83	34.26
Median effect size	0.11	0.12	0.12	0.13	0.07	0.09	0.21	0.05	0.08	0.12	0.13	0.07
After imputation												
Difference between pre- and postimputation means	0.57*	0.98	1.03*	0.52	0.26	0.40	0.39	0.12	1.32*	0.79	0.23	0.09
Effect size for difference	0.01	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit			
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting			
Variable	All students	Less-than-2-year	2-year				Less-than-4-year				Less-than-2-year	2-year	4-year
FEDBEN (Received federal benefit: Any)													
Before imputation													
Mean percent relative bias across characteristics	14.35	20.14	17.02	18.21	18.74	19.30	25.10	18.14	18.12		18.96	19.44	19.11
Median percent relative bias across characteristics	6.04	8.83	9.01	10.52	10.52	9.57	17.71	10.01	12.52		13.16	14.27	12.63
Percentage of characteristics with significant bias	52.42	15.19	60.55	43.81	42.59	42.86	17.78	33.03	47.66		37.11	27.88	24.77
Median effect size	0.07	0.13	0.10	0.10	0.11	0.10	0.19	0.13	0.14		0.12	0.15	0.14
After imputation													
Difference between pre- and postimputation means	13.93*	24.98*	14.16*	14.53*	15.04*	3.69*	25.42*	11.39*	7.55*		22.27*	31.87*	30.79*
Effect size for difference	0.14	0.25	0.14	0.14	0.15	0.04	0.25	0.12	0.08		0.23	0.32	0.31
FEDBENA (Received federal benefit: Food Stamp Benefit)													
Before imputation													
Mean percent relative bias across characteristics	17.68	19.33	15.18	16.28	22.61	25.05	20.92	26.16	21.15		16.79	17.48	11.49
Median percent relative bias across characteristics	7.97	11.38	8.19	8.05	12.78	12.57	13.74	21.85	13.19		11.14	11.00	6.57
Percentage of characteristics with significant bias	67.74	18.42	58.72	40.00	49.07	51.79	22.73	54.29	47.17		38.54	27.88	33.94
Median effect size	0.10	0.13	0.06	0.07	0.15	0.13	0.14	0.23	0.16		0.09	0.10	0.07
After imputation													
Difference between pre- and postimputation means	2.19*	0.88	0.70	0.10	1.47	0.81	4.08	1.99	0.52		7.69*	4.73*	1.87
Effect size for difference	0.03	‡	0.01	#	0.02	0.01	‡	0.03	0.01		0.08	0.05	0.02

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting		
Variable	All students	Less-than-2-year	2-year				Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
FEDBENB (Received federal benefit: Free or reduced-price school lunch benefits)												
Before imputation												
Mean percent relative bias across characteristics	15.94	26.53	16.51	18.03	21.58	23.03	24.75	21.56	19.49	16.75	20.85	17.47
Median percent relative bias across characteristics	8.09	15.18	9.20	7.12	12.17	11.82	17.34	13.46	13.76	10.46	14.41	11.81
Percentage of characteristics with significant bias	59.68	15.00	51.38	37.14	39.45	43.75	19.10	39.62	47.66	31.96	25.96	29.36
Median effect size	0.08	0.18	0.09	0.08	0.11	0.12	0.17	0.16	0.15	0.10	0.15	0.10
After imputation												
Difference between pre- and postimputation means	3.20*	8.43	0.89	5.70*	2.80	0.63	15.54	0.92	0.96	16.19*	18.78*	13.44*
Effect size for difference	0.04	0.09	0.01	0.06	0.03	0.01	0.16	0.01	0.01	0.17	0.20	0.15
FEDBENC (Received federal benefit: Supplemental Security Income benefits)												
Before imputation												
Mean percent relative bias across characteristics	16.71	16.92	14.73	15.70	20.81	23.25	20.52	24.25	20.14	17.14	17.57	11.13
Median percent relative bias across characteristics	8.03	8.73	7.57	9.74	11.59	11.96	12.49	20.24	12.40	12.11	10.83	6.87
Percentage of characteristics with significant bias	65.32	20.00	61.47	45.71	51.85	53.57	19.32	51.43	50.00	35.42	25.96	33.94
Median effect size	0.09	0.12	0.07	0.07	0.12	0.12	0.14	0.21	0.15	0.09	0.10	0.07
After imputation												
Difference between pre- and postimputation means	1.11*	0.52	3.18*	4.78*	0.24	1.43*	4.53	1.25	0.61	0.90	1.71	0.29
Effect size for difference	0.01	‡	0.04	0.05	#	0.02	0.05	0.02	0.01	0.01	0.02	#

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit			
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting			
Variable	All students	Less-than-2-year	2-year				Less-than-4-year				Less-than-2-year	2-year	4-year
FEDBEND (Received federal benefit: TANF benefits)													
Before imputation													
Mean percent relative bias across characteristics	18.21	27.07	17.30	21.70	26.89	28.94	23.31	24.44	21.65		16.61	20.52	18.13
Median percent relative bias across characteristics	8.89	18.45	9.24	13.15	15.53	18.28	13.13	16.52	15.55		11.78	13.80	13.14
Percentage of characteristics with significant bias	62.90	13.75	50.46	40.95	51.82	54.46	16.48	42.45	49.53		30.93	24.04	30.28
Median effect size	0.11	0.18	0.07	0.10	0.18	0.17	0.17	0.19	0.17		0.09	0.14	0.11
After imputation													
Difference between pre- and postimputation means	0.80*	1.51	0.52	0.89	0.24	0.31	3.12*	0.51	0.82		6.65*	4.45	1.49*
Effect size for difference	0.03	‡	0.02	0.03	0.01	0.01	‡	0.02	0.04		0.15	0.11	0.04
FEDBENE (Received federal benefit: WIC benefits)													
Before imputation													
Mean percent relative bias across characteristics	16.74	26.52	16.04	22.16	24.12	26.74	24.87	20.67	22.94		16.82	20.95	19.41
Median percent relative bias across characteristics	8.68	16.29	8.91	15.24	15.44	16.05	16.54	11.62	18.57		11.17	12.80	11.99
Percentage of characteristics with significant bias	62.90	23.17	51.38	36.79	45.87	52.21	14.29	31.82	44.44		28.87	13.33	22.94
Median effect size	0.09	0.21	0.05	0.10	0.18	0.19	0.18	0.16	0.19		0.09	0.14	0.13
After imputation													
Difference between pre- and postimputation means	6.31*	4.98	7.75*	6.34*	7.40*	1.41*	36.47*	7.09*	0.54		14.18*	20.25*	7.57
Effect size for difference	0.11	0.08	0.13	0.11	0.16	0.03	0.49	0.16	0.01		0.17	0.27	0.10

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
FEDGRPCT (Ratio of federal grants to total aid)												
Before imputation												
Mean percent relative bias across characteristics	20.26	26.00	32.53	28.74	15.67	15.52	38.01	18.25	15.77	44.01	43.24	18.78
Median percent relative bias across characteristics	16.68	22.48	28.08	27.06	10.57	9.97	26.98	11.10	11.15	40.62	38.00	11.64
Percentage of characteristics with significant bias	73.33	37.68	70.48	56.44	31.43	56.48	15.85	25.74	45.10	48.39	29.90	8.65
Median effect size	0.23	0.27	0.39	0.29	0.16	0.13	0.36	0.16	0.14	0.46	0.44	0.17
After imputation												
Difference between pre- and postimputation means	8.22*	‡	3.80*	3.43	12.34*	4.79*	12.74	22.70*	3.74	3.06	4.98	0.41
Effect size for difference	0.07	‡	0.04	0.04	0.10	0.04	0.18	0.14	0.02	0.04	0.07	#
FEDNEED (Federal need-based aid)												
Before imputation												
Mean percent relative bias across characteristics	11.46	15.26	12.81	13.31	10.01	9.28	24.91	9.88	10.34	22.78	21.72	9.73
Median percent relative bias across characteristics	8.64	11.10	9.85	10.05	6.73	4.72	16.26	5.33	5.88	17.55	14.78	6.95
Percentage of characteristics with significant bias	67.74	24.00	60.55	51.92	39.81	51.82	13.95	31.73	45.71	30.93	21.36	17.76
Median effect size	0.09	0.11	0.07	0.09	0.07	0.07	0.21	0.05	0.06	0.14	0.17	0.07
After imputation												
Difference between pre- and postimputation means	9.17*	‡	16.73*	9.11*	14.48*	6.03*	4.63	8.85*	5.80*	10.54*	5.77	5.22
Effect size for difference	0.07	‡	0.11	0.06	0.13	0.05	0.07	0.08	0.05	0.14	0.08	0.06

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
FEDPACK (Federal aid package by type of aid)												
Before imputation												
Mean percent relative bias across characteristics	14.90	15.44	19.92	17.27	13.39	12.74	31.61	17.12	13.20	33.97	29.62	15.47
Median percent relative bias across characteristics	10.58	10.88	15.00	12.30	7.31	6.10	21.67	8.82	6.59	30.60	19.84	9.72
Percentage of characteristics with significant bias	68.29	26.76	64.81	42.72	25.93	50.91	7.23	17.31	37.14	35.48	14.14	4.85
Median effect size	0.14	0.16	0.12	0.17	0.09	0.07	0.30	0.10	0.11	0.24	0.27	0.14
After imputation												
Difference between pre- and postimputation means	6.81*	‡	7.17*	8.71*	12.53*	6.85*	20.75	6.84*	6.81*	7.49	14.70	10.00
Effect size for difference	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
FEDPCT (Ratio of federal aid to total aid)												
Before imputation												
Mean percent relative bias across characteristics	20.26	26.00	32.53	28.74	15.67	15.52	38.01	18.25	15.77	44.01	43.24	18.78
Median percent relative bias across characteristics	16.68	22.48	28.08	27.06	10.57	9.97	26.98	11.10	11.15	40.62	38.00	11.64
Percentage of characteristics with significant bias	73.33	37.68	70.48	56.44	31.43	56.48	15.85	25.74	45.10	48.39	29.90	8.65
Median effect size	0.23	0.27	0.39	0.29	0.16	0.13	0.36	0.16	0.14	0.46	0.44	0.17
After imputation												
Difference between pre- and postimputation means	5.06*	‡	2.09	3.85	5.92*	4.51*	1.22	8.45	4.56	2.77*	0.76	3.97
Effect size for difference	0.07	‡	0.03	0.06	0.09	0.06	0.04	0.10	0.05	0.09	0.02	0.07

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit			
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting			
Variable	All students	Less-than-2-year	2-year				Less-than-4-year				Less-than-2-year	2-year	4-year
FGRTLN (Total federal loans and grants)													
Before imputation													
Mean percent relative bias across characteristics	15.57	15.44	19.92	17.27	13.40	13.53	31.58	17.12	13.19		33.66	29.60	15.47
Median percent relative bias across characteristics	10.63	10.88	14.99	12.30	7.34	6.09	21.74	8.82	6.62		30.08	20.17	9.70
Percentage of characteristics with significant bias	68.55	26.76	64.81	42.72	25.93	50.45	10.84	17.31	37.14		34.41	13.13	4.85
Median effect size	0.14	0.16	0.12	0.17	0.09	0.07	0.30	0.10	0.11		0.23	0.27	0.14
After imputation													
Difference between pre- and postimputation means	5.85*	‡	9.05*	11.78*	9.14*	5.95*	11.25	1.72	6.69*		4.35	1.32	6.68
Effect size for difference	0.05	‡	0.06	0.07	0.09	0.06	0.16	0.02	0.06		0.06	0.02	0.07
FIN2000 (Financial security: \$2,000 within the next month)													
Before imputation													
Mean percent relative bias across characteristics	13.01	14.28	15.35	16.76	9.46	10.94	23.65	9.13	11.73		16.28	19.77	11.64
Median percent relative bias across characteristics	11.08	12.06	12.51	15.73	5.49	6.42	20.37	5.07	8.46		11.47	12.39	7.93
Percentage of characteristics with significant bias	77.42	28.95	65.14	58.65	50.47	59.09	22.73	38.46	55.24		44.79	38.83	32.41
Median effect size	0.11	0.13	0.12	0.13	0.07	0.09	0.21	0.06	0.08		0.12	0.13	0.08
After imputation													
Difference between pre- and postimputation means	0.35	7.56*	0.37	2.25*	0.98	0.36	14.53*	0.27	2.00*		3.96	2.37	1.73
Effect size for difference	#	‡	#	0.03	0.01	#	‡	#	0.02		0.05	0.02	0.02

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
FIN500 (Financial security: \$500 within the next month)												
Before imputation												
Mean percent relative bias across characteristics	13.03	14.27	15.28	16.94	9.54	10.88	23.66	9.24	11.74	16.27	19.78	11.58
Median percent relative bias across characteristics	11.14	12.04	12.45	15.67	5.55	6.69	20.83	5.08	8.41	11.09	13.04	7.98
Percentage of characteristics with significant bias	77.42	28.95	64.22	57.14	50.47	60.91	22.73	39.42	53.33	44.79	38.83	33.33
Median effect size	0.11	0.13	0.12	0.13	0.07	0.09	0.21	0.06	0.09	0.12	0.13	0.07
After imputation												
Difference between pre- and postimputation means	0.52*	6.66*	0.25	0.94	0.59	0.54	3.35	0.60	2.18*	3.57*	1.40	1.97*
Effect size for difference	0.01	‡	#	0.01	0.01	0.01	‡	0.01	0.03	0.04	0.02	0.02
FINLIT1 (Financial literacy: Effect of inflation on purchasing)												
Before imputation												
Mean percent relative bias across characteristics	13.11	14.71	15.41	16.75	9.27	10.95	22.89	9.08	11.71	16.29	19.66	11.70
Median percent relative bias across characteristics	11.22	12.36	12.30	15.26	4.90	6.48	19.11	5.01	8.34	11.12	13.05	7.76
Percentage of characteristics with significant bias	77.42	31.17	65.14	57.69	44.86	57.27	22.73	40.38	55.24	45.83	38.83	36.11
Median effect size	0.11	0.12	0.12	0.13	0.07	0.08	0.20	0.05	0.08	0.12	0.13	0.08
After imputation												
Difference between pre- and postimputation means	0.32	0.54	0.63	2.31	0.79	0.60	0.88	0.61	3.29*	3.53*	3.55*	1.36
Effect size for difference	#	‡	0.01	0.02	0.01	0.01	0.01	0.01	0.04	0.04	0.04	0.02

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting						
Variable	All students	Less-than-2-year	2-year				Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
FINLIT2 (Financial literacy: Effect of interest on savings)												
Before imputation												
Mean percent relative bias across characteristics	13.06	14.56	15.45	16.78	9.47	10.90	23.76	9.15	11.66	16.44	19.57	11.78
Median percent relative bias across characteristics	11.17	12.96	12.40	15.60	5.41	6.24	19.69	4.92	8.27	11.38	13.38	8.22
Percentage of characteristics with significant bias	77.42	32.89	65.14	57.14	48.60	58.18	21.59	37.50	53.33	44.79	35.92	36.11
Median effect size	0.11	0.12	0.12	0.13	0.07	0.08	0.21	0.05	0.08	0.12	0.13	0.08
After imputation												
Difference between pre- and postimputation means	0.34	0.35	0.21	0.11	0.65	0.65	2.45*	0.26	1.11	2.63	2.06*	0.41
Effect size for difference	#	‡	#	#	0.01	0.01	‡	0.01	0.02	0.03	0.02	0.01
FINLIT3 (Financial literacy: Effect of diversification on risk)												
Before imputation												
Mean percent relative bias across characteristics	13.04	14.45	15.42	16.56	9.53	10.92	23.55	9.04	11.83	16.48	19.55	11.60
Median percent relative bias across characteristics	10.91	12.90	12.42	14.79	5.49	5.98	20.92	5.16	8.20	11.21	13.28	8.48
Percentage of characteristics with significant bias	77.42	30.26	65.14	57.69	50.47	58.18	22.73	40.38	54.29	43.75	38.83	35.19
Median effect size	0.11	0.12	0.13	0.13	0.07	0.09	0.21	0.05	0.08	0.12	0.13	0.08
After imputation												
Difference between pre- and postimputation means	0.13	1.93	1.14*	1.86	1.78	0.63	1.18	0.58	2.17*	4.42*	4.03*	2.69*
Effect size for difference	#	‡	0.02	0.02	0.02	0.01	‡	0.01	0.02	0.06	0.05	0.03

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit			
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting			
Variable	All students	Less-than-2-year	2-year				Less-than-4-year				Less-than-2-year	2-year	4-year
FINLITALL (Financial literacy: Correctly answered all three items)													
Before imputation													
Mean percent relative bias across characteristics	13.07	13.91	15.44	16.67	9.44	10.94	23.57	9.01	11.82	16.38	19.56	11.70	
Median percent relative bias across characteristics	10.97	11.68	12.41	15.06	5.38	6.08	19.86	5.15	8.21	11.11	13.12	8.30	
Percentage of characteristics with significant bias	78.23	26.32	65.14	57.69	51.40	58.18	22.73	39.42	54.29	44.79	38.83	34.26	
Median effect size	0.11	0.12	0.13	0.13	0.07	0.09	0.21	0.05	0.08	0.12	0.13	0.08	
After imputation													
Difference between pre- and postimputation means	0.03	1.41	0.99*	1.79	1.04	0.76	1.23	0.34	2.03*	3.82*	3.34*	1.17	
Effect size for difference	#	‡	0.01	0.02	0.01	0.01	‡	#	0.02	0.07	0.05	0.02	
FINLITTOT (Financial literacy: Number of correct responses)													
Before imputation													
Mean percent relative bias across characteristics	13.12	14.80	15.43	16.86	9.40	11.01	23.15	9.19	11.72	16.59	19.74	11.79	
Median percent relative bias across characteristics	11.23	12.71	12.24	15.33	5.20	6.96	19.86	5.28	8.21	11.75	12.87	7.71	
Percentage of characteristics with significant bias	78.23	31.17	65.14	58.10	45.79	57.27	17.05	36.54	53.33	43.75	39.81	37.96	
Median effect size	0.11	0.12	0.12	0.13	0.07	0.08	0.21	0.05	0.08	0.13	0.13	0.08	
After imputation													
Difference between pre- and postimputation means	0.86*	2.32	0.31	1.82	0.94	1.49*	0.50	1.88*	2.64*	3.72*	5.00*	0.87	
Effect size for difference	0.01	‡	0.01	0.02	0.01	0.02	‡	0.02	0.04	0.06	0.06	0.01	

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting						
Variable	All students	Less-than-2-year	2-year				Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
GPA (Estimated grade point average)												
Before imputation												
Mean percent relative bias across characteristics	15.03	16.31	15.89	17.53	10.01	11.03	28.46	17.05	11.84	21.98	23.24	11.85
Median percent relative bias across characteristics	11.33	8.47	13.21	14.63	6.35	6.48	20.85	13.88	7.75	14.06	16.78	8.79
Percentage of characteristics with significant bias	75.81	2.60	68.81	60.58	46.30	58.18	11.49	33.33	55.24	19.59	28.85	30.56
Median effect size	0.14	0.15	0.14	0.12	0.08	0.08	0.25	0.16	0.10	0.12	0.17	0.09
After imputation												
Difference between pre- and postimputation means	0.41*	3.89*	0.84*	0.28	0.32	0.07	0.01	0.14	0.27*	3.05*	1.47*	0.48
Effect size for difference	0.02	0.25	0.03	0.01	0.02	#	#	0.01	0.02	0.17	0.08	0.02
GPACAT (Estimated grade point average [categorical])												
Before imputation												
Mean percent relative bias across characteristics	13.36	19.18	15.42	16.92	9.35	10.89	23.88	12.38	11.35	17.28	19.18	10.41
Median percent relative bias across characteristics	10.72	16.01	12.63	14.40	5.99	6.71	18.70	10.08	8.12	11.71	14.86	7.50
Percentage of characteristics with significant bias	79.84	25.32	68.81	62.50	48.60	60.00	14.94	45.19	53.33	44.33	31.07	38.32
Median effect size	0.12	0.17	0.14	0.13	0.08	0.08	0.20	0.11	0.09	0.12	0.13	0.08
After imputation												
Difference between pre- and postimputation means	0.70*	7.53	1.16*	1.63	1.24	0.71*	6.56*	1.56	1.20*	5.12*	3.78*	1.43
Effect size for difference	0.01	‡	0.02	‡	‡	0.01	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting		4-year, doctorate-granting			
Variable	All students	Less-than-2-year	2-year				Less-than-4-year	doctorate-granting	doctorate-granting	Less-than-2-year	2-year	4-year
GRNTSRC (Grant package by source of grant)												
Before imputation												
Mean percent relative bias across characteristics	13.79	15.44	17.86	15.71	11.02	11.21	31.58	14.69	11.15	33.59	35.68	15.47
Median percent relative bias across characteristics	10.33	10.88	14.89	12.16	8.21	5.91	21.74	8.61	6.87	30.06	23.03	9.70
Percentage of characteristics with significant bias	67.77	26.76	62.86	41.58	20.00	50.93	10.84	15.84	38.24	34.41	22.68	4.85
Median effect size	0.15	0.16	0.12	0.17	0.09	0.07	0.30	0.10	0.11	0.23	0.37	0.14
After imputation												
Difference between pre- and postimputation means	7.94*	‡	9.18*	7.91*	13.94*	4.98*	5.82	13.45	4.84	9.92*	10.37*	10.72*
Effect size for difference	0.08	‡	‡	‡	0.16	0.06	‡	‡	‡	‡	‡	‡
GRTCST (Ratio of grant aid to student budget)												
Before imputation												
Mean percent relative bias across characteristics	16.08	18.24	20.60	18.15	11.82	13.47	33.17	15.12	12.43	35.33	41.07	16.48
Median percent relative bias across characteristics	12.07	14.61	17.13	15.20	8.92	7.24	23.37	8.44	7.26	30.59	27.59	9.83
Percentage of characteristics with significant bias	73.55	25.71	65.71	47.52	23.08	50.00	14.63	14.85	38.24	30.43	16.49	5.77
Median effect size	0.17	0.19	0.14	0.22	0.10	0.09	0.34	0.11	0.11	0.26	0.41	0.13
After imputation												
Difference between pre- and postimputation means	0.35	4.87	4.50*	5.80	6.26*	0.21	0.67	4.28	0.39	5.13	4.77	9.56
Effect size for difference	#	0.03	0.03	0.04	0.06	#	0.01	0.05	#	0.06	0.05	0.10

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting						
Variable	All students	Less-than-2-year	2-year				Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
GRTPCT (Ratio of grants to total aid)												
Before imputation												
Mean percent relative bias across characteristics	20.26	26.00	32.53	28.74	15.67	15.52	38.01	18.25	15.77	44.01	43.24	18.78
Median percent relative bias across characteristics	16.68	22.48	28.08	27.06	10.57	9.97	26.98	11.10	11.15	40.62	38.00	11.64
Percentage of characteristics with significant bias	73.33	37.68	70.48	56.44	31.43	56.48	15.85	25.74	45.10	48.39	29.90	8.65
Median effect size	0.23	0.27	0.39	0.29	0.16	0.13	0.36	0.16	0.14	0.46	0.44	0.17
After imputation												
Difference between pre- and postimputation means	0.50	‡	1.17	0.49	0.50	2.29*	9.33	0.64	2.19	8.17*	1.64	9.15
Effect size for difference	0.01	‡	0.03	0.01	0.01	0.04	0.15	0.01	0.04	0.13	0.02	0.12
GRTPCTTN (Ratio of grant aid to tuition)												
Before imputation												
Mean percent relative bias across characteristics	15.05	15.56	19.09	16.86	12.28	12.58	32.28	15.05	11.86	34.85	39.74	15.71
Median percent relative bias across characteristics	11.91	10.86	16.44	14.69	8.08	6.40	22.68	8.62	7.45	29.39	26.63	9.33
Percentage of characteristics with significant bias	74.38	19.72	62.86	43.56	19.05	49.07	13.41	15.84	39.22	27.17	13.40	4.85
Median effect size	0.15	0.16	0.13	0.20	0.09	0.08	0.32	0.11	0.11	0.24	0.40	0.13
After imputation												
Difference between pre- and postimputation means	9.16*	‡	17.94*	5.69	15.88*	5.38*	13.43	13.93	1.68	8.16	0.55	14.60
Effect size for difference	0.01	‡	0.09	0.02	0.13	0.03	0.15	0.01	0.01	0.08	#	0.06

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
GRTSNEED (Grant amount exceeding federal need)												
Before imputation												
Mean percent relative bias across characteristics	32.60	48.25	44.76	41.07	27.91	30.14	48.34	29.17	29.49	51.76	60.19	32.35
Median percent relative bias across characteristics	25.35	33.67	35.26	34.66	25.58	22.19	38.59	26.96	21.02	53.92	49.77	29.76
Percentage of characteristics with significant bias	76.67	36.62	68.27	58.00	49.51	61.11	16.46	51.52	53.40	44.44	31.58	25.24
Median effect size	0.33	0.44	0.43	0.36	0.28	0.25	0.62	0.31	0.27	0.60	0.70	0.35
After imputation												
Difference between pre- and postimputation means	6.24*	11.61	4.24	21.04*	6.26	13.78*	18.10	5.05	4.84	71.78	21.64	48.12*
Effect size for difference	0.02	0.05	0.01	0.05	0.02	0.05	0.01	0.02	0.02	0.02	0.01	0.11
HCHONORS2 (Number of honors subjects [dependent students])												
Before imputation												
Mean percent relative bias across characteristics	31.10	67.67	25.08	33.81	20.91	20.87	42.85	24.43	23.40	56.72	50.97	60.42
Median percent relative bias across characteristics	27.94	55.33	18.01	23.88	14.13	11.34	29.40	17.81	16.40	46.02	26.44	46.86
Percentage of characteristics with significant bias	80.67	33.33	65.05	53.00	45.63	53.27	10.53	50.51	57.73	35.23	22.11	34.31
Median effect size	0.29	0.69	0.15	0.23	0.17	0.14	0.35	0.22	0.22	0.46	0.37	0.32
After imputation												
Difference between pre- and postimputation means	6.58*	56.76*	2.81	10.77	16.85*	6.99*	23.60	6.99*	3.80	45.69*	52.96*	11.03
Effect size for difference	0.08	‡	0.03	0.12	0.19	0.08	‡	0.09	0.04	0.52	0.56	0.12

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit			
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year	
HCMATHH12 (Highest level of math completed or planned [dependent students])													
Before imputation													
Mean percent relative bias across characteristics	23.60	27.62	23.51	26.53	15.23	16.33	42.02	17.83	19.31	32.55	35.46	47.33	
Median percent relative bias across characteristics	20.63	19.91	17.59	23.31	8.25	8.54	32.20	13.31	12.55	22.42	22.22	37.38	
Percentage of characteristics with significant bias	85.71	20.00	73.08	63.00	53.40	58.49	31.17	62.00	61.00	34.83	30.93	34.31	
Median effect size	0.21	0.21	0.17	0.17	0.11	0.10	0.35	0.16	0.12	0.19	0.25	0.35	
After imputation													
Difference between pre- and postimputation means	0.70*	‡	1.08*	1.84	0.99	0.41	‡	0.39	0.51	1.23	2.86	3.80	
Effect size for difference	0.01	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	
HOMESTUD (Student owns home or pays mortgage)													
Before imputation													
Mean percent relative bias across characteristics	12.81	18.69	15.50	16.78	11.28	13.01	23.37	17.62	17.38	15.99	22.23	12.04	
Median percent relative bias across characteristics	9.65	15.51	12.87	14.82	6.95	7.60	19.77	11.82	12.57	12.00	15.45	8.66	
Percentage of characteristics with significant bias	75.00	27.27	66.06	57.14	49.53	58.18	22.99	42.31	51.43	44.79	38.83	37.04	
Median effect size	0.10	0.15	0.12	0.14	0.07	0.10	0.21	0.14	0.14	0.12	0.17	0.09	
After imputation													
Difference between pre- and postimputation means	0.68*	1.64	0.75*	0.59	0.47	0.52	1.01	3.08	2.07*	1.00	1.01	0.28	
Effect size for difference	0.01	‡	0.01	0.01	0.01	0.01	0.01	0.04	0.03	0.02	0.02	#	

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
HSCRDAP (Took AP courses while in high school)												
Before imputation												
Mean percent relative bias across characteristics	16.75	16.57	18.36	20.62	11.28	12.59	30.60	13.04	14.85	20.08	22.83	23.71
Median percent relative bias across characteristics	14.42	12.85	15.16	16.91	6.61	7.30	25.20	9.01	9.29	15.79	16.17	19.52
Percentage of characteristics with significant bias	81.30	20.83	67.59	62.14	55.66	58.72	24.10	61.17	57.28	42.11	33.33	41.51
Median effect size	0.14	0.14	0.17	0.14	0.08	0.09	0.27	0.09	0.09	0.15	0.16	0.18
After imputation												
Difference between pre- and postimputation means	0.43	0.97	0.09	1.15	#	0.09	‡	0.75	1.29	1.16	1.27	1.41
Effect size for difference	#	‡	#	0.01	#	#	‡	0.01	0.01	0.01	0.01	0.01
HSCRDCOL (Took college-level courses while in high school)												
Before imputation												
Mean percent relative bias across characteristics	16.77	16.56	18.37	20.51	11.27	12.66	30.62	13.06	14.88	20.10	22.70	23.64
Median percent relative bias across characteristics	14.37	12.74	15.16	17.02	6.50	7.38	25.28	9.06	9.28	15.95	16.22	19.56
Percentage of characteristics with significant bias	82.11	22.22	67.59	62.14	56.60	59.63	24.10	61.17	59.22	41.05	33.33	41.51
Median effect size	0.14	0.14	0.16	0.14	0.08	0.09	0.27	0.09	0.09	0.15	0.16	0.18
After imputation												
Difference between pre- and postimputation means	0.20	1.13	0.27	0.02	0.90	0.43	3.03	0.28	0.31	1.77	0.34	0.93
Effect size for difference	#	‡	#	#	0.01	#	‡	#	#	0.02	#	0.01

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
HSCRDIB (Took IB courses while in high school)												
Before imputation												
Mean percent relative bias across characteristics	16.74	16.45	18.34	20.42	11.30	12.51	30.49	13.09	14.98	20.10	22.87	23.58
Median percent relative bias across characteristics	14.29	12.90	14.87	17.25	6.55	7.21	25.06	8.71	9.35	16.40	16.09	19.43
Percentage of characteristics with significant bias	82.93	22.22	67.59	62.14	55.66	58.72	21.69	61.17	59.22	41.05	30.39	39.62
Median effect size	0.14	0.14	0.17	0.14	0.08	0.09	0.26	0.09	0.09	0.15	0.16	0.18
After imputation												
Difference between pre- and postimputation means	0.03	0.08	0.10	0.18	#	#	0.06	#	0.21	0.43*	0.02	0.17
Effect size for difference	#	‡	#	‡	‡	#	‡	#	#	‡	‡	‡
HSGPA2 (Grade point average in high school [dependent students])												
Before imputation												
Mean percent relative bias across characteristics	24.81	29.06	23.99	27.65	15.88	16.94	43.86	19.67	21.44	32.92	40.21	47.92
Median percent relative bias across characteristics	21.50	24.40	18.37	21.67	9.81	9.34	36.99	15.58	14.08	22.43	30.20	38.98
Percentage of characteristics with significant bias	84.03	20.00	73.08	65.00	58.82	58.49	30.38	64.00	63.00	32.58	24.74	35.29
Median effect size	0.23	0.20	0.17	0.17	0.12	0.11	0.36	0.19	0.15	0.18	0.29	0.34
After imputation												
Difference between pre- and postimputation means	2.10*	‡	0.25	2.57*	0.41	1.23*	‡	1.67*	3.73*	4.27	8.02*	2.93
Effect size for difference	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
HSTKANY (Took any college credits in high school)												
Before imputation												
Mean percent relative bias across characteristics	16.75	16.57	18.34	20.64	11.25	12.61	30.62	13.09	15.01	20.10	22.91	23.64
Median percent relative bias across characteristics	14.43	12.94	15.02	17.37	6.51	7.25	25.26	8.96	9.36	15.42	16.42	19.64
Percentage of characteristics with significant bias	81.30	20.83	67.59	62.14	56.60	59.63	24.10	61.17	59.22	42.11	30.39	39.62
Median effect size	0.14	0.14	0.16	0.14	0.08	0.09	0.27	0.10	0.09	0.15	0.16	0.18
After imputation												
Difference between pre- and postimputation means	1.06*	2.24	0.17	2.06	0.94	0.91*	1.96	0.86	2.12*	1.06	0.90	0.88
Effect size for difference	0.01	‡	#	0.02	0.01	0.01	‡	0.01	0.03	0.01	0.01	0.01
HSTYPE (Type of high school last attended)												
Before imputation												
Mean percent relative bias across characteristics	13.37	17.72	15.50	16.96	9.50	10.89	24.18	9.31	12.21	16.56	19.89	12.41
Median percent relative bias across characteristics	11.50	14.76	12.50	15.36	5.56	6.64	21.34	5.14	8.57	11.49	12.90	8.16
Percentage of characteristics with significant bias	78.23	29.73	65.14	58.65	50.47	61.82	22.62	43.27	58.10	42.71	35.92	33.64
Median effect size	0.12	0.15	0.13	0.13	0.07	0.09	0.22	0.06	0.09	0.12	0.14	0.08
After imputation												
Difference between pre- and postimputation means	0.25	0.74	0.64*	0.38	0.05	0.17	1.33	1.68*	1.03*	0.70	0.30	1.74*
Effect size for difference	#	‡	0.01	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting		
Variable	All students	Less-than-2-year	2-year				Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
IMMIMAGE (Age when arrived in the United States)												
Before imputation												
Mean percent relative bias across characteristics	23.58	49.86	33.01	32.92	26.22	27.75	46.46	29.50	24.32	39.89	42.97	36.76
Median percent relative bias across characteristics	13.93	48.22	23.91	22.42	19.57	19.40	35.20	19.53	16.58	21.26	26.40	22.60
Percentage of characteristics with significant bias	70.97	42.47	69.72	49.52	50.48	56.36	24.42	42.31	34.58	17.71	19.61	19.44
Median effect size	0.14	0.33	0.19	0.24	0.20	0.18	0.40	0.19	0.14	0.19	0.35	0.25
After imputation												
Difference between pre- and postimputation means	1.59*	‡	4.40*	7.11*	4.27	1.83	‡	0.64	6.77	4.60	5.84*	5.08
Effect size for difference	0.02	‡	0.05	‡	‡	0.02	‡	‡	‡	‡	‡	‡
IMMIGEN (Immigrant generational status)												
Before imputation												
Mean percent relative bias across characteristics	13.65	13.96	16.18	17.30	9.94	11.43	24.60	10.05	12.22	16.35	22.21	11.84
Median percent relative bias across characteristics	11.03	11.61	12.81	14.69	6.13	6.58	21.54	5.75	8.96	11.26	15.93	8.17
Percentage of characteristics with significant bias	79.84	30.26	66.97	58.65	50.47	55.45	21.59	38.46	55.24	44.79	37.86	34.26
Median effect size	0.12	0.13	0.13	0.14	0.08	0.09	0.22	0.06	0.09	0.13	0.17	0.08
After imputation												
Difference between pre- and postimputation means	1.61*	4.20*	2.45*	3.12*	3.58*	0.88*	2.04	1.47*	0.86*	1.79	1.26	2.50
Effect size for difference	0.02	‡	0.03	0.05	0.05	0.02	‡	0.03	0.02	‡	0.02	0.03

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting		
Variable	All students	Less-than-2-year	2-year				Less-than-4-year			Less-than-2-year	2-year	4-year
IMMIGRA (Immigrant status)												
Before imputation												
Mean percent relative bias across characteristics	13.03	14.91	15.79	16.85	9.44	10.94	23.29	9.35	11.44	16.13	19.19	11.60
Median percent relative bias across characteristics	10.89	12.01	12.47	14.64	5.26	6.52	19.53	5.36	8.15	10.53	13.34	7.99
Percentage of characteristics with significant bias	78.23	27.63	65.14	57.69	50.47	60.00	20.93	40.38	55.24	46.88	30.10	34.26
Median effect size	0.11	0.13	0.13	0.13	0.07	0.09	0.20	0.06	0.08	0.13	0.12	0.08
After imputation												
Difference between pre- and postimputation means	2.12*	2.70	3.58*	2.57	3.23*	0.96*	0.33	1.51*	0.83	1.78	1.56	1.96
Effect size for difference	0.04	‡	0.05	‡	‡	‡	‡	‡	‡	‡	‡	‡
INATHAMT (Athletic scholarships)												
Before imputation												
Mean percent relative bias across characteristics	12.56	16.45	14.67	15.28	11.02	10.73	24.36	11.04	12.26	22.41	23.09	10.25
Median percent relative bias across characteristics	8.58	10.55	11.35	12.80	6.20	5.33	19.33	6.04	7.31	17.69	13.69	6.67
Percentage of characteristics with significant bias	74.19	22.67	64.22	55.77	44.44	53.64	14.46	25.00	47.17	40.63	26.21	33.64
Median effect size	0.10	0.11	0.11	0.11	0.06	0.08	0.23	0.06	0.07	0.19	0.18	0.08
After imputation												
Difference between pre- and postimputation means	0.35	‡	0.10	2.29	4.56	1.54	#	2.79	0.24	#	100.00	6.67
Effect size for difference	#	‡	#	#	#	#	‡	#	#	‡	0.05	#

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit			
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting			
Variable	All students	Less-than-2-year	2-year				Less-than-4-year				Less-than-2-year	2-year	4-year
INCOME (Total income by dependency [categorical])													
Before imputation													
Mean percent relative bias across characteristics	21.59	20.91	10.92	11.27	9.64	11.73	8.99	13.29	12.81		8.86	12.51	12.52
Median percent relative bias across characteristics	15.07	11.16	6.08	6.32	4.23	6.31	3.95	6.69	8.04		3.65	8.06	8.84
Percentage of characteristics with significant bias	79.03	29.27	70.11	56.58	47.37	62.07	36.84	52.05	57.14		41.38	35.94	43.08
Median effect size	0.22	0.28	0.09	0.08	0.06	0.07	0.06	0.09	0.12		0.05	0.12	0.10
After imputation													
Difference between pre- and postimputation means	12.85*	48.87	16.00*	16.85*	9.38*	12.72*	‡	9.87*	14.87*		7.29*	2.05	13.17*
Effect size for difference	0.16	‡	0.19	‡	‡	0.15	‡	‡	‡		‡	‡	‡
INCPCT1 (Student budget as percentage of income)													
Before imputation													
Mean percent relative bias across characteristics	24.14	37.83	29.97	29.45	22.10	23.67	32.34	22.09	25.54		27.78	31.85	22.19
Median percent relative bias across characteristics	18.39	30.95	20.04	24.83	18.17	14.70	29.66	14.61	16.24		24.30	25.61	17.94
Percentage of characteristics with significant bias	80.65	41.89	73.39	66.67	65.74	68.18	28.57	69.23	67.62		56.25	41.75	37.61
Median effect size	0.25	0.41	0.24	0.26	0.22	0.17	0.33	0.21	0.22		0.24	0.30	0.16
After imputation													
Difference between pre- and postimputation means	10.07*	20.70	13.79*	11.38*	8.46*	7.67*	1.87	6.19*	6.89*		2.77*	3.44*	9.49*
Effect size for difference	0.14	0.23	0.17	0.14	0.12	0.11	0.04	0.10	0.12		0.08	0.09	0.16

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
INCPCT2 (Tuition as percentage of income)												
Before imputation												
Mean percent relative bias across characteristics	23.54	37.00	29.07	28.19	20.92	23.00	30.74	21.38	25.23	25.26	31.86	21.34
Median percent relative bias across characteristics	17.57	30.21	18.28	23.14	15.00	12.87	27.95	14.42	16.31	18.98	27.02	17.80
Percentage of characteristics with significant bias	80.65	42.67	74.31	69.52	70.37	66.36	28.57	65.38	68.27	50.00	40.78	40.74
Median effect size	0.23	0.40	0.22	0.23	0.21	0.16	0.31	0.19	0.22	0.19	0.31	0.16
After imputation												
Difference between pre- and postimputation means	11.93*	15.21	19.72*	15.25*	7.83*	7.34*	1.54	7.10*	6.79*	2.74*	1.81	9.87*
Effect size for difference	0.11	0.11	0.13	0.10	0.07	0.07	0.02	0.09	0.09	0.06	0.03	0.12
INCQUART (Income quartile)												
Before imputation												
Mean percent relative bias across characteristics	21.59	35.87	26.76	26.81	18.90	21.40	27.64	20.63	24.24	21.59	27.40	21.16
Median percent relative bias across characteristics	15.07	30.49	17.78	20.25	12.55	10.49	26.68	14.70	15.69	17.66	25.43	18.44
Percentage of characteristics with significant bias	79.03	42.67	77.06	66.35	66.67	66.36	34.52	68.27	69.23	50.00	42.72	45.87
Median effect size	0.22	0.37	0.22	0.24	0.19	0.14	0.28	0.19	0.21	0.19	0.27	0.15
After imputation												
Difference between pre- and postimputation means	12.41*	17.83	15.35*	15.79*	9.44*	12.02*	3.36*	9.86*	14.59*	4.27*	1.22*	10.49*
Effect size for difference	0.15	0.22	0.18	0.18	0.12	0.14	‡	0.11	0.16	0.07	0.02	0.13

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
		Less- than- 2-year	2-year	4-year, non- doctorate- granting, primarily subbacca- laureate	4-year, non- doctorate- granting, primarily bacca- laureate	4-year, doctorate- granting	Less- than- 4-year	4-year, non- doctorate- granting	4-year, doctorate- granting	Less- than- 2-year	2-year	4-year
Variable	All students											
INDEPINC (Independent students: student and spouse's income)												
Before imputation												
Mean percent relative bias across characteristics	33.46	46.30	38.71	38.29	32.09	43.11	34.01	36.54	41.46	26.06	34.99	22.56
Median percent relative bias across characteristics	24.46	45.93	32.88	33.45	20.11	26.87	33.95	31.61	34.11	18.99	32.11	18.64
Percentage of characteristics with significant bias	69.35	50.67	71.56	64.42	55.14	62.73	41.67	61.17	54.81	51.04	47.57	43.12
Median effect size	0.34	0.52	0.39	0.35	0.26	0.26	0.36	0.34	0.43	0.25	0.33	0.18
After imputation												
Difference between pre- and postimputation means	19.18*	18.99	20.90*	20.00*	23.38*	19.27*	1.25	16.74*	15.48*	7.61*	2.17*	16.73*
Effect size for difference	0.17	0.17	0.20	0.19	0.18	0.16	0.01	0.15	0.15	0.06	0.02	0.15
INGRTAMT (Institution grants total)												
Before imputation												
Mean percent relative bias across characteristics	15.48	‡	9.49	7.88	6.05	6.28	17.16	10.41	5.77	19.34	22.67	11.42
Median percent relative bias across characteristics	10.91	‡	4.73	3.12	2.21	1.31	7.58	5.17	2.05	10.71	11.49	4.50
Percentage of characteristics with significant bias	74.80	‡	39.22	41.79	14.94	12.77	0.00	1.20	9.64	16.22	11.76	0.00
Median effect size	0.14	‡	0.06	0.06	0.04	0.02	0.11	0.06	0.03	0.16	0.18	0.05
After imputation												
Difference between pre- and postimputation means	7.01*	‡	10.78	5.50	2.96	2.97*	6.22	13.02	3.58*	69.52*	36.90	2.00
Effect size for difference	0.02	‡	0.02	0.01	0.01	0.01	0.02	0.10	0.03	0.08	0.06	0.01

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit			
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting			
Variable	All students	Less-than-2-year	2-year				Less-than-4-year				Less-than-2-year	2-year	4-year
INLNAMT (Institution loans)													
Before imputation													
Mean percent relative bias across characteristics	11.57	13.90	13.24	14.27	9.58	10.11	20.59	9.22	11.15		26.61	24.91	12.89
Median percent relative bias across characteristics	8.09	10.11	10.12	11.96	5.49	5.32	16.55	3.85	6.45		20.63	14.78	7.47
Percentage of characteristics with significant bias	75.00	24.00	60.55	54.37	39.81	54.55	17.07	25.00	51.43		42.27	27.18	27.10
Median effect size	0.09	0.10	0.14	0.11	0.05	0.07	0.18	0.04	0.06		0.21	0.20	0.10
After imputation													
Difference between pre- and postimputation means	0.74	‡	4.52	1.37	7.59	2.63	‡	7.89	4.81		28.14	4.88	8.93
Effect size for difference	#	‡	#	#	#	#	‡	#	#		0.01	#	#
INSMERIT (Institution merit-only grants)													
Before imputation													
Mean percent relative bias across characteristics	12.54	16.45	14.67	15.28	11.03	10.72	24.36	11.05	12.20		22.41	23.11	10.25
Median percent relative bias across characteristics	8.58	10.55	11.29	12.80	6.22	5.31	19.33	6.01	7.32		17.69	13.70	6.67
Percentage of characteristics with significant bias	74.19	22.67	64.22	55.77	44.44	53.64	14.46	25.00	47.17		40.63	26.21	33.64
Median effect size	0.10	0.11	0.11	0.11	0.06	0.08	0.23	0.06	0.07		0.19	0.18	0.08
After imputation													
Difference between pre- and postimputation means	1.27	‡	2.00	2.21	2.29	1.19	22.06	2.04	1.65		99.04	68.98	5.21
Effect size for difference	#	‡	#	#	0.01	#	0.04	0.01	0.01		0.06	0.08	0.01

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit			
		Less- than- 2-year	2-year	4-year, non- doctorate- granting, primarily subbacca- laureate	4-year, non- doctorate- granting, primarily bacca- laureate	4-year, doctorate- granting	Less- than- 4-year	4-year, non- doctorate- granting	4-year, doctorate- granting	Less- than- 2-year	2-year	4-year	
Variable	All students												
INSMILAMT (Institution military/Armed Forces grants)													
Before imputation													
Mean percent relative bias across characteristics	15.51	15.44	20.43	18.73	12.81	13.10	26.64	16.59	13.95	31.88	36.22	15.04	
Median percent relative bias across characteristics	10.81	10.91	16.04	14.86	7.67	6.64	19.64	8.81	8.33	25.70	25.23	9.64	
Percentage of characteristics with significant bias	74.80	26.76	62.96	56.86	40.19	55.05	10.98	17.48	46.67	44.21	33.00	25.71	
Median effect size	0.14	0.16	0.15	0.14	0.08	0.08	0.28	0.12	0.09	0.27	0.32	0.12	
After imputation													
Difference between pre- and postimputation means	4.81	‡	42.79	9.83	12.39	5.40	#	31.57	7.49	48.00	65.34	20.48*	
Effect size for difference	#	‡	#	#	0.01	#	‡	0.01	#	0.01	0.02	0.01	
INSTAMT (Institution aid total)													
Before imputation													
Mean percent relative bias across characteristics	15.48	‡	9.49	7.88	6.05	6.28	17.16	10.38	5.77	19.34	22.67	11.42	
Median percent relative bias across characteristics	10.92	‡	4.71	3.12	2.21	1.31	7.58	5.16	2.05	10.71	11.49	4.50	
Percentage of characteristics with significant bias	74.80	‡	39.22	41.79	14.94	12.77	0.00	1.20	9.64	16.22	11.76	0.00	
Median effect size	0.14	‡	0.06	0.06	0.04	0.02	0.11	0.06	0.03	0.16	0.18	0.05	
After imputation													
Difference between pre- and postimputation means	7.03*	‡	10.84	5.47	3.09	3.02*	5.91	13.01	3.62*	58.97*	23.30	2.40	
Effect size for difference	0.02	‡	0.02	0.01	0.01	0.01	0.02	0.10	0.03	0.07	0.04	0.01	

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
INSTGPCT (Ratio of institution grants to total aid)												
Before imputation												
Mean percent relative bias across characteristics	20.26	26.00	32.53	28.74	15.67	15.52	38.01	18.25	15.77	44.01	43.24	18.78
Median percent relative bias across characteristics	16.68	22.48	28.08	27.06	10.57	9.97	26.98	11.10	11.15	40.62	38.00	11.64
Percentage of characteristics with significant bias	73.33	37.68	70.48	56.44	31.43	56.48	15.85	25.74	45.10	48.39	29.90	8.65
Median effect size	0.23	0.27	0.39	0.29	0.16	0.13	0.36	0.16	0.14	0.46	0.44	0.17
After imputation												
Difference between pre- and postimputation means	14.79*	‡	29.55*	10.66	24.77*	8.64*	19.04	8.82	4.95	52.08*	10.73	24.28
Effect size for difference	0.08	‡	0.09	0.03	0.12	0.06	0.04	0.09	0.05	0.08	0.02	0.10
INSTNEED (Institution need-based grants)												
Before imputation												
Mean percent relative bias across characteristics	12.55	16.45	14.67	15.28	11.03	10.72	24.36	11.04	12.24	22.41	23.09	10.25
Median percent relative bias across characteristics	8.58	10.55	11.35	12.80	6.06	5.31	19.33	6.06	7.29	17.69	13.69	6.66
Percentage of characteristics with significant bias	74.19	22.67	64.22	55.77	44.44	53.64	14.46	25.00	47.17	40.63	26.21	33.64
Median effect size	0.10	0.11	0.11	0.11	0.06	0.08	0.23	0.06	0.07	0.19	0.18	0.08
After imputation												
Difference between pre- and postimputation means	0.44	‡	6.01	2.13	3.82	1.36	1.84	4.80	1.52	35.66	36.39	16.85
Effect size for difference	#	‡	0.01	#	0.01	#	#	0.02	0.01	0.02	0.03	0.02

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
		Less- than- 2-year	2-year	4-year, non- doctorate- granting, primarily subbacca- laureate	4-year, non- doctorate- granting, primarily bacca- laureate	4-year, doctorate- granting	Less- than- 4-year	4-year, non- doctorate- granting	4-year, doctorate- granting	Less- than- 2-year	2-year	4-year
Variable	All students											
INSTNOND (Institution nonneed and merit grants)												
Before imputation												
Mean percent relative bias across characteristics	15.49	15.44	20.41	18.73	12.83	13.10	26.64	16.59	13.92	31.88	36.24	15.04
Median percent relative bias across characteristics	10.89	10.91	16.04	14.86	7.47	6.66	19.64	8.87	8.55	25.70	25.20	9.64
Percentage of characteristics with significant bias	74.80	26.76	62.96	56.86	41.12	55.05	10.98	17.48	46.67	44.21	33.00	25.71
Median effect size	0.14	0.16	0.15	0.14	0.08	0.08	0.28	0.11	0.09	0.27	0.32	0.12
After imputation												
Difference between pre- and postimputation means	6.22*	‡	3.47	9.14	0.65	3.98*	10.54	11.29	2.21	87.01*	40.15	5.68
Effect size for difference	0.02	‡	#	0.01	#	0.01	0.02	0.07	0.01	0.08	0.06	0.02
INSTNOND1 (Institution nonneed grants)												
Before imputation												
Mean percent relative bias across characteristics	15.50	15.44	20.41	18.73	12.82	13.10	26.64	16.59	13.96	31.88	36.22	15.04
Median percent relative bias across characteristics	10.83	10.91	16.04	14.86	7.44	6.64	19.64	8.81	8.31	25.70	25.23	9.64
Percentage of characteristics with significant bias	74.80	26.76	62.96	56.86	41.12	55.05	10.98	17.48	46.67	44.21	33.00	25.71
Median effect size	0.14	0.16	0.15	0.14	0.08	0.08	0.28	0.12	0.09	0.27	0.32	0.12
After imputation												
Difference between pre- and postimputation means	6.25*	‡	2.77	23.08	4.04	3.69*	9.30	5.79	4.01	77.65	1.61	2.29
Effect size for difference	0.01	‡	#	0.02	0.01	0.01	0.02	0.01	0.01	0.07	#	0.01

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit			
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting			
Variable	All students	Less-than-2-year	2-year				Less-than-4-year				Less-than-2-year	2-year	4-year
INSTPACK (Aid package with institution aid)													
Before imputation													
Mean percent relative bias across characteristics	14.57	15.34	19.89	17.92	12.54	12.83	27.98	16.27	13.28		31.85	35.81	15.41
Median percent relative bias across characteristics	9.72	10.82	16.41	13.84	6.43	6.29	19.91	8.03	6.68		26.35	24.76	9.77
Percentage of characteristics with significant bias	73.17	25.35	65.74	55.34	28.97	52.29	10.71	16.35	38.10		44.21	32.00	18.69
Median effect size	0.13	0.16	0.14	0.15	0.11	0.07	0.28	0.10	0.10		0.27	0.32	0.11
After imputation													
Difference between pre- and postimputation means	3.79*	‡	2.30*	3.59*	11.58*	5.23*	3.93	7.08*	7.29*		1.84	7.84	2.11
Effect size for difference	0.05	‡	0.05	‡	0.14	0.06	‡	0.09	0.08		‡	‡	‡
INSTPCT (Ratio of institution aid to total aid)													
Before imputation													
Mean percent relative bias across characteristics	20.26	26.00	32.53	28.74	15.67	15.52	38.01	18.25	15.77		44.01	43.24	18.78
Median percent relative bias across characteristics	16.68	22.48	28.08	27.06	10.57	9.97	26.98	11.10	11.15		40.62	38.00	11.64
Percentage of characteristics with significant bias	73.33	37.68	70.48	56.44	31.43	56.48	15.85	25.74	45.10		48.39	29.90	8.65
Median effect size	0.23	0.27	0.39	0.29	0.16	0.13	0.36	0.16	0.14		0.46	0.44	0.17
After imputation													
Difference between pre- and postimputation means	14.86*	‡	29.59*	10.69	24.61*	8.81*	18.58	9.04	4.99		48.09*	25.04	24.68
Effect size for difference	0.09	‡	0.09	0.03	0.12	0.06	0.04	0.10	0.06		0.08	0.06	0.10

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
INSWAIV (Institution tuition and fee waivers)												
Before imputation												
Mean percent relative bias across characteristics	15.51	15.44	20.43	18.73	12.81	13.10	26.64	16.59	13.95	31.88	36.22	15.04
Median percent relative bias across characteristics	10.81	10.91	16.04	14.86	7.67	6.63	19.64	8.81	8.33	25.70	25.23	9.64
Percentage of characteristics with significant bias	74.80	26.76	62.96	56.86	40.19	55.05	10.98	17.48	46.67	44.21	33.00	25.71
Median effect size	0.14	0.16	0.15	0.14	0.08	0.08	0.28	0.12	0.09	0.27	0.32	0.12
After imputation												
Difference between pre- and postimputation means	5.98*	‡	29.15*	26.01*	13.65	3.59	7.01	0.48	3.84	100.00	79.98	13.02
Effect size for difference	#	‡	0.02	0.01	0.02	#	0.01	#	#	0.04	0.06	0.02
ISTUINC (Independent students: Income [continuous])												
Before imputation												
Mean percent relative bias across characteristics	32.61	45.84	37.72	36.36	31.68	42.52	33.14	34.41	40.38	25.84	34.24	22.15
Median percent relative bias across characteristics	23.71	45.50	31.89	30.53	20.54	26.40	31.82	29.17	31.49	18.88	30.91	17.93
Percentage of characteristics with significant bias	67.74	50.67	72.48	61.54	57.94	62.73	39.29	63.11	55.77	51.04	47.57	42.20
Median effect size	0.34	0.51	0.39	0.33	0.26	0.26	0.35	0.33	0.40	0.25	0.31	0.18
After imputation												
Difference between pre- and postimputation means	21.19*	22.74	23.61*	23.72*	22.69*	20.48*	1.36	21.68*	19.71*	4.55*	1.09	16.56*
Effect size for difference	0.19	0.22	0.22	0.22	0.20	0.17	0.01	0.18	0.17	0.04	0.01	0.16

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
JOBMAJOR (Jobs while enrolled: Related to major or field of study [excl. work-study/fellowship])												
Before imputation												
Mean percent relative bias across characteristics	14.18	15.51	15.64	17.09	10.22	11.58	23.35	9.40	13.26	20.33	23.12	11.40
Median percent relative bias across characteristics	11.16	11.92	13.78	13.85	6.10	6.71	17.87	5.05	10.19	15.16	14.88	8.30
Percentage of characteristics with significant bias	77.42	16.00	68.81	61.54	48.60	57.27	17.65	33.98	53.33	40.00	34.95	32.71
Median effect size	0.11	0.12	0.11	0.11	0.08	0.09	0.22	0.06	0.10	0.13	0.17	0.08
After imputation												
Difference between pre- and postimputation means	0.16	‡	0.52	0.01	0.32	0.16	‡	0.42	0.65	5.23*	1.61	0.29
Effect size for difference	#	‡	0.01	#	#	#	‡	#	0.01	0.06	0.02	#
JOBMAJOR2 (Jobs while enrolled: Related to major or field of study [incl. work-study/fellowship])												
Before imputation												
Mean percent relative bias across characteristics	13.47	16.36	15.37	16.76	9.81	11.22	23.45	9.07	11.74	20.39	23.30	11.17
Median percent relative bias across characteristics	10.73	13.71	13.60	13.12	5.45	6.66	17.75	4.42	7.80	15.58	15.48	8.30
Percentage of characteristics with significant bias	76.61	16.00	66.97	59.62	46.73	56.36	17.65	22.12	42.45	41.05	34.95	34.58
Median effect size	0.11	0.13	0.11	0.11	0.07	0.08	0.22	0.06	0.09	0.14	0.17	0.07
After imputation												
Difference between pre- and postimputation means	1.09*	‡	1.02*	0.66	0.26	1.29*	‡	0.05	0.86	5.20*	1.53	0.57
Effect size for difference	0.01	‡	0.01	0.01	#	0.01	‡	#	0.01	0.06	0.02	0.01

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
JOBMAJOR3 (Job: Related to major or field of study [incl. work-study/fellowship])												
Before imputation												
Mean percent relative bias across characteristics	12.99	13.47	15.02	15.96	9.60	10.73	22.88	8.43	11.06	18.22	22.27	10.60
Median percent relative bias across characteristics	10.16	9.84	13.19	12.24	5.86	6.42	17.99	3.94	7.30	12.54	14.60	7.87
Percentage of characteristics with significant bias	78.23	14.67	65.14	54.81	46.73	56.36	20.00	22.12	41.51	37.89	35.92	31.78
Median effect size	0.11	0.10	0.10	0.11	0.07	0.08	0.21	0.05	0.08	0.12	0.16	0.07
After imputation												
Difference between pre- and postimputation means	1.12*	‡	1.01*	1.08	0.59	1.12*	‡	0.22	1.05	3.30*	1.51	0.86
Effect size for difference	0.01	‡	0.01	0.01	0.01	0.01	‡	#	0.01	0.04	0.02	0.01
JOBONOFF (Jobs while enrolled: Located primarily on or off campus [excl. work-study/fellowship])												
Before imputation												
Mean percent relative bias across characteristics	14.15	16.13	15.60	16.94	10.21	11.64	23.41	9.43	13.20	20.41	23.01	11.27
Median percent relative bias across characteristics	11.19	12.80	13.91	13.63	6.03	6.68	18.41	5.18	10.26	15.68	14.97	8.32
Percentage of characteristics with significant bias	77.42	18.67	68.81	60.58	48.60	58.18	17.65	36.89	52.38	40.00	36.89	31.78
Median effect size	0.11	0.14	0.11	0.11	0.08	0.09	0.22	0.06	0.10	0.13	0.17	0.08
After imputation												
Difference between pre- and postimputation means	0.09	‡	0.61*	0.57	0.22	0.14	0.23	0.15	0.13	1.44*	0.49	#
Effect size for difference	#	‡	0.02	‡	‡	#	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
JOBROLE (Job: Primary role as student or employee [excluding work-study/fellowship])												
Before imputation												
Mean percent relative bias across characteristics	12.86	18.62	15.34	16.39	11.10	13.27	25.24	15.04	15.00	22.13	25.35	11.63
Median percent relative bias across characteristics	8.99	14.58	13.60	13.08	6.26	8.59	19.92	10.14	9.56	15.04	17.73	8.00
Percentage of characteristics with significant bias	70.97	21.33	70.64	57.69	42.06	56.36	20.93	37.50	43.40	37.50	35.92	29.91
Median effect size	0.09	0.16	0.10	0.10	0.07	0.10	0.24	0.14	0.11	0.14	0.19	0.09
After imputation												
Difference between pre- and postimputation means	2.42*	5.26	1.13*	3.02*	1.27	1.16	1.96*	5.34*	4.43*	2.74	1.48	0.88
Effect size for difference	0.03	‡	0.01	0.03	0.02	0.02	‡	0.07	0.06	0.03	0.02	0.01
JOBROLE2 (Job: Primary role as student or employee [including work-study/fellowship])												
Before imputation												
Mean percent relative bias across characteristics	13.08	18.58	15.49	16.73	11.29	13.36	25.20	11.76	15.01	22.13	25.38	11.60
Median percent relative bias across characteristics	9.37	14.49	13.79	13.21	6.55	7.49	19.98	7.33	10.53	15.08	17.83	8.25
Percentage of characteristics with significant bias	71.77	20.00	70.64	56.73	43.93	58.18	20.93	31.73	52.83	37.50	35.92	28.97
Median effect size	0.09	0.16	0.10	0.11	0.07	0.11	0.24	0.09	0.13	0.14	0.19	0.08
After imputation												
Difference between pre- and postimputation means	3.20*	5.23	1.38*	2.94*	1.42	1.32*	1.74	7.44*	5.12*	2.75	1.47	0.94
Effect size for difference	0.04	‡	0.02	0.03	0.02	0.02	‡	0.10	0.07	0.03	0.02	0.01

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
JOBTYPE2 (Type of job student had while enrolled [including work-study/fellowship])												
Before imputation												
Mean percent relative bias across characteristics	14.40	16.33	15.71	16.98	10.12	11.69	23.50	9.73	13.38	20.40	23.27	11.12
Median percent relative bias across characteristics	11.69	13.07	14.20	13.80	6.30	7.36	18.13	5.49	11.03	15.64	15.48	8.18
Percentage of characteristics with significant bias	79.84	16.00	68.81	60.58	48.60	58.18	17.65	40.38	55.24	40.00	34.95	30.84
Median effect size	0.12	0.13	0.11	0.11	0.08	0.09	0.22	0.07	0.11	0.13	0.17	0.07
After imputation												
Difference between pre- and postimputation means	0.07	‡	0.05	0.01	0.02	0.03	0.20	1.48*	0.37	0.13	0.20	0.03
Effect size for difference	#	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
LNREPAY (Expect help with repaying student loans)												
Before imputation												
Mean percent relative bias across characteristics	34.47	57.61	49.68	52.89	28.55	27.55	37.37	25.58	28.65	34.75	39.22	25.17
Median percent relative bias across characteristics	31.69	59.88	36.57	45.43	21.49	15.36	31.20	16.65	19.87	29.79	29.82	19.47
Percentage of characteristics with significant bias	76.61	56.94	75.23	66.35	62.04	63.96	20.45	49.04	56.07	42.27	35.29	33.33
Median effect size	0.36	0.58	0.42	0.34	0.24	0.25	0.33	0.25	0.22	0.32	0.38	0.27
After imputation												
Difference between pre- and postimputation means	1.56*	2.86	5.32*	5.02	3.20	3.23*	11.31*	1.58	0.51	0.89	3.57	7.65*
Effect size for difference	0.02	‡	0.07	0.06	0.04	0.04	0.16	0.02	0.01	0.01	0.05	0.11

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non- doctorate- granting, primarily subbacca- laureate	4-year, non- doctorate- granting, primarily bacca- laureate	4-year, doctorate- granting						
Variable	All students	Less- than- 2-year	2-year				Less- than- 4-year	4-year, non- doctorate- granting	4-year, doctorate- granting	Less- than- 2-year	2-year	4-year
LOANCST2 (Ratio of loans to student budget [includes Parent PLUS Loans])												
Before imputation												
Mean percent relative bias across characteristics	15.47	18.29	18.19	18.66	12.35	13.36	27.73	13.35	13.30	31.35	31.32	16.99
Median percent relative bias across characteristics	11.95	14.03	12.96	15.03	6.83	6.92	19.29	6.36	7.26	25.78	23.27	10.52
Percentage of characteristics with significant bias	79.84	23.29	61.47	56.73	42.59	60.00	15.29	25.00	49.06	35.42	19.42	23.85
Median effect size	0.13	0.15	0.18	0.18	0.08	0.08	0.23	0.08	0.08	0.25	0.26	0.15
After imputation												
Difference between pre- and postimputation means	4.75*	9.63	11.15*	3.61	6.69*	2.59*	7.24	5.16*	4.44*	7.76	10.93	9.23
Effect size for difference	0.03	0.04	0.04	0.01	0.05	0.02	0.08	0.04	0.03	0.07	0.13	0.09
LOANLIT1 (Loan literacy: Govt. can report unpaid debt to credit bureaus)												
Before imputation												
Mean percent relative bias across characteristics	12.84	15.95	15.43	16.75	9.25	10.80	23.30	8.83	11.70	16.07	19.20	11.24
Median percent relative bias across characteristics	10.50	13.22	12.17	14.54	5.06	6.02	20.35	4.96	8.23	11.88	13.16	7.66
Percentage of characteristics with significant bias	79.03	28.57	66.97	58.65	49.53	58.18	22.35	41.35	55.24	45.83	38.83	36.11
Median effect size	0.11	0.13	0.12	0.13	0.07	0.09	0.22	0.05	0.08	0.12	0.13	0.08
After imputation												
Difference between pre- and postimputation means	0.44	3.85	0.19	0.76	0.97	0.65	1.53	0.12	0.69	0.24	1.63	1.24
Effect size for difference	#	0.04	#	0.01	0.01	0.01	0.02	#	0.01	#	0.02	0.01

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
		Less- than- 2-year	2-year	4-year, non- doctorate- granting, primarily subbacca- laureate	4-year, non- doctorate- granting, primarily bacca- laureate	4-year, doctorate- granting	Less- than- 4-year	4-year, non- doctorate- granting	4-year, doctorate- granting	Less- than- 2-year	2-year	4-year
Variable	All students											
LOANLIT2 (Loan literacy: Govt. can garnish wages for unpaid fed. Loan debt)												
Before imputation												
Mean percent relative bias across characteristics	12.84	15.95	15.43	16.75	9.25	10.80	23.30	8.83	11.70	16.07	19.20	11.24
Median percent relative bias across characteristics	10.50	13.22	12.17	14.54	5.06	6.02	20.35	4.96	8.23	11.88	13.16	7.66
Percentage of characteristics with significant bias	79.03	28.57	66.97	58.65	49.53	58.18	22.35	41.35	55.24	45.83	38.83	36.11
Median effect size	0.11	0.13	0.12	0.13	0.07	0.09	0.22	0.05	0.08	0.12	0.13	0.08
After imputation												
Difference between pre- and postimputation means	0.10	1.39	0.28	0.24	0.42	0.10	2.39	0.99	1.38	0.59	0.15	0.49
Effect size for difference	#	0.01	#	#	#	#	0.02	0.01	0.01	0.01	#	#
LOANLIT3 (Loan literacy: Govt. can retain tax refunds, Soc. Sec. for loan debt)												
Before imputation												
Mean percent relative bias across characteristics	12.84	15.95	15.43	16.75	9.25	10.80	23.30	8.83	11.70	16.07	19.20	11.24
Median percent relative bias across characteristics	10.50	13.22	12.17	14.54	5.06	6.02	20.35	4.96	8.23	11.88	13.16	7.66
Percentage of characteristics with significant bias	79.03	28.57	66.97	58.65	49.53	58.18	22.35	41.35	55.24	45.83	38.83	36.11
Median effect size	0.11	0.13	0.12	0.13	0.07	0.09	0.22	0.05	0.08	0.12	0.13	0.08
After imputation												
Difference between pre- and postimputation means	0.22	2.30	0.39	0.20	0.56	0.21	3.73	0.23	1.44*	1.65	1.19	0.75
Effect size for difference	#	0.02	#	#	0.01	#	0.04	#	0.01	0.02	0.01	0.01

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit			
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year	
LOANLITALL (Loan literacy: Correctly answered all three items)													
Before imputation													
Mean percent relative bias across characteristics	12.84	15.95	15.43	16.75	9.25	10.80	23.30	8.83	11.70	16.07	19.20	11.24	
Median percent relative bias across characteristics	10.50	13.22	12.17	14.54	5.06	6.02	20.35	4.96	8.23	11.88	13.16	7.66	
Percentage of characteristics with significant bias	79.03	28.57	66.97	58.65	49.53	58.18	22.35	41.35	55.24	45.83	38.83	36.11	
Median effect size	0.11	0.13	0.12	0.13	0.07	0.09	0.22	0.05	0.08	0.12	0.13	0.08	
After imputation													
Difference between pre- and postimputation means	0.19	0.53	0.33	0.03	0.20	0.34	1.79	0.81	1.41*	2.28	0.19	0.34	
Effect size for difference	#	‡	#	#	#	#	0.02	0.01	0.02	0.03	#	#	
LOANLITTOT (Loan literacy: Number of correct responses)													
Before imputation													
Mean percent relative bias across characteristics	12.84	15.95	15.43	16.75	9.25	10.80	23.30	8.83	11.70	16.07	19.20	11.24	
Median percent relative bias across characteristics	10.50	13.22	12.17	14.54	5.06	6.02	20.35	4.96	8.23	11.88	13.16	7.66	
Percentage of characteristics with significant bias	79.03	28.57	66.97	58.65	49.53	58.18	22.35	41.35	55.24	45.83	38.83	36.11	
Median effect size	0.11	0.13	0.12	0.13	0.07	0.09	0.22	0.05	0.08	0.12	0.13	0.08	
After imputation													
Difference between pre- and postimputation means	0.34	3.12	0.78	0.60	1.28*	0.42	6.28*	1.69*	1.42*	2.68	1.69	0.65	
Effect size for difference	#	‡	0.01	0.01	0.02	#	‡	0.02	0.02	0.04	0.02	0.01	

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit			
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year	
LOANPCT (Label1: Ratio of loans to total aid [excluding Parent PLUS Loans] Label2: Ratio of loans to total aid)													
Before imputation													
Mean percent relative bias across characteristics	20.26	26.00	32.53	28.74	15.67	15.52	38.01	18.25	15.77	44.01	43.24	18.78	
Median percent relative bias across characteristics	16.68	22.48	28.08	27.06	10.57	9.97	26.98	11.10	11.15	40.62	38.00	11.64	
Percentage of characteristics with significant bias	73.33	37.68	70.48	56.44	31.43	56.48	15.85	25.74	45.10	48.39	29.90	8.65	
Median effect size	0.23	0.27	0.39	0.29	0.16	0.13	0.36	0.16	0.14	0.46	0.44	0.17	
After imputation													
Difference between pre- and postimputation means	1.72	‡	2.90	1.94	1.18	3.26*	12.02	1.05	4.05	6.51	0.31	10.80	
Effect size for difference	0.01	‡	0.01	0.01	0.01	0.03	0.19	0.01	0.04	0.10	0.01	0.14	
LOANPCT2 (Ratio of loans to total aid [including Parent PLUS Loans])													
Before imputation													
Mean percent relative bias across characteristics	20.26	26.00	32.53	28.74	15.67	15.52	38.01	18.25	15.77	44.01	43.24	18.78	
Median percent relative bias across characteristics	16.68	22.48	28.08	27.06	10.57	9.97	26.98	11.10	11.15	40.62	38.00	11.64	
Percentage of characteristics with significant bias	73.33	37.68	70.48	56.44	31.43	56.48	15.85	25.74	45.10	48.39	29.90	8.65	
Median effect size	0.23	0.27	0.39	0.29	0.16	0.13	0.36	0.16	0.14	0.46	0.44	0.17	
After imputation													
Difference between pre- and postimputation means	1.77	‡	2.90	1.97	0.11	3.44*	10.66	0.57	4.70	6.69*	2.31	11.57	
Effect size for difference	0.01	‡	0.01	0.01	#	0.03	0.17	0.01	0.05	0.10	0.04	0.16	

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
		Less- than- 2-year	2-year	4-year, non- doctorate- granting, primarily subbacca- laureate	4-year, non- doctorate- granting, primarily bacca- laureate	4-year, doctorate- granting	Less- than- 4-year	4-year, non- doctorate- granting	4-year, doctorate- granting	Less- than- 2-year	2-year	4-year
Variable	All students											
LOANSRC (Loan package by source of loan)												
Before imputation												
Mean percent relative bias across characteristics	12.60	14.35	14.46	15.72	10.46	10.51	21.86	11.60	12.19	29.05	26.74	14.03
Median percent relative bias across characteristics	8.71	11.03	10.26	11.80	6.04	5.19	16.25	5.65	6.32	24.30	15.53	8.29
Percentage of characteristics with significant bias	75.00	17.57	61.47	58.65	35.19	52.73	12.94	25.96	48.11	40.21	26.21	25.93
Median effect size	0.10	0.10	0.13	0.11	0.06	0.07	0.19	0.06	0.07	0.23	0.21	0.11
After imputation												
Difference between pre- and postimputation means	3.98*	‡	4.09*	0.59	4.41*	2.61*	8.67	4.99*	4.26*	4.18*	10.36*	8.95
Effect size for difference	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
LOCALRES (Residence while enrolled)												
Before imputation												
Mean percent relative bias across characteristics	13.27	15.48	16.03	16.98	9.86	11.01	22.93	9.05	11.32	15.31	19.65	9.91
Median percent relative bias across characteristics	11.20	13.30	13.00	14.44	6.15	7.34	20.10	5.07	8.56	11.28	13.76	7.01
Percentage of characteristics with significant bias	77.42	31.58	66.06	57.69	54.21	62.73	19.05	50.49	54.29	46.32	42.72	37.74
Median effect size	0.12	0.13	0.14	0.12	0.08	0.09	0.22	0.07	0.09	0.12	0.15	0.07
After imputation												
Difference between pre- and postimputation means	1.98*	5.45	2.18*	1.11	0.98*	0.94*	3.27	0.95	0.66	3.23*	6.38*	1.33*
Effect size for difference	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit			
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year	
MAJCHGFQ (Majors: frequency of formally changed)													
Before imputation													
Mean percent relative bias across characteristics	14.90	‡	18.87	19.87	9.08	9.63	25.94	7.75	10.89	‡	19.84	11.46	
Median percent relative bias across characteristics	13.73	‡	15.50	17.92	6.17	6.70	20.07	5.32	8.23	‡	14.12	8.02	
Percentage of characteristics with significant bias	81.51	‡	66.04	59.80	52.88	57.01	22.09	38.61	57.84	‡	29.70	35.19	
Median effect size	0.16	‡	0.17	0.16	0.08	0.09	0.24	0.06	0.10	‡	0.16	0.08	
After imputation													
Difference between pre- and postimputation means	0.63*	‡	1.30*	2.94*	1.03	1.61*	0.24	0.18	0.31	‡	1.78*	0.72	
Effect size for difference	0.01	‡	0.02	0.03	0.01	0.02	‡	#	0.01	‡	‡	‡	
MEALPLANFQ (Meal plan: meal plan covered 11 or more meals per week)													
Before imputation													
Mean percent relative bias across characteristics	49.73	81.52	56.64	77.76	30.60	27.18	61.80	28.76	28.87	58.69	81.55	75.15	
Median percent relative bias across characteristics	45.67	68.01	38.35	52.74	23.51	18.09	56.79	21.38	22.93	24.51	59.62	69.4	
Percentage of characteristics with significant bias	88.71	32.88	63.03	45.93	60.34	63.87	25.29	56.25	65.49	11.90	35.87	48.65	
Median effect size	0.46	0.62	0.58	0.64	0.29	0.19	0.58	0.22	0.23	0.35	0.80	0.69	
After imputation													
Difference between pre- and postimputation means	0.17	‡	1.76	14.92*	0.19	0.03	‡	0.17	0.12	41.52*	‡	‡	
Effect size for difference	#	‡	0.02	0.20	#	#	‡	#	#	0.43	‡	‡	

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
Variable	All students											
MERITAID (Total merit-only grants)												
Before imputation												
Mean percent relative bias across characteristics	15.00	18.03	19.36	17.51	12.88	13.50	26.66	17.19	14.10	28.92	27.29	16.60
Median percent relative bias across characteristics	10.75	11.25	15.41	13.16	6.98	6.50	19.70	8.92	8.09	23.11	16.29	10.04
Percentage of characteristics with significant bias	72.58	22.67	62.39	58.65	43.52	54.55	10.84	17.31	46.23	39.18	26.73	24.30
Median effect size	0.13	0.14	0.14	0.12	0.08	0.08	0.28	0.11	0.09	0.24	0.23	0.12
After imputation												
Difference between pre- and postimputation means	4.25*	‡	0.03	2.44	3.30	2.78*	19.58	11.24	0.87	98.77	68.15	11.98
Effect size for difference	0.01	‡	#	#	0.01	0.01	0.03	0.07	#	0.06	0.09	0.02

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
MILTOT (Total federal and nonfederal military/Armed Forces grants)												
Before imputation												
Mean percent relative bias across characteristics	16.04	15.44	21.87	18.73	12.86	13.18	31.89	16.73	13.52	31.88	35.62	14.20
Median percent relative bias across characteristics	11.41	10.91	18.76	14.86	7.59	6.73	23.67	8.73	8.50	25.70	24.31	9.83
Percentage of characteristics with significant bias	76.42	26.76	66.67	56.86	41.12	54.13	10.84	17.48	46.15	44.21	32.32	25.00
Median effect size	0.15	0.16	0.16	0.14	0.08	0.08	0.29	0.12	0.10	0.27	0.32	0.12
After imputation												
Difference between pre- and postimputation means	5.76	‡	27.89	68.41	14.15	0.29	29.25	19.53	8.19	72.34	54.58	28.61
Effect size for difference	#	‡	#	0.01	0.01	#	0.01	0.01	#	0.01	0.02	0.02
MNTRENT (Monthly mortgage or rent amount)												
Before imputation												
Mean percent relative bias across characteristics	12.85	18.54	15.44	16.97	11.31	12.90	23.08	17.66	17.22	16.26	22.37	12.41
Median percent relative bias across characteristics	9.65	15.21	12.59	15.10	7.26	7.25	18.34	12.19	12.06	12.02	15.42	9.11
Percentage of characteristics with significant bias	75.00	28.57	66.06	57.14	49.53	59.09	17.24	43.27	48.57	42.71	38.83	37.04
Median effect size	0.10	0.14	0.12	0.14	0.07	0.10	0.21	0.14	0.14	0.13	0.17	0.09
After imputation												
Difference between pre- and postimputation means	1.00*	2.29	0.11	0.29	0.96	1.56*	2.04	4.28*	4.03*	4.04*	2.99	0.65
Effect size for difference	0.01	0.02	#	#	0.01	0.01	0.02	0.04	0.04	0.04	0.03	0.01

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
		Less- than- 2-year	2-year	4-year, non- doctorate- granting, primarily subbacca- laureate	4-year, non- doctorate- granting, primarily bacca- laureate	4-year, doctorate- granting	Less- than- 4-year	4-year, non- doctorate- granting	4-year, doctorate- granting	Less- than- 2-year	2-year	4-year
Variable	All students											
NEEDAID (Total need-based grant aid)												
Before imputation												
Mean percent relative bias across characteristics	15.44	15.44	20.33	18.62	12.76	13.43	27.12	16.51	14.10	31.68	29.13	14.79
Median percent relative bias across characteristics	10.53	10.91	14.59	13.61	7.48	6.14	20.68	9.09	7.67	26.89	16.28	8.95
Percentage of characteristics with significant bias	77.42	26.76	65.14	57.14	32.71	53.64	9.52	19.42	42.45	40.21	21.00	9.52
Median effect size	0.14	0.16	0.13	0.13	0.09	0.08	0.28	0.11	0.09	0.26	0.26	0.11
After imputation												
Difference between pre- and postimputation means	0.57	‡	7.96*	6.73*	9.62*	2.71*	3.50	11.30	3.05	10.70*	2.97	2.01
Effect size for difference	#	‡	0.05	0.04	0.07	0.02	0.05	0.07	0.02	0.13	0.04	0.02
NEEDAID1 (Total need-based aid)												
Before imputation												
Mean percent relative bias across characteristics	15.43	15.44	20.38	18.58	12.76	13.41	27.70	16.53	14.08	32.19	29.08	14.87
Median percent relative bias across characteristics	10.71	10.91	14.33	13.36	7.74	6.30	20.26	9.19	7.41	27.27	16.29	8.94
Percentage of characteristics with significant bias	76.61	26.76	65.14	57.14	33.64	51.82	11.76	18.45	46.23	40.21	21.00	10.48
Median effect size	0.14	0.16	0.13	0.13	0.09	0.07	0.28	0.11	0.09	0.25	0.26	0.11
After imputation												
Difference between pre- and postimputation means	0.72	‡	6.58*	6.08*	7.14*	2.46*	7.28	10.37	2.58	8.38*	2.68	0.21
Effect size for difference	#	‡	0.04	0.04	0.06	0.02	0.10	0.07	0.02	0.11	0.04	#

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting						
Variable	All students	Less-than-2-year	2-year				Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
NETCST1 (Student budget minus all aid)												
Before imputation												
Mean percent relative bias across characteristics	15.41	16.43	20.36	18.09	11.84	12.66	33.03	15.33	12.48	35.19	41.21	17.00
Median percent relative bias across characteristics	12.06	13.87	17.94	15.74	9.28	6.98	24.05	8.76	6.74	29.02	27.69	9.41
Percentage of characteristics with significant bias	74.17	24.64	64.76	46.53	21.15	49.53	9.76	15.84	38.24	28.26	17.53	5.77
Median effect size	0.17	0.19	0.14	0.22	0.10	0.09	0.32	0.11	0.12	0.26	0.41	0.13
After imputation												
Difference between pre- and postimputation means	4.56*	1.94	0.35	1.80	5.11*	3.18*	3.67	8.02	3.12	5.04	2.54	8.21
Effect size for difference	0.04	0.02	#	0.02	0.06	0.04	0.04	0.07	0.03	0.07	0.03	0.07
NETCST10 (Tuition and fees minus federal grants)												
Before imputation												
Mean percent relative bias across characteristics	16.76	15.56	21.10	18.34	14.70	14.81	32.28	17.47	13.85	34.85	34.45	15.71
Median percent relative bias across characteristics	12.11	10.86	16.65	14.51	8.20	6.76	22.68	9.21	6.93	29.39	23.71	9.32
Percentage of characteristics with significant bias	72.58	19.72	63.89	43.69	24.07	51.35	13.41	17.31	35.24	27.17	15.15	4.85
Median effect size	0.15	0.16	0.13	0.20	0.10	0.09	0.32	0.11	0.11	0.24	0.28	0.13
After imputation												
Difference between pre- and postimputation means	6.32*	‡	7.30*	0.07	11.72*	4.43*	13.28	12.49	2.52	3.31	24.71	11.04
Effect size for difference	0.04	‡	0.06	#	0.12	0.05	0.18	0.15	0.04	0.07	0.33	0.11

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
NETCST12 (Tuition and fees minus state grants)												
Before imputation												
Mean percent relative bias across characteristics	17.27	15.55	22.38	20.58	13.71	15.24	29.87	17.80	15.15	33.13	32.43	15.56
Median percent relative bias across characteristics	12.96	10.91	17.91	16.41	7.86	7.10	23.48	9.70	9.04	28.52	18.77	10.38
Percentage of characteristics with significant bias	75.00	19.72	66.06	58.65	39.25	55.45	8.43	18.27	45.28	40.63	18.00	23.81
Median effect size	0.15	0.16	0.16	0.20	0.09	0.09	0.30	0.12	0.09	0.27	0.28	0.13
After imputation												
Difference between pre- and postimputation means	4.32*	‡	2.74	2.12	2.23	1.89*	10.60	13.39	2.06	1.89	16.62	2.37
Effect size for difference	0.03	‡	0.03	0.02	0.03	0.02	0.20	0.17	0.03	0.05	0.28	0.03
NETCST13 (Tuition and fees minus institution grants)												
Before imputation												
Mean percent relative bias across characteristics	16.99	15.55	21.87	19.88	13.56	14.46	29.87	17.01	14.70	32.85	40.19	15.65
Median percent relative bias across characteristics	13.05	10.91	17.99	15.21	7.42	7.11	23.48	9.50	9.08	27.71	27.41	10.74
Percentage of characteristics with significant bias	76.42	19.72	66.67	56.86	42.06	54.13	8.43	16.50	44.76	36.17	26.00	23.81
Median effect size	0.15	0.16	0.17	0.21	0.09	0.09	0.30	0.12	0.10	0.28	0.38	0.13
After imputation												
Difference between pre- and postimputation means	3.34*	‡	1.95	1.26	1.77	1.48	10.97	11.25	0.41	2.89	12.16	3.05
Effect size for difference	0.03	‡	0.02	0.01	0.02	0.02	0.20	0.12	#	0.08	0.20	0.04

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
NETCST14 (Tuition and fees minus all nonfederal grants)												
Before imputation												
Mean percent relative bias across characteristics	17.01	15.55	21.97	19.85	12.74	14.48	29.94	17.01	14.70	32.85	39.69	15.56
Median percent relative bias across characteristics	13.04	10.91	18.12	15.27	7.43	7.09	23.77	9.46	9.02	27.71	26.82	10.38
Percentage of characteristics with significant bias	75.61	19.72	65.74	56.86	38.68	54.13	8.43	17.48	45.71	36.17	24.24	23.81
Median effect size	0.15	0.16	0.16	0.21	0.09	0.09	0.31	0.12	0.10	0.28	0.38	0.13
After imputation												
Difference between pre- and postimputation means	3.37*	‡	2.38	1.89	1.88	1.72	10.64	10.90	0.64	1.26	12.90	3.48
Effect size for difference	0.02	‡	0.02	0.01	0.02	0.02	0.17	0.10	0.01	0.03	0.20	0.04
NETCST15 (Tuition and fees minus state and institution grants)												
Before imputation												
Mean percent relative bias across characteristics	17.00	15.55	21.88	19.87	12.96	14.49	29.87	17.01	14.69	32.85	39.69	15.56
Median percent relative bias across characteristics	13.02	10.91	17.98	15.25	7.83	7.14	23.48	9.46	9.04	27.71	26.82	10.38
Percentage of characteristics with significant bias	76.42	19.72	65.74	56.86	38.68	54.13	8.43	17.48	45.71	36.17	24.24	23.81
Median effect size	0.15	0.16	0.16	0.21	0.09	0.09	0.30	0.12	0.10	0.28	0.38	0.13
After imputation												
Difference between pre- and postimputation means	3.24*	‡	2.31	1.55	1.71	1.50	10.72	10.71	0.61	1.65	13.11	3.17
Effect size for difference	0.02	‡	0.02	0.01	0.02	0.02	0.19	0.11	0.01	0.04	0.22	0.04

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
		Less- than- 2-year	2-year	4-year, non- doctorate- granting, primarily subbacca- laureate	4-year, non- doctorate- granting, primarily bacca- laureate	4-year, doctorate- granting	Less- than- 4-year	4-year, non- doctorate- granting	4-year, doctorate- granting	Less- than- 2-year	2-year	4-year
Variable	All students											
NETCST16 (Student budget minus federal and state grants)												
Before imputation												
Mean percent relative bias across characteristics	17.21	18.24	21.98	19.64	12.63	14.93	33.17	15.92	13.71	35.33	34.32	16.48
Median percent relative bias across characteristics	13.01	14.61	17.80	15.72	8.83	7.10	23.37	8.72	7.41	30.59	20.08	9.84
Percentage of characteristics with significant bias	73.98	25.71	66.36	48.54	23.81	51.82	14.63	14.71	38.46	30.43	14.14	5.77
Median effect size	0.17	0.19	0.14	0.22	0.10	0.09	0.34	0.11	0.11	0.26	0.31	0.13
After imputation												
Difference between pre- and postimputation means	4.60*	2.28	0.75	2.27	4.18*	2.00*	5.64	7.45	2.18	3.35	8.26	7.80
Effect size for difference	0.05	0.03	0.01	0.03	0.07	0.03	0.10	0.11	0.04	0.07	0.15	0.11
NETCST17 (Student budget minus all grants and loans)												
Before imputation												
Mean percent relative bias across characteristics	15.42	16.43	20.37	18.09	11.84	12.66	33.03	15.34	12.47	35.06	41.10	17.00
Median percent relative bias across characteristics	12.09	13.87	17.96	15.74	9.28	7.05	24.05	8.68	6.80	28.94	26.20	9.39
Percentage of characteristics with significant bias	74.17	24.64	64.76	46.53	21.15	49.53	9.76	15.84	38.24	29.35	18.56	5.77
Median effect size	0.17	0.19	0.14	0.22	0.10	0.09	0.32	0.12	0.12	0.26	0.41	0.13
After imputation												
Difference between pre- and postimputation means	4.39*	2.10	0.53	1.74	4.66*	2.49	4.48	7.13	2.50	3.60	2.94	6.74
Effect size for difference	0.04	0.03	0.01	0.02	0.06	0.03	0.05	0.07	0.03	0.06	0.03	0.06

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non- doctorate- granting, primarily subbacca- laureate	4-year, non- doctorate- granting, primarily bacca- laureate	4-year, doctorate- granting						
Variable	All students	Less- than- 2-year	2-year				Less- than- 4-year	4-year, non- doctorate- granting	4-year, doctorate- granting	Less- than- 2-year	2-year	4-year
NETCST2 (Student budget minus federal grants)												
Before imputation												
Mean percent relative bias across characteristics	17.82	18.24	22.59	19.63	14.28	15.67	33.17	17.54	14.43	35.33	34.32	16.48
Median percent relative bias across characteristics	13.04	14.61	17.97	15.63	9.07	7.18	23.37	9.25	7.62	30.59	20.08	9.84
Percentage of characteristics with significant bias	73.39	25.71	65.74	48.54	26.17	52.25	14.63	16.35	40.00	30.43	14.14	5.77
Median effect size	0.17	0.19	0.14	0.22	0.11	0.09	0.34	0.11	0.11	0.26	0.31	0.13
After imputation												
Difference between pre- and postimputation means	4.32*	2.26	0.22	1.57	2.86	1.75	6.33	7.72	2.03	4.25	7.56	7.47
Effect size for difference	0.05	0.03	#	0.02	0.05	0.03	0.12	0.12	0.04	0.10	0.14	0.10
NETCST20 (Student budget minus all grants and loans [incl. Parent PLUS Loans])												
Before imputation												
Mean percent relative bias across characteristics	15.42	16.43	20.37	18.09	11.84	12.66	33.03	15.34	12.48	35.18	41.21	17.00
Median percent relative bias across characteristics	12.10	13.87	17.96	15.74	9.28	7.07	24.05	8.70	6.76	29.23	27.69	9.39
Percentage of characteristics with significant bias	74.17	24.64	64.76	46.53	21.15	49.53	9.76	15.84	38.24	29.35	17.53	5.77
Median effect size	0.17	0.19	0.14	0.22	0.10	0.09	0.32	0.12	0.12	0.26	0.41	0.13
After imputation												
Difference between pre- and postimputation means	4.64*	2.03	0.53	1.78	5.27*	2.92*	4.70	8.84	3.16	3.84	1.39	6.05
Effect size for difference	0.04	0.02	0.01	0.02	0.06	0.03	0.05	0.08	0.03	0.06	0.01	0.05

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
NETCST3 (Student budget minus all grants)												
Before imputation												
Mean percent relative bias across characteristics	16.08	18.24	20.60	18.15	11.82	13.47	33.17	15.12	12.43	35.33	41.07	16.48
Median percent relative bias across characteristics	12.07	14.61	17.13	15.20	8.92	7.24	23.37	8.44	7.26	30.59	27.59	9.83
Percentage of characteristics with significant bias	73.55	25.71	65.71	47.52	23.08	50.00	14.63	14.85	38.24	30.43	16.49	5.77
Median effect size	0.17	0.19	0.14	0.22	0.10	0.09	0.34	0.11	0.11	0.26	0.41	0.13
After imputation												
Difference between pre- and postimputation means	3.30*	3.93	0.31	2.49	3.35	1.40	5.64	6.14	1.05	2.70	1.69	10.09
Effect size for difference	0.04	0.05	#	0.03	0.05	0.02	0.10	0.08	0.01	0.06	0.03	0.13
NETCST41 (Student budget minus all aid except private loans)												
Before imputation												
Mean percent relative bias across characteristics	15.39	18.24	20.59	18.15	11.82	12.67	33.23	15.12	12.44	35.50	41.17	16.48
Median percent relative bias across characteristics	11.99	14.61	17.11	15.20	8.92	7.11	23.48	8.50	7.22	29.25	26.80	9.83
Percentage of characteristics with significant bias	74.17	25.71	65.71	47.52	23.08	49.53	14.63	15.84	38.24	31.52	15.46	5.77
Median effect size	0.17	0.19	0.14	0.22	0.10	0.09	0.34	0.11	0.11	0.26	0.41	0.13
After imputation												
Difference between pre- and postimputation means	3.93*	2.49	0.16	3.34	4.86	2.65*	1.16	6.63	2.39	5.64	1.05	14.33
Effect size for difference	0.04	0.03	#	0.04	0.06	0.03	0.01	0.06	0.03	0.09	0.01	0.13

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
NETCST43 (Student budget minus all aid except loans)												
Before imputation												
Mean percent relative bias across characteristics	15.41	16.43	20.36	18.09	11.84	12.66	33.03	15.33	12.48	35.19	41.21	17.00
Median percent relative bias across characteristics	12.06	13.87	17.94	15.74	9.28	6.98	24.05	8.76	6.74	29.02	27.69	9.41
Percentage of characteristics with significant bias	74.17	24.64	64.76	46.53	21.15	49.53	9.76	15.84	38.24	28.26	17.53	5.77
Median effect size	0.17	0.19	0.14	0.22	0.10	0.09	0.32	0.11	0.12	0.26	0.41	0.13
After imputation												
Difference between pre- and postimputation means	3.52*	2.54	0.35	1.05	3.87	1.97	6.64	7.13	1.53	3.03	1.83	10.48
Effect size for difference	0.04	0.03	#	0.01	0.06	0.03	0.10	0.08	0.02	0.06	0.03	0.13
NETCST9 (Tuition and fees minus all grants)												
Before imputation												
Mean percent relative bias across characteristics	15.05	15.56	19.09	16.86	12.28	12.58	32.28	15.05	11.86	34.85	39.74	15.71
Median percent relative bias across characteristics	11.91	10.86	16.44	14.69	8.08	6.40	22.68	8.62	7.45	29.39	26.63	9.33
Percentage of characteristics with significant bias	74.38	19.72	62.86	43.56	19.05	49.07	13.41	15.84	39.22	27.17	13.40	4.85
Median effect size	0.15	0.16	0.13	0.20	0.09	0.08	0.32	0.11	0.11	0.24	0.40	0.13
After imputation												
Difference between pre- and postimputation means	5.57*	‡	6.88*	0.73	13.93*	4.83*	12.27	11.66	1.62	1.02	19.36	16.73
Effect size for difference	0.03	‡	0.05	#	0.11	0.04	0.14	0.09	0.02	0.02	0.24	0.16

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit					
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting			Less-than-2-year	2-year	4-year
Variable	All students	Less-than-2-year	2-year				Less-than-4-year								
NFEDCUM1 (Cumulative nonfederal loan amount for undergrad)															
Before imputation															
Mean percent relative bias across characteristics	12.72	13.86	14.39	16.98	10.03	11.29	23.40	10.89	12.30	27.07	24.57	14.86			
Median percent relative bias across characteristics	9.11	10.58	11.47	16.40	5.34	5.92	19.49	6.05	6.75	23.34	14.26	9.55			
Percentage of characteristics with significant bias	75.00	18.18	59.63	54.29	34.26	54.55	20.69	27.88	45.79	39.18	22.33	24.77			
Median effect size	0.10	0.12	0.14	0.13	0.06	0.08	0.21	0.07	0.07	0.20	0.21	0.11			
After imputation															
Difference between pre- and postimputation means	19.39*	23.79	16.46*	11.25	23.85*	12.08*	9.97	21.66*	13.92*	35.70*	40.34*	52.90			
Effect size for difference	0.04	0.05	0.02	0.02	0.06	0.03	0.03	0.07	0.04	0.13	0.14	0.15			
OTHFDGRT (Other federal grants [not Title IV])															
Before imputation															
Mean percent relative bias across characteristics	15.73	15.44	20.01	17.36	13.42	13.57	31.58	17.15	13.29	34.61	29.60	15.39			
Median percent relative bias across characteristics	10.47	10.88	15.71	12.21	6.82	6.54	21.74	8.92	6.37	30.97	20.17	9.64			
Percentage of characteristics with significant bias	70.97	26.76	64.81	44.66	29.63	51.35	10.84	17.31	38.10	37.63	13.13	4.85			
Median effect size	0.15	0.16	0.12	0.17	0.09	0.07	0.30	0.10	0.10	0.24	0.27	0.12			
After imputation															
Difference between pre- and postimputation means	14.19	‡	5.83	72.08	21.23	48.88	100.00	34.34	68.81	46.22	72.32	91.26			
Effect size for difference	0.01	‡	#	0.03	0.01	0.02	0.11	0.02	0.02	0.01	0.03	0.01			

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting		4-year, non-doctorate-granting	4-year, doctorate-granting			
Variable	All students	Less-than-2-year	2-year				Less-than-4-year			Less-than-2-year	2-year	4-year
OTHRSCR (Outside sources total)												
Before imputation												
Mean percent relative bias across characteristics	16.45	13.38	22.26	19.40	13.15	13.96	31.59	17.67	14.89	31.68	29.70	15.76
Median percent relative bias across characteristics	11.32	9.64	18.59	14.59	7.37	6.59	22.33	9.18	8.51	25.60	17.94	10.38
Percentage of characteristics with significant bias	75.00	22.86	64.22	57.69	39.81	53.64	9.52	20.19	46.23	42.11	28.00	23.58
Median effect size	0.15	0.16	0.15	0.15	0.07	0.08	0.28	0.11	0.10	0.26	0.26	0.12
After imputation												
Difference between pre- and postimputation means	1.83	14.89	1.62	0.39	0.13	0.04	1.02	8.66	0.80	1.88	21.85	17.94
Effect size for difference	0.01	0.04	#	#	#	#	#	0.04	#	0.01	0.08	0.07
OTHTYPE (Label1: Total other type of aid [Direct PLUS, job training, VA]; Label2: Total other type of aid [Direct PLUS, assistantships, VA])												
Before imputation												
Mean percent relative bias across characteristics	16.46	15.44	22.45	19.44	13.05	13.23	31.89	16.73	13.99	32.00	28.82	14.20
Median percent relative bias across characteristics	10.99	10.91	18.60	14.90	7.54	6.62	23.88	8.77	7.71	26.26	16.27	9.82
Percentage of characteristics with significant bias	76.61	26.76	66.97	57.28	41.12	55.05	6.02	17.48	46.67	43.16	21.00	25.00
Median effect size	0.15	0.16	0.16	0.14	0.08	0.08	0.29	0.12	0.10	0.27	0.25	0.12
After imputation												
Difference between pre- and postimputation means	2.35	‡	3.01	0.45	0.19	0.47	13.00	2.92	1.61	6.88	4.64	8.71
Effect size for difference	0.01	‡	#	#	#	#	0.03	0.01	#	0.02	0.01	0.02

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
OTHTYPE2 (Total other type of aid including work-study)												
Before imputation												
Mean percent relative bias across characteristics	16.44	15.44	22.45	19.37	12.90	13.15	31.92	16.71	14.13	32.28	29.40	14.10
Median percent relative bias across characteristics	11.26	10.91	18.31	14.79	6.94	6.52	23.80	9.18	7.74	27.41	17.89	9.57
Percentage of characteristics with significant bias	76.61	26.76	65.14	57.28	41.12	55.05	6.02	17.48	46.67	44.21	28.00	23.08
Median effect size	0.15	0.16	0.15	0.14	0.08	0.08	0.29	0.12	0.10	0.27	0.26	0.11
After imputation												
Difference between pre- and postimputation means	3.39	‡	0.11	0.10	1.84	0.78	13.17	6.59	0.05	4.61	2.58	8.33
Effect size for difference	0.01	‡	#	#	#	#	0.03	0.02	#	0.01	0.01	0.02
OWEAMT1 (Amount still owed on all undergraduate loans)												
Before imputation												
Mean percent relative bias across characteristics	12.73	14.34	14.20	16.62	10.34	11.53	22.20	10.20	12.78	27.25	24.04	14.56
Median percent relative bias across characteristics	9.25	11.64	10.53	15.51	5.11	6.18	18.83	5.85	6.76	23.74	15.08	8.66
Percentage of characteristics with significant bias	75.00	36.00	62.39	59.05	34.26	54.55	22.09	23.08	47.66	39.18	22.33	28.44
Median effect size	0.10	0.13	0.13	0.13	0.07	0.08	0.20	0.05	0.07	0.19	0.20	0.11
After imputation												
Difference between pre- and postimputation means	8.74*	0.70	8.57*	6.56*	10.82*	5.71*	6.41*	11.36*	11.08*	6.76	9.14*	7.86
Effect size for difference	0.05	#	0.03	0.03	0.07	0.04	0.07	0.09	0.08	0.07	0.09	0.08

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
PAGI (Dependent students: Parents adjusted gross income)												
Before imputation												
Mean percent relative bias across characteristics	32.19	50.90	34.68	36.23	24.66	26.69	46.29	26.23	32.73	35.89	42.84	51.90
Median percent relative bias across characteristics	25.06	44.25	25.95	28.49	16.39	15.48	39.53	18.99	20.84	23.32	31.74	47.56
Percentage of characteristics with significant bias	88.24	32.35	75.96	64.29	67.31	63.21	28.21	63.00	70.00	38.20	39.18	36.27
Median effect size	0.29	0.42	0.30	0.27	0.19	0.19	0.40	0.23	0.23	0.18	0.29	0.38
After imputation												
Difference between pre- and postimputation means	10.87*	9.27	12.53*	16.99*	9.00*	11.08*	1.57	8.46*	11.01*	5.61	8.01	0.97
Effect size for difference	0.09	0.10	0.11	0.14	0.09	0.09	0.01	0.06	0.10	0.05	0.05	0.01
PARBORN (Parent born in US, PR, or US Territory)												
Before imputation												
Mean percent relative bias across characteristics	13.03	14.19	15.45	16.57	9.39	10.88	23.56	9.11	11.75	16.25	19.76	11.76
Median percent relative bias across characteristics	11.03	11.73	12.29	14.85	5.17	6.10	19.65	5.15	8.25	11.47	13.73	8.39
Percentage of characteristics with significant bias	78.23	28.95	66.06	57.69	49.53	60.91	22.73	41.35	54.29	44.79	38.83	34.26
Median effect size	0.11	0.12	0.12	0.13	0.07	0.09	0.21	0.06	0.08	0.12	0.13	0.08
After imputation												
Difference between pre- and postimputation means	0.59*	3.52	1.52*	2.70	1.92*	0.19	1.84	0.79	0.29	1.40	1.66	1.95
Effect size for difference	0.01	‡	0.02	0.03	0.02	#	‡	0.01	0.01	‡	0.02	0.02

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit			
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting			
Variable	All students	Less-than-2-year	2-year				Less-than-4-year				Less-than-2-year	2-year	4-year
PARHELP (Help from parents: housing, tuition, and other expenses)													
Before imputation													
Mean percent relative bias across characteristics	25.36	32.62	24.72	27.91	16.10	18.32	42.88	19.70	21.09		34.23	34.77	51.28
Median percent relative bias across characteristics	23.28	27.50	19.13	22.13	9.07	10.22	37.09	15.64	13.47		20.38	24.34	37.45
Percentage of characteristics with significant bias	84.03	26.39	73.08	61.39	57.84	62.26	25.61	60.00	62.00		37.78	28.87	33.98
Median effect size	0.22	0.24	0.17	0.18	0.13	0.11	0.35	0.18	0.13		0.18	0.25	0.36
After imputation													
Difference between pre- and postimputation means	0.28	1.41	0.66	0.96	1.02	0.85*	4.22	0.55	0.88		3.51	4.01	2.88
Effect size for difference	#	‡	0.01	0.01	0.01	0.01	‡	0.01	0.01		0.04	0.04	0.03
PARHELP2 (Label1: Help from parents: housing, tuition, other expenses (incl. independent students) Label2: Help from parents: housing, tuition, other expenses)													
Before imputation													
Mean percent relative bias across characteristics	13.01	14.44	15.38	16.71	9.47	10.94	23.70	8.97	11.66		16.09	19.68	11.58
Median percent relative bias across characteristics	10.84	12.78	12.26	15.67	5.24	6.30	19.58	4.96	8.30		11.11	12.54	8.04
Percentage of characteristics with significant bias	77.42	30.26	66.06	58.10	50.47	60.91	22.73	42.31	55.24		43.75	38.83	34.26
Median effect size	0.11	0.12	0.12	0.14	0.07	0.09	0.21	0.05	0.08		0.12	0.13	0.08
After imputation													
Difference between pre- and postimputation means	0.49	2.73	0.14	0.09	0.63	0.18	2.52	0.20	0.33		1.89	3.18*	0.17
Effect size for difference	#	0.03	#	#	0.01	#	0.03	#	#		0.02	0.03	#

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting		
Variable	All students	Less-than-2-year	2-year				Less-than-4-year			Less-than-2-year	2-year	4-year
PARHPAMT (Help from parents: amount parents helped pay for expenses in 2019–20)												
Before imputation												
Mean percent relative bias across characteristics	25.38	33.51	24.73	27.67	16.14	18.37	43.00	19.79	21.23	33.92	34.59	50.62
Median percent relative bias across characteristics	23.50	28.14	18.98	22.06	8.91	10.37	36.87	15.92	13.83	20.15	22.56	37.03
Percentage of characteristics with significant bias	83.19	25.00	72.12	61.39	55.88	62.26	25.61	61.00	63.00	37.78	28.87	33.33
Median effect size	0.23	0.23	0.17	0.18	0.13	0.11	0.35	0.18	0.13	0.18	0.24	0.36
After imputation												
Difference between pre- and postimputation means	0.74	‡	1.60*	2.57	2.39*	2.13*	‡	2.38*	2.86*	5.84	8.89	6.34
Effect size for difference	0.01	‡	0.04	‡	‡	0.03	‡	‡	‡	‡	‡	‡
PARHPAMT2 (Label1: Help from parents: amount paid for expenses (incl. independent students) Label2: Help from parents: amount parents helped pay for expenses)												
Before imputation												
Mean percent relative bias across characteristics	13.01	14.31	15.36	16.41	9.48	11.02	23.84	9.00	11.73	16.04	19.70	11.59
Median percent relative bias across characteristics	10.77	11.93	12.24	14.49	5.61	6.26	19.87	4.99	8.18	11.05	12.58	7.80
Percentage of characteristics with significant bias	79.03	27.63	66.06	55.24	49.53	57.27	21.59	39.42	55.24	43.75	38.83	32.41
Median effect size	0.11	0.12	0.12	0.13	0.07	0.09	0.21	0.05	0.08	0.12	0.13	0.07
After imputation												
Difference between pre- and postimputation means	0.60*	3.15	1.35*	1.08	1.16	1.63*	1.21	1.91	2.63*	2.79	3.26*	2.38
Effect size for difference	0.01	‡	0.03	‡	‡	0.02	‡	‡	0.04	‡	‡	‡

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
PAROCC1 (Parent 1 socioeconomic index)												
Before imputation												
Mean percent relative bias across characteristics	22.97	23.83	22.77	24.45	15.30	15.93	44.03	17.33	19.45	29.68	34.63	48.37
Median percent relative bias across characteristics	19.90	16.62	16.49	21.14	7.91	7.96	32.33	13.46	12.27	22.86	24.77	35.94
Percentage of characteristics with significant bias	81.51	24.29	72.12	56.57	58.25	58.49	30.77	56.00	61.00	34.83	23.71	35.92
Median effect size	0.20	0.14	0.16	0.16	0.11	0.10	0.37	0.16	0.12	0.18	0.24	0.35
After imputation												
Difference between pre- and postimputation means	0.14	2.94	0.40	0.09	0.05	0.01	2.17	0.60	0.06	0.44	2.75	0.27
Effect size for difference	#	0.04	0.01	#	#	#	0.03	0.01	#	0.01	0.03	#
PAROCC2 (Parent 2 socioeconomic index)												
Before imputation												
Mean percent relative bias across characteristics	23.04	23.51	21.17	23.93	15.33	15.75	48.55	17.97	18.55	31.05	35.65	48.71
Median percent relative bias across characteristics	21.09	15.25	15.98	16.80	9.25	7.69	38.12	14.14	11.80	23.65	24.01	41.71
Percentage of characteristics with significant bias	83.19	11.43	68.93	58.00	53.85	61.32	27.85	59.00	60.00	36.36	25.77	35.29
Median effect size	0.20	0.19	0.14	0.14	0.10	0.09	0.37	0.16	0.12	0.18	0.26	0.36
After imputation												
Difference between pre- and postimputation means	1.64*	6.45	0.13	1.76	1.22	1.77*	9.03	1.62*	1.80*	5.41	3.08	2.18
Effect size for difference	0.02	0.08	#	0.02	0.02	0.03	0.09	0.03	0.03	0.06	0.03	0.03

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit			
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting			
Variable	All students	Less-than-2-year	2-year				Less-than-4-year				Less-than-2-year	2-year	4-year
PCTALL (Income percentile rank)													
Before imputation													
Mean percent relative bias across characteristics	21.59	35.87	26.76	26.81	18.90	21.40	27.64	20.63	24.24		21.59	27.40	21.16
Median percent relative bias across characteristics	15.07	30.49	17.78	20.25	12.55	10.49	26.68	14.70	15.69		17.66	25.43	18.44
Percentage of characteristics with significant bias	79.03	42.67	77.06	66.35	66.67	66.36	34.52	68.27	69.23		50.00	42.72	45.87
Median effect size	0.22	0.37	0.22	0.24	0.19	0.14	0.28	0.19	0.21		0.19	0.27	0.15
After imputation													
Difference between pre- and postimputation means	8.49*	8.48	11.11*	11.67*	6.87*	7.51*	0.05	5.43*	7.08*		3.71*	1.31	7.38*
Effect size for difference	0.15	0.17	0.18	0.19	0.12	0.14	#	0.10	0.14		0.05	0.02	0.12
PCTALLFTFY (Income percentile rank for full-time, full-year respondents)													
Before imputation													
Mean percent relative bias across characteristics	33.23	51.74	41.63	43.63	25.66	25.57	50.87	26.03	29.64		50.62	44.99	30.68
Median percent relative bias across characteristics	29.84	53.44	33.78	34.13	20.56	16.15	46.51	20.94	19.77		40.66	34.01	25.69
Percentage of characteristics with significant bias	83.87	50.00	77.06	62.14	67.29	62.73	21.43	66.35	64.42		41.05	32.35	33.64
Median effect size	0.35	0.50	0.42	0.42	0.26	0.22	0.43	0.21	0.25		0.39	0.42	0.32
After imputation													
Difference between pre- and postimputation means	6.44*	5.81	6.79*	7.28*	4.98*	7.12*	‡	4.30*	6.95*		8.33*	0.02	4.09*
Effect size for difference	0.11	0.12	0.11	0.12	0.08	0.12	‡	0.07	0.13		0.12	#	0.07

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
PCTDEP (Income percentile dependent respondents)												
Before imputation												
Mean percent relative bias across characteristics	29.43	48.11	31.17	32.66	22.08	24.73	44.13	24.07	30.06	33.37	37.91	51.43
Median percent relative bias across characteristics	22.51	41.58	24.36	26.42	16.32	14.43	34.70	17.26	19.18	20.79	30.15	46.88
Percentage of characteristics with significant bias	87.39	32.35	75.96	66.67	67.31	64.15	25.64	62.00	65.00	39.33	32.99	34.31
Median effect size	0.26	0.45	0.26	0.22	0.17	0.17	0.38	0.21	0.22	0.18	0.26	0.38
After imputation												
Difference between pre- and postimputation means	7.02*	6.01	8.72*	10.65*	5.51*	6.78*	0.64	4.07*	6.51*	3.28	3.82	4.66*
Effect size for difference	0.12	0.12	0.14	0.17	0.10	0.13	0.01	0.07	0.13	0.04	0.05	0.06
PCTINDEP (Income percentile independent respondents)												
Before imputation												
Mean percent relative bias across characteristics	33.46	46.30	38.71	38.29	32.09	43.11	34.01	36.54	41.46	26.06	34.99	22.56
Median percent relative bias across characteristics	24.46	45.93	32.88	33.45	20.11	26.87	33.95	31.61	34.11	18.99	32.11	18.64
Percentage of characteristics with significant bias	69.35	50.67	71.56	64.42	55.14	62.73	41.67	61.17	54.81	51.04	47.57	43.12
Median effect size	0.34	0.52	0.39	0.35	0.26	0.26	0.36	0.34	0.43	0.25	0.33	0.18
After imputation												
Difference between pre- and postimputation means	10.59*	9.19	12.30*	12.10*	9.81*	10.62*	0.65	7.81*	8.50*	4.24*	1.17	7.53*
Effect size for difference	0.18	0.19	0.21	0.21	0.16	0.17	0.01	0.14	0.15	0.06	0.02	0.13

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
PCTPOV (Income percentage of poverty level)												
Before imputation												
Mean percent relative bias across characteristics	22.28	35.81	26.81	26.87	19.61	21.75	27.59	21.39	24.65	21.64	28.67	21.15
Median percent relative bias across characteristics	15.46	30.34	17.88	21.07	13.20	11.22	26.26	14.98	14.98	17.67	26.40	18.05
Percentage of characteristics with significant bias	82.26	42.67	77.06	66.35	64.81	65.45	34.52	66.35	68.27	48.96	43.69	41.67
Median effect size	0.22	0.37	0.22	0.24	0.20	0.15	0.28	0.17	0.22	0.19	0.28	0.16
After imputation												
Difference between pre- and postimputation means	11.09*	12.58	14.83*	15.86*	9.22*	9.62*	1.75*	7.99*	10.36*	7.77*	3.03*	12.82*
Effect size for difference	0.12	0.15	0.16	0.17	0.11	0.11	0.02	0.10	0.13	0.07	0.03	0.13
PELLCST (Ratio of Pell grant to student budget)												
Before imputation												
Mean percent relative bias across characteristics	14.58	19.64	18.01	18.00	11.25	12.51	26.78	10.30	11.86	19.26	21.95	13.13
Median percent relative bias across characteristics	11.97	14.73	14.85	15.40	6.76	7.44	19.22	5.84	7.83	15.53	12.75	9.31
Percentage of characteristics with significant bias	79.03	27.03	65.14	55.77	54.21	64.55	16.87	36.54	53.33	45.26	19.42	24.07
Median effect size	0.12	0.18	0.18	0.16	0.07	0.10	0.23	0.08	0.09	0.17	0.16	0.10
After imputation												
Difference between pre- and postimputation means	1.99*	10.85	4.84*	4.33*	0.07	0.90	3.01	1.47	0.57	2.03*	7.92	1.15
Effect size for difference	0.01	0.06	0.03	0.03	#	0.01	0.04	0.01	#	0.02	0.09	0.01

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
PELLPACK (Aid package with Pell grants)												
Before imputation												
Mean percent relative bias across characteristics	11.89	13.37	12.13	12.84	11.38	8.92	25.46	10.98	10.71	24.43	21.67	12.04
Median percent relative bias across characteristics	8.87	10.39	9.00	8.83	6.92	4.89	18.07	5.89	6.23	17.92	17.97	7.70
Percentage of characteristics with significant bias	73.39	17.33	63.30	44.76	37.96	53.64	12.64	38.46	49.52	25.77	23.30	7.34
Median effect size	0.10	0.08	0.09	0.10	0.08	0.05	0.21	0.06	0.08	0.14	0.19	0.09
After imputation												
Difference between pre- and postimputation means	22.67*	‡	28.29*	20.34*	28.99*	15.28*	42.92	25.06*	20.26*	16.30*	16.00	17.10*
Effect size for difference	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
PELLRAT1 (Ratio of Pell grant to total aid)												
Before imputation												
Mean percent relative bias across characteristics	20.26	26.00	32.53	28.74	15.67	15.52	38.01	18.25	15.77	44.01	43.24	18.78
Median percent relative bias across characteristics	16.68	22.48	28.08	27.06	10.57	9.97	26.98	11.10	11.15	40.62	38.00	11.64
Percentage of characteristics with significant bias	73.33	37.68	70.48	56.44	31.43	56.48	15.85	25.74	45.10	48.39	29.90	8.65
Median effect size	0.23	0.27	0.39	0.29	0.16	0.13	0.36	0.16	0.14	0.46	0.44	0.17
After imputation												
Difference between pre- and postimputation means	8.20*	‡	3.87*	2.76	11.69*	4.33*	12.18	24.18*	3.92	2.96	4.50	0.16
Effect size for difference	0.07	‡	0.04	0.03	0.09	0.03	0.17	0.15	0.02	0.04	0.06	#

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
PELLRAT2 (Ratio of Pell grant to total grants)												
Before imputation												
Mean percent relative bias across characteristics	21.90	27.31	33.41	29.46	16.09	17.18	42.25	18.80	16.82	48.25	48.12	19.09
Median percent relative bias across characteristics	18.66	21.22	28.26	25.56	11.57	10.68	35.03	12.89	12.89	45.64	42.75	11.87
Percentage of characteristics with significant bias	75.83	35.29	72.12	55.00	34.62	57.01	20.00	26.00	50.50	46.15	32.29	4.90
Median effect size	0.24	0.25	0.40	0.30	0.16	0.16	0.50	0.17	0.15	0.51	0.49	0.20
After imputation												
Difference between pre- and postimputation means	6.81*	‡	2.06	2.61	8.34*	4.82*	1.90	13.84	3.30	4.26*	1.97	7.28
Effect size for difference	0.07	‡	0.03	0.04	0.09	0.04	0.05	0.10	0.02	0.17	0.06	0.12
PFEDTAX (Dependent students: Parents federal tax paid)												
Before imputation												
Mean percent relative bias across characteristics	31.71	51.58	33.75	36.35	24.10	26.46	47.92	25.35	32.40	38.87	40.87	53.46
Median percent relative bias across characteristics	24.68	45.35	24.90	28.08	15.56	15.09	41.70	17.12	20.42	20.43	35.67	47.66
Percentage of characteristics with significant bias	89.08	33.82	75.96	65.00	67.31	61.32	23.38	63.00	69.00	38.89	37.11	32.04
Median effect size	0.28	0.50	0.29	0.27	0.17	0.19	0.44	0.22	0.23	0.18	0.26	0.38
After imputation												
Difference between pre- and postimputation means	14.39*	12.11	16.09*	24.28*	12.33*	16.56*	15.07	12.89*	12.28*	7.06	15.37	22.60
Effect size for difference	0.05	0.06	0.06	0.10	0.06	0.05	0.03	0.04	0.06	0.02	0.03	0.07

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting		4-year, doctorate-granting			
Variable	All students	Less-than-2-year	2-year				Less-than-4-year	doctorate-granting	doctorate-granting	Less-than-2-year	2-year	4-year
PHSLOAN (Federal health professions loans)												
Before imputation												
Mean percent relative bias across characteristics	12.34	16.36	14.82	15.49	9.33	9.82	21.79	10.26	11.11	20.65	19.40	9.31
Median percent relative bias across characteristics	10.18	11.13	13.17	12.62	5.22	5.28	17.81	6.25	6.85	16.97	12.32	6.35
Percentage of characteristics with significant bias	76.61	24.00	65.14	56.73	47.66	58.18	15.85	42.16	52.88	50.00	29.13	34.58
Median effect size	0.11	0.12	0.14	0.12	0.07	0.08	0.20	0.08	0.09	0.19	0.15	0.06
After imputation												
Difference between pre- and postimputation means	3.11	‡	#	2.59	#	1.07	#	#	2.66	#	#	#
Effect size for difference	#	‡	‡	#	‡	#	‡	‡	#	‡	‡	‡
PLUSPCT (Ratio of Parent PLUS Loans to total aid)												
Before imputation												
Mean percent relative bias across characteristics	20.26	26.00	32.53	28.74	15.67	15.52	38.01	18.25	15.77	44.01	43.24	18.78
Median percent relative bias across characteristics	16.68	22.48	28.08	27.06	10.57	9.97	26.98	11.10	11.15	40.62	38.00	11.64
Percentage of characteristics with significant bias	73.33	37.68	70.48	56.44	31.43	56.48	15.85	25.74	45.10	48.39	29.90	8.65
Median effect size	0.23	0.27	0.39	0.29	0.16	0.13	0.36	0.16	0.14	0.46	0.44	0.17
After imputation												
Difference between pre- and postimputation means	2.30	‡	3.07	2.84	10.13	4.59	19.69	11.69	8.32*	9.42	31.31	37.24
Effect size for difference	0.01	‡	#	#	0.02	0.01	0.04	0.03	0.03	0.02	0.08	0.06

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting		
Variable	All students	Less-than-2-year	2-year				Less-than-4-year			Less-than-2-year	2-year	4-year
PRIMLANG (Primary language spoken)												
Before imputation												
Mean percent relative bias across characteristics	13.03	15.43	15.47	16.61	9.35	10.92	23.56	9.03	11.79	16.03	19.52	11.71
Median percent relative bias across characteristics	11.01	12.88	12.47	14.95	5.33	6.14	19.65	4.98	8.40	11.44	13.10	8.31
Percentage of characteristics with significant bias	77.42	29.87	66.06	57.69	49.53	60.91	22.73	42.31	55.24	44.79	38.83	34.26
Median effect size	0.11	0.12	0.12	0.13	0.07	0.09	0.21	0.05	0.08	0.12	0.13	0.08
After imputation												
Difference between pre- and postimputation means	0.37	1.57	0.83	3.12*	1.11	0.48	0.53	0.25	0.56	1.30	2.58	0.55
Effect size for difference	0.01	‡	0.01	0.04	0.02	0.01	‡	‡	0.01	‡	‡	0.01
PRIMLGFAQ (Frequency of speaking non-English language with primary caregiver)												
Before imputation												
Mean percent relative bias across characteristics	25.15	50.00	32.63	32.38	29.42	31.40	48.78	25.36	27.21	35.88	28.49	36.84
Median percent relative bias across characteristics	19.35	48.17	25.66	29.23	21.43	22.62	35.71	15.96	17.77	26.21	14.88	25.27
Percentage of characteristics with significant bias	66.94	46.67	75.23	63.46	56.60	65.45	20.69	31.73	53.33	35.42	12.62	34.26
Median effect size	0.19	0.31	0.24	0.28	0.24	0.25	0.34	0.15	0.18	0.24	0.22	0.22
After imputation												
Difference between pre- and postimputation means	1.04	‡	2.18*	1.87	2.55	1.33	‡	3.31*	1.79	5.89	2.14	2.25
Effect size for difference	0.01	‡	0.02	‡	‡	0.02	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit			
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting			
Variable	All students	Less-than-2-year	2-year				Less-than-4-year				Less-than-2-year	2-year	4-year
PRIVLRAT (Ratio of private loans to total loans)													
Before imputation													
Mean percent relative bias across characteristics	36.62	57.34	61.29	61.18	29.99	28.33	38.96	27.54	28.78		44.77	47.92	29.37
Median percent relative bias across characteristics	32.42	57.05	37.38	53.93	21.73	15.44	32.62	19.13	19.27		41.80	38.71	22.18
Percentage of characteristics with significant bias	77.42	45.59	74.31	66.02	61.11	63.64	28.40	51.46	57.55		53.61	46.53	34.58
Median effect size	0.38	0.58	0.49	0.45	0.26	0.24	0.38	0.26	0.23		0.46	0.40	0.32
After imputation													
Difference between pre- and postimputation means	4.89	‡	6.22	8.66	3.55	0.90	‡	1.93	0.43		21.22	5.68	44.18
Effect size for difference	0.02	‡	0.02	0.03	0.01	#	‡	0.01	#		0.07	0.02	0.16
PRIVPACK (Package of private and non-private loans)													
Before imputation													
Mean percent relative bias across characteristics	12.60	14.35	14.46	15.72	10.46	10.51	21.86	11.60	12.19		29.05	26.74	14.03
Median percent relative bias across characteristics	8.71	11.03	10.26	11.80	6.04	5.19	16.25	5.65	6.32		24.30	15.53	8.29
Percentage of characteristics with significant bias	75.00	17.57	61.47	58.65	35.19	52.73	12.94	25.96	48.11		40.21	26.21	25.93
Median effect size	0.10	0.10	0.13	0.11	0.06	0.07	0.19	0.06	0.07		0.23	0.21	0.11
After imputation													
Difference between pre- and postimputation means	3.97*	‡	4.09*	0.59	4.47*	2.59*	8.67	4.69*	4.19*		4.15*	9.94*	8.97
Effect size for difference	0.04	‡	0.05	‡	‡	0.03	‡	‡	0.04		‡	0.11	0.13

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
Variable	All students	Less-than-2-year	2-year									
PRIVPCT (Ratio of private loans to total aid)												
Before imputation												
Mean percent relative bias across characteristics	20.26	26.00	32.53	28.74	15.67	15.52	38.01	18.25	15.77	44.01	43.24	18.78
Median percent relative bias across characteristics	16.68	22.48	28.08	27.06	10.57	9.97	26.98	11.10	11.15	40.62	38.00	11.64
Percentage of characteristics with significant bias	73.33	37.68	70.48	56.44	31.43	56.48	15.85	25.74	45.10	48.39	29.90	8.65
Median effect size	0.23	0.27	0.39	0.29	0.16	0.13	0.36	0.16	0.14	0.46	0.44	0.17
After imputation												
Difference between pre- and postimputation means	0.45	‡	7.57	0.64	13.72*	2.91	35.28	4.02	2.35	11.65	5.23	50.42
Effect size for difference	#	‡	0.01	#	0.04	0.01	0.09	0.01	0.01	0.03	0.02	0.15
PTAXFILE (Dependent students: Parents federal tax filed)												
Before imputation												
Mean percent relative bias across characteristics	32.23	52.48	34.79	37.00	24.63	27.85	47.78	25.61	33.13	40.55	46.50	52.40
Median percent relative bias across characteristics	24.78	45.57	26.19	29.23	16.15	16.76	39.40	17.48	20.50	26.32	40.12	46.89
Percentage of characteristics with significant bias	89.92	33.82	76.92	67.00	69.23	63.21	27.27	62.00	69.00	43.33	44.33	33.33
Median effect size	0.30	0.50	0.30	0.24	0.21	0.19	0.42	0.22	0.25	0.21	0.34	0.38
After imputation												
Difference between pre- and postimputation means	1.79*	1.15	2.84*	3.80*	0.54*	1.14*	2.33	1.40*	0.52*	1.32	#	1.95*
Effect size for difference	0.04	‡	0.05	0.07	‡	0.03	‡	0.03	‡	‡	#	‡

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit			
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting			
Variable	All students	Less-than-2-year	2-year				Less-than-4-year				Less-than-2-year	2-year	4-year
RAINDBTRB (Race: American Indian or Alaska Native recognized tribe)													
Before imputation													
Mean percent relative bias across characteristics	46.67	72.70	53.71	75.77	43.41	66.68	111.98	45.03	45.70		35.80	76.86	66.80
Median percent relative bias across characteristics	25.27	41.97	27.56	44.08	23.65	40.57	62.67	25.72	31.54		27.17	36.35	39.01
Percentage of characteristics with significant bias	58.82	13.24	57.69	40.00	22.77	52.83	21.05	25.26	25.51		17.39	10.20	13.73
Median effect size	0.24	0.69	0.27	0.41	0.25	0.30	0.57	0.29	0.35		0.21	0.33	0.37
After imputation													
Difference between pre- and postimputation means	1.70	‡	4.09	2.68	0.99	1.50	‡	‡	2.91		‡	‡	2.23
Effect size for difference	0.02	‡	0.05	‡	‡	‡	‡	‡	‡		‡	‡	‡
REANOAPA (Reason for not applying: did not want to take on the debt)													
Before imputation													
Mean percent relative bias across characteristics	34.61	32.20	34.01	37.67	50.75	33.42	82.17	75.08	47.48		88.81	111.29	104.24
Median percent relative bias across characteristics	24.51	28.15	20.86	30.44	35.55	21.82	58.67	50.68	43.36		46.24	70.02	72.30
Percentage of characteristics with significant bias	57.14	27.08	47.37	50.00	32.05	43.04	33.33	45.95	51.32		29.51	38.71	28.99
Median effect size	0.40	0.39	0.37	0.51	0.36	0.46	0.74	0.63	0.54		1.01	0.92	0.81
After imputation													
Difference between pre- and postimputation means	2.41*	7.23	4.15*	0.06	6.03	3.42*	‡	8.56	2.78		6.26	4.15	2.23
Effect size for difference	0.03	‡	0.05	#	0.06	0.04	‡	0.10	0.03		‡	0.05	0.02

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit					
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting			Less-than-2-year	2-year	4-year
Variable	All students	Less-than-2-year	2-year				Less-than-4-year	doctorate-granting							
REANOAPB (Reason for not applying: forms were too much work)															
Before imputation															
Mean percent relative bias across characteristics	34.61	32.20	34.01	37.67	50.75	33.42	82.17	75.08	47.48	88.81	111.29	104.24			
Median percent relative bias across characteristics	24.51	28.15	20.86	30.44	35.55	21.82	58.67	50.68	43.36	46.24	70.02	72.30			
Percentage of characteristics with significant bias	57.14	27.08	47.37	50.00	32.05	43.04	33.33	45.95	51.32	29.51	38.71	28.99			
Median effect size	0.40	0.39	0.37	0.51	0.36	0.46	0.74	0.63	0.54	1.01	0.92	0.81			
After imputation															
Difference between pre- and postimputation means	0.45	2.15	0.04	2.72	1.18	0.01	1.32	4.35*	0.49	0.83	4.16	1.09			
Effect size for difference	0.01	‡	#	0.04	‡	#	‡	‡	‡	‡	‡	‡			
REANOAPC (Reason for not applying: no information about how to apply)															
Before imputation															
Mean percent relative bias across characteristics	34.61	32.20	34.01	37.67	50.75	33.42	82.17	75.08	47.48	88.81	111.29	104.24			
Median percent relative bias across characteristics	24.51	28.15	20.86	30.44	35.55	21.82	58.67	50.68	43.36	46.24	70.02	72.30			
Percentage of characteristics with significant bias	57.14	27.08	47.37	50.00	32.05	43.04	33.33	45.95	51.32	29.51	38.71	28.99			
Median effect size	0.40	0.39	0.37	0.51	0.36	0.46	0.74	0.63	0.54	1.01	0.92	0.81			
After imputation															
Difference between pre- and postimputation means	0.77	6.66	0.53	1.95	1.21	2.06	3.24	14.64*	1.32	5.11*	0.31	2.10			
Effect size for difference	0.01	‡	0.01	‡	‡	0.03	‡	0.24	‡	‡	‡	‡			

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
REANOAPD (Reason for not applying: no need)												
Before imputation												
Mean percent relative bias across characteristics	34.61	32.20	34.01	37.67	50.75	33.42	82.17	75.08	47.48	88.81	111.29	104.24
Median percent relative bias across characteristics	24.51	28.15	20.86	30.44	35.55	21.82	58.67	50.68	43.36	46.24	70.02	72.30
Percentage of characteristics with significant bias	57.14	27.08	47.37	50.00	32.05	43.04	33.33	45.95	51.32	29.51	38.71	28.99
Median effect size	0.40	0.39	0.37	0.51	0.36	0.46	0.74	0.63	0.54	1.01	0.92	0.81
After imputation												
Difference between pre- and postimputation means	1.63	‡	0.98	0.10	6.42	0.04	‡	11.34	4.56	2.86	16.91	0.18
Effect size for difference	0.02	‡	0.01	#	0.06	#	‡	0.11	0.05	‡	0.18	#
REANOAPE (Reason for not applying: thought ineligible)												
Before imputation												
Mean percent relative bias across characteristics	34.61	32.20	34.01	37.67	50.75	33.42	82.17	75.08	47.48	88.81	111.29	104.24
Median percent relative bias across characteristics	24.51	28.15	20.86	30.44	35.55	21.82	58.67	50.68	43.36	46.24	70.02	72.30
Percentage of characteristics with significant bias	57.14	27.08	47.37	50.00	32.05	43.04	33.33	45.95	51.32	29.51	38.71	28.99
Median effect size	0.40	0.39	0.37	0.51	0.36	0.46	0.74	0.63	0.54	1.01	0.92	0.81
After imputation												
Difference between pre- and postimputation means	1.38	3.92	2.01	0.04	0.82	1.77	‡	0.73	2.82	1.27	16.83	0.44
Effect size for difference	0.01	‡	0.02	#	0.01	0.02	‡	0.01	0.03	‡	0.18	#

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting						
Variable	All students	Less-than-2-year	2-year				Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
REANOAPF (Reason for not applying: other)												
Before imputation												
Mean percent relative bias across characteristics	34.61	32.20	34.01	37.67	50.75	33.42	82.17	75.08	47.48	88.81	111.29	104.24
Median percent relative bias across characteristics	24.51	28.15	20.86	30.44	35.55	21.82	58.67	50.68	43.36	46.24	70.02	72.30
Percentage of characteristics with significant bias	57.14	27.08	47.37	50.00	32.05	43.04	33.33	45.95	51.32	29.51	38.71	28.99
Median effect size	0.40	0.39	0.37	0.51	0.36	0.46	0.74	0.63	0.54	1.01	0.92	0.81
After imputation												
Difference between pre- and postimputation means	0.97	‡	0.20	3.30	0.16	0.98	‡	0.66	4.76	16.76*	36.37	5.11
Effect size for difference	0.01	‡	#	0.04	#	0.01	‡	0.01	0.06	‡	0.38	‡
REFUND1 (Received a refund of scholarships, grants, or loans from NPSAS)												
Before imputation												
Mean percent relative bias across characteristics	12.86	16.07	15.39	16.75	9.14	10.74	22.87	8.75	11.68	16.05	19.08	11.31
Median percent relative bias across characteristics	10.52	13.31	12.27	15.14	5.16	6.01	19.36	4.87	8.20	11.61	13.58	7.50
Percentage of characteristics with significant bias	78.23	29.87	66.06	58.10	48.60	57.27	24.71	36.54	56.19	44.79	38.83	34.26
Median effect size	0.11	0.13	0.12	0.13	0.07	0.09	0.22	0.05	0.08	0.12	0.13	0.07
After imputation												
Difference between pre- and postimputation means	0.45*	2.21	0.31	1.78*	0.95	0.39	0.93	0.66	0.14	0.86	0.02	0.17
Effect size for difference	#	‡	#	0.02	0.01	#	‡	0.01	#	0.01	#	#

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit			
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting			
Variable	All students	Less-than-2-year	2-year				Less-than-4-year				Less-than-2-year	2-year	4-year
REFUND2 (Method of receiving refund from NPSAS)													
Before imputation													
Mean percent relative bias across characteristics	31.07	47.60	41.35	42.09	23.70	27.25	40.94	22.16	28.73		39.90	56.72	29.58
Median percent relative bias across characteristics	23.36	44.63	34.19	34.72	17.39	19.85	34.99	16.38	19.60		32.99	47.66	23.12
Percentage of characteristics with significant bias	79.03	34.67	74.31	58.10	55.66	62.73	23.53	52.43	61.54		43.75	39.22	37.96
Median effect size	0.35	0.37	0.40	0.36	0.27	0.28	0.42	0.27	0.26		0.32	0.49	0.27
After imputation													
Difference between pre- and postimputation means	0.60*	‡	2.13*	0.46	1.04	1.36*	‡	0.29	2.00*		1.90	2.77	2.42
Effect size for difference	0.01	‡	‡	‡	‡	‡	‡	‡	‡		‡	‡	‡
REMETOOK (Remedial courses: took in 2019–20)													
Before imputation													
Mean percent relative bias across characteristics	12.16	13.94	13.10	12.84	9.48	9.23	28.98	7.72	9.88		13.83	17.29	9.31
Median percent relative bias across characteristics	9.64	10.73	11.16	10.11	6.29	5.12	25.24	3.82	6.90		9.66	10.16	6.05
Percentage of characteristics with significant bias	83.06	21.33	64.22	49.52	46.73	53.64	25.58	42.72	51.92		38.95	39.81	34.58
Median effect size	0.12	0.11	0.10	0.10	0.07	0.07	0.19	0.05	0.07		0.11	0.13	0.06
After imputation													
Difference between pre- and postimputation means	3.70*	‡	5.29*	6.41*	4.67*	1.49*	6.45	1.08*	1.32*		0.10	0.04*	2.33
Effect size for difference	0.06	‡	0.07	0.08	0.08	0.04	0.09	0.03	0.03		‡	‡	0.04

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit			
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting			
Variable	All students	Less-than-2-year	2-year				Less-than-4-year				Less-than-2-year	2-year	4-year
REMMATH (Remedial courses: number taken in math in 2019–20)													
Before imputation													
Mean percent relative bias across characteristics	27.68	35.24	31.60	32.14	28.33	32.38	66.01	28.42	37.48		50.94	52.83	39.96
Median percent relative bias across characteristics	25.99	20.78	31.21	27.95	20.13	26.86	50.65	17.98	30.32		29.32	26.58	34.31
Percentage of characteristics with significant bias	67.74	11.43	67.89	40.95	30.84	42.73	24.71	26.47	38.46		13.19	14.85	16.82
Median effect size	0.24	0.23	0.23	0.26	0.19	0.27	0.42	0.23	0.34		0.29	0.25	0.35
After imputation													
Difference between pre- and postimputation means	0.84	‡	0.79	1.59	4.68	7.33*	‡	‡	1.81		‡	‡	2.76
Effect size for difference	0.01	‡	0.01	0.02	‡	‡	‡	‡	‡		‡	‡	‡
REMRW (Remedial courses: number taken in reading/writing in 2019–20)													
Before imputation													
Mean percent relative bias across characteristics	27.67	33.38	32.12	33.36	27.73	31.28	68.02	27.33	36.48		50.94	52.75	39.68
Median percent relative bias across characteristics	26.22	20.90	31.62	30.30	19.26	25.38	48.00	16.95	30.68		29.32	26.51	33.47
Percentage of characteristics with significant bias	68.55	9.86	69.72	42.86	28.97	41.82	27.06	25.49	39.42		13.19	14.85	16.82
Median effect size	0.24	0.26	0.24	0.26	0.18	0.27	0.47	0.22	0.31		0.29	0.25	0.35
After imputation													
Difference between pre- and postimputation means	0.02	‡	0.91	4.66	6.46*	1.11	‡	‡	2.93		‡	‡	6.96
Effect size for difference	#	‡	0.01	0.05	0.09	‡	‡	‡	‡		‡	‡	‡

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
REMSTAT (Remedial courses: Year taken and subjects taken in 2019–20)												
Before imputation												
Mean percent relative bias across characteristics	12.26	13.77	13.10	12.96	9.55	9.23	29.21	7.69	9.88	13.83	17.33	9.32
Median percent relative bias across characteristics	9.87	10.70	11.23	9.79	6.42	5.09	25.47	3.84	6.99	9.66	10.23	6.06
Percentage of characteristics with significant bias	83.87	21.33	64.22	50.48	46.73	53.64	25.58	42.72	51.92	38.95	40.78	34.58
Median effect size	0.12	0.11	0.10	0.10	0.07	0.07	0.20	0.05	0.07	0.11	0.13	0.06
After imputation												
Difference between pre- and postimputation means	10.92*	‡	15.56*	23.33*	23.08*	5.36*	49.19	13.74*	13.27*	‡	‡	14.39*
Effect size for difference	0.12	‡	0.16	‡	‡	0.07	‡	‡	‡	‡	‡	‡
RISKIND2 (Index of risk and nontraditional students, modified)												
Before imputation												
Mean percent relative bias across characteristics	12.37	13.68	14.52	15.08	9.35	10.26	21.54	9.35	11.63	18.23	19.36	10.73
Median percent relative bias across characteristics	10.24	12.24	13.30	12.47	5.11	5.69	17.02	5.78	7.74	13.99	13.37	6.94
Percentage of characteristics with significant bias	76.61	28.38	68.81	57.69	52.34	55.45	24.42	57.14	55.24	46.88	34.95	34.26
Median effect size	0.11	0.11	0.12	0.10	0.07	0.08	0.19	0.06	0.08	0.13	0.16	0.06
After imputation												
Difference between pre- and postimputation means	2.32*	3.79	2.10*	1.30*	1.33*	0.92*	‡	2.71*	2.27*	7.01*	5.50*	2.71*
Effect size for difference	0.03	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit			
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting			
Variable	All students	Less-than-2-year	2-year				Less-than-4-year				Less-than-2-year	2-year	4-year
RISKINDX (Index of risk and nontraditional students)													
Before imputation													
Mean percent relative bias across characteristics	12.35	13.51	14.55	15.09	9.34	10.23	21.55	9.30	11.63		18.27	19.34	10.78
Median percent relative bias across characteristics	10.22	12.06	13.33	12.47	5.09	5.84	17.07	5.79	7.80		13.65	13.35	7.02
Percentage of characteristics with significant bias	76.61	29.73	68.81	56.73	52.34	55.45	22.09	58.10	55.24		46.88	34.95	35.19
Median effect size	0.11	0.11	0.12	0.11	0.07	0.08	0.20	0.06	0.08		0.13	0.16	0.06
After imputation													
Difference between pre- and postimputation means	2.17*	4.15	1.90*	1.22	1.41*	0.96*	‡	2.60*	2.29*		7.68*	4.73*	2.43*
Effect size for difference	0.03	‡	‡	‡	‡	‡	‡	‡	‡		‡	‡	‡
SAGI (Independent students: Adjusted gross income)													
Before imputation													
Mean percent relative bias across characteristics	37.96	50.59	43.61	42.63	35.55	49.91	39.31	40.40	46.11		31.51	43.47	25.97
Median percent relative bias across characteristics	25.23	46.74	31.82	33.85	21.69	31.36	36.24	35.96	39.32		24.67	37.38	18.63
Percentage of characteristics with significant bias	70.16	53.33	67.89	62.50	54.21	61.47	40.96	61.76	55.77		53.13	45.63	40.37
Median effect size	0.32	0.59	0.43	0.39	0.27	0.30	0.43	0.39	0.47		0.28	0.39	0.21
After imputation													
Difference between pre- and postimputation means	15.10*	10.49	16.39*	13.37*	20.90*	16.06*	0.13	12.99*	11.84*		4.85*	1.08	13.95*
Effect size for difference	0.16	0.10	0.18	0.14	0.17	0.15	#	0.14	0.12		0.04	0.01	0.15

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
		Less- than- 2-year	2-year	4-year, non- doctorate- granting, primarily subbacca- laureate	4-year, non- doctorate- granting, primarily bacca- laureate	4-year, doctorate- granting	Less- than- 4-year	4-year, non- doctorate- granting	4-year, doctorate- granting	Less- than- 2-year	2-year	4-year
Variable	All students											
SEOGAMT (Federal Supplemental Educational Opportunity Grant [SEOG])												
Before imputation												
Mean percent relative bias across characteristics	11.36	14.44	12.43	13.10	9.82	9.14	23.98	9.76	10.01	21.65	20.62	9.52
Median percent relative bias across characteristics	8.58	10.58	9.36	9.96	6.70	4.66	15.87	5.09	5.97	15.70	14.47	7.18
Percentage of characteristics with significant bias	69.35	24.00	59.63	50.96	41.67	51.82	11.90	34.62	48.57	30.93	21.36	17.76
Median effect size	0.10	0.10	0.07	0.09	0.07	0.07	0.20	0.06	0.07	0.14	0.17	0.07
After imputation												
Difference between pre- and postimputation means	9.59*	‡	19.82*	17.33*	25.18*	9.70*	2.28	6.64*	1.71	23.13	0.99	7.35
Effect size for difference	0.02	‡	0.04	0.03	0.06	0.02	0.01	0.02	#	0.08	#	0.02
SES (Socioeconomic status percentile)												
Before imputation												
Mean percent relative bias across characteristics	33.00	56.26	32.36	35.45	25.09	26.30	54.89	28.78	32.02	35.16	41.08	63.23
Median percent relative bias across characteristics	27.99	46.34	23.36	25.69	17.53	14.08	43.62	22.61	21.18	23.13	30.43	52.03
Percentage of characteristics with significant bias	86.55	33.33	73.79	64.65	64.42	58.88	30.49	57.00	63.73	35.96	34.02	41.35
Median effect size	0.32	0.46	0.27	0.27	0.17	0.18	0.40	0.28	0.21	0.19	0.27	0.45
After imputation												
Difference between pre- and postimputation means	5.12*	5.96	6.59*	6.91*	3.81*	5.94*	1.53	3.18*	6.22*	3.52	5.15	5.77
Effect size for difference	0.09	0.10	0.10	0.11	0.07	0.12	0.02	0.06	0.14	0.04	0.06	0.08

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
SFEDTAX (Independent students: Federal tax paid)												
Before imputation												
Mean percent relative bias across characteristics	34.89	49.88	40.89	40.63	32.83	45.93	37.37	36.99	45.52	31.39	40.36	24.33
Median percent relative bias across characteristics	26.14	52.27	34.95	34.88	20.72	29.01	35.77	31.37	36.06	23.53	34.07	21.04
Percentage of characteristics with significant bias	68.55	52.63	71.56	62.86	60.75	63.64	38.10	59.80	58.49	53.13	49.51	42.20
Median effect size	0.34	0.52	0.40	0.37	0.26	0.26	0.39	0.36	0.45	0.27	0.33	0.16
After imputation												
Difference between pre- and postimputation means	20.88*	4.59	22.04*	8.12	36.86*	26.49*	6.43	20.98*	13.23	3.47	5.54	19.70*
Effect size for difference	0.09	0.02	0.10	0.04	0.13	0.10	0.03	0.09	0.06	0.01	0.02	0.08
SFEDTAXD (Dependent student: Federal tax paid)												
Before imputation												
Mean percent relative bias across characteristics	31.36	51.94	33.70	35.91	23.83	26.77	46.38	25.17	32.30	37.37	42.31	51.06
Median percent relative bias across characteristics	23.86	45.69	25.78	28.88	16.46	16.24	40.82	17.44	20.58	22.51	33.05	47.75
Percentage of characteristics with significant bias	88.24	32.35	76.92	67.00	69.23	65.09	26.92	62.00	67.00	42.70	41.24	34.31
Median effect size	0.29	0.50	0.29	0.24	0.20	0.19	0.37	0.22	0.25	0.19	0.29	0.38
After imputation												
Difference between pre- and postimputation means	19.74*	49.30*	15.12*	34.42*	11.71	19.60*	1.56	13.20*	22.86*	29.95*	4.73	20.76
Effect size for difference	0.01	0.20	0.01	0.07	0.01	0.02	0.01	0.02	0.03	0.10	0.01	0.06

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting						
Variable	All students	Less-than-2-year	2-year				Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
SJMAJOR (Work-study job: related to major or coursework)												
Before imputation												
Mean percent relative bias across characteristics	71.69	‡	84.29	91.19	52.02	52.79	‡	45.57	46.00	‡	‡	93.68
Median percent relative bias across characteristics	67.35	‡	56.64	57.40	49.68	44.19	‡	37.18	34.77	‡	‡	52.04
Percentage of characteristics with significant bias	86.55	‡	45.00	35.96	52.04	55.88	‡	57.29	50.53	‡	‡	23.86
Median effect size	0.78	‡	0.68	0.90	0.49	0.41	‡	0.47	0.44	‡	‡	0.54
After imputation												
Difference between pre- and postimputation means	1.35	‡	3.37	22.18	3.51	1.16	‡	0.33	5.52	‡	‡	‡
Effect size for difference	0.01	‡	0.04	‡	0.04	0.01	‡	#	0.06	‡	‡	‡
SJONOFF (Work-study job: located primarily on or off campus)												
Before imputation												
Mean percent relative bias across characteristics	71.56	‡	84.30	91.43	51.99	52.38	‡	45.46	45.81	‡	‡	93.68
Median percent relative bias across characteristics	67.08	‡	56.94	57.04	49.91	43.52	‡	37.44	34.77	‡	‡	52.04
Percentage of characteristics with significant bias	85.71	‡	45.00	35.96	52.04	53.92	‡	57.29	50.53	‡	‡	23.86
Median effect size	0.78	‡	0.68	0.91	0.48	0.41	‡	0.47	0.43	‡	‡	0.54
After imputation												
Difference between pre- and postimputation means	0.03	‡	1.29	3.55	0.22	1.45	‡	0.70	1.21	‡	‡	‡
Effect size for difference	#	‡	‡	‡	‡	0.02	‡	‡	0.02	‡	‡	‡

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
SNEED1 (Student budget minus EFC)												
Before imputation												
Mean percent relative bias across characteristics	25.31	39.23	31.55	30.23	23.39	25.38	33.36	23.44	26.86	27.12	32.66	22.24
Median percent relative bias across characteristics	18.16	33.04	20.44	24.66	18.71	15.36	30.69	16.19	17.65	22.72	28.65	16.64
Percentage of characteristics with significant bias	80.65	41.89	71.56	62.86	66.67	68.18	22.62	69.23	65.71	53.13	42.72	36.70
Median effect size	0.26	0.43	0.26	0.26	0.23	0.18	0.35	0.21	0.22	0.26	0.32	0.15
After imputation												
Difference between pre- and postimputation means	11.01*	37.32*	19.05*	11.26*	11.05*	8.36*	3.90*	4.85	2.83*	2.82*	6.39*	12.20*
Effect size for difference	0.10	0.31	0.19	0.11	0.13	0.10	0.08	0.06	0.04	0.06	0.12	0.14
SNEED2 (Student budget minus EFC minus total aid)												
Before imputation												
Mean percent relative bias across characteristics	25.47	38.81	34.71	30.70	23.60	24.73	37.61	25.63	25.57	42.45	47.33	26.54
Median percent relative bias across characteristics	19.55	32.08	26.80	26.47	17.74	16.18	30.91	20.96	17.48	42.15	36.75	23.20
Percentage of characteristics with significant bias	75.00	41.67	65.71	55.45	48.08	58.33	13.75	44.00	49.04	40.22	26.80	22.12
Median effect size	0.27	0.42	0.39	0.31	0.21	0.22	0.39	0.23	0.24	0.44	0.48	0.28
After imputation												
Difference between pre- and postimputation means	11.86*	16.26	1.63	0.27	9.71*	13.08*	5.85	30.13*	33.28*	9.30*	1.65	7.79
Effect size for difference	0.08	0.12	0.01	#	0.07	0.09	0.06	0.18	0.23	0.13	0.02	0.05

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
SNEED3 (Student budget minus EFC minus federal grants)												
Before imputation												
Mean percent relative bias across characteristics	27.74	38.80	36.54	31.87	25.70	27.41	37.82	28.44	26.78	42.48	41.24	26.26
Median percent relative bias across characteristics	19.98	33.13	27.59	26.74	17.63	18.24	30.13	22.01	16.05	41.18	31.31	22.44
Percentage of characteristics with significant bias	75.81	43.06	70.37	56.31	54.21	60.36	15.00	45.19	50.94	40.22	22.22	24.04
Median effect size	0.28	0.44	0.39	0.31	0.21	0.23	0.39	0.22	0.24	0.44	0.38	0.28
After imputation												
Difference between pre- and postimputation means	7.64*	27.88	7.89*	4.87	3.65	4.83*	8.91	6.19	1.23	4.07	10.47	0.42
Effect size for difference	0.07	0.22	0.08	0.05	0.04	0.05	0.16	0.07	0.02	0.08	0.17	#
SNEED4 (Student budget minus EFC and aid subject to EFC limitation)												
Before imputation												
Mean percent relative bias across characteristics	27.66	38.77	36.75	30.91	24.60	26.50	37.13	26.24	27.97	40.44	46.25	26.04
Median percent relative bias across characteristics	19.32	33.15	27.92	24.85	17.71	14.98	29.87	20.11	16.33	37.81	34.44	20.88
Percentage of characteristics with significant bias	75.61	43.06	67.59	60.19	54.72	63.30	14.46	51.49	58.49	43.62	26.26	29.91
Median effect size	0.28	0.44	0.39	0.31	0.22	0.22	0.42	0.22	0.24	0.42	0.46	0.26
After imputation												
Difference between pre- and postimputation means	3.19*	28.09	5.37*	2.47	0.13	5.28*	5.30	12.01	20.08*	3.83	4.58	1.50
Effect size for difference	0.03	0.23	0.05	0.02	#	0.04	0.08	0.09	0.17	0.07	0.06	0.01

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
SNEED5 (Student budget minus EFC minus all grants)												
Before imputation												
Mean percent relative bias across characteristics	26.10	38.80	34.92	30.56	23.77	25.41	37.82	25.58	25.29	42.48	47.31	26.26
Median percent relative bias across characteristics	19.83	33.13	26.22	26.76	18.09	15.70	30.13	20.89	16.12	41.18	39.49	22.44
Percentage of characteristics with significant bias	75.21	43.06	65.71	55.45	50.96	58.72	15.00	44.00	49.04	40.22	26.80	24.04
Median effect size	0.28	0.44	0.39	0.31	0.21	0.22	0.39	0.22	0.24	0.44	0.49	0.28
After imputation												
Difference between pre- and postimputation means	0.65	29.96	5.78*	4.64	1.80	0.30	8.16	6.10	14.46*	2.47	6.98	2.33
Effect size for difference	0.01	0.23	0.05	0.04	0.02	#	0.14	0.05	0.14	0.05	0.11	0.02
SNEED7 (Student budget minus EFC, federal and state grants)												
Before imputation												
Mean percent relative bias across characteristics	27.17	38.80	36.08	31.90	24.45	26.77	37.82	27.04	26.00	42.48	41.24	26.26
Median percent relative bias across characteristics	20.00	33.13	26.94	26.71	18.74	17.27	30.13	21.29	16.14	41.18	31.31	22.44
Percentage of characteristics with significant bias	75.61	43.06	66.36	56.31	50.48	60.00	15.00	44.12	49.52	40.22	22.22	24.04
Median effect size	0.28	0.44	0.39	0.31	0.21	0.23	0.39	0.22	0.24	0.44	0.38	0.28
After imputation												
Difference between pre- and postimputation means	6.52*	27.48	7.03*	4.70	3.34	3.12*	8.09	4.69	0.65	3.11	11.19	1.02
Effect size for difference	0.06	0.22	0.07	0.04	0.04	0.03	0.15	0.05	0.01	0.06	0.18	0.01

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
SNEED8 (Student budget minus EFC and federal, state, and other grants)												
Before imputation												
Mean percent relative bias across characteristics	27.17	38.80	36.08	31.91	24.47	26.77	37.82	25.59	26.00	42.48	41.24	26.26
Median percent relative bias across characteristics	20.00	33.13	26.94	26.72	18.75	17.27	30.13	20.88	16.14	41.18	31.31	22.44
Percentage of characteristics with significant bias	75.61	43.06	66.36	56.31	51.43	60.00	15.00	44.00	49.52	40.22	22.22	24.04
Median effect size	0.28	0.44	0.39	0.31	0.21	0.23	0.39	0.22	0.24	0.44	0.38	0.28
After imputation												
Difference between pre- and postimputation means	6.16*	28.66	6.60*	4.56	3.39	2.98*	7.67	4.05	0.14	2.76	10.66	0.85
Effect size for difference	0.05	0.22	0.06	0.04	0.04	0.03	0.13	0.04	#	0.05	0.17	0.01
SNEED9 (Student budget minus EFC and all aid except private loans)												
Before imputation												
Mean percent relative bias across characteristics	25.49	38.80	34.92	30.56	23.76	24.74	37.89	25.61	25.30	42.65	47.52	26.26
Median percent relative bias across characteristics	19.61	33.13	26.21	26.76	18.06	15.82	30.35	20.75	16.08	41.48	36.53	22.42
Percentage of characteristics with significant bias	75.00	43.06	65.71	55.45	50.96	58.33	13.75	44.00	49.04	40.22	26.80	24.04
Median effect size	0.28	0.44	0.39	0.31	0.21	0.22	0.40	0.22	0.24	0.44	0.49	0.28
After imputation												
Difference between pre- and postimputation means	10.71*	19.32	1.91	2.45	9.00*	12.24*	2.41	26.76*	29.85*	9.44*	5.48	12.49
Effect size for difference	0.07	0.14	0.02	0.02	0.07	0.09	0.02	0.17	0.22	0.13	0.06	0.09

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting		
Variable	All students	Less-than-2-year	2-year				Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
SPSINC (Independent students: Spouse's income)												
Before imputation												
Mean percent relative bias across characteristics	45.12	53.40	52.24	49.80	47.97	67.02	42.39	46.43	58.74	39.47	55.60	27.99
Median percent relative bias across characteristics	28.26	48.80	32.37	32.77	34.60	34.26	31.67	43.93	37.40	25.88	36.23	17.92
Percentage of characteristics with significant bias	61.98	43.48	62.26	45.54	51.43	57.01	28.75	67.35	52.94	37.63	47.00	31.07
Median effect size	0.36	0.57	0.47	0.43	0.41	0.42	0.38	0.40	0.45	0.27	0.40	0.15
After imputation												
Difference between pre- and postimputation means	5.66*	26.16	2.87	3.23	19.11	10.28*	‡	0.91	2.30	7.48	4.49*	9.42*
Effect size for difference	0.05	0.17	0.03	0.03	0.13	0.09	‡	0.01	0.02	0.06	0.04	0.08
STABEVR (Ever studied abroad during undergraduate education)												
Before imputation												
Mean percent relative bias across characteristics	12.80	16.11	15.39	16.70	9.27	10.68	23.75	8.69	11.67	15.89	18.81	11.06
Median percent relative bias across characteristics	10.49	13.13	12.37	14.87	5.28	6.07	20.02	4.91	8.32	12.15	14.16	8.09
Percentage of characteristics with significant bias	79.84	28.95	63.30	58.65	49.53	59.09	23.81	38.46	56.19	45.83	38.83	34.26
Median effect size	0.11	0.13	0.13	0.13	0.07	0.09	0.22	0.05	0.08	0.12	0.13	0.07
After imputation												
Difference between pre- and postimputation means	0.01	0.26	0.19	0.03	0.46	0.32	0.01	0.12	0.78*	0.37	0.32*	0.23*
Effect size for difference	#	‡	#	‡	0.01	0.01	‡	#	0.01	‡	‡	‡

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit			
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year	
Variable	All students												
STABREG (Study abroad region)													
Before imputation													
Mean percent relative bias across characteristics	34.24	72.58	31.66	38.36	26.33	22.68	53.19	40.02	31.44	52.91	52.29	42.01	
Median percent relative bias across characteristics	24.77	73.35	16.51	24.31	14.06	18.67	48.09	33.55	23.64	28.74	41.14	28.12	
Percentage of characteristics with significant bias	71.77	49.28	36.70	14.00	26.92	43.52	27.50	51.96	49.04	21.28	24.00	13.33	
Median effect size	0.26	0.39	0.14	0.24	0.17	0.18	0.21	0.31	0.25	0.29	0.38	0.23	
After imputation													
Difference between pre- and postimputation means	7.77*	‡	9.70*	‡	5.00	0.10	‡	5.60	2.29	‡	‡	‡	
Effect size for difference	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	
STABTIME (Length of time studied abroad)													
Before imputation													
Mean percent relative bias across characteristics	38.77	84.27	34.55	40.32	27.51	23.66	50.25	44.47	31.45	54.85	50.78	44.83	
Median percent relative bias across characteristics	30.25	72.44	20.23	25.90	14.97	18.85	44.50	38.31	24.30	30.44	38.81	33.95	
Percentage of characteristics with significant bias	75.00	60.56	43.12	15.00	26.92	46.30	20.78	56.86	50.49	12.09	26.32	12.62	
Median effect size	0.29	0.41	0.20	0.26	0.15	0.21	0.25	0.33	0.27	0.27	0.39	0.26	
After imputation													
Difference between pre- and postimputation means	7.04*	‡	8.26	‡	4.56	2.42	‡	5.11	2.75	‡	8.30	33.04*	
Effect size for difference	0.09	‡	0.09	‡	‡	‡	‡	‡	‡	‡	‡	‡	

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
		Less- than- 2-year	2-year	4-year, non- doctorate- granting, primarily subbacca- laureate	4-year, non- doctorate- granting, primarily bacca- laureate	4-year, doctorate- granting	Less- than- 4-year	4-year, non- doctorate- granting	4-year, doctorate- granting	Less- than- 2-year	2-year	4-year
Variable	All students											
STAPCT (Ratio of state aid to total aid)												
Before imputation												
Mean percent relative bias across characteristics	20.26	26.00	32.53	28.74	15.67	15.52	38.01	18.25	15.77	44.01	43.24	18.78
Median percent relative bias across characteristics	16.68	22.48	28.08	27.06	10.57	9.97	26.98	11.10	11.15	40.62	38.00	11.64
Percentage of characteristics with significant bias	73.33	37.68	70.48	56.44	31.43	56.48	15.85	25.74	45.10	48.39	29.90	8.65
Median effect size	0.23	0.27	0.39	0.29	0.16	0.13	0.36	0.16	0.14	0.46	0.44	0.17
After imputation												
Difference between pre- and postimputation means	5.15*	‡	10.78*	1.17	10.16	0.52	19.23	0.90	8.49	66.58*	65.35*	28.66
Effect size for difference	0.02	‡	0.06	0.01	0.06	#	0.09	#	0.03	0.15	0.16	0.04
STATEAMT (State aid total)												
Before imputation												
Mean percent relative bias across characteristics	15.76	‡	10.87	9.08	6.55	5.94	16.26	10.51	6.26	20.50	14.31	10.40
Median percent relative bias across characteristics	11.07	‡	6.49	2.98	2.17	1.20	6.85	5.18	2.26	12.47	7.50	4.74
Percentage of characteristics with significant bias	74.80	‡	40.38	44.12	11.24	15.56	0.00	3.61	11.76	18.42	8.64	0.00
Median effect size	0.15	‡	0.07	0.06	0.04	0.02	0.11	0.07	0.03	0.16	0.11	0.05
After imputation												
Difference between pre- and postimputation means	2.44	‡	8.03*	6.16	1.28	0.62	25.98	18.00	3.23	61.90*	56.36*	6.75
Effect size for difference	0.01	‡	0.03	0.02	0.01	#	0.12	0.07	0.01	0.13	0.14	0.01

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting						
Variable	All students	Less-than-2-year	2-year				Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
STATNEED (State need-based grants)												
Before imputation												
Mean percent relative bias across characteristics	15.80	15.44	20.90	19.55	12.97	13.92	27.50	17.38	14.42	32.14	28.83	15.02
Median percent relative bias across characteristics	11.04	10.91	15.76	15.13	7.72	6.68	20.03	9.14	8.34	21.91	16.59	9.91
Percentage of characteristics with significant bias	74.19	26.76	65.14	58.65	39.25	54.55	10.71	18.27	46.23	47.42	23.00	24.76
Median effect size	0.14	0.16	0.15	0.14	0.08	0.08	0.28	0.12	0.09	0.27	0.25	0.12
After imputation												
Difference between pre- and postimputation means	1.37	‡	10.10*	11.29*	0.20	1.55	9.86	18.75*	0.35	78.90*	53.26*	8.22
Effect size for difference	#	‡	0.03	0.03	#	0.01	0.05	0.06	#	0.15	0.13	0.01
STATNOND (State nonneed and merit grants)												
Before imputation												
Mean percent relative bias across characteristics	15.80	15.44	20.90	19.56	13.03	13.94	27.50	17.38	14.46	31.59	28.83	15.02
Median percent relative bias across characteristics	11.07	10.91	15.81	15.16	7.50	6.70	20.03	9.02	8.20	21.93	16.59	9.91
Percentage of characteristics with significant bias	74.19	26.76	64.22	58.65	41.12	54.55	10.71	19.23	46.23	45.36	23.00	24.76
Median effect size	0.14	0.16	0.15	0.14	0.08	0.08	0.28	0.12	0.09	0.26	0.25	0.12
After imputation												
Difference between pre- and postimputation means	2.05	‡	7.33	0.39	6.08	0.14	30.36	13.48	3.99	53.53	94.63	2.03
Effect size for difference	#	‡	0.02	#	0.02	#	0.02	0.03	0.01	0.04	0.05	#

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting		4-year, doctorate-granting			
Variable	All students	Less-than-2-year	2-year				Less-than-4-year			Less-than-2-year	2-year	4-year
STAXFILE (Independent students: Federal tax filed)												
Before imputation												
Mean percent relative bias across characteristics	36.22	49.83	41.90	41.47	33.55	47.08	38.83	38.35	45.73	31.33	44.98	25.41
Median percent relative bias across characteristics	25.70	44.00	33.98	35.64	20.66	29.26	36.45	33.87	37.73	22.17	38.72	20.84
Percentage of characteristics with significant bias	69.35	54.67	72.48	63.46	57.94	64.55	38.37	60.78	59.05	56.25	48.54	42.20
Median effect size	0.35	0.55	0.41	0.37	0.26	0.26	0.40	0.38	0.45	0.27	0.38	0.19
After imputation												
Difference between pre- and postimputation means	2.72*	0.18	4.26*	1.20	2.24	1.90	1.37	2.53	3.62	2.04	0.54	3.59*
Effect size for difference	0.04	‡	0.06	0.02	0.03	0.03	‡	0.03	0.05	0.03	0.01	0.05
STAXFILED (Dependent student: Federal tax filed)												
Before imputation												
Mean percent relative bias across characteristics	31.50	52.01	33.78	36.05	23.87	26.89	47.79	25.22	32.32	38.39	45.30	51.25
Median percent relative bias across characteristics	23.89	44.36	25.76	29.02	16.40	16.25	40.50	17.53	20.45	25.33	36.00	47.73
Percentage of characteristics with significant bias	88.24	32.35	76.92	67.00	68.27	66.04	28.21	62.00	67.00	42.70	42.27	33.33
Median effect size	0.29	0.50	0.29	0.23	0.20	0.19	0.40	0.21	0.25	0.21	0.33	0.38
After imputation												
Difference between pre- and postimputation means	10.57*	32.01*	16.80*	17.30*	5.60*	7.37*	4.32*	7.04*	8.12*	15.95*	12.47*	3.29
Effect size for difference	0.11	‡	0.17	0.18	0.06	0.07	‡	0.07	0.08	0.16	0.13	0.03

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
STGRPCT (Ratio of state grants to total aid)												
Before imputation												
Mean percent relative bias across characteristics	20.26	26.00	32.53	28.74	15.67	15.52	38.01	18.25	15.77	44.01	43.24	18.78
Median percent relative bias across characteristics	16.68	22.48	28.08	27.06	10.57	9.97	26.98	11.10	11.15	40.62	38.00	11.64
Percentage of characteristics with significant bias	73.33	37.68	70.48	56.44	31.43	56.48	15.85	25.74	45.10	48.39	29.90	8.65
Median effect size	0.23	0.27	0.39	0.29	0.16	0.13	0.36	0.16	0.14	0.46	0.44	0.17
After imputation												
Difference between pre- and postimputation means	5.68*	‡	12.05*	1.13	9.32	0.25	18.44	0.84	9.03	85.71*	66.31*	30.41
Effect size for difference	0.03	‡	0.07	0.01	0.05	#	0.09	#	0.03	0.18	0.16	0.04
STGTAMT (State grants total)												
Before imputation												
Mean percent relative bias across characteristics	15.80	‡	10.03	9.64	6.55	6.81	19.39	11.29	6.81	19.90	14.26	11.49
Median percent relative bias across characteristics	11.03	‡	4.61	2.56	2.16	1.35	7.18	5.00	2.19	13.02	7.58	4.80
Percentage of characteristics with significant bias	74.19	‡	38.83	34.85	11.24	18.89	0.00	2.41	10.59	22.67	8.64	0.00
Median effect size	0.14	‡	0.06	0.05	0.04	0.03	0.12	0.06	0.03	0.17	0.12	0.06
After imputation												
Difference between pre- and postimputation means	1.52	‡	8.84*	8.01	1.76	0.97	8.77	17.57	1.75	77.72*	56.11*	7.82
Effect size for difference	0.01	‡	0.03	0.03	0.01	#	0.04	0.07	0.01	0.16	0.14	0.01

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit			
		Less- than- 2-year	2-year	4-year, non- doctorate- granting, primarily subbacca- laureate	4-year, non- doctorate- granting, primarily bacca- laureate	4-year, doctorate- granting	Less- than- 4-year	4-year, non- doctorate- granting	4-year, doctorate- granting	Less- than- 2-year	2-year	4-year	
Variable	All students												
STLNAME (State loans)													
Before imputation													
Mean percent relative bias across characteristics	11.16	13.90	13.44	13.94	8.58	9.67	20.55	8.08	10.47	15.89	19.82	9.06	
Median percent relative bias across characteristics	9.02	10.11	11.36	11.77	5.03	5.78	16.58	4.61	6.51	11.16	11.62	6.37	
Percentage of characteristics with significant bias	74.19	24.00	64.22	55.34	48.60	56.36	17.07	25.49	54.29	53.68	25.24	36.45	
Median effect size	0.09	0.10	0.12	0.10	0.06	0.07	0.18	0.05	0.07	0.13	0.16	0.06	
After imputation													
Difference between pre- and postimputation means	3.58	‡	14.55	‡	21.38	1.45*	‡	1.66	8.00	100.00	#	0.10	
Effect size for difference	#	‡	#	‡	0.01	#	‡	#	#	0.01	‡	#	
STMERIT (State merit-only grants)													
Before imputation													
Mean percent relative bias across characteristics	14.56	17.18	19.29	16.50	11.94	13.37	27.50	16.91	13.84	25.41	24.68	16.61	
Median percent relative bias across characteristics	10.87	10.35	15.78	13.18	7.08	6.78	20.03	9.34	8.75	20.86	14.85	10.01	
Percentage of characteristics with significant bias	71.77	22.67	65.14	55.77	46.30	55.45	10.71	19.23	48.11	39.18	25.74	24.30	
Median effect size	0.12	0.12	0.15	0.13	0.08	0.09	0.28	0.12	0.09	0.22	0.21	0.12	
After imputation													
Difference between pre- and postimputation means	3.90	‡	9.49	2.91	2.34	0.25	11.01	9.05	3.50	89.18	94.56	23.93	
Effect size for difference	0.01	‡	0.01	#	0.01	#	#	0.01	#	0.01	0.05	#	

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting		4-year, doctorate-granting			
Variable	All students	Less-than-2-year	2-year				Less-than-4-year	doctorate-granting	doctorate-granting	Less-than-2-year	2-year	4-year
STMILAMT (State military/Armed Forces grants)												
Before imputation												
Mean percent relative bias across characteristics	12.57	16.59	15.26	14.03	9.39	11.60	27.36	15.04	12.28	17.14	20.48	8.99
Median percent relative bias across characteristics	9.47	10.88	11.51	11.98	5.75	6.64	19.63	9.33	7.58	12.21	11.52	6.87
Percentage of characteristics with significant bias	70.16	24.00	66.06	55.77	45.79	59.09	10.84	24.04	50.48	50.00	25.49	36.79
Median effect size	0.10	0.12	0.14	0.10	0.08	0.08	0.28	0.14	0.08	0.15	0.14	0.06
After imputation												
Difference between pre- and postimputation means	14.83	‡	11.50	#	#	10.50	10.86	64.27	42.84	#	#	#
Effect size for difference	#	‡	#	‡	‡	#	#	0.01	0.01	‡	‡	‡
STNDMRT (State grants based both on need and merit)												
Before imputation												
Mean percent relative bias across characteristics	15.01	16.59	19.86	17.93	12.16	13.01	27.36	15.21	13.22	30.18	25.29	15.32
Median percent relative bias across characteristics	10.61	10.88	17.25	13.88	7.38	7.21	19.63	8.48	8.62	25.36	17.78	9.60
Percentage of characteristics with significant bias	75.00	24.00	65.14	61.54	45.37	55.45	10.84	23.08	50.48	44.33	28.71	21.50
Median effect size	0.13	0.12	0.15	0.15	0.08	0.08	0.28	0.11	0.09	0.26	0.20	0.11
After imputation												
Difference between pre- and postimputation means	2.91	‡	36.17*	2.12	2.88	4.51	9.75	20.89	3.20	95.26	5.97	39.86
Effect size for difference	#	‡	0.04	#	0.01	0.01	0.01	0.02	#	0.11	0.01	0.02

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
		Less- than- 2-year	2-year	4-year, non- doctorate- granting, primarily subbacca- laureate	4-year, non- doctorate- granting, primarily bacca- laureate	4-year, doctorate- granting	Less- than- 4-year	4-year, non- doctorate- granting	4-year, doctorate- granting	Less- than- 2-year	2-year	4-year
Variable	All students											
STNDONLY (State need-based only grants)												
Before imputation												
Mean percent relative bias across characteristics	15.80	15.44	20.90	19.55	12.97	13.92	27.50	17.38	14.42	32.14	28.83	15.02
Median percent relative bias across characteristics	11.04	10.91	15.76	15.13	7.72	6.68	20.03	9.14	8.34	21.91	16.59	9.91
Percentage of characteristics with significant bias	74.19	26.76	65.14	58.65	39.25	54.55	10.71	18.27	46.23	47.42	23.00	24.76
Median effect size	0.14	0.16	0.15	0.14	0.08	0.08	0.28	0.12	0.09	0.27	0.25	0.12
After imputation												
Difference between pre- and postimputation means	1.94	‡	3.55	12.45*	2.03	0.16	9.86	20.59	1.27	66.68	83.00*	9.92
Effect size for difference	0.01	‡	0.01	0.04	0.01	#	0.05	0.07	#	0.11	0.17	0.01
STNOND1 (State nonneed grants)												
Before imputation												
Mean percent relative bias across characteristics	15.69	15.44	20.58	19.56	13.63	13.81	27.50	16.59	14.37	31.82	29.52	15.02
Median percent relative bias across characteristics	10.90	10.91	15.11	15.16	7.47	6.82	20.03	9.16	8.14	21.89	18.64	9.91
Percentage of characteristics with significant bias	75.00	26.76	64.22	58.65	41.67	53.64	10.71	16.35	45.71	45.36	27.72	24.76
Median effect size	0.14	0.16	0.15	0.14	0.08	0.08	0.28	0.10	0.09	0.26	0.25	0.12
After imputation												
Difference between pre- and postimputation means	5.79*	‡	8.86	3.39	3.57	2.90	100.00	15.38	0.60	50.47	95.52	4.02
Effect size for difference	0.01	‡	0.02	0.01	0.01	#	0.10	0.02	#	0.04	0.03	#

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit			
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting			
Variable	All students	Less-than-2-year	2-year				Less-than-4-year				Less-than-2-year	2-year	4-year
STSUBMX (Direct Subsidized Loan program maximum)													
Before imputation													
Mean percent relative bias across characteristics	38.88	64.24	72.94	71.39	28.10	29.53	46.12	23.84	26.27		34.01	46.05	22.74
Median percent relative bias across characteristics	36.52	61.66	43.19	53.94	20.25	16.74	37.99	16.88	20.58		30.56	40.23	16.89
Percentage of characteristics with significant bias	79.66	58.49	71.84	67.35	64.36	62.50	30.14	63.54	61.22		54.44	41.67	32.00
Median effect size	0.41	0.77	0.59	0.59	0.25	0.23	0.48	0.25	0.25		0.34	0.42	0.20
After imputation													
Difference between pre- and postimputation means	0.21*	‡	‡	‡	‡	‡	‡	‡	‡		0.86	‡	0.36
Effect size for difference	#	‡	‡	‡	‡	‡	‡	‡	‡		‡	‡	‡
TEACTDER (ACT derived composite score)													
Before imputation													
Mean percent relative bias across characteristics	30.23	41.07	26.79	29.58	18.94	18.86	39.64	24.70	25.98		39.07	42.24	51.61
Median percent relative bias across characteristics	28.95	32.04	20.52	25.02	14.00	10.02	31.84	20.24	17.35		25.44	32.59	39.22
Percentage of characteristics with significant bias	86.99	27.40	70.37	57.69	55.14	62.39	17.24	59.22	64.42		33.68	30.00	39.81
Median effect size	0.26	0.30	0.19	0.20	0.16	0.12	0.26	0.20	0.19		0.23	0.35	0.35
After imputation													
Difference between pre- and postimputation means	3.69*	2.92	1.47*	0.29	0.50	1.25*	3.22	2.14*	2.65*		2.71	0.94	2.30
Effect size for difference	0.15	0.14	0.06	0.01	0.02	0.06	0.13	0.09	0.11		0.12	0.04	0.10

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
TESATDER (SAT derived composite score)												
Before imputation												
Mean percent relative bias across characteristics	30.23	41.07	26.79	29.58	18.94	18.86	39.64	24.70	25.98	39.07	42.24	51.61
Median percent relative bias across characteristics	28.95	32.04	20.52	25.02	14.00	10.02	31.84	20.24	17.35	25.44	32.59	39.22
Percentage of characteristics with significant bias	86.99	27.40	70.37	57.69	55.14	62.39	17.24	59.22	64.42	33.68	30.00	39.81
Median effect size	0.26	0.30	0.19	0.20	0.16	0.12	0.26	0.20	0.19	0.23	0.35	0.35
After imputation												
Difference between pre- and postimputation means	2.73*	1.61	1.24*	0.56	0.38	0.96*	2.56	1.54*	2.02*	1.94	0.26	1.37
Effect size for difference	0.15	0.11	0.07	0.03	0.03	0.06	0.15	0.09	0.12	0.13	0.02	0.08
TFEDAID (Total federal aid [excludes veterans/DOD])												
Before imputation												
Mean percent relative bias across characteristics	14.90	‡	10.78	9.03	10.22	8.30	14.75	11.59	7.79	22.11	18.31	15.95
Median percent relative bias across characteristics	10.58	‡	5.52	4.47	6.43	3.97	7.16	5.82	3.83	18.67	10.54	11.79
Percentage of characteristics with significant bias	68.29	‡	33.96	19.57	20.62	38.00	0.00	12.22	24.18	16.46	5.68	7.53
Median effect size	0.14	‡	0.06	0.08	0.08	0.05	0.12	0.06	0.05	0.18	0.16	0.17
After imputation												
Difference between pre- and postimputation means	5.04*	‡	8.66*	12.43*	8.33*	5.47*	11.06	0.36	5.77*	4.36	1.90	8.20
Effect size for difference	0.03	‡	0.05	0.08	0.07	0.04	0.15	#	0.04	0.06	0.03	0.08

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit			
				4-year, non- doctorate- granting, primarily subbacca- laureate	4-year, non- doctorate- granting, primarily bacca- laureate	4-year, doctorate- granting							
Variable	All students	Less- than- 2-year	2-year				Less- than- 4-year	4-year, non- doctorate- granting	4-year, doctorate- granting	Less- than- 2-year	2-year	4-year	
TFEDAID2 (Total federal aid [includes veterans/DOD])													
Before imputation													
Mean percent relative bias across characteristics	14.90	15.44	19.92	17.27	13.39	12.74	31.61	17.12	13.20	33.97	29.62	15.47	
Median percent relative bias across characteristics	10.58	10.88	15.00	12.30	7.31	6.10	21.67	8.82	6.59	30.60	19.84	9.72	
Percentage of characteristics with significant bias	68.29	26.76	64.81	42.72	25.93	50.91	7.23	17.31	37.14	35.48	14.14	4.85	
Median effect size	0.14	0.16	0.12	0.17	0.09	0.07	0.30	0.10	0.11	0.24	0.27	0.14	
After imputation													
Difference between pre- and postimputation means	4.51*	‡	8.05*	9.75*	7.62*	5.48*	8.44	1.58	5.41*	3.58	0.90	5.65	
Effect size for difference	0.03	‡	0.05	0.06	0.07	0.04	0.11	0.01	0.04	0.04	0.01	0.05	
TFEDAID6 (Total federal aid [excludes Parent PLUS Loans and veterans/DOD])													
Before imputation													
Mean percent relative bias across characteristics	14.90	15.44	19.92	17.27	13.39	12.74	31.61	17.12	13.20	33.97	29.62	15.47	
Median percent relative bias across characteristics	10.58	10.88	15.00	12.30	7.31	6.10	21.67	8.82	6.59	30.60	19.84	9.72	
Percentage of characteristics with significant bias	68.29	26.76	64.81	42.72	25.93	50.91	7.23	17.31	37.14	35.48	14.14	4.85	
Median effect size	0.14	0.16	0.12	0.17	0.09	0.07	0.30	0.10	0.11	0.24	0.27	0.14	
After imputation													
Difference between pre- and postimputation means	5.66*	‡	8.69*	12.63*	8.73*	5.85*	11.23	2.28	6.27*	4.51	1.56	6.57	
Effect size for difference	0.05	‡	0.05	0.08	0.08	0.06	0.16	0.02	0.06	0.06	0.02	0.07	

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit			
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year	
TFEDGRT (Total federal grants [excludes veterans/DOD])													
Before imputation													
Mean percent relative bias across characteristics	15.57	‡	10.78	9.03	10.22	9.22	14.93	11.55	7.78	22.16	17.92	15.94	
Median percent relative bias across characteristics	10.63	‡	5.51	4.47	6.44	4.00	7.17	5.71	3.89	18.06	10.83	11.81	
Percentage of characteristics with significant bias	68.55	‡	33.96	19.57	20.62	37.62	0.00	12.22	24.18	16.67	6.90	7.53	
Median effect size	0.14	‡	0.06	0.08	0.08	0.05	0.13	0.06	0.04	0.18	0.16	0.17	
After imputation													
Difference between pre- and postimputation means	8.14*	‡	11.14*	11.99*	15.28*	6.39*	6.05	4.36	7.24*	7.65*	1.02	2.03	
Effect size for difference	0.05	‡	0.07	0.07	0.11	0.04	0.09	0.03	0.04	0.10	0.01	0.02	
TFEDGRT2 (Total federal grants and veterans/DOD)													
Before imputation													
Mean percent relative bias across characteristics	15.57	15.44	19.92	17.27	13.40	13.53	31.58	17.12	13.19	33.66	29.60	15.47	
Median percent relative bias across characteristics	10.63	10.88	14.99	12.30	7.34	6.09	21.74	8.82	6.62	30.08	20.17	9.70	
Percentage of characteristics with significant bias	68.55	26.76	64.81	42.72	25.93	50.45	10.84	17.31	37.14	34.41	13.13	4.85	
Median effect size	0.14	0.16	0.12	0.17	0.09	0.07	0.30	0.10	0.11	0.23	0.27	0.14	
After imputation													
Difference between pre- and postimputation means	6.15*	‡	9.84*	8.19*	12.69*	6.12*	0.83	0.39	5.57*	1.45	6.87	2.76	
Effect size for difference	0.03	‡	0.05	0.04	0.08	0.03	0.01	#	0.02	0.01	0.05	0.02	

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit			
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year	
TFEDLN (Total federal loans [excludes Parent PLUS Loans])													
Before imputation													
Mean percent relative bias across characteristics	12.34	‡	2.77	3.30	2.57	1.42	6.92	4.55	2.57	9.76	6.65	2.84	
Median percent relative bias across characteristics	10.18	‡	1.09	0.88	0.84	0.17	3.82	2.07	0.96	7.02	3.16	0.46	
Percentage of characteristics with significant bias	76.61	‡	33.33	33.33	26.00	13.85	0.00	3.08	20.29	33.33	5.80	0.00	
Median effect size	0.11	‡	0.01	0.01	0.01	#	0.03	0.03	0.01	0.10	0.05	0.01	
After imputation													
Difference between pre- and postimputation means	0.03	‡	1.49	0.14	0.09	0.14	3.11	1.82	0.41	1.40	1.88	0.21	
Effect size for difference	#	‡	#	#	#	#	0.04	0.02	#	0.01	0.02	#	
TFEDLN2 (Total federal loans [includes Parent PLUS Loans])													
Before imputation													
Mean percent relative bias across characteristics	12.35	16.36	14.81	15.49	9.34	9.85	21.79	10.26	11.11	20.68	19.40	9.31	
Median percent relative bias across characteristics	10.16	11.13	13.17	12.62	5.26	5.33	17.49	6.25	6.85	17.37	11.71	6.35	
Percentage of characteristics with significant bias	76.61	24.00	65.14	56.73	47.66	58.18	15.85	42.16	52.88	50.00	32.04	34.58	
Median effect size	0.11	0.12	0.14	0.12	0.07	0.08	0.20	0.08	0.09	0.18	0.15	0.06	
After imputation													
Difference between pre- and postimputation means	0.19	‡	1.39	0.01	0.80	0.38	2.59	2.40	0.01	1.77	1.32	0.19	
Effect size for difference	#	‡	#	#	0.01	#	0.03	0.02	#	0.02	0.01	#	

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting		
Variable	All students	Less-than-2-year	2-year				Less-than-4-year			Less-than-2-year	2-year	4-year
TGRTLN (Total loans and grants)												
Before imputation												
Mean percent relative bias across characteristics	13.17	13.38	17.72	15.61	11.17	10.49	31.44	14.78	11.39	33.46	35.63	16.48
Median percent relative bias across characteristics	10.59	9.64	14.98	12.63	8.53	6.19	21.98	8.15	6.24	29.20	24.12	10.61
Percentage of characteristics with significant bias	66.67	22.86	62.86	39.60	20.00	47.22	9.64	16.83	36.27	33.33	22.68	4.81
Median effect size	0.15	0.16	0.12	0.18	0.09	0.07	0.30	0.10	0.11	0.23	0.36	0.14
After imputation												
Difference between pre- and postimputation means	0.32	6.46*	8.73*	12.09*	6.26*	2.03	11.96	5.89	0.39	8.72*	1.51	8.64
Effect size for difference	#	0.05	0.06	0.08	0.07	0.02	0.18	0.06	#	0.11	0.02	0.10
TITIVAMT (Total federal Title IV aid)												
Before imputation												
Mean percent relative bias across characteristics	11.47	‡	5.12	3.41	6.35	3.37	13.12	5.33	3.19	12.97	13.52	7.45
Median percent relative bias across characteristics	8.66	‡	3.12	1.64	4.33	1.60	6.25	3.49	1.57	8.56	9.83	5.54
Percentage of characteristics with significant bias	68.55	‡	50.00	32.39	41.57	46.15	5.41	27.71	33.73	28.77	29.41	13.75
Median effect size	0.09	‡	0.03	0.03	0.06	0.03	0.08	0.05	0.03	0.13	0.12	0.07
After imputation												
Difference between pre- and postimputation means	6.20*	‡	14.74*	8.34*	8.98*	3.49*	6.59	5.27*	3.89*	7.20*	5.76	5.07
Effect size for difference	0.04	‡	0.09	0.05	0.08	0.03	0.09	0.04	0.03	0.09	0.08	0.05

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting		
Variable	All students	Less-than-2-year	2-year				Less-than-4-year			Less-than-2-year	2-year	4-year
TNFEDAID (Total nonfederal aid)												
Before imputation												
Mean percent relative bias across characteristics	15.33	13.38	20.95	18.69	11.96	12.43	31.59	16.05	13.54	31.62	35.55	15.09
Median percent relative bias across characteristics	11.12	9.64	18.49	14.59	7.62	6.60	22.33	8.87	8.06	25.63	24.13	10.40
Percentage of characteristics with significant bias	75.41	22.86	63.55	57.28	37.74	54.63	9.52	18.63	46.15	42.11	31.31	22.64
Median effect size	0.15	0.16	0.15	0.15	0.08	0.08	0.28	0.11	0.10	0.26	0.32	0.12
After imputation												
Difference between pre- and postimputation means	5.90*	25.43	2.61	2.77	0.84	1.97*	19.15	12.47	3.46*	35.75*	5.16	17.44
Effect size for difference	0.03	0.08	0.01	0.01	0.01	0.01	0.09	0.10	0.03	0.13	0.02	0.08
TNFEDGRT (Total nonfederal grants)												
Before imputation												
Mean percent relative bias across characteristics	15.50	15.44	20.49	18.71	12.04	13.12	26.70	16.60	13.92	31.82	35.66	15.02
Median percent relative bias across characteristics	10.83	10.91	16.04	14.82	7.55	6.63	20.20	8.87	8.40	25.74	24.48	9.91
Percentage of characteristics with significant bias	74.80	26.76	62.96	56.86	39.62	55.05	9.64	17.48	45.71	44.21	32.32	24.76
Median effect size	0.14	0.16	0.15	0.14	0.08	0.08	0.28	0.11	0.09	0.27	0.32	0.12
After imputation												
Difference between pre- and postimputation means	5.31*	‡	3.52	3.99	0.20	1.17	7.32	12.49	3.05	62.81*	22.29	2.75
Effect size for difference	0.02	‡	0.01	0.02	#	0.01	0.03	0.10	0.02	0.16	0.07	0.01

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit				
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting			Less-than-2-year	2-year
Variable	All students	Less-than-2-year	2-year				Less-than-4-year				Less-than-2-year	2-year	4-year	
TNFEDLN (Total nonfederal loans)														
Before imputation														
Mean percent relative bias across characteristics	11.51	11.83	13.00	14.12	9.32	10.13	20.32	9.34	11.35	26.20	24.44	13.48		
Median percent relative bias across characteristics	7.88	9.98	10.24	11.47	5.33	5.18	15.95	3.92	6.40	21.19	13.29	8.02		
Percentage of characteristics with significant bias	74.19	17.57	60.55	52.88	36.11	52.73	16.47	26.92	51.43	39.18	31.07	25.00		
Median effect size	0.09	0.08	0.13	0.11	0.05	0.07	0.17	0.05	0.06	0.20	0.20	0.10		
After imputation														
Difference between pre- and postimputation means	10.43*	‡	23.10*	9.38	7.29*	0.89	4.61	7.15	4.14	20.45	9.57	51.85		
Effect size for difference	0.02	‡	0.02	0.01	0.02	#	0.01	0.02	0.01	0.05	0.03	0.13		
TOTALID (Total aid amount)														
Before imputation														
Mean percent relative bias across characteristics	13.17	0.63	9.10	7.40	8.90	6.29	15.99	9.43	5.54	22.43	24.01	16.32		
Median percent relative bias across characteristics	10.57	0.67	5.39	4.76	6.72	4.34	10.02	5.73	4.02	17.87	12.08	10.54		
Percentage of characteristics with significant bias	65.83	0.00	31.43	19.35	21.43	41.00	0.00	10.11	24.72	17.50	6.74	10.64		
Median effect size	0.15	0.02	0.07	0.08	0.09	0.05	0.12	0.06	0.05	0.18	0.24	0.16		
After imputation														
Difference between pre- and postimputation means	0.37	5.69*	7.74*	10.42*	5.81*	2.45*	8.75	5.26	0.08	7.03*	0.37	7.35		
Effect size for difference	#	0.04	0.05	0.07	0.06	0.03	0.13	0.06	#	0.08	#	0.08		

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
TOTAID2 (Total federal [Title IV], state, and institution aid)												
Before imputation												
Mean percent relative bias across characteristics	14.84	15.44	20.48	17.50	11.95	12.01	32.30	15.79	12.92	31.98	35.18	14.05
Median percent relative bias across characteristics	10.57	10.91	15.85	13.19	7.44	6.13	22.19	9.16	7.94	28.77	22.58	8.61
Percentage of characteristics with significant bias	76.23	26.76	65.42	58.25	30.19	51.85	7.14	17.65	41.35	40.00	28.28	10.58
Median effect size	0.15	0.16	0.13	0.13	0.09	0.07	0.30	0.11	0.10	0.27	0.33	0.11
After imputation												
Difference between pre- and postimputation means	3.08*	‡	4.81*	4.95*	4.82*	0.26	11.86	9.82	2.13	6.28*	3.82	2.62
Effect size for difference	0.02	‡	0.03	0.03	0.05	#	0.17	0.10	0.02	0.08	0.05	0.03
TOTAID4 (Total aid excluding Parent PLUS Loans)												
Before imputation												
Mean percent relative bias across characteristics	13.17	13.38	17.72	15.61	11.17	10.49	31.44	14.79	11.39	33.56	35.54	16.48
Median percent relative bias across characteristics	10.57	9.64	15.02	12.63	8.53	6.20	21.98	7.99	6.28	28.87	23.91	10.61
Percentage of characteristics with significant bias	65.83	22.86	62.86	39.60	20.00	48.15	9.64	16.83	36.27	33.33	19.59	4.81
Median effect size	0.15	0.16	0.12	0.18	0.09	0.07	0.30	0.10	0.11	0.23	0.36	0.14
After imputation												
Difference between pre- and postimputation means	0.13	5.79*	7.75*	10.50*	5.53*	2.20*	9.99	6.45	0.48	7.35*	3.16	6.26
Effect size for difference	#	0.04	0.05	0.07	0.06	0.02	0.15	0.07	0.01	0.09	0.04	0.07

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit			
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting			
Variable	All students	Less-than-2-year	2-year				Less-than-4-year				Less-than-2-year	2-year	4-year
TOTALID6 (Total aid [excludes Parent PLUS Loans and veterans/DOD])													
Before imputation													
Mean percent relative bias across characteristics	13.17	13.38	17.72	15.61	11.17	10.49	31.44	14.79	11.40		33.70	35.63	16.48
Median percent relative bias across characteristics	10.57	9.64	15.01	12.63	8.53	6.17	22.14	8.01	6.29		29.91	23.69	10.61
Percentage of characteristics with significant bias	65.83	22.86	62.86	39.60	20.00	48.15	9.64	16.83	36.27		32.26	20.62	4.81
Median effect size	0.15	0.16	0.12	0.18	0.09	0.07	0.30	0.10	0.11		0.24	0.36	0.14
After imputation													
Difference between pre- and postimputation means	0.26	6.35*	8.30*	12.57*	6.05*	1.97	12.16	6.04	0.40		8.71*	1.46	8.55
Effect size for difference	#	0.05	0.06	0.09	0.07	0.02	0.18	0.07	#		0.11	0.02	0.10
TOTALID7 (Total aid [excludes veterans/DOD])													
Before imputation													
Mean percent relative bias across characteristics	13.17	13.38	17.72	15.61	11.17	10.49	31.44	14.79	11.40		33.70	35.63	16.48
Median percent relative bias across characteristics	10.57	9.64	15.01	12.63	8.53	6.17	22.14	8.01	6.29		29.91	23.69	10.61
Percentage of characteristics with significant bias	65.83	22.86	62.86	39.60	20.00	48.15	9.64	16.83	36.27		32.26	20.62	4.81
Median effect size	0.15	0.16	0.12	0.18	0.09	0.07	0.30	0.10	0.11		0.24	0.36	0.14
After imputation													
Difference between pre- and postimputation means	0.47	6.23*	8.28*	12.45*	6.30*	2.25*	10.76	4.85	0.13		8.35*	1.51	9.64
Effect size for difference	#	0.04	0.06	0.08	0.07	0.02	0.15	0.05	#		0.11	0.02	0.10

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
TOTAID8 (Total aid excluding private loans)												
Before imputation												
Mean percent relative bias across characteristics	13.08	15.44	17.85	15.71	11.02	10.38	31.61	14.69	11.16	33.91	35.65	15.47
Median percent relative bias across characteristics	10.24	10.88	14.92	12.16	8.22	5.87	21.67	8.72	6.88	30.57	23.63	9.72
Percentage of characteristics with significant bias	67.50	26.76	62.86	41.58	20.00	50.47	7.23	15.84	38.24	35.48	22.68	4.85
Median effect size	0.15	0.16	0.12	0.17	0.09	0.07	0.30	0.10	0.11	0.24	0.36	0.14
After imputation												
Difference between pre- and postimputation means	0.16	‡	7.76*	10.30*	6.77*	2.42*	9.31	5.90	0.13	7.22*	1.65	2.82
Effect size for difference	#	‡	0.05	0.07	0.07	0.02	0.13	0.06	#	0.08	0.02	0.03
TOTDUE1 (Cum. amount owed, principal and interest, all loans for undergraduate)												
Before imputation												
Mean percent relative bias across characteristics	12.73	14.34	14.20	16.62	10.34	11.53	22.20	10.20	12.78	27.25	24.04	14.56
Median percent relative bias across characteristics	9.25	11.64	10.53	15.51	5.11	6.18	18.83	5.85	6.76	23.74	15.08	8.66
Percentage of characteristics with significant bias	75.00	36.00	62.39	59.05	34.26	54.55	22.09	23.08	47.66	39.18	22.33	28.44
Median effect size	0.10	0.13	0.13	0.13	0.07	0.08	0.20	0.05	0.07	0.19	0.20	0.11
After imputation												
Difference between pre- and postimputation means	8.63*	1.63	8.31*	6.19*	10.75*	5.72*	6.47*	11.20*	11.01*	6.55	8.98*	7.67
Effect size for difference	0.05	0.01	0.03	0.02	0.07	0.04	0.07	0.08	0.08	0.07	0.09	0.07

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting		4-year, doctorate-granting			
Variable	All students	Less-than-2-year	2-year				Less-than-4-year			Less-than-2-year	2-year	4-year
TOTGRT (Total grants)												
Before imputation												
Mean percent relative bias across characteristics	13.79	‡	8.72	7.11	8.04	6.82	14.93	8.90	4.75	22.42	23.29	15.94
Median percent relative bias across characteristics	10.33	‡	5.53	4.54	6.81	3.85	7.17	5.78	3.79	18.04	12.54	11.80
Percentage of characteristics with significant bias	67.77	‡	32.69	17.78	18.95	39.39	0.00	10.23	21.59	16.46	5.75	7.53
Median effect size	0.15	‡	0.06	0.08	0.09	0.05	0.13	0.06	0.04	0.18	0.25	0.17
After imputation												
Difference between pre- and postimputation means	1.15	‡	9.93*	12.12*	8.82*	0.77	8.18	6.53	1.68	15.90*	0.32	3.39
Effect size for difference	0.01	‡	0.07	0.08	0.08	0.01	0.10	0.06	0.01	0.18	#	0.03
TOTGRT2 (Total grants and veterans/DOD)												
Before imputation												
Mean percent relative bias across characteristics	13.79	15.44	17.86	15.71	11.02	11.21	31.58	14.69	11.15	33.59	35.68	15.47
Median percent relative bias across characteristics	10.33	10.88	14.89	12.16	8.21	5.91	21.74	8.61	6.87	30.06	23.03	9.70
Percentage of characteristics with significant bias	67.77	26.76	62.86	41.58	20.00	50.93	10.84	15.84	38.24	34.41	22.68	4.85
Median effect size	0.15	0.16	0.12	0.17	0.09	0.07	0.30	0.10	0.11	0.23	0.37	0.14
After imputation												
Difference between pre- and postimputation means	1.21	‡	9.20*	9.52*	7.97*	1.03	3.96	6.98	1.58	9.40*	3.18	5.64
Effect size for difference	0.01	‡	0.06	0.06	0.07	0.01	0.04	0.06	0.01	0.08	0.03	0.04

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
TOTGRT4 (Total state and institution grants)												
Before imputation												
Mean percent relative bias across characteristics	15.49	15.44	20.42	18.73	12.24	13.14	26.66	16.59	13.92	31.82	35.66	15.02
Median percent relative bias across characteristics	10.84	10.91	15.98	14.90	7.58	6.68	19.70	8.86	8.41	25.74	24.48	9.91
Percentage of characteristics with significant bias	74.80	26.76	62.96	56.86	38.68	55.05	10.84	17.48	45.71	44.21	32.32	24.76
Median effect size	0.14	0.16	0.15	0.14	0.08	0.08	0.28	0.11	0.09	0.27	0.32	0.12
After imputation												
Difference between pre- and postimputation means	5.92*	‡	4.52*	6.45	2.32	1.55	5.30	13.24	3.57*	79.38*	46.70*	3.07
Effect size for difference	0.02	‡	0.02	0.02	0.01	0.01	0.03	0.10	0.03	0.17	0.14	0.01
TOTLOAN (Total loans [excluding Parent PLUS Loans])												
Before imputation												
Mean percent relative bias across characteristics	12.59	‡	4.50	3.67	4.48	3.71	4.87	6.92	5.28	17.72	14.68	10.07
Median percent relative bias across characteristics	8.69	‡	1.82	1.21	1.60	1.03	1.44	3.20	2.10	11.17	5.81	3.93
Percentage of characteristics with significant bias	75.00	‡	44.66	20.55	19.54	31.25	8.70	21.84	29.41	23.08	14.77	5.62
Median effect size	0.10	‡	0.02	0.02	0.04	0.02	0.03	0.05	0.03	0.15	0.10	0.05
After imputation												
Difference between pre- and postimputation means	5.89*	‡	14.42*	3.10*	5.30*	2.37*	2.85	3.34	3.43*	4.01	2.59	11.44
Effect size for difference	0.03	‡	0.05	0.01	0.04	0.02	0.03	0.02	0.02	0.04	0.03	0.10

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
TOTLOAN2 (Total loans [including Parent PLUS Loans])												
Before imputation												
Mean percent relative bias across characteristics	12.60	14.35	14.46	15.72	10.46	10.51	21.86	11.60	12.19	29.05	26.74	14.03
Median percent relative bias across characteristics	8.71	11.03	10.26	11.80	6.04	5.19	16.25	5.65	6.32	24.30	15.53	8.29
Percentage of characteristics with significant bias	75.00	17.57	61.47	58.65	35.19	52.73	12.94	25.96	48.11	40.21	26.21	25.93
Median effect size	0.10	0.10	0.13	0.11	0.06	0.07	0.19	0.06	0.07	0.23	0.21	0.11
After imputation												
Difference between pre- and postimputation means	5.93*	‡	14.45*	3.05	6.62*	2.44*	0.74	5.77	3.62*	4.17	6.84	12.30
Effect size for difference	0.03	‡	0.05	0.01	0.04	0.02	0.01	0.04	0.02	0.04	0.07	0.10
TOTLOAN3 (Total loans excluding private loans)												
Before imputation												
Mean percent relative bias across characteristics	12.61	16.36	14.71	15.79	10.67	10.49	22.14	11.51	11.99	29.26	27.07	13.40
Median percent relative bias across characteristics	9.05	11.13	10.72	12.79	6.34	4.92	18.16	5.97	6.49	23.34	14.70	7.78
Percentage of characteristics with significant bias	75.00	24.00	62.39	58.65	40.74	55.45	15.85	25.00	49.06	45.36	29.13	26.17
Median effect size	0.10	0.12	0.14	0.12	0.06	0.07	0.20	0.06	0.07	0.24	0.21	0.10
After imputation												
Difference between pre- and postimputation means	4.63*	‡	12.66*	2.07	4.73*	2.39*	3.87	2.38	3.75*	2.66	1.80	2.95
Effect size for difference	0.03	‡	0.04	0.01	0.03	0.02	0.04	0.02	0.03	0.03	0.02	0.03

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
TOTNOND3 (Institution no-need and state no-need grants)												
Before imputation												
Mean percent relative bias across characteristics	15.53	15.44	20.43	18.73	12.30	13.16	26.66	16.59	13.99	31.88	35.66	15.02
Median percent relative bias across characteristics	10.85	10.91	15.99	14.86	7.52	6.69	19.70	8.90	8.56	25.70	24.48	9.91
Percentage of characteristics with significant bias	75.61	26.76	62.96	56.86	39.62	55.05	10.84	17.48	46.67	44.21	32.32	24.76
Median effect size	0.14	0.16	0.15	0.14	0.08	0.08	0.28	0.11	0.09	0.27	0.32	0.12
After imputation												
Difference between pre- and postimputation means	5.69*	‡	4.87	3.81	3.23	3.17*	12.32	11.38	2.02	83.67*	46.10	5.96
Effect size for difference	0.02	‡	0.01	0.01	0.01	0.01	0.03	0.07	0.01	0.09	0.08	0.02
UNSBLOAN (Total unsubsidized loans [all sources])												
Before imputation												
Mean percent relative bias across characteristics	12.60	14.35	14.46	15.72	10.46	10.51	21.86	11.60	12.19	29.05	26.74	14.03
Median percent relative bias across characteristics	8.71	11.03	10.26	11.80	6.04	5.19	16.25	5.65	6.32	24.30	15.53	8.29
Percentage of characteristics with significant bias	75.00	17.57	61.47	58.65	35.19	52.73	12.94	25.96	48.11	40.21	26.21	25.93
Median effect size	0.10	0.10	0.13	0.11	0.06	0.07	0.19	0.06	0.07	0.23	0.21	0.11
After imputation												
Difference between pre- and postimputation means	6.38*	‡	15.17*	3.50	7.41*	2.34*	0.02	6.30	3.55*	4.19	8.62	17.10
Effect size for difference	0.03	‡	0.04	0.01	0.04	0.01	#	0.03	0.02	0.03	0.08	0.11

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting						
Variable	All students	Less-than-2-year	2-year				Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
USBORN (Born in the U.S. [student])												
Before imputation												
Mean percent relative bias across characteristics	12.84	14.54	15.45	16.68	9.30	10.85	23.21	8.85	11.43	15.91	18.87	11.46
Median percent relative bias across characteristics	10.69	11.55	12.61	14.80	5.17	6.40	19.29	4.99	8.17	10.51	13.13	7.82
Percentage of characteristics with significant bias	77.42	27.63	66.06	57.69	49.53	59.09	20.93	38.46	54.29	45.83	30.10	34.26
Median effect size	0.11	0.12	0.13	0.13	0.07	0.08	0.20	0.05	0.08	0.12	0.12	0.08
After imputation												
Difference between pre- and postimputation means	1.83*	1.50	1.92*	4.08*	2.20*	1.62*	2.31	1.42*	1.30*	1.25	2.78	0.72
Effect size for difference	0.03	‡	0.03	0.06	0.03	0.02	‡	0.02	0.02	0.02	0.04	0.01
USEIDR (Likelihood of using income-driven student loan repayment plans)												
Before imputation												
Mean percent relative bias across characteristics	47.88	71.00	68.34	93.54	38.36	33.28	44.23	27.88	38.51	32.07	36.13	31.39
Median percent relative bias across characteristics	44.11	66.84	38.67	51.01	29.06	20.85	38.20	20.55	30.06	25.87	26.31	27.13
Percentage of characteristics with significant bias	74.59	64.18	57.94	44.09	40.20	46.23	5.00	31.31	40.00	28.42	29.41	16.67
Median effect size	0.41	0.63	0.42	0.59	0.29	0.32	0.38	0.29	0.35	0.26	0.26	0.26
After imputation												
Difference between pre- and postimputation means	1.17	‡	5.12	‡	10.06	3.43	‡	3.10	6.95	7.46	7.01*	9.03*
Effect size for difference	0.01	‡	0.08	‡	‡	0.04	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
USELFP (Likelihood of using loan forgiveness program)												
Before imputation												
Mean percent relative bias across characteristics	48.74	71.35	70.71	87.33	37.42	36.79	40.78	29.95	41.38	32.23	40.11	34.24
Median percent relative bias across characteristics	46.18	68.05	39.73	65.61	26.90	23.81	30.99	23.79	32.12	24.09	28.78	25.49
Percentage of characteristics with significant bias	77.87	53.85	59.43	42.55	45.54	51.89	7.69	32.65	41.00	25.53	29.41	16.82
Median effect size	0.45	0.67	0.46	0.57	0.28	0.35	0.40	0.31	0.37	0.24	0.31	0.26
After imputation												
Difference between pre- and postimputation means	3.25	‡	19.65*	10.36	12.94	4.98	‡	5.84	7.99	4.44	7.00	7.70
Effect size for difference	0.04	‡	0.22	‡	‡	0.05	‡	0.07	0.10	‡	‡	‡
VADODAMT (Federal veterans benefits and Department of Defense)												
Before imputation												
Mean percent relative bias across characteristics	16.37	15.44	22.38	19.44	13.47	13.92	31.89	17.51	14.69	31.88	28.84	15.05
Median percent relative bias across characteristics	11.13	10.91	18.47	14.90	7.63	6.61	23.67	8.82	7.87	25.70	16.61	9.65
Percentage of characteristics with significant bias	75.81	26.76	66.97	57.28	41.67	55.45	10.84	18.27	46.23	44.21	23.00	25.71
Median effect size	0.15	0.16	0.16	0.14	0.07	0.08	0.29	0.12	0.10	0.27	0.25	0.12
After imputation												
Difference between pre- and postimputation means	1.08	‡	3.08	1.17	10.43*	1.03	29.32	18.07	4.74	20.23	25.02	0.86
Effect size for difference	#	‡	#	#	0.01	#	0.05	0.02	0.01	0.03	0.04	#

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
VADODAMT2 (Federal veterans benefits [excluding housing] and DOD)												
Before imputation												
Mean percent relative bias across characteristics	16.37	15.44	22.38	19.44	13.47	13.92	31.89	17.51	14.69	31.88	28.84	15.05
Median percent relative bias across characteristics	11.13	10.91	18.47	14.90	7.63	6.61	23.67	8.82	7.87	25.70	16.61	9.65
Percentage of characteristics with significant bias	75.81	26.76	66.97	57.28	41.67	55.45	10.84	18.27	46.23	44.21	23.00	25.71
Median effect size	0.15	0.16	0.16	0.14	0.07	0.08	0.29	0.12	0.10	0.27	0.25	0.12
After imputation												
Difference between pre- and postimputation means	2.67	‡	0.74	4.30	9.49*	0.45	27.70	17.84	3.54	18.56	22.78	1.63
Effect size for difference	#	‡	#	0.01	0.01	#	0.05	0.02	#	0.03	0.03	#
VOCHelp (Vocational rehabilitation and training)												
Before imputation												
Mean percent relative bias across characteristics	16.40	15.44	22.46	20.22	13.05	13.23	34.13	17.52	14.81	32.50	28.93	14.20
Median percent relative bias across characteristics	10.98	10.91	18.56	14.91	7.54	6.60	24.29	8.74	7.86	26.62	16.54	9.82
Percentage of characteristics with significant bias	75.00	26.76	67.89	57.69	41.12	55.05	6.98	19.23	47.17	45.36	22.77	25.00
Median effect size	0.15	0.16	0.16	0.14	0.08	0.08	0.28	0.12	0.10	0.26	0.24	0.12
After imputation												
Difference between pre- and postimputation means	4.64	‡	12.33	0.73	38.68	1.58	29.08	25.31	12.90	44.42	28.99	20.22
Effect size for difference	#	‡	0.01	#	0.02	#	0.03	0.01	#	0.03	0.01	0.01

See notes at end of table.

Table M-126. Summary of undergraduate student survey item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
WORKPCT (Ratio of work-study to total aid)												
Before imputation												
Mean percent relative bias across characteristics	20.26	26.00	32.53	28.74	15.67	15.52	38.01	18.25	15.77	44.01	43.24	18.78
Median percent relative bias across characteristics	16.68	22.48	28.08	27.06	10.57	9.97	26.98	11.10	11.15	40.62	38.00	11.64
Percentage of characteristics with significant bias	73.33	37.68	70.48	56.44	31.43	56.48	15.85	25.74	45.10	48.39	29.90	8.65
Median effect size	0.23	0.27	0.39	0.29	0.16	0.13	0.36	0.16	0.14	0.46	0.44	0.17
After imputation												
Difference between pre- and postimputation means	11.01*	‡	26.18*	46.07	17.56	5.94	100.00	16.74	6.31	37.51	2.60	46.83
Effect size for difference	0.02	‡	0.03	0.06	0.03	0.01	0.04	0.05	0.02	0.01	#	0.03

Rounds to zero.

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < .05$. The difference between the pre- and postimputation means was significant at the 0.05 level. For categorical variables, at least one category difference was significant.

NOTE: DOD = Department of Defense; TANF = Temporary Assistance for Needy Families; WIC = Special Supplemental Nutrition Program for Women, Infants, and Children. Relative bias and effect size are calculated using the weighted differences between respondent and full-sample means. Relative bias is defined as the ratio of estimated bias to the weighted full-sample mean. Effect size for categorical variables was calculated as the square root of the sum over categories of the squared differences over full-sample means. For categorical variables, the difference between pre- and postimputation means was calculated as the size-weighted average difference between pre- and postimputation percentages across categories. Variables and characteristics that did not meet reporting standards were excluded from calculation of summary statistics.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-127. Summary of undergraduate study item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20

		Public					Private nonprofit			Private for-profit		
				4-year, non- doctorate- granting, primarily subbacca- laureate	4-year, non- doctorate- granting, primarily bacca- laureate	4-year, doctorate- granting						
Variable	All students	Less- than- 2-year	2-year				Less- than- 4-year	4-year, non- doctorate- granting	4-year, doctorate- granting	Less- than- 2-year	2-year	4-year
AIDCST_AC (Ratio of total aid to student budget [administrative collection])												
Before imputation												
Mean percent relative bias across characteristics	20.29	13.74	20.19	14.51	13.32	10.93	36.05	13.82	12.09	30.88	34.39	17.87
Median percent relative bias across characteristics	13.44	6.46	15.48	9.41	8.01	5.80	29.28	6.99	5.92	20.68	22.90	13.55
Percentage of characteristics with significant bias	36.73	12.77	62.50	27.71	23.86	46.67	0.00	12.79	23.86	19.18	17.57	3.53
Median effect size	0.10	0.13	0.12	0.17	0.10	0.07	0.30	0.09	0.06	0.27	0.40	0.19
After imputation												
Difference between pre- and postimputation means	8.64*	20.52*	11.39*	8.64*	1.95	6.77*	2.16	4.05	3.27*	1.69	3.16	6.39
Effect size for difference	0.08	0.16	0.08	0.06	0.02	0.08	0.04	0.06	0.04	0.02	0.04	0.09
AIDSNEED_AC (Aid amount exceeding federal need [administrative collection])												
Before imputation												
Mean percent relative bias across characteristics	27.66	16.34	30.25	20.22	18.67	16.29	43.91	21.67	16.87	43.07	44.29	25.60
Median percent relative bias across characteristics	21.17	11.39	24.01	15.21	14.38	11.21	39.75	17.73	13.16	43.97	36.01	20.65
Percentage of characteristics with significant bias	37.45	29.79	65.12	38.27	39.53	48.31	5.77	30.59	34.48	33.80	33.80	19.75
Median effect size	0.23	0.17	0.23	0.30	0.22	0.17	0.39	0.24	0.21	0.38	0.45	0.29
After imputation												
Difference between pre- and postimputation means	2.73	4.10	14.33*	18.45*	1.25	3.81*	14.05	5.30	3.02	2.04	44.52	2.61
Effect size for difference	0.01	0.01	0.03	0.04	#	0.01	0.02	0.02	0.01	#	0.09	0.01

See notes at end of table.

Table M-127. Summary of undergraduate study item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting		4-year, doctorate-granting			
Variable	All students	Less-than-2-year	2-year				Less-than-4-year	doctorate-granting	doctorate-granting	Less-than-2-year	2-year	4-year
AIDSRC_AC (Aid package by source of aid [administrative collection])												
Before imputation												
Mean percent relative bias across characteristics	16.38	7.17	16.45	12.70	12.09	8.36	33.98	11.76	9.04	32.01	26.56	16.21
Median percent relative bias across characteristics	10.98	2.62	10.12	7.91	6.98	4.88	21.04	6.25	4.88	23.43	17.72	9.35
Percentage of characteristics with significant bias	34.76	0.00	48.86	36.90	24.72	45.56	0.00	13.10	32.95	24.32	20.00	3.70
Median effect size	0.08	0.04	0.09	0.14	0.13	0.07	0.29	0.08	0.05	0.21	0.37	0.18
After imputation												
Difference between pre- and postimputation means	6.64*	‡	7.72*	8.11*	11.42*	4.45*	17.14	6.25	8.06*	13.38*	9.80	8.24
Effect size for difference	0.07	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
AIDTYPE_AC (Aid package by type of aid [administrative collection])												
Before imputation												
Mean percent relative bias across characteristics	16.38	7.17	16.45	12.70	12.09	8.36	33.98	11.76	9.04	32.01	26.56	16.21
Median percent relative bias across characteristics	10.98	2.62	10.12	7.91	6.98	4.88	21.04	6.25	4.88	23.43	17.72	9.35
Percentage of characteristics with significant bias	34.76	0.00	48.86	36.90	24.72	45.56	0.00	13.10	32.95	24.32	20.00	3.70
Median effect size	0.08	0.04	0.09	0.14	0.13	0.07	0.29	0.08	0.05	0.21	0.37	0.18
After imputation												
Difference between pre- and postimputation means	4.64*	‡	6.87*	6.94*	8.62*	3.33*	34.36	3.72	6.57*	10.09*	7.15*	8.31
Effect size for difference	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-127. Summary of undergraduate study item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit			
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year	
EFFORT20_AC (Net price after grants/loans as percentage of income [administrative collection])													
Before imputation													
Mean percent relative bias across characteristics	26.56	28.77	29.22	28.88	21.96	22.45	43.40	25.67	24.41	41.04	37.73	28.05	
Median percent relative bias across characteristics	19.95	18.40	18.01	21.05	14.29	12.16	34.72	15.74	13.52	35.21	29.18	20.66	
Percentage of characteristics with significant bias	39.76	20.97	62.64	55.06	48.91	57.45	15.63	34.07	44.09	36.36	34.57	23.60	
Median effect size	0.26	0.26	0.23	0.27	0.20	0.16	0.44	0.26	0.21	0.34	0.37	0.24	
After imputation													
Difference between pre- and postimputation means	2.13*	0.70	9.34*	6.91*	1.44	2.08*	3.06	4.77	6.09*	3.55	13.13	7.49	
Effect size for difference	0.02	0.01	0.10	0.07	0.01	0.02	0.04	0.05	0.07	0.07	0.19	0.07	
FEDGRPCT_AC (Ratio of federal grants to total aid [administrative collection])													
Before imputation													
Mean percent relative bias across characteristics	22.37	7.65	26.91	17.57	14.00	9.84	37.22	14.37	10.77	40.24	36.44	18.65	
Median percent relative bias across characteristics	16.29	3.94	20.21	9.89	9.10	4.93	33.42	8.90	5.18	33.63	28.77	10.75	
Percentage of characteristics with significant bias	39.22	0.00	63.22	28.92	23.86	33.71	1.89	14.29	18.39	38.89	30.67	4.94	
Median effect size	0.14	0.07	0.20	0.24	0.11	0.09	0.40	0.10	0.08	0.35	0.43	0.20	
After imputation													
Difference between pre- and postimputation means	5.07*	‡	2.23*	2.32	6.49*	2.34*	16.28	10.75	4.06	2.71	7.28	0.23	
Effect size for difference	0.04	‡	0.03	0.03	0.06	0.02	0.26	0.07	0.02	0.04	0.10	#	

See notes at end of table.

Table M-127. Summary of undergraduate study item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
FEDPCT_AC (Ratio of federal aid to total aid [administrative collection])												
Before imputation												
Mean percent relative bias across characteristics	22.37	7.65	26.91	17.57	14.00	9.84	37.22	14.37	10.77	40.24	36.44	18.65
Median percent relative bias across characteristics	16.29	3.94	20.21	9.89	9.10	4.93	33.42	8.90	5.18	33.63	28.77	10.75
Percentage of characteristics with significant bias	39.22	0.00	63.22	28.92	23.86	33.71	1.89	14.29	18.39	38.89	30.67	4.94
Median effect size	0.14	0.07	0.20	0.24	0.11	0.09	0.40	0.10	0.08	0.35	0.43	0.20
After imputation												
Difference between pre- and postimputation means	2.57*	‡	0.17	2.50	1.85	2.03*	0.35	2.23	4.61*	2.83*	1.89	4.87
Effect size for difference	0.04	‡	#	0.04	0.03	0.03	0.01	0.03	0.05	0.12	0.08	0.10
GRTPCT_AC (Ratio of grants to total aid [administrative collection])												
Before imputation												
Mean percent relative bias across characteristics	22.37	7.65	26.91	17.57	14.00	9.84	37.22	14.37	10.77	40.24	36.44	18.65
Median percent relative bias across characteristics	16.29	3.94	20.21	9.89	9.10	4.93	33.42	8.90	5.18	33.63	28.77	10.75
Percentage of characteristics with significant bias	39.22	0.00	63.22	28.92	23.86	33.71	1.89	14.29	18.39	38.89	30.67	4.94
Median effect size	0.14	0.07	0.20	0.24	0.11	0.09	0.40	0.10	0.08	0.35	0.43	0.20
After imputation												
Difference between pre- and postimputation means	0.32	‡	1.88*	0.25	1.35	0.97*	12.58	1.94	1.95*	3.41	3.92	5.70
Effect size for difference	0.01	‡	0.04	0.01	0.02	0.02	0.23	0.04	0.04	0.06	0.06	0.08

See notes at end of table.

Table M-127. Summary of undergraduate study item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit			
		Less- than- 2-year	2-year	4-year, non- doctorate- granting, primarily subbacca- laureate	4-year, non- doctorate- granting, primarily bacca- laureate	4-year, doctorate- granting	Less- than- 4-year	4-year, non- doctorate- granting	4-year, doctorate- granting	Less- than- 2-year	2-year	4-year	
Variable	All students												
INCQUART_AC (Income quartile [administrative collection])													
Before imputation													
Mean percent relative bias across characteristics	19.43	25.98	24.39	24.02	18.16	19.02	29.64	20.58	21.96	26.58	22.94	19.04	
Median percent relative bias across characteristics	13.47	16.69	14.14	14.82	9.90	7.98	24.29	11.86	14.42	25.57	18.98	16.36	
Percentage of characteristics with significant bias	40.16	18.03	64.84	60.67	55.91	57.45	20.63	41.30	55.91	41.56	42.50	34.09	
Median effect size	0.24	0.19	0.22	0.18	0.19	0.14	0.25	0.24	0.20	0.26	0.26	0.14	
After imputation													
Difference between pre- and postimputation means	10.51*	4.41	12.81*	13.78*	9.52*	10.76*	6.92	9.39*	11.10*	5.07*	0.81	9.62*	
Effect size for difference	0.13	0.05	0.15	0.17	0.11	0.13	0.06	0.11	0.12	0.06	0.01	0.11	
INSTGPCT_AC (Ratio of institution grants to total aid [administrative collection])													
Before imputation													
Mean percent relative bias across characteristics	22.37	7.65	26.91	17.57	14.00	9.84	37.22	14.37	10.77	40.24	36.44	18.65	
Median percent relative bias across characteristics	16.29	3.94	20.21	9.89	9.10	4.93	33.42	8.90	5.18	33.63	28.77	10.75	
Percentage of characteristics with significant bias	39.22	0.00	63.22	28.92	23.86	33.71	1.89	14.29	18.39	38.89	30.67	4.94	
Median effect size	0.14	0.07	0.20	0.24	0.11	0.09	0.40	0.10	0.08	0.35	0.43	0.20	
After imputation													
Difference between pre- and postimputation means	9.75*	‡	21.42*	9.43	16.89*	4.48*	39.69	2.85	5.53*	32.88	20.46	17.08	
Effect size for difference	0.06	‡	0.06	0.03	0.09	0.03	0.10	0.03	0.07	0.06	0.03	0.07	

See notes at end of table.

Table M-127. Summary of undergraduate study item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting		
Variable	All students	Less-than-2-year	2-year				Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
INSTPACK_AC (Aid package with institution aid [administrative collection])												
Before imputation												
Mean percent relative bias across characteristics	15.49	7.17	17.60	13.75	12.74	10.07	32.36	14.00	11.69	30.86	28.71	15.55
Median percent relative bias across characteristics	9.29	2.63	8.61	5.98	5.28	3.46	22.54	5.72	4.64	21.46	16.71	7.96
Percentage of characteristics with significant bias	36.02	0.00	49.45	32.18	29.67	46.24	1.89	18.39	36.36	24.00	22.08	1.20
Median effect size	0.08	0.04	0.08	0.10	0.09	0.06	0.26	0.07	0.05	0.22	0.36	0.11
After imputation												
Difference between pre- and postimputation means	3.13*	‡	1.90*	1.76*	10.54*	3.44*	7.89	3.74	6.81*	1.14	6.45	1.52
Effect size for difference	0.04	‡	0.04	‡	0.14	0.04	‡	0.04	0.07	‡	‡	‡
INSTPCT_AC (Ratio of institution aid to total aid [administrative collection])												
Before imputation												
Mean percent relative bias across characteristics	22.37	7.65	26.91	17.57	14.00	9.84	37.22	14.37	10.77	40.24	36.44	18.65
Median percent relative bias across characteristics	16.29	3.94	20.21	9.89	9.10	4.93	33.42	8.90	5.18	33.63	28.77	10.75
Percentage of characteristics with significant bias	39.22	0.00	63.22	28.92	23.86	33.71	1.89	14.29	18.39	38.89	30.67	4.94
Median effect size	0.14	0.07	0.20	0.24	0.11	0.09	0.40	0.10	0.08	0.35	0.43	0.20
After imputation												
Difference between pre- and postimputation means	9.80*	‡	21.42*	9.67	16.82*	4.54*	39.33	3.03	5.59*	31.95	31.86	17.41
Effect size for difference	0.06	‡	0.06	0.03	0.09	0.03	0.10	0.03	0.07	0.05	0.06	0.08

See notes at end of table.

Table M-127. Summary of undergraduate study item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
Variable	All students	Less-than-2-year	2-year									
LOANCST2_AC (Ratio of loans to student budget [includes Parent PLUS Loans] [admin collection])												
Before imputation												
Mean percent relative bias across characteristics	19.28	19.51	21.26	17.60	14.88	13.21	31.15	15.10	14.91	29.27	29.58	18.69
Median percent relative bias across characteristics	12.69	7.85	14.48	11.46	7.66	5.02	19.76	6.22	6.51	21.09	22.13	10.75
Percentage of characteristics with significant bias	37.70	11.76	64.13	43.68	42.39	48.94	0.00	19.10	35.87	22.67	21.25	4.44
Median effect size	0.10	0.13	0.12	0.15	0.08	0.06	0.22	0.06	0.07	0.25	0.30	0.15
After imputation												
Difference between pre- and postimputation means	8.40*	23.96	12.63*	13.92*	5.63*	7.62*	8.06	1.05	1.03	6.67*	8.40	4.27
Effect size for difference	0.05	0.09	0.04	0.04	0.04	0.05	0.09	0.01	0.01	0.06	0.10	0.04
LOANPCT2_AC (Ratio of loans to total aid [including Parent PLUS Loans] [administrative collection])												
Before imputation												
Mean percent relative bias across characteristics	22.37	7.65	26.91	17.57	14.00	9.84	37.22	14.37	10.77	40.24	36.44	18.65
Median percent relative bias across characteristics	16.29	3.94	20.21	9.89	9.10	4.93	33.42	8.90	5.18	33.63	28.77	10.75
Percentage of characteristics with significant bias	39.22	0.00	63.22	28.92	23.86	33.71	1.89	14.29	18.39	38.89	30.67	4.94
Median effect size	0.14	0.07	0.20	0.24	0.11	0.09	0.40	0.10	0.08	0.35	0.43	0.20
After imputation												
Difference between pre- and postimputation means	0.39	‡	8.37*	2.48	1.88	1.54*	15.40	2.88	4.55*	2.79	2.94	8.13
Effect size for difference	#	‡	0.04	0.01	0.02	0.02	0.24	0.03	0.04	0.04	0.05	0.11

See notes at end of table.

Table M-127. Summary of undergraduate study item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit			
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year	
LOANPCT_AC (Label1: Ratio of loans to total aid [excluding Parent PLUS Loans] [administrative collection]; Label2: Ratio of loans to total aid [administrative collection])													
Before imputation													
Mean percent relative bias across characteristics	22.37	7.65	26.91	17.57	14.00	9.84	37.22	14.37	10.77	40.24	36.44	18.65	
Median percent relative bias across characteristics	16.29	3.94	20.21	9.89	9.10	4.93	33.42	8.90	5.18	33.63	28.77	10.75	
Percentage of characteristics with significant bias	39.22	0.00	63.22	28.92	23.86	33.71	1.89	14.29	18.39	38.89	30.67	4.94	
Median effect size	0.14	0.07	0.20	0.24	0.11	0.09	0.40	0.10	0.08	0.35	0.43	0.20	
After imputation													
Difference between pre- and postimputation means	0.70	‡	8.40*	2.68	2.41	1.24	16.40	4.76	3.94*	3.53	0.77	7.13	
Effect size for difference	0.01	‡	0.04	0.01	0.02	0.01	0.25	0.04	0.03	0.05	0.01	0.09	
LOANSRC_AC (Loan package by source of loan [administrative collection])													
Before imputation													
Mean percent relative bias across characteristics	14.54	13.88	16.63	13.26	11.52	9.82	25.55	12.62	10.82	31.19	24.32	14.54	
Median percent relative bias across characteristics	7.76	2.42	8.47	5.45	5.72	3.68	15.12	5.81	3.66	22.65	16.56	7.95	
Percentage of characteristics with significant bias	37.71	0.00	49.45	37.93	31.52	48.39	2.17	18.39	29.55	27.63	23.08	7.14	
Median effect size	0.07	0.04	0.06	0.09	0.06	0.05	0.17	0.08	0.04	0.20	0.27	0.11	
After imputation													
Difference between pre- and postimputation means	2.19*	‡	1.43*	0.29	2.65*	1.15*	5.20	2.78*	3.59*	5.23	7.69*	1.84	
Effect size for difference	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	

See notes at end of table.

Table M-127. Summary of undergraduate study item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit			
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year	
NETCST17_AC (Student budget minus all grants and loans [administrative collection])													
Before imputation													
Mean percent relative bias across characteristics	20.62	13.74	20.20	14.52	13.34	11.92	35.70	13.82	12.09	29.92	34.59	17.86	
Median percent relative bias across characteristics	13.42	6.46	15.48	9.42	8.02	5.82	26.65	6.94	5.80	21.17	22.09	13.49	
Percentage of characteristics with significant bias	36.99	12.77	62.50	27.71	23.86	47.25	0.00	13.95	23.86	18.31	20.27	2.35	
Median effect size	0.10	0.13	0.12	0.17	0.10	0.07	0.30	0.09	0.06	0.27	0.40	0.19	
After imputation													
Difference between pre- and postimputation means	2.58*	4.74	1.50	2.26	1.05	2.67*	6.78	1.65	2.89	2.82	2.96	3.47	
Effect size for difference	0.03	0.06	0.02	0.03	0.01	0.03	0.07	0.02	0.04	0.05	0.04	0.03	
NETCST1_AC (Student budget minus all aid)													
Before imputation													
Mean percent relative bias across characteristics	20.29	13.74	20.19	14.51	13.32	10.93	36.05	13.82	12.09	30.88	34.39	17.87	
Median percent relative bias across characteristics	13.44	6.46	15.48	9.41	8.01	5.80	29.28	6.99	5.92	20.68	22.90	13.55	
Percentage of characteristics with significant bias	36.73	12.77	62.50	27.71	23.86	46.67	0.00	12.79	23.86	19.18	17.57	3.53	
Median effect size	0.10	0.13	0.12	0.17	0.10	0.07	0.30	0.09	0.06	0.27	0.40	0.19	
After imputation													
Difference between pre- and postimputation means	2.10*	5.38	1.62	2.59	0.85	3.27*	7.20	2.09	3.00	3.55	1.39	4.50	
Effect size for difference	0.02	0.06	0.02	0.03	0.01	0.04	0.08	0.02	0.03	0.05	0.02	0.04	

See notes at end of table.

Table M-127. Summary of undergraduate study item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit			
		Less- than- 2-year	2-year	4-year, non- doctorate- granting, primarily subbacca- laureate	4-year, non- doctorate- granting, primarily bacca- laureate	4-year, doctorate- granting	Less- than- 4-year	4-year, non- doctorate- granting	4-year, doctorate- granting	Less- than- 2-year	2-year	4-year	
Variable	All students												
NETCST20_AC (Student budget minus all grants/loans [incl. Parent PLUS Loans] [admin collection])													
Before imputation													
Mean percent relative bias across characteristics	20.61	13.74	20.19	14.52	13.32	11.91	36.05	13.83	12.09	30.83	34.39	17.86	
Median percent relative bias across characteristics	13.45	6.46	15.48	9.42	8.01	5.83	29.28	6.99	5.92	20.64	22.90	13.47	
Percentage of characteristics with significant bias	36.99	12.77	62.50	27.71	23.86	47.25	0.00	13.95	23.86	19.18	17.57	2.35	
Median effect size	0.10	0.13	0.12	0.17	0.10	0.07	0.30	0.09	0.06	0.27	0.40	0.19	
After imputation													
Difference between pre- and postimputation means	2.18*	4.78	1.51	2.27	0.90	3.34*	6.80	2.54	2.99	3.04	2.27	2.75	
Effect size for difference	0.02	0.06	0.02	0.03	0.01	0.04	0.07	0.02	0.03	0.05	0.03	0.03	
NETCST43_AC (Student budget minus all aid except loans [administrative collection])													
Before imputation													
Mean percent relative bias across characteristics	20.29	13.74	20.19	14.51	13.32	10.93	36.05	13.82	12.09	30.88	34.39	17.87	
Median percent relative bias across characteristics	13.44	6.46	15.48	9.41	8.01	5.80	29.28	6.99	5.92	20.68	22.90	13.55	
Percentage of characteristics with significant bias	36.73	12.77	62.50	27.71	23.86	46.67	0.00	12.79	23.86	19.18	17.57	3.53	
Median effect size	0.10	0.13	0.12	0.17	0.10	0.07	0.30	0.09	0.06	0.27	0.40	0.19	
After imputation													
Difference between pre- and postimputation means	3.43*	2.40	0.17	3.12	2.11	1.49	14.24	2.74	2.72	2.50	0.16	0.97	
Effect size for difference	0.04	0.03	#	0.04	0.03	0.02	0.22	0.03	0.03	0.05	#	0.01	

See notes at end of table.

Table M-127. Summary of undergraduate study item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting						
Variable	All students	Less-than-2-year	2-year				Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
OTHRSCR_AC (Outside sources total)												
Before imputation												
Mean percent relative bias across characteristics	15.90	7.11	19.67	13.44	12.57	10.87	35.32	13.97	12.02	30.80	23.47	15.36
Median percent relative bias across characteristics	9.07	2.62	9.52	5.31	5.01	3.81	27.07	6.23	3.66	21.12	14.37	7.81
Percentage of characteristics with significant bias	35.90	0.00	51.09	30.23	29.35	49.46	0.00	18.39	29.21	26.67	24.68	1.22
Median effect size	0.08	0.04	0.08	0.10	0.07	0.06	0.29	0.08	0.06	0.22	0.25	0.12
After imputation												
Difference between pre- and postimputation means	2.77*	‡	8.06*	1.62	5.39*	1.39	12.42	3.60	4.23*	12.74	0.69	0.80
Effect size for difference	0.01	‡	0.01	#	0.01	#	0.02	0.01	0.01	0.02	#	#
PARED1_AC (Parent 1 highest education level [administrative collection])												
Before imputation												
Mean percent relative bias across characteristics	16.31	18.50	19.36	17.99	13.97	14.58	22.95	15.56	16.68	22.07	16.29	11.53
Median percent relative bias across characteristics	11.16	11.87	12.57	12.78	8.92	6.88	14.20	9.38	8.65	19.35	11.23	9.32
Percentage of characteristics with significant bias	42.13	22.41	63.74	60.67	56.99	57.45	20.00	36.26	54.84	35.14	38.75	24.72
Median effect size	0.14	0.13	0.13	0.13	0.11	0.13	0.22	0.12	0.13	0.20	0.17	0.09
After imputation												
Difference between pre- and postimputation means	0.57*	2.16	1.15*	2.93*	0.07	0.71*	2.35	0.61*	0.67	2.92*	1.38*	0.95
Effect size for difference	0.01	0.03	0.02	0.03	#	0.01	‡	0.01	0.01	0.04	0.02	0.01

See notes at end of table.

Table M-127. Summary of undergraduate study item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting		
Variable	All students	Less-than-2-year	2-year				Less-than-4-year			Less-than-2-year	2-year	4-year
PARED2_AC (Parent 2 highest education level [administrative collection])												
Before imputation												
Mean percent relative bias across characteristics	16.57	18.62	19.05	17.64	13.75	13.97	22.47	15.35	15.98	21.71	16.22	11.24
Median percent relative bias across characteristics	12.00	11.60	12.51	11.93	8.78	7.25	14.54	9.51	8.21	17.88	10.95	7.90
Percentage of characteristics with significant bias	44.09	25.81	63.74	59.55	53.76	56.38	19.05	36.96	48.39	31.58	38.27	21.35
Median effect size	0.11	0.13	0.13	0.13	0.12	0.09	0.23	0.11	0.11	0.17	0.16	0.09
After imputation												
Difference between pre- and postimputation means	1.41*	2.84	2.52*	4.09*	1.55*	1.97*	6.11*	1.24*	1.34	6.10*	2.04*	3.14*
Effect size for difference	0.02	0.03	0.04	0.04	0.02	0.02	0.06	0.02	0.01	0.08	0.02	0.04
PAREDUC_AC (Parents' highest education level [administrative collection])												
Before imputation												
Mean percent relative bias across characteristics	16.58	18.28	19.02	17.70	13.78	13.97	22.46	15.44	15.92	21.68	16.08	11.17
Median percent relative bias across characteristics	12.01	11.41	12.81	11.91	8.82	7.08	14.69	9.87	8.38	18.62	11.28	7.50
Percentage of characteristics with significant bias	44.88	25.00	64.84	59.55	52.69	56.38	19.05	36.96	48.39	31.58	37.04	20.22
Median effect size	0.11	0.13	0.13	0.13	0.12	0.09	0.23	0.11	0.11	0.17	0.17	0.09
After imputation												
Difference between pre- and postimputation means	0.35*	1.21	1.43*	4.00*	0.64	0.14	4.46*	1.52*	2.19*	4.59*	2.89*	1.68*
Effect size for difference	0.01	0.01	0.02	0.04	0.01	#	‡	0.02	0.02	0.06	0.03	0.03

See notes at end of table.

Table M-127. Summary of undergraduate study item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
PCTALLFTFY_AC (Income percentile rank for full-time, full-year students [administrative collection])												
Before imputation												
Mean percent relative bias across characteristics	33.81	41.61	44.02	36.80	24.33	24.08	51.41	26.00	27.46	56.75	44.94	28.67
Median percent relative bias across characteristics	28.78	41.22	31.71	23.70	16.60	11.45	49.77	16.60	19.67	49.80	32.63	21.20
Percentage of characteristics with significant bias	47.64	40.35	69.23	45.45	59.78	60.64	24.59	41.76	56.52	42.11	37.97	25.29
Median effect size	0.32	0.42	0.34	0.34	0.21	0.18	0.55	0.24	0.25	0.51	0.40	0.28
After imputation												
Difference between pre- and postimputation means	5.52*	9.22*	5.44*	5.71*	5.36*	6.31*	1.01	4.46*	5.25*	4.48*	0.07	4.14*
Effect size for difference	0.10	0.17	0.09	0.09	0.09	0.11	0.02	0.08	0.10	0.06	#	0.07
PCTALL_AC (Income percentile rank [administrative collection])												
Before imputation												
Mean percent relative bias across characteristics	19.43	25.98	24.39	24.02	18.16	19.02	29.64	20.58	21.96	26.58	22.94	19.04
Median percent relative bias across characteristics	13.47	16.69	14.14	14.82	9.90	7.98	24.29	11.86	14.42	25.57	18.98	16.36
Percentage of characteristics with significant bias	40.16	18.03	64.84	60.67	55.91	57.45	20.63	41.30	55.91	41.56	42.50	34.09
Median effect size	0.24	0.19	0.22	0.18	0.19	0.14	0.25	0.24	0.20	0.26	0.26	0.14
After imputation												
Difference between pre- and postimputation means	6.60*	2.66	8.59*	9.59*	6.01*	6.31*	0.49	4.93*	5.37*	3.57*	0.07	5.65*
Effect size for difference	0.11	0.05	0.14	0.16	0.11	0.11	0.01	0.09	0.10	0.05	#	0.10

See notes at end of table.

Table M-127. Summary of undergraduate study item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non- doctorate- granting, primarily subbacca- laureate	4-year, non- doctorate- granting, primarily bacca- laureate	4-year, doctorate- granting						
Variable	All students	Less- than- 2-year	2-year				Less- than- 4-year	4-year, non- doctorate- granting	4-year, doctorate- granting	Less- than- 2-year	2-year	4-year
PCTDEP_AC (Income percentile dependent students [administrative collection])												
Before imputation												
Mean percent relative bias across characteristics	25.35	33.10	30.82	26.92	21.22	20.84	49.82	24.70	26.80	38.03	32.98	34.81
Median percent relative bias across characteristics	20.62	24.72	22.89	18.48	13.60	10.11	44.71	15.42	16.88	34.72	28.27	23.78
Percentage of characteristics with significant bias	45.42	31.37	65.17	56.98	56.04	54.35	16.36	47.73	62.22	52.11	32.47	24.10
Median effect size	0.23	0.31	0.25	0.22	0.17	0.15	0.52	0.23	0.24	0.29	0.34	0.29
After imputation												
Difference between pre- and postimputation means	6.02*	7.76*	7.56*	9.51*	6.19*	6.16*	0.66	5.02*	4.85*	4.63*	3.18	5.07*
Effect size for difference	0.10	0.14	0.12	0.15	0.11	0.12	0.01	0.09	0.10	0.06	0.04	0.07
PCTINDEP_AC (Income percentile independent students [administrative collection])												
Before imputation												
Mean percent relative bias across characteristics	31.89	33.32	35.12	35.00	29.49	39.31	35.23	42.34	43.50	31.73	28.03	21.17
Median percent relative bias across characteristics	25.38	28.44	22.33	22.47	21.68	26.13	32.28	43.31	35.97	32.07	21.73	17.12
Percentage of characteristics with significant bias	35.83	35.59	60.44	58.43	53.26	58.51	31.75	62.64	57.61	40.79	43.75	28.41
Median effect size	0.37	0.27	0.37	0.31	0.30	0.23	0.28	0.45	0.38	0.30	0.27	0.17
After imputation												
Difference between pre- and postimputation means	7.48*	0.86	8.92*	9.21*	5.93*	7.10*	0.83	4.74*	6.67*	4.22*	0.82	5.66*
Effect size for difference	0.12	0.02	0.15	0.16	0.10	0.11	0.01	0.09	0.11	0.06	0.01	0.10

See notes at end of table.

Table M-127. Summary of undergraduate study item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit			
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year	
PELLPACK_AC (Aid package with Pell grants [administrative collection])													
Before imputation													
Mean percent relative bias across characteristics	15.61	12.26	17.37	14.26	13.23	10.37	28.30	12.63	10.89	29.39	22.11	13.83	
Median percent relative bias across characteristics	9.09	2.18	9.93	7.90	7.27	4.56	17.59	6.13	4.33	25.49	18.00	8.89	
Percentage of characteristics with significant bias	34.73	0.00	56.04	40.23	35.87	53.19	1.82	24.14	35.96	32.89	32.50	7.06	
Median effect size	0.08	0.04	0.10	0.12	0.14	0.07	0.21	0.10	0.07	0.24	0.22	0.10	
After imputation													
Difference between pre- and postimputation means	14.78*	‡	18.27*	13.30*	19.61*	8.16*	36.46	15.05*	15.36*	11.44*	12.61*	10.18	
Effect size for difference	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	
PELLRAT1_AC (Ratio of Pell Grant to total aid [administrative collection])													
Before imputation													
Mean percent relative bias across characteristics	22.37	7.65	26.91	17.57	14.00	9.84	37.22	14.37	10.77	40.24	36.44	18.65	
Median percent relative bias across characteristics	16.29	3.94	20.21	9.89	9.10	4.93	33.42	8.90	5.18	33.63	28.77	10.75	
Percentage of characteristics with significant bias	39.22	0.00	63.22	28.92	23.86	33.71	1.89	14.29	18.39	38.89	30.67	4.94	
Median effect size	0.14	0.07	0.20	0.24	0.11	0.09	0.40	0.10	0.08	0.35	0.43	0.20	
After imputation													
Difference between pre- and postimputation means	5.09*	‡	2.22*	2.00	6.34*	2.09*	16.09	11.89	4.48	3.13	6.79	0.57	
Effect size for difference	0.04	‡	0.03	0.02	0.05	0.02	0.25	0.08	0.02	0.05	0.10	0.01	

See notes at end of table.

Table M-127. Summary of undergraduate study item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit			
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year	
PLUSPCT_AC (Ratio of Parent PLUS Loans to total aid [administrative collection])													
Before imputation													
Mean percent relative bias across characteristics	22.37	7.65	26.91	17.57	14.00	9.84	37.22	14.37	10.77	40.24	36.44	18.65	
Median percent relative bias across characteristics	16.29	3.94	20.21	9.89	9.10	4.93	33.42	8.90	5.18	33.63	28.77	10.75	
Percentage of characteristics with significant bias	39.22	0.00	63.22	28.92	23.86	33.71	1.89	14.29	18.39	38.89	30.67	4.94	
Median effect size	0.14	0.07	0.20	0.24	0.11	0.09	0.40	0.10	0.08	0.35	0.43	0.20	
After imputation													
Difference between pre- and postimputation means	2.13	‡	5.77	4.10	2.55	3.19	7.34	9.46	7.19*	7.03	29.84*	37.46	
Effect size for difference	0.01	‡	#	#	0.01	0.01	0.01	0.03	0.02	0.02	0.08	0.06	
SNEED2_AC (Student budget minus EFC minus total aid)													
Before imputation													
Mean percent relative bias across characteristics	25.67	25.80	27.55	26.11	19.55	19.93	42.15	23.22	21.74	40.85	39.89	26.43	
Median percent relative bias across characteristics	20.58	19.38	16.42	20.47	14.79	10.02	32.73	14.62	12.30	36.04	30.06	19.43	
Percentage of characteristics with significant bias	40.08	20.69	62.07	53.57	46.59	55.56	18.97	32.18	42.70	31.08	31.58	23.81	
Median effect size	0.26	0.26	0.25	0.28	0.20	0.16	0.49	0.26	0.21	0.41	0.42	0.28	
After imputation													
Difference between pre- and postimputation means	12.75*	0.94	1.83	1.83	9.97*	15.13*	3.44	31.78*	33.83*	9.59*	2.87	1.96	
Effect size for difference	0.09	0.01	0.02	0.01	0.08	0.11	0.03	0.21	0.25	0.13	0.03	0.01	

See notes at end of table.

Table M-127. Summary of undergraduate study item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
STAPCT_AC (Ratio of state aid to total aid [administrative collection])												
Before imputation												
Mean percent relative bias across characteristics	22.37	7.65	26.91	17.57	14.00	9.84	37.22	14.37	10.77	40.24	36.44	18.65
Median percent relative bias across characteristics	16.29	3.94	20.21	9.89	9.10	4.93	33.42	8.90	5.18	33.63	28.77	10.75
Percentage of characteristics with significant bias	39.22	0.00	63.22	28.92	23.86	33.71	1.89	14.29	18.39	38.89	30.67	4.94
Median effect size	0.14	0.07	0.20	0.24	0.11	0.09	0.40	0.10	0.08	0.35	0.43	0.20
After imputation												
Difference between pre- and postimputation means	2.61	‡	5.28	3.07	9.32*	0.80	23.11	3.09	7.81*	64.90*	49.87	4.23
Effect size for difference	0.01	‡	0.04	0.02	0.06	#	0.14	0.01	0.03	0.17	0.12	0.01
STGRPCT_AC (Ratio of state grants to total aid [administrative collection])												
Before imputation												
Mean percent relative bias across characteristics	22.37	7.65	26.91	17.57	14.00	9.84	37.22	14.37	10.77	40.24	36.44	18.65
Median percent relative bias across characteristics	16.29	3.94	20.21	9.89	9.10	4.93	33.42	8.90	5.18	33.63	28.77	10.75
Percentage of characteristics with significant bias	39.22	0.00	63.22	28.92	23.86	33.71	1.89	14.29	18.39	38.89	30.67	4.94
Median effect size	0.14	0.07	0.20	0.24	0.11	0.09	0.40	0.10	0.08	0.35	0.43	0.20
After imputation												
Difference between pre- and postimputation means	2.91	‡	5.98*	3.56	9.28*	0.65	23.19	3.13	7.72	75.20*	52.18	5.35
Effect size for difference	0.02	‡	0.04	0.02	0.06	#	0.14	0.01	0.03	0.18	0.12	0.01

See notes at end of table.

Table M-127. Summary of undergraduate study item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting			4-year, non-doctorate-granting	4-year, doctorate-granting		
Variable	All students	Less-than-2-year	2-year				Less-than-4-year			Less-than-2-year	2-year	4-year
TGRTLN_AC (Total loans and grants [administrative collection])												
Before imputation												
Mean percent relative bias across characteristics	16.71	7.17	16.46	12.70	12.10	9.34	34.00	11.74	8.97	32.14	26.76	16.20
Median percent relative bias across characteristics	10.82	2.62	10.11	7.94	7.02	4.77	20.45	6.26	4.74	23.68	16.79	9.04
Percentage of characteristics with significant bias	35.04	0.00	48.86	36.90	24.72	46.15	0.00	14.29	31.82	23.29	18.67	3.70
Median effect size	0.08	0.04	0.09	0.14	0.13	0.07	0.29	0.08	0.05	0.21	0.36	0.18
After imputation												
Difference between pre- and postimputation means	2.62*	‡	9.34*	10.12*	9.84*	2.01*	11.73	1.39	0.93	14.78*	3.86	3.80
Effect size for difference	0.02	‡	0.06	0.07	0.11	0.02	0.16	0.01	0.01	0.19	0.06	0.04
TNFEDAID_AC (Total nonfederal aid [administrative collection])												
Before imputation												
Mean percent relative bias across characteristics	15.13	7.17	18.00	12.47	10.79	9.01	35.32	11.94	10.09	30.78	28.22	14.46
Median percent relative bias across characteristics	9.20	2.63	9.03	5.47	4.73	3.47	27.07	5.98	3.69	21.15	14.50	8.92
Percentage of characteristics with significant bias	35.93	0.00	50.00	30.59	27.78	47.25	0.00	16.47	27.59	26.67	21.05	1.22
Median effect size	0.08	0.04	0.08	0.10	0.07	0.06	0.29	0.08	0.06	0.22	0.35	0.12
After imputation												
Difference between pre- and postimputation means	2.12	‡	8.43*	3.94*	1.85	0.46	9.66	3.03	1.57	72.11*	23.61	1.97
Effect size for difference	0.01	‡	0.03	0.01	0.01	#	0.05	0.02	0.01	0.19	0.08	0.01

See notes at end of table.

Table M-127. Summary of undergraduate study item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit			
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year	
TNFEDLN_AC (Total nonfederal loans [administrative collection])													
Before imputation													
Mean percent relative bias across characteristics	14.01	12.51	16.12	12.77	11.30	9.58	23.59	12.29	10.37	28.84	22.96	14.10	
Median percent relative bias across characteristics	7.33	1.91	8.25	5.34	5.25	3.46	14.07	5.51	3.54	19.69	15.14	7.80	
Percentage of characteristics with significant bias	36.86	0.00	50.55	39.08	32.61	48.39	2.22	19.54	29.55	29.33	24.68	7.23	
Median effect size	0.06	0.04	0.06	0.09	0.06	0.04	0.15	0.07	0.04	0.19	0.25	0.11	
After imputation													
Difference between pre- and postimputation means	1.11	‡	22.07	0.55	21.59	1.51*	‡	1.85	0.60	49.32	8.64	4.96	
Effect size for difference	#	‡	#	#	0.01	#	‡	#	#	0.02	0.01	#	
TOTALD4_AC (Total aid excluding Parent PLUS Loans [administrative collection])													
Before imputation													
Mean percent relative bias across characteristics	16.36	7.17	16.46	12.69	12.10	8.34	34.00	11.74	8.97	32.20	26.84	16.21	
Median percent relative bias across characteristics	10.78	2.62	10.11	7.92	7.01	4.72	20.45	6.27	4.74	23.62	16.13	9.35	
Percentage of characteristics with significant bias	34.76	0.00	48.86	36.90	24.72	45.56	0.00	13.10	31.82	23.29	20.00	3.70	
Median effect size	0.08	0.04	0.09	0.14	0.13	0.07	0.29	0.08	0.05	0.21	0.37	0.18	
After imputation													
Difference between pre- and postimputation means	2.53	‡	8.73*	10.18*	9.22*	2.08*	10.48	0.96	0.94	13.73*	4.99	2.55	
Effect size for difference	0.02	‡	0.06	0.06	0.10	0.02	0.14	0.01	0.01	0.16	0.07	0.03	

See notes at end of table.

Table M-127. Summary of undergraduate study item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non- doctorate- granting, primarily subbacca- laureate	4-year, non- doctorate- granting, primarily bacca- laureate	4-year, doctorate- granting						
Variable	All students	Less- than- 2-year	2-year				Less- than- 4-year	4-year, non- doctorate- granting	4-year, doctorate- granting	Less- than- 2-year	2-year	4-year
TOTALD6_AC (Total aid [excludes Parent PLUS Loans and veterans/DOD] [administrative collection])												
Before imputation												
Mean percent relative bias across characteristics	16.38	7.17	16.45	12.70	12.09	8.36	33.98	11.76	9.04	32.01	26.56	16.21
Median percent relative bias across characteristics	10.98	2.62	10.12	7.91	6.98	4.88	21.04	6.25	4.88	23.43	17.72	9.35
Percentage of characteristics with significant bias	34.76	0.00	48.86	36.90	24.72	45.56	0.00	13.10	32.95	24.32	20.00	3.70
Median effect size	0.08	0.04	0.09	0.14	0.13	0.07	0.29	0.08	0.05	0.21	0.37	0.18
After imputation												
Difference between pre- and postimputation means	2.77*	‡	9.27*	11.50*	9.94*	2.14*	11.72	1.27	1.03	14.94*	4.13	3.93
Effect size for difference	0.02	‡	0.06	0.08	0.11	0.02	0.16	0.01	0.01	0.19	0.06	0.04
TOTALD7_AC (Total aid (excludes veterans/DOD) [administrative collection])												
Before imputation												
Mean percent relative bias across characteristics	16.38	7.17	16.45	12.70	12.09	8.36	33.98	11.76	9.04	32.01	26.56	16.21
Median percent relative bias across characteristics	10.98	2.62	10.12	7.91	6.98	4.88	21.04	6.25	4.88	23.43	17.72	9.35
Percentage of characteristics with significant bias	34.76	0.00	48.86	36.90	24.72	45.56	0.00	13.10	32.95	24.32	20.00	3.70
Median effect size	0.08	0.04	0.09	0.14	0.13	0.07	0.29	0.08	0.05	0.21	0.37	0.18
After imputation												
Difference between pre- and postimputation means	3.01	‡	9.23*	11.43*	9.83*	2.45*	11.70	2.28	1.45	15.37*	6.73*	5.68
Effect size for difference	0.02	‡	0.06	0.07	0.10	0.02	0.16	0.02	0.01	0.19	0.09	0.06

See notes at end of table.

Table M-127. Summary of undergraduate study item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting						
Variable	All students	Less-than-2-year	2-year				Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
TOTAIID_AC (Total aid amount excluding private loans [administrative collection])												
Before imputation												
Mean percent relative bias across characteristics	16.38	7.17	16.45	12.70	12.09	8.36	33.98	11.76	9.04	32.01	26.56	16.21
Median percent relative bias across characteristics	10.98	2.62	10.12	7.91	6.98	4.88	21.04	6.25	4.88	23.43	17.72	9.35
Percentage of characteristics with significant bias	34.76	0.00	48.86	36.90	24.72	45.56	0.00	13.10	32.95	24.32	20.00	3.70
Median effect size	0.08	0.04	0.09	0.14	0.13	0.07	0.29	0.08	0.05	0.21	0.37	0.18
After imputation												
Difference between pre- and postimputation means	2.83*	‡	8.69*	10.15*	9.19*	2.40*	10.50	1.98	1.38	14.27*	7.29*	4.23
Effect size for difference	0.02	‡	0.06	0.06	0.10	0.02	0.14	0.02	0.01	0.17	0.09	0.04
TOTLOAN2_AC (Total loans [including Parent PLUS Loans] [administrative collection])												
Before imputation												
Mean percent relative bias across characteristics	14.54	13.88	16.63	13.26	11.52	9.82	25.55	12.62	10.82	31.19	24.32	14.54
Median percent relative bias across characteristics	7.76	2.42	8.47	5.45	5.72	3.68	15.12	5.81	3.66	22.65	16.56	7.95
Percentage of characteristics with significant bias	37.71	0.00	49.45	37.93	31.52	48.39	2.17	18.39	29.55	27.63	23.08	7.14
Median effect size	0.07	0.04	0.06	0.09	0.06	0.05	0.17	0.08	0.04	0.20	0.27	0.11
After imputation												
Difference between pre- and postimputation means	4.07*	‡	5.56*	1.62*	3.93*	1.38*	1.48	5.08	3.70*	9.87	9.76*	4.36
Effect size for difference	0.02	‡	0.02	0.01	0.03	0.01	0.01	0.03	0.02	0.09	0.11	0.04

See notes at end of table.

Table M-127. Summary of undergraduate study item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

		Public					Private nonprofit			Private for-profit		
				4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting						
Variable	All students	Less-than-2-year	2-year				Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
TOTLOAN_AC (Total loans [excluding private loans and Parent PLUS Loans] [administrative collection])												
Before imputation												
Mean percent relative bias across characteristics	14.52	13.88	16.63	13.26	11.53	9.81	25.58	12.61	10.77	31.00	24.36	14.54
Median percent relative bias across characteristics	7.75	2.42	8.51	5.44	5.69	3.67	15.06	5.86	3.53	21.40	15.60	7.94
Percentage of characteristics with significant bias	37.71	0.00	49.45	39.08	31.52	48.39	2.17	18.39	30.68	26.32	23.38	7.14
Median effect size	0.07	0.04	0.06	0.09	0.06	0.05	0.17	0.08	0.04	0.21	0.26	0.11
After imputation												
Difference between pre- and postimputation means	3.31*	‡	5.49*	1.62	2.91*	0.98*	1.92	2.00	3.24*	7.87	5.58	2.17
Effect size for difference	0.02	‡	0.02	0.01	0.02	0.01	0.02	0.02	0.03	0.08	0.07	0.02
UNSBLOAN_AC (Total unsubsidized loans [all sources] [administrative collection])												
Before imputation												
Mean percent relative bias across characteristics	14.54	13.88	16.63	13.26	11.52	9.82	25.55	12.62	10.82	31.19	24.32	14.54
Median percent relative bias across characteristics	7.76	2.42	8.47	5.45	5.72	3.68	15.12	5.81	3.66	22.65	16.56	7.95
Percentage of characteristics with significant bias	37.71	0.00	49.45	37.93	31.52	48.39	2.17	18.39	29.55	27.63	23.08	7.14
Median effect size	0.07	0.04	0.06	0.09	0.06	0.05	0.17	0.08	0.04	0.20	0.27	0.11
After imputation												
Difference between pre- and postimputation means	4.43*	‡	5.50*	1.82*	4.39*	1.49*	1.27	6.14	3.77*	10.53	11.12*	5.44
Effect size for difference	0.02	‡	0.01	#	0.02	0.01	0.01	0.03	0.02	0.09	0.10	0.04

See notes at end of table.

Table M-127. Summary of undergraduate study item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public					Private nonprofit			Private for-profit		
		Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
WORKPCT_AC (Ratio of work-study to total aid [administrative collection])												
Before imputation												
Mean percent relative bias across characteristics	22.37	7.65	26.91	17.57	14.00	9.84	37.22	14.37	10.77	40.24	36.44	18.65
Median percent relative bias across characteristics	16.29	3.94	20.21	9.89	9.10	4.93	33.42	8.90	5.18	33.63	28.77	10.75
Percentage of characteristics with significant bias	39.22	0.00	63.22	28.92	23.86	33.71	1.89	14.29	18.39	38.89	30.67	4.94
Median effect size	0.14	0.07	0.20	0.24	0.11	0.09	0.40	0.10	0.08	0.35	0.43	0.20
After imputation												
Difference between pre- and postimputation means	7.64	‡	2.68	67.27	12.48	6.73*	100.00	6.25	5.07	17.71	0.61	19.13
Effect size for difference	0.01	‡	#	0.11	0.02	0.01	0.05	0.02	0.01	#	#	0.01

Rounds to zero.

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < .05$. The difference between the pre- and postimputation means was significant at the 0.05 level. For categorical variables, at least one category difference was significant.

NOTE: DOD = Department of Defense; EFC = expected family contribution. Relative bias and effect size are calculated using the weighted differences between respondent and full-sample means. Relative bias is defined as the ratio of estimated bias to the weighted full-sample mean. Effect size for categorical variables was calculated as the square root of the sum over categories of the squared differences over full-sample means. For categorical variables, the difference between pre- and postimputation means was calculated as the size-weighted average difference between pre- and postimputation percentages across categories. Variables and characteristics that did not meet reporting standards were excluded from calculation of summary statistics.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
AIDAPP (Applied for any aid)							
Before imputation							
Mean percent relative bias across characteristics	12.76	5.70	14.89	11.68	12.94	12.95	17.29
Median percent relative bias across characteristics	6.50	5.29	9.69	5.14	8.69	7.13	8.08
Percentage of characteristics with significant bias	35.11	0.00	14.49	20.73	32.81	27.16	18.18
Median effect size	0.06	0.10	0.10	0.06	0.14	0.09	0.12
After imputation							
Difference between pre- and postimputation means	0.82	‡	7.96*	1.57*	0.50	0.45	1.38
Effect size for difference	0.01	‡	0.09	0.02	0.01	0.01	0.02
AIDCST (Ratio of total aid to student budget)							
Before imputation							
Mean percent relative bias across characteristics	12.65	4.83	16.43	12.83	13.44	13.26	17.28
Median percent relative bias across characteristics	6.10	5.38	10.03	5.40	9.93	6.98	8.25
Percentage of characteristics with significant bias	32.98	0.00	17.39	25.30	31.25	25.93	19.74
Median effect size	0.06	0.06	0.10	0.07	0.15	0.09	0.12
After imputation							
Difference between pre- and postimputation means	1.97*	‡	20.00*	1.27	1.30	2.90	1.93
Effect size for difference	0.02	‡	0.18	0.01	0.01	0.03	0.02
AIDSNEED (Aid amount exceeding federal need)							
Before imputation							
Mean percent relative bias across characteristics	39.84	‡	52.52	42.74	31.74	42.18	36.76
Median percent relative bias across characteristics	35.06	‡	45.80	32.90	22.62	33.46	31.95
Percentage of characteristics with significant bias	62.77	‡	58.21	61.25	43.75	56.79	32.05
Median effect size	0.35	‡	0.74	0.40	0.47	0.43	0.39
After imputation							
Difference between pre- and postimputation means	3.54	‡	38.99	2.15	7.11	5.10	11.23
Effect size for difference	0.01	‡	0.16	0.01	0.03	0.02	0.05

See notes at end of table.

**Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution:
2019–20—Continued**

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
AIDSRC (Aid package by source of aid)							
Before imputation							
Mean percent relative bias across characteristics	12.76	5.70	14.89	11.68	12.94	12.95	17.29
Median percent relative bias across characteristics	6.50	5.29	9.69	5.14	8.69	7.13	8.08
Percentage of characteristics with significant bias	35.11	0.00	14.49	20.73	32.81	27.16	18.18
Median effect size	0.06	0.10	0.10	0.06	0.14	0.09	0.12
After imputation							
Difference between pre- and postimputation means	6.41*	‡	14.16*	7.27*	4.81	7.50*	3.31
Effect size for difference	‡	‡	‡	‡	‡	‡	‡
AIDSRG (Graduate aid package by source of aid)							
Before imputation							
Mean percent relative bias across characteristics	12.76	5.70	14.89	11.68	12.94	12.95	17.29
Median percent relative bias across characteristics	6.50	5.29	9.69	5.14	8.69	7.13	8.08
Percentage of characteristics with significant bias	35.11	0.00	14.49	20.73	32.81	27.16	18.18
Median effect size	0.06	0.10	0.10	0.06	0.14	0.09	0.12
After imputation							
Difference between pre- and postimputation means	6.48*	‡	14.61*	7.20*	5.09	7.17*	2.89
Effect size for difference	‡	‡	‡	‡	‡	‡	‡
AIDTYPE (Aid package by type of aid)							
Before imputation							
Mean percent relative bias across characteristics	12.76	5.70	14.89	11.68	12.94	12.95	17.29
Median percent relative bias across characteristics	6.50	5.29	9.69	5.14	8.69	7.13	8.08
Percentage of characteristics with significant bias	35.11	0.00	14.49	20.73	32.81	27.16	18.18
Median effect size	0.06	0.10	0.10	0.06	0.14	0.09	0.12
After imputation							
Difference between pre- and postimputation means	5.97*	‡	15.87*	7.18*	5.13*	5.88*	1.87
Effect size for difference	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
AIDTYPEG (Graduate aid package by type of aid)							
Before imputation							
Mean percent relative bias across characteristics	12.76	5.70	14.89	11.68	12.94	12.95	17.29
Median percent relative bias across characteristics	6.50	5.29	9.69	5.14	8.69	7.13	8.08
Percentage of characteristics with significant bias	35.11	0.00	14.49	20.73	32.81	27.16	18.18
Median effect size	0.06	0.10	0.10	0.06	0.14	0.09	0.12
After imputation							
Difference between pre- and postimputation means	5.88*	‡	15.87*	7.03*	5.13*	6.35*	1.87
Effect size for difference	‡	‡	‡	‡	‡	‡	‡
AWAREIDR (Aware of income-driven student loan repayment plans)							
Before imputation							
Mean percent relative bias across characteristics	12.93	0.91	15.91	12.31	13.31	13.76	15.35
Median percent relative bias across characteristics	7.28	0.73	9.91	6.97	6.80	8.63	6.31
Percentage of characteristics with significant bias	51.55	0.00	37.14	41.18	32.84	43.37	21.25
Median effect size	0.07	0.05	0.13	0.06	0.11	0.10	0.11
After imputation							
Difference between pre- and postimputation means	0.98*	‡	3.36	0.56	2.58	2.00*	2.44*
Effect size for difference	0.01	‡	0.03	0.01	0.03	0.02	0.02
AWARELFP (Aware of student loan forgiveness programs)							
Before imputation							
Mean percent relative bias across characteristics	12.91	0.91	15.94	12.32	13.29	13.75	15.31
Median percent relative bias across characteristics	7.34	0.73	10.13	6.99	6.80	8.67	6.19
Percentage of characteristics with significant bias	51.55	0.00	38.57	41.18	32.84	44.58	21.25
Median effect size	0.07	0.05	0.13	0.06	0.11	0.10	0.11
After imputation							
Difference between pre- and postimputation means	0.72	‡	0.29	1.14	1.52	0.54	0.26
Effect size for difference	0.01	‡	#	0.01	0.02	0.01	#

See notes at end of table.

**Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution:
2019–20—Continued**

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
BANK1 (Bank accounts: had checking or savings account)							
Before imputation							
Mean percent relative bias across characteristics	12.75	0.89	16.02	12.50	13.46	13.43	15.76
Median percent relative bias across characteristics	7.28	0.73	10.60	6.99	6.40	8.70	7.12
Percentage of characteristics with significant bias	50.52	0.00	37.14	40.00	32.84	42.17	16.25
Median effect size	0.07	0.05	0.13	0.06	0.11	0.10	0.11
After imputation							
Difference between pre- and postimputation means	0.23	‡	0.12	0.01	0.03	0.22*	0.31
Effect size for difference	0.01	‡	‡	‡	‡	‡	‡
BANK2 (Bank accounts: individual or shared)							
Before imputation							
Mean percent relative bias across characteristics	13.11	0.86	16.28	12.93	13.86	13.48	16.41
Median percent relative bias across characteristics	7.55	0.76	11.14	7.33	6.82	8.79	7.86
Percentage of characteristics with significant bias	50.52	0.00	37.14	42.35	32.84	43.37	21.25
Median effect size	0.07	0.05	0.14	0.06	0.12	0.10	0.11
After imputation							
Difference between pre- and postimputation means	0.12	‡	1.05	0.45	1.07	0.23	1.24
Effect size for difference	#	‡	0.01	#	0.01	#	0.01
BAYEAR (Year received bachelor's degree)							
Before imputation							
Mean percent relative bias across characteristics	12.66	23.27	16.53	13.20	12.80	14.26	15.93
Median percent relative bias across characteristics	7.33	12.81	10.33	8.70	9.26	10.03	7.50
Percentage of characteristics with significant bias	51.55	36.84	42.86	43.53	45.31	46.99	30.38
Median effect size	0.08	0.23	0.13	0.07	0.12	0.11	0.11
After imputation							
Difference between pre- and postimputation means	0.01*	0.03	0.01	0.01	0.01	#	0.03*
Effect size for difference	0.02	0.07	0.02	0.01	0.03	0.01	0.07

See notes at end of table.

Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
BAYEARM (Year and month received bachelor's degree)							
Before imputation							
Mean percent relative bias across characteristics	12.66	23.27	16.53	13.20	12.80	14.26	15.93
Median percent relative bias across characteristics	7.33	12.81	10.33	8.70	9.26	10.03	7.50
Percentage of characteristics with significant bias	51.55	36.84	42.86	43.53	45.31	46.99	30.38
Median effect size	0.08	0.23	0.13	0.07	0.12	0.11	0.11
After imputation							
Difference between pre- and postimputation means	0.01	0.03	0.01	0.01	0.01	#	0.03
Effect size for difference	0.02	0.07	0.02	0.01	0.03	0.01	0.07
BINCOME (Total income [categorical])							
Before imputation							
Mean percent relative bias across characteristics	39.66	22.10	45.17	43.57	31.81	41.92	36.11
Median percent relative bias across characteristics	27.51	11.76	33.32	25.42	20.42	32.83	29.58
Percentage of characteristics with significant bias	71.13	35.71	52.05	67.06	49.28	67.47	45.12
Median effect size	0.32	0.25	0.47	0.37	0.33	0.37	0.28
After imputation							
Difference between pre- and postimputation means	21.19*	‡	35.90*	25.16*	25.40*	24.92*	19.72*
Effect size for difference	0.81	‡	‡	‡	‡	‡	‡
BORAMT1 (Cumulative amount borrowed for undergrad)							
Before imputation							
Mean percent relative bias across characteristics	12.92	2.51	15.46	12.47	13.58	13.86	15.59
Median percent relative bias across characteristics	7.28	1.69	8.87	7.07	7.15	8.68	6.72
Percentage of characteristics with significant bias	51.55	0.00	36.62	38.82	26.47	44.58	18.75
Median effect size	0.07	0.07	0.11	0.07	0.10	0.10	0.10
After imputation							
Difference between pre- and postimputation means	0.32	‡	3.35	0.95	2.01	0.77	1.14
Effect size for difference	#	‡	0.03	0.01	0.02	0.01	0.01

See notes at end of table.

Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
BORAMT2 (Cumulative amount borrowed for grad)							
Before imputation							
Mean percent relative bias across characteristics	16.74	10.34	21.11	16.50	16.50	17.50	19.15
Median percent relative bias across characteristics	8.49	3.05	12.27	7.40	8.50	11.12	7.72
Percentage of characteristics with significant bias	44.90	8.33	41.67	43.68	25.37	37.35	19.23
Median effect size	0.10	0.11	0.14	0.09	0.16	0.13	0.13
After imputation							
Difference between pre- and postimputation means	0.76	‡	2.09	0.65	0.14	2.82	1.02
Effect size for difference	#	‡	0.01	#	#	0.02	0.01
BORAMT3 (Cumulative amount borrowed for undergraduate and graduate)							
Before imputation							
Mean percent relative bias across characteristics	16.63	10.29	20.97	16.62	16.42	17.47	19.46
Median percent relative bias across characteristics	7.70	2.90	12.44	7.45	9.20	11.10	7.84
Percentage of characteristics with significant bias	44.90	8.33	40.28	44.83	23.88	37.35	20.51
Median effect size	0.10	0.12	0.14	0.09	0.16	0.13	0.13
After imputation							
Difference between pre- and postimputation means	0.15	‡	2.39	1.12	0.45	2.42	0.22
Effect size for difference	#	‡	0.02	0.01	#	0.02	#
CAGI (Adjusted gross income [AGI])							
Before imputation							
Mean percent relative bias across characteristics	48.12	21.03	50.19	53.83	35.64	52.98	39.37
Median percent relative bias across characteristics	33.21	7.11	37.72	37.75	23.53	48.39	30.04
Percentage of characteristics with significant bias	64.95	26.67	50.00	66.28	46.38	66.67	48.78
Median effect size	0.37	0.25	0.56	0.42	0.42	0.44	0.27
After imputation							
Difference between pre- and postimputation means	18.20*	2.13	15.38*	19.02*	13.45*	20.72*	17.08*
Effect size for difference	0.15	0.03	0.20	0.18	0.15	0.16	0.11

See notes at end of table.

**Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution:
2019–20—Continued**

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
CINCOME (Total income [continuous])							
Before imputation							
Mean percent relative bias across characteristics	39.66	22.10	45.17	43.57	31.81	41.92	36.11
Median percent relative bias across characteristics	27.51	11.76	33.32	25.42	20.42	32.83	29.58
Percentage of characteristics with significant bias	71.13	35.71	52.05	67.06	49.28	67.47	45.12
Median effect size	0.32	0.25	0.47	0.37	0.33	0.37	0.28
After imputation							
Difference between pre- and postimputation means	23.32*	11.24	17.25*	24.37*	16.29*	26.46*	19.06*
Effect size for difference	0.17	0.13	0.20	0.19	0.16	0.18	0.12
COVCOMMCWRK (COVID-19 pandemic: Helpful communication from NPSAS: Access to coursework)							
Before imputation							
Mean percent relative bias across characteristics	14.67	5.37	16.95	14.68	16.63	14.92	24.48
Median percent relative bias across characteristics	9.33	2.73	10.32	9.86	11.08	9.62	17.79
Percentage of characteristics with significant bias	48.98	25.00	37.14	49.41	42.03	48.19	19.75
Median effect size	0.10	0.10	0.12	0.09	0.12	0.12	0.20
After imputation							
Difference between pre- and postimputation means	0.67*	‡	3.97*	0.62	1.03	1.29*	3.49
Effect size for difference	0.01	‡	‡	0.01	‡	0.02	0.04
COVCOMMEMP (COVID-19 pandemic: Helpful communication from NPSAS: Employment at institution)							
Before imputation							
Mean percent relative bias across characteristics	14.70	5.37	16.98	14.69	16.58	14.82	24.44
Median percent relative bias across characteristics	9.09	2.73	10.19	9.76	10.37	9.44	17.47
Percentage of characteristics with significant bias	50.00	25.00	37.14	49.41	40.58	49.40	19.75
Median effect size	0.10	0.10	0.12	0.09	0.12	0.12	0.20
After imputation							
Difference between pre- and postimputation means	0.78*	‡	4.43	1.64*	1.66	1.24	3.33*
Effect size for difference	0.01	‡	‡	0.02	‡	0.01	0.05

See notes at end of table.

Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
COVCOMMFAID (COVID-19 pandemic: Helpful communication from NPSAS: Financial aid)							
Before imputation							
Mean percent relative bias across characteristics	14.69	5.37	16.96	14.69	16.62	14.91	24.55
Median percent relative bias across characteristics	8.93	2.73	10.18	9.87	10.78	8.95	17.37
Percentage of characteristics with significant bias	47.96	25.00	35.21	49.41	42.03	48.19	19.75
Median effect size	0.10	0.10	0.12	0.09	0.13	0.12	0.20
After imputation							
Difference between pre- and postimputation means	1.14*	‡	0.72	0.52	2.95*	1.65*	6.59
Effect size for difference	0.01	‡	0.01	0.01	0.04	0.02	0.07
COVCOMMHOUS (COVID-19 pandemic: Helpful communication from NPSAS: Housing [on campus or college owned])							
Before imputation							
Mean percent relative bias across characteristics	14.66	5.37	17.17	14.68	16.59	14.93	24.46
Median percent relative bias across characteristics	9.30	2.73	10.47	9.76	10.31	9.45	17.64
Percentage of characteristics with significant bias	47.96	25.00	36.62	49.41	42.03	48.19	19.75
Median effect size	0.10	0.10	0.12	0.09	0.12	0.13	0.20
After imputation							
Difference between pre- and postimputation means	0.35	‡	2.87*	0.39	0.66	1.09	3.12*
Effect size for difference	0.01	‡	‡	0.01	‡	0.02	0.05
COVCOMMPROG (COVID-19 pandemic: Helpful communication from NPSAS: Degree program progress)							
Before imputation							
Mean percent relative bias across characteristics	14.73	5.37	16.95	14.66	16.54	15.14	24.52
Median percent relative bias across characteristics	9.35	2.73	10.17	9.83	10.39	8.79	17.31
Percentage of characteristics with significant bias	47.96	25.00	36.62	49.41	42.03	48.19	19.75
Median effect size	0.10	0.10	0.12	0.09	0.12	0.13	0.20
After imputation							
Difference between pre- and postimputation means	0.53	‡	1.61	0.72	0.51	0.64	2.69
Effect size for difference	0.01	‡	‡	0.01	‡	0.01	0.04

See notes at end of table.

Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
COVENRDIS (COVID-19 pandemic: Enrollment disruptions/changes)							
Before imputation							
Mean percent relative bias across characteristics	15.30	5.31	17.47	15.78	16.94	15.09	24.73
Median percent relative bias across characteristics	9.04	2.94	10.98	10.08	10.74	9.21	18.68
Percentage of characteristics with significant bias	47.96	25.00	41.43	52.94	37.68	48.19	18.52
Median effect size	0.10	0.10	0.13	0.09	0.12	0.13	0.20
After imputation							
Difference between pre- and postimputation means	1.01	‡	0.20	1.00	4.85*	0.15	2.79
Effect size for difference	0.01	‡	#	0.01	0.05	#	0.03
COVEXPABS (COVID-19 pandemic: Took leave of absence from NPSAS)							
Before imputation							
Mean percent relative bias across characteristics	15.30	5.31	17.47	15.78	16.94	15.09	24.73
Median percent relative bias across characteristics	9.04	2.94	10.98	10.08	10.74	9.21	18.68
Percentage of characteristics with significant bias	47.96	25.00	41.43	52.94	37.68	48.19	18.52
Median effect size	0.10	0.10	0.13	0.09	0.12	0.13	0.20
After imputation							
Difference between pre- and postimputation means	0.07	‡	0.01	0.02	0.43	0.10	2.75
Effect size for difference	#	‡	‡	‡	‡	‡	0.05
COVEXPBRK (COVID-19 pandemic: School break extended)							
Before imputation							
Mean percent relative bias across characteristics	15.30	5.31	17.47	15.78	16.94	15.09	24.73
Median percent relative bias across characteristics	9.04	2.94	10.98	10.08	10.74	9.21	18.68
Percentage of characteristics with significant bias	47.96	25.00	41.43	52.94	37.68	48.19	18.52
Median effect size	0.10	0.10	0.13	0.09	0.12	0.13	0.20
After imputation							
Difference between pre- and postimputation means	0.62	‡	2.74	1.53*	0.48	0.31	8.38*
Effect size for difference	0.01	‡	0.03	0.02	‡	#	0.17

See notes at end of table.

Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
COVEXPCAN (COVID-19 pandemic: Some or all classes canceled)							
Before imputation							
Mean percent relative bias across characteristics	15.30	5.31	17.47	15.78	16.94	15.09	24.73
Median percent relative bias across characteristics	9.04	2.94	10.98	10.08	10.74	9.21	18.68
Percentage of characteristics with significant bias	47.96	25.00	41.43	52.94	37.68	48.19	18.52
Median effect size	0.10	0.10	0.13	0.09	0.12	0.13	0.20
After imputation							
Difference between pre- and postimputation means	0.23	‡	1.01	0.38	1.08*	0.09	0.38
Effect size for difference	#	‡	‡	0.01	‡	#	0.01
COVEXPCC (COVID-19 pandemic: Had difficulty finding safe and stable child care)							
Before imputation							
Mean percent relative bias across characteristics	41.72	‡	36.29	50.85	36.22	53.56	40.42
Median percent relative bias across characteristics	23.44	‡	23.52	33.83	24.69	31.59	24.18
Percentage of characteristics with significant bias	48.94	‡	29.23	42.86	35.00	49.38	14.10
Median effect size	0.28	‡	0.30	0.34	0.23	0.37	0.27
After imputation							
Difference between pre- and postimputation means	5.50*	‡	‡	4.91*	5.53*	1.91	7.10*
Effect size for difference	0.06	‡	‡	‡	‡	‡	‡
COVEXPFIN (COVID-19 pandemic: Received emergency financial assistance from NPSAS)							
Before imputation							
Mean percent relative bias across characteristics	15.30	5.31	17.47	15.78	16.94	15.09	24.73
Median percent relative bias across characteristics	9.04	2.94	10.98	10.08	10.74	9.21	18.68
Percentage of characteristics with significant bias	47.96	25.00	41.43	52.94	37.68	48.19	18.52
Median effect size	0.10	0.10	0.13	0.09	0.12	0.13	0.20
After imputation							
Difference between pre- and postimputation means	0.01	‡	0.91	0.72*	0.66	0.54	0.62
Effect size for difference	#	‡	‡	0.01	‡	0.01	0.01

See notes at end of table.

Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
COVEXPFOOD (COVID-19 pandemic: Had difficulty accessing or paying for food)							
Before imputation							
Mean percent relative bias across characteristics	13.03	1.29	14.42	13.25	14.55	12.81	22.19
Median percent relative bias across characteristics	6.91	0.21	8.58	7.17	7.91	8.79	15.46
Percentage of characteristics with significant bias	46.39	0.00	34.29	48.24	39.39	42.17	14.81
Median effect size	0.07	0.02	0.10	0.08	0.10	0.10	0.18
After imputation							
Difference between pre- and postimputation means	0.09	‡	0.46	0.01	0.45*	#	0.45
Effect size for difference	#	‡	‡	‡	‡	‡	‡
COVEXPHM (COVID-19 pandemic: Had difficulty finding safe and stable housing)							
Before imputation							
Mean percent relative bias across characteristics	13.03	1.29	14.42	13.25	14.55	12.81	22.19
Median percent relative bias across characteristics	6.91	0.21	8.58	7.17	7.91	8.79	15.46
Percentage of characteristics with significant bias	46.39	0.00	34.29	48.24	39.39	42.17	14.81
Median effect size	0.07	0.02	0.10	0.08	0.10	0.10	0.18
After imputation							
Difference between pre- and postimputation means	0.01	‡	0.08	0.09	0.13*	0.15*	0.13
Effect size for difference	‡	‡	‡	‡	‡	‡	‡
COVEXPJOB (COVID-19 pandemic: Lost job or lost income because of reduced hours)							
Before imputation							
Mean percent relative bias across characteristics	13.03	1.29	14.42	13.25	14.55	12.81	22.19
Median percent relative bias across characteristics	6.91	0.21	8.58	7.17	7.91	8.79	15.46
Percentage of characteristics with significant bias	46.39	0.00	34.29	48.24	39.39	42.17	14.81
Median effect size	0.07	0.02	0.10	0.08	0.10	0.10	0.18
After imputation							
Difference between pre- and postimputation means	0.38	‡	0.40	0.05	1.56*	0.65*	0.70
Effect size for difference	0.01	‡	‡	#	‡	0.01	0.01

See notes at end of table.

Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
COVEXPMOT (COVID-19 pandemic: Moved to another living situation)							
Before imputation							
Mean percent relative bias across characteristics	13.03	1.29	14.42	13.25	14.55	12.81	22.19
Median percent relative bias across characteristics	6.91	0.21	8.58	7.17	7.91	8.79	15.46
Percentage of characteristics with significant bias	46.39	0.00	34.29	48.24	39.39	42.17	14.81
Median effect size	0.07	0.02	0.10	0.08	0.10	0.10	0.18
After imputation							
Difference between pre- and postimputation means	0.04	‡	0.28	0.35	0.63	0.14	0.10
Effect size for difference	#	‡	‡	0.01	‡	‡	‡
COVEXPONL (COVID-19 pandemic: Some or all classes moved to online only)							
Before imputation							
Mean percent relative bias across characteristics	15.81	5.31	17.93	15.45	21.58	15.09	34.44
Median percent relative bias across characteristics	9.63	2.94	10.54	9.97	15.78	9.21	28.36
Percentage of characteristics with significant bias	55.10	25.00	38.57	52.94	33.33	48.19	32.10
Median effect size	0.11	0.10	0.13	0.09	0.21	0.13	0.28
After imputation							
Difference between pre- and postimputation means	1.90*	‡	1.19	1.42*	0.20	1.22	1.19
Effect size for difference	0.02	‡	0.01	0.02	#	0.01	0.01
COVEXPPAD (COVID-19 pandemic: Moved back to permanent address)							
Before imputation							
Mean percent relative bias across characteristics	15.30	5.31	17.47	15.78	16.94	15.09	24.73
Median percent relative bias across characteristics	9.04	2.94	10.98	10.08	10.74	9.21	18.68
Percentage of characteristics with significant bias	47.96	25.00	41.43	52.94	37.68	48.19	18.52
Median effect size	0.10	0.10	0.13	0.09	0.12	0.13	0.20
After imputation							
Difference between pre- and postimputation means	0.22	‡	0.41	0.50	1.25	0.04	0.70
Effect size for difference	#	‡	‡	0.01	‡	#	0.02

See notes at end of table.

Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
COVEXPSAP (COVID-19 pandemic: Study-abroad program canceled or modified)							
Before imputation							
Mean percent relative bias across characteristics	15.30	5.31	17.47	15.78	16.94	15.09	24.73
Median percent relative bias across characteristics	9.04	2.94	10.98	10.08	10.74	9.21	18.68
Percentage of characteristics with significant bias	47.96	25.00	41.43	52.94	37.68	48.19	18.52
Median effect size	0.10	0.10	0.13	0.09	0.12	0.13	0.20
After imputation							
Difference between pre- and postimputation means	0.04	‡	0.03	0.15	0.27	0.08	0.03
Effect size for difference	#	‡	‡	‡	‡	‡	‡
COVEXPWIT (COVID-19 pandemic: Withdrew from NPSAS)							
Before imputation							
Mean percent relative bias across characteristics	15.30	5.31	17.47	15.78	16.94	15.09	24.73
Median percent relative bias across characteristics	9.04	2.94	10.98	10.08	10.74	9.21	18.68
Percentage of characteristics with significant bias	47.96	25.00	41.43	52.94	37.68	48.19	18.52
Median effect size	0.10	0.10	0.13	0.09	0.12	0.13	0.20
After imputation							
Difference between pre- and postimputation means	0.13	‡	0.19	0.06*	0.24	0.05	0.73*
Effect size for difference	0.01	‡	‡	‡	‡	‡	‡
COVFINDIS (COVID-19 pandemic: Financial disruptions/changes)							
Before imputation							
Mean percent relative bias across characteristics	15.30	5.31	17.47	15.78	16.94	15.09	24.73
Median percent relative bias across characteristics	9.04	2.94	10.98	10.08	10.74	9.21	18.68
Percentage of characteristics with significant bias	47.96	25.00	41.43	52.94	37.68	48.19	18.52
Median effect size	0.10	0.10	0.13	0.09	0.12	0.13	0.20
After imputation							
Difference between pre- and postimputation means	0.32	‡	1.97	0.24	0.26	0.01	4.02*
Effect size for difference	#	‡	0.02	#	#	#	0.05

See notes at end of table.

Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
COVHOUDIS (COVID-19 pandemic: Housing disruptions/changes)							
Before imputation							
Mean percent relative bias across characteristics	15.30	5.31	17.47	15.78	16.94	15.09	24.73
Median percent relative bias across characteristics	9.04	2.94	10.98	10.08	10.74	9.21	18.68
Percentage of characteristics with significant bias	47.96	25.00	41.43	52.94	37.68	48.19	18.52
Median effect size	0.10	0.10	0.13	0.09	0.12	0.13	0.20
After imputation							
Difference between pre- and postimputation means	0.30	‡	0.56	0.54	1.49	0.13	1.01
Effect size for difference	#	‡	‡	0.01	‡	#	0.02
COVIDAID (COVID-19 pandemic: Emergency aid received [institution reported])							
Before imputation							
Mean percent relative bias across characteristics	17.06	2.90	20.22	16.40	17.05	17.10	20.67
Median percent relative bias across characteristics	9.95	3.33	11.90	7.69	11.57	10.74	9.95
Percentage of characteristics with significant bias	55.21	0.00	38.24	49.41	34.92	37.50	33.33
Median effect size	0.12	0.09	0.15	0.09	0.19	0.15	0.15
After imputation							
Difference between pre- and postimputation means	0.21	‡	0.50	0.22	0.29	0.31	0.46
Effect size for difference	#	‡	‡	#	‡	0.01	‡
COVIDAIDAMT (COVID-19 pandemic: Emergency aid amount [institution reported])							
Before imputation							
Mean percent relative bias across characteristics	16.19	2.90	19.00	15.40	17.05	17.11	20.67
Median percent relative bias across characteristics	9.69	3.33	11.62	7.49	11.57	10.77	9.95
Percentage of characteristics with significant bias	54.74	0.00	37.31	48.81	34.92	37.50	33.33
Median effect size	0.12	0.09	0.14	0.09	0.19	0.15	0.15
After imputation							
Difference between pre- and postimputation means	3.22	‡	5.06	3.15	13.72	10.71	39.39
Effect size for difference	#	‡	0.01	#	0.02	0.02	0.03

See notes at end of table.

Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
COVINFOALTLV (COVID-19 pandemic: Information provided from NPSAS: Find alternative living arrangements)							
Before imputation							
Mean percent relative bias across characteristics	14.65	5.37	16.84	14.74	16.55	14.95	24.57
Median percent relative bias across characteristics	9.28	2.73	10.08	10.02	10.33	9.63	17.74
Percentage of characteristics with significant bias	47.96	25.00	37.14	49.41	42.03	48.19	19.75
Median effect size	0.10	0.10	0.12	0.09	0.12	0.13	0.20
After imputation							
Difference between pre- and postimputation means	0.68	‡	2.61	1.05	2.74	1.04	3.21*
Effect size for difference	0.01	‡	‡	0.01	‡	0.01	0.05
COVINFOEAID (COVID-19 pandemic: Information provided from NPSAS: Access emergency financial aid)							
Before imputation							
Mean percent relative bias across characteristics	14.66	5.37	16.94	14.72	16.55	14.97	24.56
Median percent relative bias across characteristics	9.37	2.73	10.32	9.98	10.29	9.75	17.70
Percentage of characteristics with significant bias	47.96	25.00	37.14	49.41	42.03	48.19	19.75
Median effect size	0.10	0.10	0.12	0.09	0.12	0.13	0.20
After imputation							
Difference between pre- and postimputation means	0.36	‡	2.74	0.37	2.90	0.76	2.60*
Effect size for difference	#	‡	0.03	#	0.03	0.01	0.04
COVINFOFAST (COVID-19 pandemic: Information provided from NPSAS: Access food assistance)							
Before imputation							
Mean percent relative bias across characteristics	14.67	5.37	16.92	14.73	16.50	14.94	24.57
Median percent relative bias across characteristics	9.22	2.73	10.21	9.98	10.24	8.62	17.82
Percentage of characteristics with significant bias	47.96	25.00	36.62	49.41	42.03	48.19	19.75
Median effect size	0.10	0.10	0.12	0.09	0.12	0.12	0.20
After imputation							
Difference between pre- and postimputation means	0.78	‡	3.97*	1.49*	3.57*	1.49*	2.60*
Effect size for difference	0.01	‡	‡	0.02	‡	0.02	0.06

See notes at end of table.

Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
COVINFOHLTH (COVID-19 pandemic: Information provided from NPSAS: Obtain physical/mental health care)							
Before imputation							
Mean percent relative bias across characteristics	14.66	5.37	16.94	14.73	16.56	14.95	24.57
Median percent relative bias across characteristics	9.28	2.73	10.24	9.99	10.31	9.66	17.72
Percentage of characteristics with significant bias	47.96	25.00	37.14	49.41	42.03	48.19	19.75
Median effect size	0.10	0.10	0.12	0.09	0.12	0.13	0.20
After imputation							
Difference between pre- and postimputation means	0.73	‡	2.18	0.49	5.54*	0.82	2.60
Effect size for difference	0.01	‡	‡	0.01	0.06	0.01	0.03
COVINFOMOV (COVID-19 pandemic: Information provided from NPSAS: Move out of college-owned housing)							
Before imputation							
Mean percent relative bias across characteristics	14.68	5.47	16.97	14.73	16.56	14.96	24.61
Median percent relative bias across characteristics	9.29	2.39	10.10	9.98	10.26	9.68	17.86
Percentage of characteristics with significant bias	47.96	25.00	37.14	49.41	42.03	48.19	19.75
Median effect size	0.10	0.09	0.12	0.09	0.12	0.13	0.20
After imputation							
Difference between pre- and postimputation means	0.72	‡	1.05	0.80	1.07	1.05	1.34*
Effect size for difference	0.01	‡	‡	0.01	‡	0.01	‡
COVREFTUITION (COVID-19 pandemic: Received tuition refund from NPSAS)							
Before imputation							
Mean percent relative bias across characteristics	14.65	14.42	16.10	14.50	16.63	14.04	26.56
Median percent relative bias across characteristics	7.59	14.43	8.85	8.91	10.78	7.76	19.52
Percentage of characteristics with significant bias	39.80	12.50	18.31	47.06	44.29	37.65	20.73
Median effect size	0.08	0.18	0.09	0.08	0.09	0.09	0.22
After imputation							
Difference between pre- and postimputation means	0.03	4.29	0.14	0.29	0.79	0.86	1.67
Effect size for difference	#	‡	#	#	‡	0.02	0.03

See notes at end of table.

**Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution:
2019–20—Continued**

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
COVROOMREF (COVID-19 pandemic: Received room-and-board refund from NPSAS)							
Before imputation							
Mean percent relative bias across characteristics	15.06	12.04	17.51	14.50	16.43	15.07	25.78
Median percent relative bias across characteristics	9.21	6.50	10.70	9.97	10.37	10.49	16.96
Percentage of characteristics with significant bias	46.94	30.00	35.71	49.41	37.68	48.19	18.52
Median effect size	0.09	0.17	0.14	0.10	0.12	0.12	0.21
After imputation							
Difference between pre- and postimputation means	0.07	0.71	0.54*	0.14	0.32	0.09	0.03
Effect size for difference	#	‡	‡	‡	‡	‡	‡
COVROOMREFSR (COVID-19 pandemic: Room-and-board refund from student records)							
Before imputation							
Mean percent relative bias across characteristics	20.11	2.10	28.31	17.72	20.56	20.97	26.12
Median percent relative bias across characteristics	12.14	2.28	17.05	8.37	14.16	13.23	15.18
Percentage of characteristics with significant bias	41.84	0.00	31.08	22.09	38.57	38.10	29.63
Median effect size	0.14	0.10	0.16	0.08	0.19	0.17	0.19
After imputation							
Difference between pre- and postimputation means	0.09	‡	1.77	0.25	0.01	0.64	0.16
Effect size for difference	#	‡	‡	0.01	‡	0.02	‡
COVTECHSER (COVID-19 pandemic: Received technology or technical services from NPSAS)							
Before imputation							
Mean percent relative bias across characteristics	22.24	6.59	26.72	19.90	33.40	21.50	66.88
Median percent relative bias across characteristics	15.37	3.62	19.33	15.00	27.11	14.70	59.54
Percentage of characteristics with significant bias	56.12	12.50	42.25	52.94	40.58	54.22	56.79
Median effect size	0.19	0.11	0.19	0.14	0.31	0.20	0.58
After imputation							
Difference between pre- and postimputation means	0.20	‡	1.33	1.07	0.70	0.60	2.14
Effect size for difference	#	‡	‡	0.01	0.01	0.01	0.02

See notes at end of table.

Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
COVTUITREFSR (COVID-19 pandemic: Tuition refund [institution reported])							
Before imputation							
Mean percent relative bias across characteristics	21.68	10.70	25.39	19.55	26.99	24.09	27.42
Median percent relative bias across characteristics	12.08	5.98	14.56	9.20	15.52	14.03	14.85
Percentage of characteristics with significant bias	35.71	18.18	13.70	28.74	38.89	33.33	30.00
Median effect size	0.14	0.14	0.15	0.12	0.23	0.19	0.18
After imputation							
Difference between pre- and postimputation means	2.10	‡	21.75	5.50	8.31	1.07	1.28
Effect size for difference	0.03	‡	0.27	0.07	0.12	0.01	0.02
CRBALCR (Credit cards: balance carried over each month)							
Before imputation							
Mean percent relative bias across characteristics	13.47	1.02	16.45	13.03	12.39	14.29	17.12
Median percent relative bias across characteristics	7.42	0.85	10.41	7.31	6.92	9.60	9.76
Percentage of characteristics with significant bias	47.42	0.00	38.57	36.47	22.73	42.17	17.50
Median effect size	0.07	0.05	0.13	0.06	0.12	0.10	0.11
After imputation							
Difference between pre- and postimputation means	0.55	‡	1.99	2.03*	1.51	0.30	1.85
Effect size for difference	0.01	‡	0.02	0.02	0.02	#	0.02
CRBALDUE (Credit cards: balance due on all credit cards)							
Before imputation							
Mean percent relative bias across characteristics	28.79	2.01	24.54	27.19	18.83	31.68	24.91
Median percent relative bias across characteristics	22.97	1.45	19.00	21.05	13.95	29.84	19.01
Percentage of characteristics with significant bias	60.20	0.00	38.24	50.00	32.31	51.81	36.25
Median effect size	0.28	0.11	0.29	0.24	0.23	0.36	0.22
After imputation							
Difference between pre- and postimputation means	2.04	‡	1.06	6.37	2.29	0.87	0.27
Effect size for difference	0.01	‡	0.01	0.04	0.02	0.01	#

See notes at end of table.

**Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution:
2019–20—Continued**

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
CRNUMCRD (Credit cards: number of credit cards in own name)							
Before imputation							
Mean percent relative bias across characteristics	12.96	0.89	16.04	12.64	13.56	13.80	15.89
Median percent relative bias across characteristics	7.00	0.73	10.53	7.20	7.41	9.13	6.79
Percentage of characteristics with significant bias	50.52	0.00	37.14	42.35	32.84	45.78	18.75
Median effect size	0.07	0.05	0.13	0.06	0.11	0.10	0.11
After imputation							
Difference between pre- and postimputation means	0.23	‡	0.19	1.04	1.19	1.37	1.71
Effect size for difference	#	‡	‡	0.01	‡	0.02	0.02
CRTUIT (Credit cards: used credit cards to pay tuition and fees in 2019–20)							
Before imputation							
Mean percent relative bias across characteristics	13.48	1.02	16.67	13.11	12.38	14.46	17.12
Median percent relative bias across characteristics	7.73	0.85	10.67	7.27	7.51	9.65	9.41
Percentage of characteristics with significant bias	47.42	0.00	38.57	36.47	22.73	42.17	17.50
Median effect size	0.07	0.05	0.13	0.06	0.11	0.11	0.11
After imputation							
Difference between pre- and postimputation means	1.38*	‡	2.16	0.94	3.01	1.75*	1.42
Effect size for difference	0.02	‡	0.02	0.01	0.03	0.02	0.01
CRTUIT2 (Credit cards: only source available to pay tuition and fees in 2019–20)							
Before imputation							
Mean percent relative bias across characteristics	24.34	1.43	21.66	25.62	21.56	25.09	36.03
Median percent relative bias across characteristics	12.11	1.49	15.84	15.64	13.08	15.75	29.86
Percentage of characteristics with significant bias	34.02	0.00	17.39	28.24	13.64	33.73	46.25
Median effect size	0.12	0.12	0.11	0.15	0.14	0.19	0.34
After imputation							
Difference between pre- and postimputation means	0.37	‡	‡	1.33	‡	0.70	4.31
Effect size for difference	#	‡	‡	0.01	‡	0.01	0.04

See notes at end of table.

**Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution:
2019–20—Continued**

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
CSTBKSDG (Cost of digital textbooks [student reported])							
Before imputation							
Mean percent relative bias across characteristics	12.73	2.59	16.25	12.39	13.52	13.60	16.00
Median percent relative bias across characteristics	7.37	2.39	10.43	6.99	6.42	8.56	7.47
Percentage of characteristics with significant bias	50.00	0.00	39.44	37.65	28.79	40.96	18.75
Median effect size	0.07	0.06	0.13	0.07	0.11	0.10	0.10
After imputation							
Difference between pre- and postimputation means	0.06	‡	1.18	2.28	1.06	1.42	2.80
Effect size for difference	#	‡	0.01	0.01	#	0.01	0.01
CSTBKSPR (Cost of print-only textbooks [student reported])							
Before imputation							
Mean percent relative bias across characteristics	12.71	2.59	16.26	12.39	13.54	13.58	15.97
Median percent relative bias across characteristics	7.37	2.39	10.56	6.99	6.39	8.51	7.62
Percentage of characteristics with significant bias	50.00	0.00	39.44	37.65	28.79	40.96	20.00
Median effect size	0.07	0.06	0.13	0.07	0.11	0.10	0.10
After imputation							
Difference between pre- and postimputation means	0.56	‡	4.72*	1.55	1.02	2.34	1.02
Effect size for difference	#	‡	0.03	0.01	0.01	0.01	0.01
CSTOTHER (Cost of other required course materials [student reported])							
Before imputation							
Mean percent relative bias across characteristics	12.69	2.82	16.30	12.40	13.55	13.42	15.99
Median percent relative bias across characteristics	7.04	3.27	10.66	7.01	6.46	8.30	7.42
Percentage of characteristics with significant bias	50.00	0.00	39.44	38.82	28.36	40.96	20.00
Median effect size	0.07	0.07	0.13	0.07	0.11	0.10	0.10
After imputation							
Difference between pre- and postimputation means	0.46	‡	20.43	1.53	2.24	1.84	6.95*
Effect size for difference	#	‡	0.03	#	0.01	#	0.02

See notes at end of table.

**Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution:
2019–20—Continued**

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
CSTSUPP (Cost of required supplies [student reported])							
Before imputation							
Mean percent relative bias across characteristics	12.72	2.77	16.26	12.39	13.54	13.57	16.00
Median percent relative bias across characteristics	6.89	3.08	10.56	7.00	6.44	8.71	7.58
Percentage of characteristics with significant bias	46.94	0.00	39.44	37.65	28.36	42.17	20.00
Median effect size	0.07	0.06	0.13	0.07	0.11	0.10	0.10
After imputation							
Difference between pre- and postimputation means	1.41	‡	7.52	2.20	9.10	2.14	2.09
Effect size for difference	#	‡	0.04	0.01	0.04	0.01	0.01
CSTTECH (Cost of required technology [student reported])							
Before imputation							
Mean percent relative bias across characteristics	12.70	2.77	16.25	12.44	13.60	13.59	16.01
Median percent relative bias across characteristics	7.44	3.08	10.43	7.08	6.45	8.61	7.41
Percentage of characteristics with significant bias	50.00	0.00	39.44	37.65	28.36	40.96	20.00
Median effect size	0.07	0.06	0.13	0.07	0.11	0.10	0.10
After imputation							
Difference between pre- and postimputation means	0.76	‡	3.50	1.44	4.19	2.29	4.16*
Effect size for difference	#	‡	0.01	0.01	0.02	0.01	0.02
CSTTOTAL (Total cost of required course materials [student reported])							
Before imputation							
Mean percent relative bias across characteristics	12.70	2.82	16.30	12.44	13.63	13.53	15.97
Median percent relative bias across characteristics	6.93	3.27	10.66	7.11	6.81	8.81	7.69
Percentage of characteristics with significant bias	46.94	0.00	39.44	37.65	27.94	42.17	18.75
Median effect size	0.07	0.07	0.13	0.07	0.11	0.10	0.10
After imputation							
Difference between pre- and postimputation means	0.14	‡	0.26	0.89	3.11	0.68	1.36
Effect size for difference	#	‡	#	0.01	0.02	#	0.01

See notes at end of table.

**Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution:
2019–20—Continued**

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
CUMLNTP1 (Cumulative loan type for undergrad)							
Before imputation							
Mean percent relative bias across characteristics	12.92	2.51	15.46	12.47	13.58	13.86	15.59
Median percent relative bias across characteristics	7.28	1.69	8.87	7.07	7.15	8.68	6.72
Percentage of characteristics with significant bias	51.55	0.00	36.62	38.82	26.47	44.58	18.75
Median effect size	0.07	0.07	0.11	0.07	0.10	0.10	0.10
After imputation							
Difference between pre- and postimputation means	0.46	‡	0.95	0.29	2.39	1.17	1.58*
Effect size for difference	0.01	‡	‡	‡	‡	‡	‡
CUMLNTP2 (Cumulative loan type for grad)							
Before imputation							
Mean percent relative bias across characteristics	16.74	10.34	21.11	16.50	16.50	17.50	19.15
Median percent relative bias across characteristics	8.49	3.05	12.27	7.40	8.50	11.12	7.72
Percentage of characteristics with significant bias	44.90	8.33	41.67	43.68	25.37	37.35	19.23
Median effect size	0.10	0.11	0.14	0.09	0.16	0.13	0.13
After imputation							
Difference between pre- and postimputation means	1.38*	‡	1.95	1.98*	1.53	2.52	3.27*
Effect size for difference	0.03	‡	‡	0.03	‡	0.03	0.07
CUMLNTP3 (Cumulative loan type for undergrad and grad)							
Before imputation							
Mean percent relative bias across characteristics	16.63	10.29	20.97	16.62	16.42	17.47	19.46
Median percent relative bias across characteristics	7.70	2.90	12.44	7.45	9.20	11.10	7.84
Percentage of characteristics with significant bias	44.90	8.33	40.28	44.83	23.88	37.35	20.51
Median effect size	0.10	0.12	0.14	0.09	0.16	0.13	0.13
After imputation							
Difference between pre- and postimputation means	2.22*	‡	4.32*	2.10*	4.13	3.08	4.80*
Effect size for difference	0.03	‡	‡	0.03	‡	0.04	0.07

See notes at end of table.

Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
DEPCARE (Dependents: child in paid childcare)							
Before imputation							
Mean percent relative bias across characteristics	35.20	‡	33.87	37.93	26.46	42.16	34.49
Median percent relative bias across characteristics	25.59	‡	24.61	27.92	17.47	29.96	21.42
Percentage of characteristics with significant bias	57.45	‡	43.94	45.24	31.15	45.68	29.49
Median effect size	0.24	‡	0.29	0.25	0.20	0.29	0.28
After imputation							
Difference between pre- and postimputation means	0.64	‡	0.02	2.81	0.94	0.36	2.91
Effect size for difference	0.01	‡	‡	0.03	‡	#	0.03
DEPCOLCS (Amount contributed to college costs for dependents in 2019–20)							
Before imputation							
Mean percent relative bias across characteristics	65.26	‡	39.68	76.56	38.62	63.90	42.39
Median percent relative bias across characteristics	38.16	‡	28.85	53.97	30.30	36.65	18.14
Percentage of characteristics with significant bias	47.31	‡	26.67	40.24	25.86	39.51	18.67
Median effect size	0.33	‡	0.36	0.43	0.31	0.47	0.24
After imputation							
Difference between pre- and postimputation means	5.85*	‡	‡	7.24	‡	6.94	0.69
Effect size for difference	0.04	‡	‡	0.05	‡	0.05	0.01
DEPCOST (Dependents: children in paid childcare - monthly costs)							
Before imputation							
Mean percent relative bias across characteristics	43.96	‡	35.47	47.26	32.32	52.79	46.21
Median percent relative bias across characteristics	29.96	‡	27.49	29.38	19.12	33.66	38.24
Percentage of characteristics with significant bias	51.61	‡	26.15	41.67	21.31	48.15	32.47
Median effect size	0.29	‡	0.28	0.29	0.18	0.32	0.37
After imputation							
Difference between pre- and postimputation means	2.05	‡	2.37	4.22*	0.35	2.19	5.68*
Effect size for difference	0.03	‡	0.03	0.06	#	0.03	0.08

See notes at end of table.

Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
DEPOTCST (Dependents: monthly cost of supporting dependents other than children)							
Before imputation							
Mean percent relative bias across characteristics	72.07	‡	60.64	77.54	63.21	70.79	54.24
Median percent relative bias across characteristics	34.28	‡	53.43	42.61	45.80	49.15	39.77
Percentage of characteristics with significant bias	30.11	‡	28.81	26.92	35.59	36.71	20.27
Median effect size	0.23	‡	0.46	0.47	0.62	0.40	0.42
After imputation							
Difference between pre- and postimputation means	4.40	‡	‡	16.86	22.80	16.48	1.03
Effect size for difference	0.03	‡	‡	0.11	0.15	0.13	0.01
DIS16A (Disability: deaf or serious difficulty hearing)							
Before imputation							
Mean percent relative bias across characteristics	12.70	1.22	15.89	12.47	13.49	13.61	15.64
Median percent relative bias across characteristics	6.91	0.71	10.47	7.00	6.53	9.11	7.34
Percentage of characteristics with significant bias	50.52	0.00	37.14	41.18	32.84	42.17	20.00
Median effect size	0.07	0.07	0.13	0.06	0.11	0.10	0.10
After imputation							
Difference between pre- and postimputation means	0.01	‡	0.29	0.09	0.01	0.08	0.12
Effect size for difference	‡	‡	‡	‡	‡	‡	‡
DIS16B (Disability: blind or serious difficulty seeing)							
Before imputation							
Mean percent relative bias across characteristics	12.77	1.22	15.89	12.49	13.49	13.77	15.64
Median percent relative bias across characteristics	7.06	0.71	10.47	7.03	6.53	9.27	7.34
Percentage of characteristics with significant bias	50.52	0.00	37.14	40.00	32.84	43.37	21.25
Median effect size	0.07	0.07	0.13	0.06	0.11	0.10	0.10
After imputation							
Difference between pre- and postimputation means	0.01	‡	0.18	0.03	0.14	0.01	0.12*
Effect size for difference	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
DIS17A (Disability: serious difficulty concentrating, remembering, deciding)							
Before imputation							
Mean percent relative bias across characteristics	12.73	1.22	15.87	12.44	13.50	13.72	15.65
Median percent relative bias across characteristics	7.24	0.71	10.58	7.05	6.53	9.52	7.39
Percentage of characteristics with significant bias	49.48	0.00	37.14	41.18	32.84	43.37	18.75
Median effect size	0.07	0.07	0.13	0.06	0.11	0.10	0.10
After imputation							
Difference between pre- and postimputation means	0.35	‡	1.11*	0.37	0.22	0.81*	1.21
Effect size for difference	0.01	‡	‡	0.01	‡	0.01	0.02
DIS17B (Disability: serious difficulty walking or climbing stairs)							
Before imputation							
Mean percent relative bias across characteristics	12.66	1.22	15.90	12.42	13.48	13.57	15.67
Median percent relative bias across characteristics	7.27	0.71	10.57	7.17	6.52	9.59	7.40
Percentage of characteristics with significant bias	50.52	0.00	37.14	40.00	32.84	42.17	21.25
Median effect size	0.07	0.07	0.13	0.06	0.11	0.10	0.10
After imputation							
Difference between pre- and postimputation means	0.07	‡	0.19*	0.03	0.20*	0.07	0.13
Effect size for difference	‡	‡	‡	‡	‡	‡	‡
DISABLE (Disability: has some type of disability)							
Before imputation							
Mean percent relative bias across characteristics	12.70	1.22	15.87	12.45	13.53	13.63	15.73
Median percent relative bias across characteristics	7.11	0.71	10.48	6.81	6.60	9.31	7.48
Percentage of characteristics with significant bias	49.48	0.00	37.14	42.35	32.84	43.37	21.25
Median effect size	0.07	0.07	0.13	0.06	0.11	0.10	0.10
After imputation							
Difference between pre- and postimputation means	0.64*	‡	1.37*	0.17	0.25	1.09*	2.12*
Effect size for difference	0.01	‡	‡	#	‡	0.02	0.03

See notes at end of table.

Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
DISTYPES (Disability: main type of condition or impairment)							
Before imputation							
Mean percent relative bias across characteristics	39.59	7.72	35.95	39.27	43.03	47.51	41.89
Median percent relative bias across characteristics	30.34	6.34	30.44	30.41	37.62	33.90	23.95
Percentage of characteristics with significant bias	45.36	0.00	34.33	38.10	32.81	43.90	12.50
Median effect size	0.32	0.17	0.42	0.28	0.44	0.45	0.31
After imputation							
Difference between pre- and postimputation means	1.04	‡	‡	‡	‡	‡	‡
Effect size for difference	‡	‡	‡	‡	‡	‡	‡
DODAMT (Department of Defense [military] aid)							
Before imputation							
Mean percent relative bias across characteristics	15.66	18.95	18.74	15.18	15.07	16.36	18.96
Median percent relative bias across characteristics	7.95	3.46	9.73	6.09	8.25	10.22	8.05
Percentage of characteristics with significant bias	47.92	16.67	39.13	43.53	34.38	38.27	19.23
Median effect size	0.09	0.11	0.12	0.07	0.15	0.12	0.12
After imputation							
Difference between pre- and postimputation means	9.97	‡	#	2.00	19.98	14.01	11.35
Effect size for difference	#	‡	‡	#	#	#	#
EFC (Expected family contribution)							
Before imputation							
Mean percent relative bias across characteristics	40.23	22.13	46.26	44.14	33.22	42.56	36.72
Median percent relative bias across characteristics	28.01	11.76	33.43	25.12	21.49	35.02	30.54
Percentage of characteristics with significant bias	72.16	35.71	50.68	65.88	49.28	69.88	45.12
Median effect size	0.32	0.25	0.46	0.37	0.38	0.37	0.28
After imputation							
Difference between pre- and postimputation means	28.92*	18.80	17.86*	29.73*	16.64*	31.92*	24.85*
Effect size for difference	0.14	0.11	0.13	0.15	0.09	0.14	0.10

See notes at end of table.

Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
EFCAID (Aid subject to federal EFC limitation)							
Before imputation							
Mean percent relative bias across characteristics	14.29	3.63	16.54	13.33	15.05	14.56	18.35
Median percent relative bias across characteristics	8.11	3.44	9.59	5.69	8.17	10.27	7.77
Percentage of characteristics with significant bias	46.81	0.00	35.29	40.96	34.38	37.50	19.23
Median effect size	0.09	0.11	0.12	0.07	0.15	0.12	0.12
After imputation							
Difference between pre- and postimputation means	3.77	‡	11.09*	3.73*	0.72	5.41	4.80
Effect size for difference	0.02	‡	0.04	0.02	#	0.02	0.02
EFFORT3 (Net price after grants as percentage of income)							
Before imputation							
Mean percent relative bias across characteristics	43.15	24.74	53.28	46.03	36.04	43.10	42.53
Median percent relative bias across characteristics	36.04	9.89	44.25	37.38	23.27	43.02	36.78
Percentage of characteristics with significant bias	67.35	40.00	57.33	61.63	46.48	63.95	42.17
Median effect size	0.33	0.43	0.48	0.40	0.47	0.39	0.34
After imputation							
Difference between pre- and postimputation means	16.27*	42.30	38.15*	16.01*	20.07*	16.42*	18.67*
Effect size for difference	0.27	0.42	0.45	0.27	0.26	0.30	0.25
EFFORT9 (Net tuition after all grants as percentage of income)							
Before imputation							
Mean percent relative bias across characteristics	43.12	24.74	53.13	46.13	36.06	43.25	42.32
Median percent relative bias across characteristics	36.33	9.89	43.85	36.91	24.36	44.67	36.94
Percentage of characteristics with significant bias	67.35	40.00	57.33	61.63	47.89	62.79	42.17
Median effect size	0.33	0.43	0.48	0.39	0.47	0.40	0.33
After imputation							
Difference between pre- and postimputation means	25.82*	65.21	46.84*	26.81*	32.23*	26.12*	23.13*
Effect size for difference	0.27	0.39	0.35	0.27	0.30	0.30	0.20

See notes at end of table.

Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
EMPLWAIIV (Institution tuition waivers for staff)							
Before imputation							
Mean percent relative bias across characteristics	14.56	3.63	17.94	14.29	15.03	15.65	18.93
Median percent relative bias across characteristics	8.18	3.44	9.93	6.22	8.25	10.76	8.02
Percentage of characteristics with significant bias	48.94	0.00	37.68	42.86	34.38	40.00	19.23
Median effect size	0.10	0.11	0.12	0.08	0.15	0.12	0.12
After imputation							
Difference between pre- and postimputation means	0.39	‡	5.72	3.17	7.35	0.71	9.21
Effect size for difference	#	‡	#	#	0.01	#	#
EMPLYAMT (Employer aid [includes college staff])							
Before imputation							
Mean percent relative bias across characteristics	14.56	‡	10.12	6.71	7.28	7.58	11.95
Median percent relative bias across characteristics	8.18	‡	2.65	1.56	2.09	2.86	2.72
Percentage of characteristics with significant bias	48.94	‡	11.43	15.38	4.08	7.46	0.00
Median effect size	0.10	‡	0.04	0.02	0.04	0.03	0.03
After imputation							
Difference between pre- and postimputation means	3.00	‡	7.91	1.99	1.26	7.06	6.55
Effect size for difference	0.01	‡	0.02	0.01	#	0.02	0.02
FAMHELP (Other financial support received)							
Before imputation							
Mean percent relative bias across characteristics	12.87	0.92	15.86	12.52	13.56	13.68	15.76
Median percent relative bias across characteristics	7.52	0.73	10.25	7.18	6.49	9.13	6.54
Percentage of characteristics with significant bias	50.52	0.00	37.14	37.65	32.84	40.96	17.50
Median effect size	0.07	0.05	0.13	0.06	0.11	0.10	0.11
After imputation							
Difference between pre- and postimputation means	0.27	‡	0.55	0.23	0.29	0.38	0.28
Effect size for difference	0.01	‡	‡	#	‡	0.01	0.01

See notes at end of table.

Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
FAMHPAM (Help from family and friends: total amount in 2019–20)							
Before imputation							
Mean percent relative bias across characteristics	12.86	0.92	15.88	12.52	13.56	13.69	15.76
Median percent relative bias across characteristics	7.46	0.73	10.27	7.17	6.49	9.16	6.54
Percentage of characteristics with significant bias	50.52	0.00	37.14	37.65	32.84	40.96	17.50
Median effect size	0.07	0.05	0.13	0.06	0.11	0.10	0.11
After imputation							
Difference between pre- and postimputation means	0.29	‡	0.50	0.16	0.29	0.26	0.16
Effect size for difference	‡	‡	‡	‡	‡	‡	‡
FEDBEN (Received federal benefit: Any)							
Before imputation							
Mean percent relative bias across characteristics	22.70	14.84	24.79	26.30	25.26	27.93	24.52
Median percent relative bias across characteristics	13.55	8.44	14.15	16.87	18.27	17.06	14.40
Percentage of characteristics with significant bias	45.92	3.85	22.37	49.43	28.38	39.53	25.61
Median effect size	0.20	0.31	0.23	0.23	0.21	0.22	0.14
After imputation							
Difference between pre- and postimputation means	39.24*	23.25*	22.73*	34.27*	48.79*	36.13*	53.10*
Effect size for difference	0.55	‡	‡	0.52	0.62	0.53	0.64
FEDBENA (Received federal benefit: Food Stamp Benefit)							
Before imputation							
Mean percent relative bias across characteristics	11.43	16.80	12.41	11.22	13.68	11.79	14.49
Median percent relative bias across characteristics	5.98	5.61	5.57	5.03	8.37	7.31	5.60
Percentage of characteristics with significant bias	48.96	33.33	27.94	40.48	46.03	43.75	17.95
Median effect size	0.06	0.18	0.07	0.05	0.10	0.09	0.08
After imputation							
Difference between pre- and postimputation means	0.02	‡	0.10	0.01	‡	0.03	#
Effect size for difference	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
FEDBENB (Received federal benefit: Free or reduced-price school lunch benefits)							
Before imputation							
Mean percent relative bias across characteristics	27.09	15.51	21.11	29.45	24.45	28.63	29.79
Median percent relative bias across characteristics	17.90	8.36	10.41	20.08	17.38	13.66	21.46
Percentage of characteristics with significant bias	62.24	3.70	23.68	58.62	34.67	44.19	23.17
Median effect size	0.17	0.24	0.11	0.20	0.20	0.17	0.25
After imputation							
Difference between pre- and postimputation means	6.44*	0.35	8.36*	5.64*	5.67*	5.59*	5.38*
Effect size for difference	0.11	‡	0.15	0.11	0.09	0.10	0.08
FEDBEND (Received federal benefit: TANF benefits)							
Before imputation							
Mean percent relative bias across characteristics	26.24	15.51	21.06	29.34	24.63	27.98	28.26
Median percent relative bias across characteristics	16.13	8.36	10.14	19.79	16.44	13.10	16.01
Percentage of characteristics with significant bias	64.29	3.70	23.68	58.62	34.67	47.67	19.51
Median effect size	0.17	0.24	0.11	0.20	0.21	0.17	0.19
After imputation							
Difference between pre- and postimputation means	0.63*	1.01	0.09	0.05	0.26	0.38	0.74
Effect size for difference	0.04	‡	‡	‡	‡	‡	‡
FEDBENE (Received federal benefit: WIC benefits)							
Before imputation							
Mean percent relative bias across characteristics	23.20	18.61	23.65	26.64	28.62	27.60	33.09
Median percent relative bias across characteristics	12.74	11.15	10.89	14.27	17.65	13.75	20.82
Percentage of characteristics with significant bias	41.84	7.14	14.47	45.98	35.53	33.72	24.10
Median effect size	0.18	0.32	0.17	0.19	0.25	0.20	0.29
After imputation							
Difference between pre- and postimputation means	5.19*	7.37*	4.14	3.77*	7.65*	6.03*	5.43
Effect size for difference	0.12	‡	0.09	0.10	0.14	0.16	0.11

See notes at end of table.

**Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution:
2019–20—Continued**

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
FEDGRPCT (Ratio of federal grants to total aid)							
Before imputation							
Mean percent relative bias across characteristics	17.18	13.10	21.21	15.41	17.72	17.98	21.07
Median percent relative bias across characteristics	13.20	6.66	14.18	8.93	15.30	14.24	12.44
Percentage of characteristics with significant bias	51.06	25.00	21.74	41.46	39.06	39.51	25.97
Median effect size	0.16	0.14	0.18	0.10	0.23	0.19	0.22
After imputation							
Difference between pre- and postimputation means	23.51	‡	14.74	31.27	23.30*	26.75	13.47
Effect size for difference	0.02	‡	0.02	0.03	0.01	0.02	0.01
FEDPCT (Ratio of federal aid to total aid)							
Before imputation							
Mean percent relative bias across characteristics	17.18	13.10	21.21	15.41	17.72	17.98	21.07
Median percent relative bias across characteristics	13.20	6.66	14.18	8.93	15.30	14.24	12.44
Percentage of characteristics with significant bias	51.06	25.00	21.74	41.46	39.06	39.51	25.97
Median effect size	0.16	0.14	0.18	0.10	0.23	0.19	0.22
After imputation							
Difference between pre- and postimputation means	7.41*	‡	14.46*	10.11*	4.68	6.81*	1.61
Effect size for difference	0.08	‡	0.18	0.09	0.05	0.07	0.03
FGRTLN (Total federal loans and grants)							
Before imputation							
Mean percent relative bias across characteristics	15.30	16.14	17.83	13.67	12.61	14.74	18.94
Median percent relative bias across characteristics	6.68	5.15	9.03	5.11	8.06	6.30	7.91
Percentage of characteristics with significant bias	34.02	12.50	19.44	21.43	25.00	25.30	20.25
Median effect size	0.06	0.12	0.10	0.06	0.14	0.08	0.12
After imputation							
Difference between pre- and postimputation means	9.56*	‡	27.44*	9.19*	4.70	10.74*	1.49
Effect size for difference	0.05	‡	0.16	0.05	0.03	0.06	0.01

See notes at end of table.

**Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution:
2019–20—Continued**

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
FIN2000 (Financial security: \$2,000 within the next month)							
Before imputation							
Mean percent relative bias across characteristics	12.72	0.81	16.35	12.45	13.44	13.44	15.83
Median percent relative bias across characteristics	7.46	0.73	10.86	7.21	6.53	8.47	7.56
Percentage of characteristics with significant bias	50.52	0.00	37.14	41.18	32.84	39.76	17.50
Median effect size	0.07	0.04	0.13	0.06	0.11	0.10	0.11
After imputation							
Difference between pre- and postimputation means	0.63	‡	1.67	1.15*	1.58	0.84	0.47
Effect size for difference	0.01	‡	‡	0.02	‡	0.01	0.01
FIN500 (Financial security: \$500 within the next month)							
Before imputation							
Mean percent relative bias across characteristics	12.74	0.81	16.42	12.44	13.56	13.51	15.85
Median percent relative bias across characteristics	7.50	0.73	10.94	7.18	6.49	8.68	7.61
Percentage of characteristics with significant bias	50.52	0.00	38.57	41.18	32.84	42.17	17.50
Median effect size	0.07	0.04	0.13	0.06	0.11	0.10	0.11
After imputation							
Difference between pre- and postimputation means	0.28	‡	1.06	1.52*	1.18	0.75	1.40
Effect size for difference	0.01	‡	‡	0.02	‡	0.01	‡
FINLIT1 (Financial literacy: Effect of inflation on purchasing)							
Before imputation							
Mean percent relative bias across characteristics	12.79	0.80	16.17	12.58	13.22	13.62	15.58
Median percent relative bias across characteristics	7.10	0.73	10.99	7.15	7.27	9.38	7.62
Percentage of characteristics with significant bias	50.52	0.00	37.14	40.00	25.37	40.96	18.75
Median effect size	0.07	0.04	0.13	0.06	0.11	0.10	0.10
After imputation							
Difference between pre- and postimputation means	0.21	‡	1.06	0.68	0.91	0.63	2.11
Effect size for difference	#	‡	‡	0.01	‡	0.01	0.02

See notes at end of table.

Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
FINLIT2 (Financial literacy: Effect of interest on savings)							
Before imputation							
Mean percent relative bias across characteristics	12.76	0.79	16.19	12.48	13.16	13.73	15.54
Median percent relative bias across characteristics	7.04	0.73	10.99	7.02	6.37	8.91	7.25
Percentage of characteristics with significant bias	49.48	0.00	37.14	41.18	25.37	40.96	20.00
Median effect size	0.07	0.04	0.13	0.06	0.11	0.10	0.10
After imputation							
Difference between pre- and postimputation means	0.10	‡	0.01	0.29	0.62	0.25	1.53
Effect size for difference	#	‡	‡	0.01	‡	‡	‡
FINLIT3 (Financial literacy: Effect of diversification on risk)							
Before imputation							
Mean percent relative bias across characteristics	12.64	0.93	15.89	12.54	13.17	13.68	15.58
Median percent relative bias across characteristics	6.76	0.73	10.45	7.20	6.43	8.81	7.42
Percentage of characteristics with significant bias	48.98	0.00	37.14	41.18	25.37	40.96	20.00
Median effect size	0.07	0.05	0.13	0.06	0.11	0.10	0.10
After imputation							
Difference between pre- and postimputation means	0.39	‡	0.61	0.48	1.51	0.18	2.23
Effect size for difference	#	‡	‡	‡	‡	‡	‡
FINLITALL (Financial literacy: Correctly answered all three items)							
Before imputation							
Mean percent relative bias across characteristics	12.69	0.90	15.90	12.57	13.23	13.71	15.56
Median percent relative bias across characteristics	6.57	0.73	10.60	7.41	6.46	8.95	7.34
Percentage of characteristics with significant bias	50.00	0.00	37.14	41.18	25.37	40.96	18.75
Median effect size	0.07	0.05	0.13	0.06	0.11	0.10	0.10
After imputation							
Difference between pre- and postimputation means	0.05	‡	0.73	0.04	0.99	#	2.13
Effect size for difference	#	‡	0.01	#	0.01	#	0.02

See notes at end of table.

Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
FINLITTOT (Financial literacy: Number of correct responses)							
Before imputation							
Mean percent relative bias across characteristics	12.66	2.58	16.14	12.52	13.26	13.72	15.70
Median percent relative bias across characteristics	6.72	1.61	10.81	7.27	6.58	9.27	7.52
Percentage of characteristics with significant bias	48.98	0.00	37.14	40.00	25.37	40.96	18.75
Median effect size	0.07	0.07	0.14	0.06	0.11	0.10	0.10
After imputation							
Difference between pre- and postimputation means	0.86	‡	3.41	1.14	3.37	1.09	2.14
Effect size for difference	0.01	‡	‡	‡	‡	‡	‡
GAINSUR (Graduate assistantship: included health insurance)							
Before imputation							
Mean percent relative bias across characteristics	45.60	‡	58.95	36.41	83.97	48.97	‡
Median percent relative bias across characteristics	38.91	‡	42.30	23.79	65.92	39.77	‡
Percentage of characteristics with significant bias	62.50	‡	33.33	51.90	37.29	44.74	‡
Median effect size	0.29	‡	0.45	0.20	0.71	0.37	‡
After imputation							
Difference between pre- and postimputation means	2.40	‡	‡	0.10	‡	11.23*	‡
Effect size for difference	0.03	‡	‡	‡	‡	0.13	‡
GLOANSR2 (Loan package by type of loan)							
Before imputation							
Mean percent relative bias across characteristics	15.39	16.06	16.64	14.51	15.25	16.67	18.82
Median percent relative bias across characteristics	7.99	3.96	9.64	6.36	8.81	10.24	8.31
Percentage of characteristics with significant bias	50.00	16.67	36.76	41.18	35.94	37.35	20.51
Median effect size	0.09	0.11	0.12	0.07	0.16	0.11	0.12
After imputation							
Difference between pre- and postimputation means	0.77*	‡	1.64	0.93	2.09	0.36	0.45
Effect size for difference	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
GLOANSRC (Loan package by source of loan)							
Before imputation							
Mean percent relative bias across characteristics	15.39	16.06	16.64	14.51	15.25	16.67	18.82
Median percent relative bias across characteristics	7.99	3.96	9.64	6.36	8.81	10.24	8.31
Percentage of characteristics with significant bias	50.00	16.67	36.76	41.18	35.94	37.35	20.51
Median effect size	0.09	0.11	0.12	0.07	0.16	0.11	0.12
After imputation							
Difference between pre- and postimputation means	0.58	‡	1.61	0.46	1.55	0.28	0.11
Effect size for difference	‡	‡	‡	‡	‡	‡	‡
GPLUSRAT (Ratio of Graduate PLUS Loans to total loans)							
Before imputation							
Mean percent relative bias across characteristics	38.41	‡	43.73	38.75	31.14	40.35	30.79
Median percent relative bias across characteristics	34.16	‡	38.77	31.57	25.18	35.51	20.82
Percentage of characteristics with significant bias	63.54	‡	52.38	57.14	43.55	59.76	34.21
Median effect size	0.36	‡	0.76	0.37	0.53	0.47	0.36
After imputation							
Difference between pre- and postimputation means	0.38	‡	1.58	1.38	11.89	0.24	3.99
Effect size for difference	#	‡	#	0.01	0.04	#	0.01
GRADGAP (Years between BA and graduate school)							
Before imputation							
Mean percent relative bias across characteristics	11.98	25.21	15.45	12.31	12.38	14.30	16.32
Median percent relative bias across characteristics	6.73	19.72	10.64	7.13	7.40	9.41	8.74
Percentage of characteristics with significant bias	43.16	56.52	35.71	35.71	26.87	45.78	20.00
Median effect size	0.08	0.26	0.14	0.07	0.09	0.11	0.10
After imputation							
Difference between pre- and postimputation means	0.56	‡	2.84	1.78	2.63	1.11	3.83
Effect size for difference	#	‡	0.02	0.01	0.02	0.01	0.04

See notes at end of table.

**Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution:
2019–20—Continued**

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
GRADGAPM (Months between BA and graduate school)							
Before imputation							
Mean percent relative bias across characteristics	11.98	25.21	15.45	12.31	12.38	14.30	16.32
Median percent relative bias across characteristics	6.73	19.72	10.64	7.13	7.40	9.41	8.74
Percentage of characteristics with significant bias	43.16	56.52	35.71	35.71	26.87	45.78	20.00
Median effect size	0.08	0.26	0.14	0.07	0.09	0.11	0.10
After imputation							
Difference between pre- and postimputation means	0.47	‡	2.78	1.65	2.83	1.07	4.00
Effect size for difference	#	‡	0.02	0.01	0.02	0.01	0.04
GRADLVL (Graduate class level)							
Before imputation							
Mean percent relative bias across characteristics	16.75	2.52	18.36	17.00	18.60	18.60	23.21
Median percent relative bias across characteristics	12.61	2.79	15.37	13.66	15.26	15.70	17.24
Percentage of characteristics with significant bias	56.25	12.50	43.06	56.47	46.38	49.40	34.57
Median effect size	0.22	0.09	0.20	0.20	0.27	0.23	0.24
After imputation							
Difference between pre- and postimputation means	1.01	‡	5.73*	0.86	2.10	2.28*	5.97*
Effect size for difference	‡	‡	‡	‡	‡	‡	‡
GRADPYM (Year and month began graduate degree)							
Before imputation							
Mean percent relative bias across characteristics	11.98	25.21	15.45	12.31	12.38	14.30	16.32
Median percent relative bias across characteristics	6.73	19.72	10.64	7.13	7.40	9.41	8.74
Percentage of characteristics with significant bias	43.16	56.52	35.71	35.71	26.87	45.78	20.00
Median effect size	0.08	0.26	0.14	0.07	0.09	0.11	0.10
After imputation							
Difference between pre- and postimputation means	#	‡	#	#	#	#	#
Effect size for difference	0.01	‡	0.02	0.01	0.01	0.03	#

See notes at end of table.

**Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution:
2019–20—Continued**

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
GRADPYR (Year began graduate degree)							
Before imputation							
Mean percent relative bias across characteristics	11.98	25.21	15.45	12.31	12.38	14.30	16.32
Median percent relative bias across characteristics	6.73	19.72	10.64	7.13	7.40	9.41	8.74
Percentage of characteristics with significant bias	43.16	56.52	35.71	35.71	26.87	45.78	20.00
Median effect size	0.08	0.26	0.14	0.07	0.09	0.11	0.10
After imputation							
Difference between pre- and postimputation means	#	‡	#	#	#	#	#
Effect size for difference	0.01	‡	0.02	0.01	0.01	0.03	#
GRNTSRC (Grant package by source of grant)							
Before imputation							
Mean percent relative bias across characteristics	13.98	5.50	14.52	11.64	12.61	11.99	18.94
Median percent relative bias across characteristics	6.61	5.08	8.57	5.10	8.06	6.98	7.91
Percentage of characteristics with significant bias	34.74	0.00	14.49	21.95	29.69	27.50	20.25
Median effect size	0.06	0.11	0.11	0.06	0.14	0.09	0.12
After imputation							
Difference between pre- and postimputation means	3.42*	‡	5.12*	2.36*	5.02	4.54*	2.54
Effect size for difference	‡	‡	‡	‡	‡	‡	‡
GRTCST (Ratio of grant aid to student budget)							
Before imputation							
Mean percent relative bias across characteristics	14.48	4.63	16.04	12.24	13.23	12.11	18.92
Median percent relative bias across characteristics	6.19	4.95	9.51	5.30	9.47	6.48	8.10
Percentage of characteristics with significant bias	35.79	0.00	17.39	24.39	31.25	27.50	21.79
Median effect size	0.06	0.10	0.10	0.07	0.14	0.09	0.12
After imputation							
Difference between pre- and postimputation means	1.81	‡	7.03	1.52	1.86	3.05	2.85
Effect size for difference	0.01	‡	0.03	0.01	0.01	0.02	0.01

See notes at end of table.

Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
GRTPCT (Ratio of grants to total aid)							
Before imputation							
Mean percent relative bias across characteristics	17.18	13.10	21.21	15.41	17.72	17.98	21.07
Median percent relative bias across characteristics	13.20	6.66	14.18	8.93	15.30	14.24	12.44
Percentage of characteristics with significant bias	51.06	25.00	21.74	41.46	39.06	39.51	25.97
Median effect size	0.16	0.14	0.18	0.10	0.23	0.19	0.22
After imputation							
Difference between pre- and postimputation means	4.72*	‡	21.79*	4.57*	6.07	4.96	2.22
Effect size for difference	0.04	‡	0.18	0.04	0.05	0.04	0.01
GRTPCTTN (Ratio of grant aid to tuition)							
Before imputation							
Mean percent relative bias across characteristics	13.90	4.64	15.40	12.03	13.10	12.13	18.70
Median percent relative bias across characteristics	6.27	4.95	9.44	4.97	8.97	6.48	7.93
Percentage of characteristics with significant bias	35.11	0.00	14.71	23.17	26.56	26.25	20.51
Median effect size	0.06	0.10	0.10	0.06	0.14	0.09	0.12
After imputation							
Difference between pre- and postimputation means	3.05	‡	3.55	6.87	3.95	1.70	1.91
Effect size for difference	0.01	‡	0.01	0.02	0.01	0.01	0.01
GRTSNEED (Grant amount exceeding federal need)							
Before imputation							
Mean percent relative bias across characteristics	60.52	27.38	70.31	62.44	48.78	61.71	60.47
Median percent relative bias across characteristics	43.17	13.93	44.44	41.47	38.38	48.97	53.21
Percentage of characteristics with significant bias	63.04	30.00	44.93	59.26	42.19	53.09	28.95
Median effect size	0.42	0.50	0.88	0.65	0.59	0.52	0.54
After imputation							
Difference between pre- and postimputation means	48.35*	‡	41.57*	42.91*	37.17*	55.45*	38.32*
Effect size for difference	0.16	‡	0.20	0.14	0.17	0.19	0.16

See notes at end of table.

**Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution:
2019–20—Continued**

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
HOMESTUD (Student owns home or pays mortgage)							
Before imputation							
Mean percent relative bias across characteristics	12.82	0.98	16.25	12.55	13.41	13.63	15.57
Median percent relative bias across characteristics	7.12	0.72	10.93	7.08	6.43	9.33	7.54
Percentage of characteristics with significant bias	50.52	0.00	37.14	40.00	32.84	43.37	16.25
Median effect size	0.07	0.06	0.13	0.06	0.11	0.10	0.10
After imputation							
Difference between pre- and postimputation means	1.02*	‡	1.72	0.96	2.83	1.52*	1.43
Effect size for difference	0.01	‡	0.02	0.01	0.03	0.02	0.01
IMMIAGE (Age when arrived in the United States)							
Before imputation							
Mean percent relative bias across characteristics	30.67	7.04	34.59	28.54	34.92	31.72	45.10
Median percent relative bias across characteristics	19.94	10.73	26.75	18.13	20.81	19.84	36.00
Percentage of characteristics with significant bias	54.08	0.00	23.53	49.41	22.06	36.14	36.25
Median effect size	0.15	0.26	0.17	0.17	0.24	0.18	0.39
After imputation							
Difference between pre- and postimputation means	2.82*	‡	‡	0.76	7.88	2.74*	6.09*
Effect size for difference	‡	‡	‡	‡	‡	‡	‡
IMMIGEN (Immigrant generational status)							
Before imputation							
Mean percent relative bias across characteristics	14.99	1.12	16.78	14.81	14.28	16.25	15.65
Median percent relative bias across characteristics	8.82	0.72	11.52	10.20	8.04	12.29	7.38
Percentage of characteristics with significant bias	54.08	0.00	37.14	47.06	32.35	44.58	18.75
Median effect size	0.10	0.07	0.14	0.09	0.12	0.14	0.10
After imputation							
Difference between pre- and postimputation means	0.27	‡	1.26	0.06	1.24	0.81	1.42
Effect size for difference	0.01	‡	‡	#	‡	‡	‡

See notes at end of table.

**Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution:
2019–20—Continued**

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
IMMIGRA (Immigrant status)							
Before imputation							
Mean percent relative bias across characteristics	12.60	1.13	15.96	12.28	14.03	13.46	15.27
Median percent relative bias across characteristics	6.82	0.71	10.43	6.79	8.22	8.55	6.84
Percentage of characteristics with significant bias	49.48	0.00	37.14	38.82	32.35	38.55	20.00
Median effect size	0.07	0.06	0.13	0.05	0.12	0.10	0.10
After imputation							
Difference between pre- and postimputation means	1.87*	‡	3.12	1.77*	1.89	2.78*	0.86
Effect size for difference	0.03	‡	‡	‡	‡	‡	‡
INCOMEG (Total income [categorical])							
Before imputation							
Mean percent relative bias across characteristics	39.66	32.24	21.77	22.86	17.25	24.84	21.96
Median percent relative bias across characteristics	27.51	53.55	13.67	14.59	6.64	15.05	13.55
Percentage of characteristics with significant bias	71.13	57.14	36.54	57.81	29.17	59.38	28.07
Median effect size	0.32	0.44	0.20	0.23	0.12	0.24	0.25
After imputation							
Difference between pre- and postimputation means	21.04*	‡	25.54*	24.01*	19.44*	24.03*	18.58*
Effect size for difference	0.25	‡	0.28	0.28	‡	0.28	‡
INCPCT1 (Student budget as percentage of income)							
Before imputation							
Mean percent relative bias across characteristics	40.46	19.87	47.60	43.53	33.07	41.89	38.04
Median percent relative bias across characteristics	28.84	11.29	36.26	37.46	23.75	42.14	30.80
Percentage of characteristics with significant bias	70.10	41.67	54.05	64.71	50.72	67.06	46.34
Median effect size	0.32	0.26	0.53	0.38	0.44	0.38	0.28
After imputation							
Difference between pre- and postimputation means	12.18*	‡	29.69*	12.05*	19.39*	10.95*	18.67*
Effect size for difference	0.22	‡	0.37	0.22	0.27	0.22	0.26

See notes at end of table.

**Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution:
2019–20—Continued**

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
INCPCT2 (Tuition as percentage of income)							
Before imputation							
Mean percent relative bias across characteristics	40.61	20.27	47.36	44.46	32.42	42.04	37.33
Median percent relative bias across characteristics	28.75	12.08	36.35	31.13	22.53	34.08	29.57
Percentage of characteristics with significant bias	73.20	41.67	51.39	67.86	47.83	67.47	46.34
Median effect size	0.33	0.28	0.53	0.38	0.42	0.40	0.28
After imputation							
Difference between pre- and postimputation means	15.39*	‡	36.00*	16.80*	21.52*	13.36*	21.68*
Effect size for difference	0.19	‡	0.29	0.21	0.22	0.19	0.20
INDEPINC (Independent students: student and spouse's income)							
Before imputation							
Mean percent relative bias across characteristics	39.66	22.10	45.17	43.57	31.81	41.92	36.11
Median percent relative bias across characteristics	27.51	11.76	33.32	25.42	20.42	32.83	29.58
Percentage of characteristics with significant bias	71.13	35.71	52.05	67.06	49.28	67.47	45.12
Median effect size	0.32	0.25	0.47	0.37	0.33	0.37	0.28
After imputation							
Difference between pre- and postimputation means	23.32*	11.24	17.25*	24.37*	16.29*	26.46*	19.06*
Effect size for difference	0.17	0.13	0.20	0.19	0.16	0.18	0.12
INGRTAMT (Institution grants total)							
Before imputation							
Mean percent relative bias across characteristics	14.58	3.63	17.95	14.28	15.01	15.62	18.93
Median percent relative bias across characteristics	8.18	3.44	9.97	6.20	8.27	10.73	8.02
Percentage of characteristics with significant bias	48.94	0.00	37.68	42.86	34.38	38.75	19.23
Median effect size	0.10	0.11	0.12	0.08	0.15	0.12	0.12
After imputation							
Difference between pre- and postimputation means	6.80*	‡	15.16	3.82*	5.24	10.48*	5.19
Effect size for difference	0.02	‡	0.03	0.01	0.02	0.04	0.01

See notes at end of table.

**Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution:
2019–20—Continued**

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
INPCTTN (Ratio of graduate assistantships and institution grants to tuition)							
Before imputation							
Mean percent relative bias across characteristics	14.70	0.22	18.35	14.92	15.46	15.67	19.13
Median percent relative bias across characteristics	8.17	0.22	10.22	6.54	8.45	10.37	7.57
Percentage of characteristics with significant bias	50.00	0.00	40.30	45.78	33.33	38.75	19.23
Median effect size	0.10	0.02	0.13	0.08	0.15	0.12	0.12
After imputation							
Difference between pre- and postimputation means	3.43*	‡	17.25	0.87	7.59	6.46*	3.53
Effect size for difference	0.01	‡	0.04	#	0.02	0.02	0.01
INSMILAMT (Institution military/Armed Forces grants)							
Before imputation							
Mean percent relative bias across characteristics	14.56	3.63	17.94	14.29	15.03	15.66	18.93
Median percent relative bias across characteristics	8.17	3.44	9.93	6.22	8.25	10.77	8.02
Percentage of characteristics with significant bias	48.94	0.00	37.68	42.86	34.38	40.00	19.23
Median effect size	0.10	0.11	0.12	0.08	0.15	0.12	0.12
After imputation							
Difference between pre- and postimputation means	5.37	‡	15.90	9.03	1.80	6.32	11.27
Effect size for difference	#	‡	#	#	#	#	#
INSTAMT (Institution aid total)							
Before imputation							
Mean percent relative bias across characteristics	14.58	3.63	17.95	14.28	15.01	15.62	18.93
Median percent relative bias across characteristics	8.18	3.44	9.97	6.20	8.27	10.73	8.02
Percentage of characteristics with significant bias	48.94	0.00	37.68	42.86	34.38	38.75	19.23
Median effect size	0.10	0.11	0.12	0.08	0.15	0.12	0.12
After imputation							
Difference between pre- and postimputation means	7.01*	‡	8.27	4.27*	4.44	10.17*	5.30
Effect size for difference	0.03	‡	0.02	0.02	0.02	0.04	0.01

See notes at end of table.

Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
INSTCST (Ratio of graduate assistantships and institution grants to student budget)							
Before imputation							
Mean percent relative bias across characteristics	15.43	0.21	18.33	14.87	15.55	15.69	19.71
Median percent relative bias across characteristics	7.67	0.21	9.52	6.00	8.60	9.16	8.05
Percentage of characteristics with significant bias	45.83	0.00	32.86	41.18	33.33	36.59	20.25
Median effect size	0.09	0.02	0.12	0.07	0.16	0.11	0.12
After imputation							
Difference between pre- and postimputation means	5.59*	‡	11.76	2.97*	0.29	8.69*	3.39
Effect size for difference	0.03	‡	0.03	0.02	#	0.04	0.01
INSTGPCT (Ratio of institution grants to total aid)							
Before imputation							
Mean percent relative bias across characteristics	17.18	13.10	21.21	15.41	17.72	17.98	21.07
Median percent relative bias across characteristics	13.20	6.66	14.18	8.93	15.30	14.24	12.44
Percentage of characteristics with significant bias	51.06	25.00	21.74	41.46	39.06	39.51	25.97
Median effect size	0.16	0.14	0.18	0.10	0.23	0.19	0.22
After imputation							
Difference between pre- and postimputation means	7.45*	‡	16.65	6.33*	5.97	10.65*	2.47
Effect size for difference	0.04	‡	0.06	0.04	0.03	0.06	0.01
INSTPCT (Ratio of institution aid to total aid)							
Before imputation							
Mean percent relative bias across characteristics	17.18	13.10	21.21	15.41	17.72	17.98	21.07
Median percent relative bias across characteristics	13.20	6.66	14.18	8.93	15.30	14.24	12.44
Percentage of characteristics with significant bias	51.06	25.00	21.74	41.46	39.06	39.51	25.97
Median effect size	0.16	0.14	0.18	0.10	0.23	0.19	0.22
After imputation							
Difference between pre- and postimputation means	8.92*	‡	18.38	7.32*	5.21	11.98*	1.96
Effect size for difference	0.07	‡	0.08	0.06	0.03	0.08	0.01

See notes at end of table.

Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
INSWAIV (Institution tuition and fee waivers)							
Before imputation							
Mean percent relative bias across characteristics	14.57	3.63	17.94	14.29	15.03	15.66	18.93
Median percent relative bias across characteristics	8.18	3.44	9.93	6.22	8.25	10.84	8.02
Percentage of characteristics with significant bias	48.94	0.00	37.68	44.05	34.38	38.75	19.23
Median effect size	0.10	0.11	0.12	0.08	0.15	0.12	0.12
After imputation							
Difference between pre- and postimputation means	1.17	‡	20.91	#	18.60	1.66	2.76
Effect size for difference	#	‡	0.03	#	0.02	#	0.01
ISTUINC (Independent students: Income [continuous])							
Before imputation							
Mean percent relative bias across characteristics	38.86	22.09	43.66	42.69	31.26	41.08	35.67
Median percent relative bias across characteristics	26.01	11.75	31.28	25.07	20.69	30.63	29.33
Percentage of characteristics with significant bias	71.13	35.71	52.05	65.88	47.83	67.47	45.12
Median effect size	0.32	0.25	0.46	0.37	0.33	0.37	0.28
After imputation							
Difference between pre- and postimputation means	25.17*	16.52	20.29*	26.96*	18.11*	27.90*	19.26*
Effect size for difference	0.19	0.20	0.22	0.20	0.18	0.20	0.14
JOBROLE2 (Job: Primary role as student or employee [including work-study/fellowship])							
Before imputation							
Mean percent relative bias across characteristics	19.98	3.04	15.13	19.69	14.48	19.99	18.48
Median percent relative bias across characteristics	12.90	3.07	7.76	13.49	8.85	13.55	8.76
Percentage of characteristics with significant bias	64.95	0.00	21.43	55.29	35.82	54.76	18.52
Median effect size	0.12	0.03	0.10	0.16	0.12	0.15	0.11
After imputation							
Difference between pre- and postimputation means	9.08*	‡	7.72*	11.35*	5.86*	5.96*	4.01*
Effect size for difference	0.09	‡	0.08	0.11	0.06	0.06	0.04

See notes at end of table.

**Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution:
2019–20—Continued**

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate- granting, primarily subbaccalaureate	4-year, non-doctorate- granting, primarily baccalaureate	4-year, doctorate- granting	4-year, non- doctorate- granting	4-year, doctorate- granting	
JOBROLE_GR (Job: Primary role as student or employee)							
Before imputation							
Mean percent relative bias across characteristics	20.08	3.04	15.13	19.73	14.51	20.22	18.47
Median percent relative bias across characteristics	12.93	3.07	7.76	13.52	8.55	13.51	8.64
Percentage of characteristics with significant bias	64.95	0.00	21.43	54.12	35.82	55.95	18.52
Median effect size	0.12	0.03	0.10	0.15	0.12	0.15	0.11
After imputation							
Difference between pre- and postimputation means	4.28*	‡	5.40*	4.77*	4.87*	3.12*	3.98*
Effect size for difference	0.04	‡	0.06	0.05	0.05	0.03	0.04
LNREPAY (Expect help with repaying student loans)							
Before imputation							
Mean percent relative bias across characteristics	32.56	15.80	36.35	35.50	29.44	35.25	31.74
Median percent relative bias across characteristics	30.01	13.80	33.26	31.65	22.15	30.96	21.56
Percentage of characteristics with significant bias	56.70	15.38	45.71	58.14	40.00	57.83	30.00
Median effect size	0.36	0.31	0.57	0.35	0.43	0.44	0.31
After imputation							
Difference between pre- and postimputation means	2.77*	‡	0.80	3.14*	0.47	2.93	2.91
Effect size for difference	0.04	‡	‡	0.05	0.01	0.04	0.06
LOANLIT1 (Loan literacy: Govt. can report unpaid debt to credit bureaus)							
Before imputation							
Mean percent relative bias across characteristics	12.92	0.89	15.85	12.32	13.37	13.72	15.23
Median percent relative bias across characteristics	7.38	0.73	10.21	6.96	6.19	9.37	6.17
Percentage of characteristics with significant bias	51.55	0.00	37.14	41.18	28.79	43.37	21.25
Median effect size	0.07	0.05	0.13	0.06	0.11	0.10	0.10
After imputation							
Difference between pre- and postimputation means	0.28	‡	1.95	0.18	0.69	1.16	1.48
Effect size for difference	#	‡	0.02	#	0.01	0.01	0.02

See notes at end of table.

Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
LOANLIT2 (Loan literacy: Govt. can garnish wages for unpaid fed. loan debt)							
Before imputation							
Mean percent relative bias across characteristics	12.92	0.89	15.85	12.32	13.37	13.72	15.23
Median percent relative bias across characteristics	7.38	0.73	10.21	6.96	6.19	9.37	6.17
Percentage of characteristics with significant bias	51.55	0.00	37.14	41.18	28.79	43.37	21.25
Median effect size	0.07	0.05	0.13	0.06	0.11	0.10	0.10
After imputation							
Difference between pre- and postimputation means	0.75	‡	2.12	0.39	2.16	0.81	0.97
Effect size for difference	0.01	‡	0.02	#	0.02	0.01	0.01
LOANLIT3 (Loan literacy: Govt. can retain tax refunds, Soc. Sec. for loan debt)							
Before imputation							
Mean percent relative bias across characteristics	12.92	0.89	15.85	12.32	13.37	13.72	15.23
Median percent relative bias across characteristics	7.38	0.73	10.21	6.96	6.19	9.37	6.17
Percentage of characteristics with significant bias	51.55	0.00	37.14	41.18	28.79	43.37	21.25
Median effect size	0.07	0.05	0.13	0.06	0.11	0.10	0.10
After imputation							
Difference between pre- and postimputation means	0.58	‡	2.70	0.29	2.26	0.71	2.43
Effect size for difference	0.01	‡	0.03	#	0.02	0.01	0.02
LOANLITALL (Loan literacy: Correctly answered all three items)							
Before imputation							
Mean percent relative bias across characteristics	12.92	0.89	15.85	12.32	13.37	13.72	15.23
Median percent relative bias across characteristics	7.38	0.73	10.21	6.96	6.19	9.37	6.17
Percentage of characteristics with significant bias	51.55	0.00	37.14	41.18	28.79	43.37	21.25
Median effect size	0.07	0.05	0.13	0.06	0.11	0.10	0.10
After imputation							
Difference between pre- and postimputation means	0.26	‡	0.99	0.29	2.31	0.54	0.35
Effect size for difference	#	‡	0.01	#	0.02	0.01	#

See notes at end of table.

**Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution:
2019–20—Continued**

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
LOANLITTOT (Loan literacy: Number of correct responses)							
Before imputation							
Mean percent relative bias across characteristics	12.92	0.89	15.85	12.32	13.37	13.72	15.23
Median percent relative bias across characteristics	7.38	0.73	10.21	6.96	6.19	9.37	6.17
Percentage of characteristics with significant bias	51.55	0.00	37.14	41.18	28.79	43.37	21.25
Median effect size	0.07	0.05	0.13	0.06	0.11	0.10	0.10
After imputation							
Difference between pre- and postimputation means	0.66	‡	2.95	0.78	2.86	1.11	2.77*
Effect size for difference	0.01	‡	‡	0.01	‡	0.01	0.04
LOANPCT (Label1: Ratio of loans to total aid (excluding Parent PLUS Loans) Label2: Ratio of loans to total aid)							
Before imputation							
Mean percent relative bias across characteristics	17.18	13.10	21.21	15.41	17.72	17.98	21.07
Median percent relative bias across characteristics	13.20	6.66	14.18	8.93	15.30	14.24	12.44
Percentage of characteristics with significant bias	51.06	25.00	21.74	41.46	39.06	39.51	25.97
Median effect size	0.16	0.14	0.18	0.10	0.23	0.19	0.22
After imputation							
Difference between pre- and postimputation means	6.32*	‡	15.40*	8.73*	3.94	5.74*	1.12
Effect size for difference	0.07	‡	0.20	0.08	0.05	0.07	0.02

See notes at end of table.

Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
MEALPLANFQ (Meal plan: meal plan covered 11 or more meals per week)							
Before imputation							
Mean percent relative bias across characteristics	50.39	‡	84.73	56.77	64.27	57.52	141.91
Median percent relative bias across characteristics	30.24	‡	53.91	37.97	47.26	30.52	60.78
Percentage of characteristics with significant bias	23.91	‡	33.87	21.25	25.00	16.46	12.16
Median effect size	0.32	‡	0.87	0.36	0.53	0.42	0.54
After imputation							
Difference between pre- and postimputation means	‡	‡	‡	‡	‡	‡	‡
Effect size for difference	‡	‡	‡	‡	‡	‡	‡
MILTOT (Total federal and nonfederal military/Armed Forces grants)							
Before imputation							
Mean percent relative bias across characteristics	14.43	3.63	16.86	13.25	15.07	14.87	18.35
Median percent relative bias across characteristics	8.34	3.44	9.86	5.91	8.25	10.84	8.01
Percentage of characteristics with significant bias	47.87	0.00	36.76	42.17	34.38	39.24	20.51
Median effect size	0.10	0.11	0.12	0.07	0.15	0.13	0.12
After imputation							
Difference between pre- and postimputation means	7.62	‡	16.50	5.69	9.81	12.62	77.15
Effect size for difference	#	‡	#	#	#	#	0.02

See notes at end of table.

**Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution:
2019–20—Continued**

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
MNTRENT (Monthly mortgage or rent amount)							
Before imputation							
Mean percent relative bias across characteristics	13.14	2.62	16.32	12.68	13.51	13.73	15.85
Median percent relative bias across characteristics	7.36	2.49	11.22	7.49	6.47	9.43	7.71
Percentage of characteristics with significant bias	51.02	0.00	38.57	42.35	28.36	39.76	20.00
Median effect size	0.07	0.06	0.14	0.06	0.11	0.10	0.10
After imputation							
Difference between pre- and postimputation means	0.32	‡	1.23	0.95	2.70	0.66	0.27
Effect size for difference	#	‡	0.02	0.01	0.03	0.01	#
NETCST1 (Student budget minus all aid)							
Before imputation							
Mean percent relative bias across characteristics	12.65	4.83	16.43	12.83	13.44	13.26	17.28
Median percent relative bias across characteristics	6.10	5.38	10.03	5.40	9.93	6.98	8.25
Percentage of characteristics with significant bias	32.98	0.00	17.39	25.30	31.25	25.93	19.74
Median effect size	0.06	0.06	0.10	0.07	0.15	0.09	0.12
After imputation							
Difference between pre- and postimputation means	1.98	‡	7.80	2.39*	6.56	4.81	8.25
Effect size for difference	0.02	‡	0.05	0.03	0.06	0.04	0.07
NETCST10 (Tuition and fees minus federal grants)							
Before imputation							
Mean percent relative bias across characteristics	15.23	4.71	18.71	14.08	13.09	14.91	18.70
Median percent relative bias across characteristics	6.32	4.98	9.23	5.15	8.70	6.19	7.93
Percentage of characteristics with significant bias	33.33	0.00	19.72	25.00	26.56	20.48	20.51
Median effect size	0.06	0.10	0.10	0.07	0.14	0.08	0.12
After imputation							
Difference between pre- and postimputation means	1.25	‡	5.90	2.79*	2.45	1.81	1.40
Effect size for difference	0.01	‡	0.06	0.03	0.02	0.02	0.02

See notes at end of table.

Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
NETCST12 (Tuition and fees minus state grants)							
Before imputation							
Mean percent relative bias across characteristics	15.02	0.20	17.17	14.81	15.46	15.41	18.56
Median percent relative bias across characteristics	8.03	0.20	10.00	6.94	8.40	9.49	7.58
Percentage of characteristics with significant bias	45.26	0.00	36.36	44.58	33.33	36.25	20.51
Median effect size	0.09	0.02	0.13	0.08	0.15	0.11	0.12
After imputation							
Difference between pre- and postimputation means	2.82*	‡	2.01	3.55*	0.93	3.65	1.64
Effect size for difference	0.03	‡	0.02	0.04	0.01	0.04	0.02
NETCST13 (Tuition and fees minus institution grants)							
Before imputation							
Mean percent relative bias across characteristics	14.70	0.22	18.35	14.92	15.46	15.67	19.13
Median percent relative bias across characteristics	8.17	0.22	10.22	6.54	8.45	10.37	7.57
Percentage of characteristics with significant bias	50.00	0.00	40.30	45.78	33.33	38.75	19.23
Median effect size	0.10	0.02	0.13	0.08	0.15	0.12	0.12
After imputation							
Difference between pre- and postimputation means	1.28	‡	2.42	2.83*	0.47	1.50	1.25
Effect size for difference	0.01	‡	0.02	0.03	#	0.02	0.01
NETCST14 (Tuition and fees minus all nonfederal grants)							
Before imputation							
Mean percent relative bias across characteristics	14.44	0.22	16.91	13.96	15.46	14.69	18.56
Median percent relative bias across characteristics	8.33	0.22	9.75	6.44	8.45	10.16	7.58
Percentage of characteristics with significant bias	46.81	0.00	36.36	45.12	33.33	36.25	20.51
Median effect size	0.09	0.02	0.13	0.08	0.15	0.12	0.12
After imputation							
Difference between pre- and postimputation means	1.81	‡	0.13	2.81*	0.17	2.67	1.08
Effect size for difference	0.02	‡	#	0.03	#	0.03	0.01

See notes at end of table.

**Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution:
2019–20—Continued**

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
NETCST15 (Tuition and fees minus state and institution grants)							
Before imputation							
Mean percent relative bias across characteristics	14.45	0.22	17.20	13.86	15.46	14.76	18.56
Median percent relative bias across characteristics	8.30	0.22	10.04	6.44	8.45	10.16	7.58
Percentage of characteristics with significant bias	46.81	0.00	36.36	45.12	33.33	37.97	20.51
Median effect size	0.10	0.02	0.13	0.08	0.15	0.12	0.12
After imputation							
Difference between pre- and postimputation means	1.34	‡	2.31	2.75*	0.39	1.81	1.50
Effect size for difference	0.01	‡	0.02	0.03	#	0.02	0.02
NETCST16 (Student budget minus federal and state grants)							
Before imputation							
Mean percent relative bias across characteristics	15.17	4.70	16.11	14.30	13.22	13.82	18.92
Median percent relative bias across characteristics	6.48	4.97	9.98	5.36	9.27	6.70	8.10
Percentage of characteristics with significant bias	35.42	0.00	17.39	25.00	31.25	25.61	21.79
Median effect size	0.06	0.10	0.10	0.07	0.14	0.08	0.12
After imputation							
Difference between pre- and postimputation means	0.36	‡	2.86	1.57	3.29	1.09	3.91
Effect size for difference	0.01	‡	0.03	0.03	0.04	0.02	0.06
NETCST17 (Student budget minus all grants and loans)							
Before imputation							
Mean percent relative bias across characteristics	14.48	4.83	16.43	12.83	13.46	13.23	19.41
Median percent relative bias across characteristics	6.32	5.38	10.03	5.40	10.01	6.99	8.63
Percentage of characteristics with significant bias	34.38	0.00	17.39	25.30	31.25	25.93	21.79
Median effect size	0.06	0.06	0.10	0.07	0.15	0.09	0.12
After imputation							
Difference between pre- and postimputation means	3.39*	‡	8.09	3.96*	6.07	5.95*	7.90
Effect size for difference	0.03	‡	0.06	0.05	0.06	0.06	0.07

See notes at end of table.

**Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution:
2019–20—Continued**

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
NETCST2 (Student budget minus federal grants)							
Before imputation							
Mean percent relative bias across characteristics	15.95	4.70	19.27	14.30	13.22	14.85	18.92
Median percent relative bias across characteristics	6.60	4.97	9.71	5.36	9.27	6.94	8.10
Percentage of characteristics with significant bias	35.05	0.00	20.83	25.00	31.25	20.48	21.79
Median effect size	0.06	0.10	0.10	0.07	0.14	0.08	0.12
After imputation							
Difference between pre- and postimputation means	0.31	‡	2.76	1.55	3.34	0.98	3.99
Effect size for difference	#	‡	0.03	0.03	0.04	0.02	0.06
NETCST3 (Student budget minus all grants)							
Before imputation							
Mean percent relative bias across characteristics	14.48	4.63	16.04	12.24	13.23	12.11	18.92
Median percent relative bias across characteristics	6.19	4.95	9.51	5.30	9.47	6.48	8.10
Percentage of characteristics with significant bias	35.79	0.00	17.39	24.39	31.25	27.50	21.79
Median effect size	0.06	0.10	0.10	0.07	0.14	0.09	0.12
After imputation							
Difference between pre- and postimputation means	0.50	‡	2.80	0.83	3.55	0.17	4.34
Effect size for difference	0.01	‡	0.03	0.01	0.04	#	0.06
NETCST41 (Student budget minus all aid except private loans)							
Before imputation							
Mean percent relative bias across characteristics	12.62	4.63	16.04	12.24	13.21	12.13	16.76
Median percent relative bias across characteristics	6.15	4.95	9.51	5.30	9.15	6.94	7.98
Percentage of characteristics with significant bias	34.41	0.00	17.39	24.39	26.56	26.25	21.05
Median effect size	0.06	0.10	0.10	0.07	0.14	0.09	0.12
After imputation							
Difference between pre- and postimputation means	2.33	‡	7.72	2.85*	3.56	4.70	7.93
Effect size for difference	0.02	‡	0.05	0.03	0.03	0.04	0.07

See notes at end of table.

Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
NETCST43 (Student budget minus all aid except loans)							
Before imputation							
Mean percent relative bias across characteristics	12.65	4.83	16.43	12.83	13.44	13.26	17.28
Median percent relative bias across characteristics	6.10	5.38	10.03	5.40	9.93	6.98	8.25
Percentage of characteristics with significant bias	32.98	0.00	17.39	25.30	31.25	25.93	19.74
Median effect size	0.06	0.06	0.10	0.07	0.15	0.09	0.12
After imputation							
Difference between pre- and postimputation means	1.84	‡	3.40	0.88	4.60	0.71	4.55
Effect size for difference	0.02	‡	0.03	0.01	0.05	0.01	0.06
NETCST44 (Tuition and fees minus all graduate assistantships and institution grants)							
Before imputation							
Mean percent relative bias across characteristics	14.70	0.22	18.35	14.92	15.46	15.67	19.13
Median percent relative bias across characteristics	8.17	0.22	10.22	6.54	8.45	10.37	7.57
Percentage of characteristics with significant bias	50.00	0.00	40.30	45.78	33.33	38.75	19.23
Median effect size	0.10	0.02	0.13	0.08	0.15	0.12	0.12
After imputation							
Difference between pre- and postimputation means	0.78	‡	2.52	2.66*	0.18	0.91	1.25
Effect size for difference	0.01	‡	0.03	0.02	#	0.01	0.01
NETCST9 (Tuition and fees minus all grants)							
Before imputation							
Mean percent relative bias across characteristics	13.90	4.64	15.40	12.03	13.10	12.13	18.70
Median percent relative bias across characteristics	6.27	4.95	9.44	4.97	8.97	6.48	7.93
Percentage of characteristics with significant bias	35.11	0.00	14.71	23.17	26.56	26.25	20.51
Median effect size	0.06	0.10	0.10	0.06	0.14	0.09	0.12
After imputation							
Difference between pre- and postimputation means	0.41	‡	6.45	1.35	3.40	0.13	1.00
Effect size for difference	#	‡	0.06	0.01	0.03	#	0.01

See notes at end of table.

Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
NFEDCUM1 (Cumulative nonfederal loan amount for undergrad)							
Before imputation							
Mean percent relative bias across characteristics	12.91	2.51	15.46	12.42	13.59	13.83	15.55
Median percent relative bias across characteristics	7.23	1.69	8.87	7.03	7.11	8.72	6.58
Percentage of characteristics with significant bias	52.58	0.00	36.62	37.65	26.47	43.37	18.75
Median effect size	0.07	0.07	0.11	0.07	0.10	0.10	0.10
After imputation							
Difference between pre- and postimputation means	2.53	‡	29.08	4.57	7.78*	0.78	3.67
Effect size for difference	0.01	‡	0.05	0.01	0.02	#	0.01
NFEDCUM2 (Cumulative nonfederal loan amount for grad)							
Before imputation							
Mean percent relative bias across characteristics	16.74	10.34	21.11	16.50	16.50	17.50	19.15
Median percent relative bias across characteristics	8.49	3.05	12.27	7.40	8.50	11.12	7.73
Percentage of characteristics with significant bias	44.90	8.33	41.67	43.68	25.37	37.35	19.23
Median effect size	0.10	0.11	0.14	0.09	0.16	0.13	0.13
After imputation							
Difference between pre- and postimputation means	7.89*	‡	26.60	9.01	13.58	4.86	8.48
Effect size for difference	0.01	‡	0.05	0.01	0.03	0.01	0.02
NFEDCUM3 (Cumulative nonfederal loan amount for undergrad and grad)							
Before imputation							
Mean percent relative bias across characteristics	16.63	10.29	20.97	16.62	16.42	17.47	19.46
Median percent relative bias across characteristics	7.70	2.90	12.44	7.45	9.20	11.10	7.84
Percentage of characteristics with significant bias	44.90	8.33	40.28	44.83	23.88	37.35	20.51
Median effect size	0.10	0.12	0.14	0.09	0.16	0.13	0.13
After imputation							
Difference between pre- and postimputation means	5.02	‡	36.93	5.29	1.22	2.28	7.76*
Effect size for difference	0.01	‡	0.09	0.01	#	0.01	0.02

See notes at end of table.

**Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution:
2019–20—Continued**

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
OTHFDGRT (Other federal grants [not Title IV])							
Before imputation							
Mean percent relative bias across characteristics	15.30	16.14	17.83	13.67	12.61	14.74	18.94
Median percent relative bias across characteristics	6.68	5.15	9.03	5.11	8.06	6.30	7.91
Percentage of characteristics with significant bias	34.02	12.50	19.44	21.43	25.00	25.30	20.25
Median effect size	0.06	0.12	0.10	0.06	0.14	0.08	0.12
After imputation							
Difference between pre- and postimputation means	31.20	‡	97.05	48.58	24.16	18.55	10.60
Effect size for difference	0.01	‡	0.02	0.02	0.01	0.01	#
OTHRSCR (Outside sources total)							
Before imputation							
Mean percent relative bias across characteristics	16.06	17.42	18.41	15.63	15.31	17.70	19.76
Median percent relative bias across characteristics	8.28	3.75	9.45	6.36	8.88	10.15	8.20
Percentage of characteristics with significant bias	47.42	14.29	38.57	41.86	35.94	38.10	20.25
Median effect size	0.09	0.12	0.12	0.07	0.16	0.12	0.12
After imputation							
Difference between pre- and postimputation means	3.20	‡	20.46	2.51	1.23	5.48	5.53
Effect size for difference	0.01	‡	0.07	0.01	#	0.02	0.02
OTHTYPE (Label1: Total other type of aid [Direct PLUS, job training, VA]; Label2: Total other type of aid [Direct PLUS, assistantships, VA])							
Before imputation							
Mean percent relative bias across characteristics	15.68	18.95	18.74	15.18	15.07	16.37	18.96
Median percent relative bias across characteristics	7.98	3.46	9.73	6.09	8.25	10.27	8.05
Percentage of characteristics with significant bias	47.92	16.67	39.13	43.53	34.38	38.27	19.23
Median effect size	0.09	0.11	0.12	0.07	0.15	0.12	0.12
After imputation							
Difference between pre- and postimputation means	5.52*	‡	4.04	4.20*	0.56	6.05	8.81
Effect size for difference	0.02	‡	0.01	0.02	#	0.02	0.01

See notes at end of table.

**Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution:
2019–20—Continued**

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
OTHTYPE2 (Total other type of aid including work-study)							
Before imputation							
Mean percent relative bias across characteristics	15.09	18.95	16.82	14.27	15.11	15.32	18.35
Median percent relative bias across characteristics	8.10	3.46	9.79	6.06	8.15	10.46	7.77
Percentage of characteristics with significant bias	48.42	16.67	36.76	42.86	34.38	37.04	19.23
Median effect size	0.09	0.11	0.12	0.07	0.15	0.12	0.12
After imputation							
Difference between pre- and postimputation means	6.25*	‡	5.44	4.64*	0.03	7.24	9.47
Effect size for difference	0.02	‡	0.01	0.02	#	0.02	0.01
OWEAMT2 (Amount still owed on all graduate loans)							
Before imputation							
Mean percent relative bias across characteristics	16.90	10.42	19.77	16.66	18.85	18.83	21.72
Median percent relative bias across characteristics	9.77	3.08	10.39	8.99	8.62	12.25	9.54
Percentage of characteristics with significant bias	45.92	8.33	37.50	42.53	27.54	42.86	21.25
Median effect size	0.11	0.12	0.12	0.10	0.16	0.13	0.13
After imputation							
Difference between pre- and postimputation means	0.09	‡	0.65	2.68	2.51	2.60	2.36
Effect size for difference	#	‡	#	0.01	0.01	0.02	0.02
OWEAMT3 (Amount still owed on all education loans)							
Before imputation							
Mean percent relative bias across characteristics	17.02	10.43	20.28	17.15	18.92	18.83	22.18
Median percent relative bias across characteristics	9.98	3.08	10.22	9.25	9.87	12.15	9.14
Percentage of characteristics with significant bias	45.92	8.33	37.50	45.98	26.09	40.48	21.25
Median effect size	0.12	0.12	0.12	0.11	0.16	0.14	0.14
After imputation							
Difference between pre- and postimputation means	0.49	15.17	1.95	2.50	2.00	2.02	1.06
Effect size for difference	#	0.05	0.01	0.02	0.01	0.01	0.01

See notes at end of table.

**Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution:
2019–20—Continued**

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
PARBORN (Parent born in US, PR, or US Territory)							
Before imputation							
Mean percent relative bias across characteristics	12.78	0.90	15.90	12.51	13.45	13.67	15.45
Median percent relative bias across characteristics	7.08	0.73	10.60	7.18	6.59	8.96	7.29
Percentage of characteristics with significant bias	49.48	0.00	37.14	41.18	32.35	43.37	20.00
Median effect size	0.07	0.05	0.13	0.06	0.11	0.10	0.10
After imputation							
Difference between pre- and postimputation means	0.51	‡	1.33	0.29	1.61	0.67*	1.40
Effect size for difference	0.01	‡	‡	#	‡	0.01	0.02
PARHELP2 (Label1: Help from parents: housing, tuition, other expenses [incl. independent students] Label2: Help from parents: housing, tuition, other expenses)							
Before imputation							
Mean percent relative bias across characteristics	12.85	0.92	16.01	12.46	13.38	13.66	15.69
Median percent relative bias across characteristics	7.47	0.73	10.60	7.18	6.38	9.12	6.34
Percentage of characteristics with significant bias	50.52	0.00	37.14	41.18	32.84	42.17	17.50
Median effect size	0.07	0.05	0.13	0.06	0.11	0.10	0.11
After imputation							
Difference between pre- and postimputation means	0.81*	‡	0.53	0.49	1.00	1.34	0.17
Effect size for difference	0.01	‡	0.01	0.01	0.01	0.01	#
PARHPAMT2 (Label1: Help from parents: amount paid for expenses (incl. independent students) Label2: Help from parents: amount parents helped pay for expenses)							
Before imputation							
Mean percent relative bias across characteristics	12.83	0.62	15.97	12.44	13.61	13.69	15.70
Median percent relative bias across characteristics	7.50	0.72	10.40	7.18	6.84	9.13	6.42
Percentage of characteristics with significant bias	50.52	0.00	35.71	40.00	32.35	43.37	17.50
Median effect size	0.07	0.07	0.13	0.06	0.11	0.10	0.11
After imputation							
Difference between pre- and postimputation means	0.70	‡	0.62	0.36	0.14	1.37	0.31
Effect size for difference	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

**Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution:
2019–20—Continued**

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
PCTPOV (Income percentage of poverty level)							
Before imputation							
Mean percent relative bias across characteristics	38.43	22.61	45.21	41.37	31.90	41.08	35.94
Median percent relative bias across characteristics	25.08	12.52	36.11	28.76	20.75	31.05	28.54
Percentage of characteristics with significant bias	72.16	35.71	52.05	64.71	49.28	63.86	45.12
Median effect size	0.30	0.26	0.52	0.34	0.34	0.37	0.33
After imputation							
Difference between pre- and postimputation means	20.98*	13.66	15.43*	23.75*	17.98*	21.35*	14.59*
Effect size for difference	0.25	0.16	0.20	0.26	0.22	0.25	0.19
PRIMLANG (Primary language spoken)							
Before imputation							
Mean percent relative bias across characteristics	12.78	0.89	15.92	12.50	13.52	13.65	15.54
Median percent relative bias across characteristics	7.07	0.73	10.70	7.09	6.56	9.34	7.30
Percentage of characteristics with significant bias	50.52	0.00	37.14	41.18	32.84	40.96	17.50
Median effect size	0.07	0.05	0.13	0.06	0.11	0.10	0.10
After imputation							
Difference between pre- and postimputation means	0.53	‡	1.42	0.86*	1.61	0.99	2.63*
Effect size for difference	0.01	‡	‡	‡	‡	‡	‡
PRIMLGFAQ (Frequency of speaking non-English language with primary caregiver)							
Before imputation							
Mean percent relative bias across characteristics	28.92	2.34	32.79	26.69	33.89	27.69	38.80
Median percent relative bias across characteristics	15.65	1.67	16.13	17.05	21.09	14.84	26.03
Percentage of characteristics with significant bias	42.27	0.00	26.47	35.29	32.84	32.53	25.00
Median effect size	0.14	0.10	0.17	0.13	0.18	0.14	0.29
After imputation							
Difference between pre- and postimputation means	1.18	‡	‡	3.25	‡	2.21	6.88
Effect size for difference	0.02	‡	‡	‡	‡	‡	‡

See notes at end of table.

**Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution:
2019–20—Continued**

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
PRIVLRAT (Ratio of private loans to total loans)							
Before imputation							
Mean percent relative bias across characteristics	38.41	‡	43.73	38.75	31.14	40.35	30.79
Median percent relative bias across characteristics	34.16	‡	38.77	31.57	25.18	35.51	20.82
Percentage of characteristics with significant bias	63.54	‡	52.38	57.14	43.55	59.76	34.21
Median effect size	0.36	‡	0.76	0.37	0.53	0.47	0.36
After imputation							
Difference between pre- and postimputation means	0.84	‡	28.94	3.18	5.92	4.82	4.02
Effect size for difference	#	‡	0.08	0.01	0.02	0.01	0.01
PRIVPACK (Package of private and non-private loans)							
Before imputation							
Mean percent relative bias across characteristics	15.39	16.06	16.64	14.51	15.25	16.67	18.82
Median percent relative bias across characteristics	7.99	3.96	9.64	6.36	8.81	10.24	8.31
Percentage of characteristics with significant bias	50.00	16.67	36.76	41.18	35.94	37.35	20.51
Median effect size	0.09	0.11	0.12	0.07	0.16	0.11	0.12
After imputation							
Difference between pre- and postimputation means	0.53	‡	1.69	0.43	1.59	0.21	0.11
Effect size for difference	0.01	‡	‡	‡	‡	‡	‡
PRIVPCT (Ratio of private loans to total aid)							
Before imputation							
Mean percent relative bias across characteristics	17.18	13.10	21.21	15.41	17.72	17.98	21.07
Median percent relative bias across characteristics	13.20	6.66	14.18	8.93	15.30	14.24	12.44
Percentage of characteristics with significant bias	51.06	25.00	21.74	41.46	39.06	39.51	25.97
Median effect size	0.16	0.14	0.18	0.10	0.23	0.19	0.22
After imputation							
Difference between pre- and postimputation means	4.30	‡	14.19	3.28	7.26	4.94	4.59
Effect size for difference	0.01	‡	0.03	0.01	0.02	0.01	0.01

See notes at end of table.

Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
RAINDBTRB (Race: American Indian or Alaska Native recognized tribe)							
Before imputation							
Mean percent relative bias across characteristics	80.26	‡	67.97	84.93	83.61	97.49	75.29
Median percent relative bias across characteristics	32.13	‡	46.87	35.27	64.39	50.95	38.39
Percentage of characteristics with significant bias	31.46	‡	36.21	20.00	29.31	32.05	12.50
Median effect size	0.31	‡	0.71	0.34	0.56	0.61	0.44
After imputation							
Difference between pre- and postimputation means	1.75	‡	‡	‡	‡	‡	‡
Effect size for difference	‡	‡	‡	‡	‡	‡	‡
REANOAPA (Reason for not applying: did not want to take on the debt)							
Before imputation							
Mean percent relative bias across characteristics	44.18	16.93	40.70	41.92	42.57	47.38	66.20
Median percent relative bias across characteristics	25.61	18.80	23.39	24.61	21.82	30.38	59.43
Percentage of characteristics with significant bias	47.83	36.36	42.31	40.68	23.40	33.90	34.62
Median effect size	0.45	0.23	0.62	0.44	0.67	0.53	0.74
After imputation							
Difference between pre- and postimputation means	#	‡	5.34	5.22	10.52	7.63*	0.79
Effect size for difference	#	‡	0.05	0.05	0.11	0.08	0.01
REANOAPB (Reason for not applying: forms were too much work)							
Before imputation							
Mean percent relative bias across characteristics	44.18	16.93	40.70	41.92	42.57	47.38	66.20
Median percent relative bias across characteristics	25.61	18.80	23.39	24.61	21.82	30.38	59.43
Percentage of characteristics with significant bias	47.83	36.36	42.31	40.68	23.40	33.90	34.62
Median effect size	0.45	0.23	0.62	0.44	0.67	0.53	0.74
After imputation							
Difference between pre- and postimputation means	1.52	‡	3.77*	0.28	3.16	2.58	3.26
Effect size for difference	0.03	‡	‡	‡	‡	0.05	‡

See notes at end of table.

Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
REANOAPC (Reason for not applying: no information about how to apply)							
Before imputation							
Mean percent relative bias across characteristics	44.18	16.93	40.70	41.92	42.57	47.38	66.20
Median percent relative bias across characteristics	25.61	18.80	23.39	24.61	21.82	30.38	59.43
Percentage of characteristics with significant bias	47.83	36.36	42.31	40.68	23.40	33.90	34.62
Median effect size	0.45	0.23	0.62	0.44	0.67	0.53	0.74
After imputation							
Difference between pre- and postimputation means	2.09	‡	1.12	1.50	2.28	0.93	1.88
Effect size for difference	0.04	‡	‡	‡	‡	0.02	‡
REANOAPD (Reason for not applying: no need)							
Before imputation							
Mean percent relative bias across characteristics	44.18	16.93	40.70	41.92	42.57	47.38	66.20
Median percent relative bias across characteristics	25.61	18.80	23.39	24.61	21.82	30.38	59.43
Percentage of characteristics with significant bias	47.83	36.36	42.31	40.68	23.40	33.90	34.62
Median effect size	0.45	0.23	0.62	0.44	0.67	0.53	0.74
After imputation							
Difference between pre- and postimputation means	1.34	‡	11.37	0.73	3.65	1.95	3.10
Effect size for difference	0.01	‡	0.11	0.01	0.04	0.02	0.03
REANOAPE (Reason for not applying: thought ineligible)							
Before imputation							
Mean percent relative bias across characteristics	44.18	16.93	40.70	41.92	42.57	47.38	66.20
Median percent relative bias across characteristics	25.61	18.80	23.39	24.61	21.82	30.38	59.43
Percentage of characteristics with significant bias	47.83	36.36	42.31	40.68	23.40	33.90	34.62
Median effect size	0.45	0.23	0.62	0.44	0.67	0.53	0.74
After imputation							
Difference between pre- and postimputation means	0.83	‡	1.98	3.59	5.82	0.32	11.12
Effect size for difference	0.01	‡	0.02	0.04	0.06	#	0.12

See notes at end of table.

Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
REANOAPF (Reason for not applying: other)							
Before imputation							
Mean percent relative bias across characteristics	44.18	16.93	40.70	41.92	42.57	47.38	66.20
Median percent relative bias across characteristics	25.61	18.80	23.39	24.61	21.82	30.38	59.43
Percentage of characteristics with significant bias	47.83	36.36	42.31	40.68	23.40	33.90	34.62
Median effect size	0.45	0.23	0.62	0.44	0.67	0.53	0.74
After imputation							
Difference between pre- and postimputation means	2.73	‡	0.11	1.83	1.66	4.52	0.04
Effect size for difference	0.03	‡	‡	0.02	‡	0.05	#
REFUND2 (Method of receiving refund from NPSAS)							
Before imputation							
Mean percent relative bias across characteristics	35.52	‡	47.13	35.95	38.20	40.02	35.96
Median percent relative bias across characteristics	28.18	‡	42.15	31.68	34.76	33.33	27.19
Percentage of characteristics with significant bias	63.54	‡	48.53	53.57	44.62	56.10	43.75
Median effect size	0.38	‡	0.77	0.38	0.51	0.46	0.43
After imputation							
Difference between pre- and postimputation means	0.19	‡	‡	1.97*	2.79	0.99	2.82
Effect size for difference	‡	‡	‡	‡	‡	‡	‡
SAGI (Independent students: Adjusted gross income)							
Before imputation							
Mean percent relative bias across characteristics	47.26	20.96	49.28	52.73	35.02	51.48	38.86
Median percent relative bias across characteristics	33.06	7.79	37.64	38.05	22.66	48.51	29.84
Percentage of characteristics with significant bias	65.98	26.67	50.00	66.28	46.38	67.47	48.78
Median effect size	0.37	0.25	0.56	0.42	0.41	0.44	0.27
After imputation							
Difference between pre- and postimputation means	18.45*	2.75	15.83*	19.10*	14.04*	20.91*	17.49*
Effect size for difference	0.15	0.04	0.20	0.18	0.15	0.16	0.11

See notes at end of table.

**Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution:
2019–20—Continued**

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
SFEDTAX (Independent students: Federal tax paid)							
Before imputation							
Mean percent relative bias across characteristics	44.97	25.02	47.99	49.70	35.18	49.83	38.76
Median percent relative bias across characteristics	32.94	15.15	36.83	35.07	22.43	43.56	30.16
Percentage of characteristics with significant bias	69.07	26.67	50.00	66.28	47.14	68.24	47.56
Median effect size	0.34	0.28	0.47	0.41	0.41	0.42	0.28
After imputation							
Difference between pre- and postimputation means	26.25*	16.52	22.44*	27.80*	22.05*	27.74*	21.75*
Effect size for difference	0.09	0.09	0.15	0.12	0.11	0.09	0.06
SNEED1 (Student budget minus EFC)							
Before imputation							
Mean percent relative bias across characteristics	41.00	18.79	48.13	44.24	34.64	42.29	38.91
Median percent relative bias across characteristics	29.72	8.74	36.37	38.55	26.28	43.71	31.89
Percentage of characteristics with significant bias	72.16	38.46	51.35	63.53	49.28	67.06	45.78
Median effect size	0.32	0.26	0.54	0.38	0.45	0.39	0.29
After imputation							
Difference between pre- and postimputation means	14.99*	‡	34.53*	20.44*	24.99*	10.45*	22.02*
Effect size for difference	0.16	‡	0.22	0.24	0.22	0.13	0.21
SNEED2 (Student budget minus EFC minus total aid)							
Before imputation							
Mean percent relative bias across characteristics	42.45	21.03	52.79	44.66	34.40	43.31	41.39
Median percent relative bias across characteristics	30.74	17.76	38.28	30.92	21.60	42.78	38.06
Percentage of characteristics with significant bias	64.89	37.50	53.52	57.32	44.78	63.41	40.00
Median effect size	0.34	0.42	0.64	0.39	0.51	0.41	0.36
After imputation							
Difference between pre- and postimputation means	4.13	40.69	28.44	1.88	4.67	6.38	12.55
Effect size for difference	0.03	0.31	0.12	0.01	0.03	0.04	0.07

See notes at end of table.

**Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution:
2019–20—Continued**

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate- granting, primarily subbaccalaureate	4-year, non-doctorate- granting, primarily baccalaureate	4-year, doctorate- granting	4-year, non- doctorate- granting	4-year, doctorate- granting	
SNEED3 (Student budget minus EFC minus federal grants)							
Before imputation							
Mean percent relative bias across characteristics	44.69	26.03	53.93	46.17	34.40	44.59	42.51
Median percent relative bias across characteristics	33.97	15.91	43.82	35.69	21.80	44.29	38.47
Percentage of characteristics with significant bias	68.37	40.00	56.76	60.71	43.28	63.10	41.98
Median effect size	0.33	0.35	0.62	0.39	0.51	0.42	0.36
After imputation							
Difference between pre- and postimputation means	16.42*	38.55	35.33*	23.75*	17.97	12.36*	18.91
Effect size for difference	0.18	0.30	0.23	0.28	0.16	0.15	0.18
SNEED4 (Student budget minus EFC and aid subject to EFC limitation)							
Before imputation							
Mean percent relative bias across characteristics	43.62	21.08	52.03	46.87	36.76	45.09	42.20
Median percent relative bias across characteristics	32.61	5.67	41.26	36.97	26.04	43.83	37.83
Percentage of characteristics with significant bias	66.67	35.71	53.42	63.10	44.12	63.10	41.98
Median effect size	0.34	0.31	0.65	0.40	0.52	0.41	0.35
After imputation							
Difference between pre- and postimputation means	21.38*	47.21*	32.11*	26.22*	25.05*	18.95*	19.50
Effect size for difference	0.21	0.36	0.20	0.28	0.21	0.20	0.18
SNEED5 (Student budget minus EFC minus all grants)							
Before imputation							
Mean percent relative bias across characteristics	43.77	20.87	52.42	44.98	34.44	43.18	42.51
Median percent relative bias across characteristics	31.39	12.89	39.60	31.29	21.74	44.59	38.47
Percentage of characteristics with significant bias	66.67	35.71	54.93	59.76	43.28	62.20	41.98
Median effect size	0.34	0.30	0.62	0.39	0.51	0.41	0.36
After imputation							
Difference between pre- and postimputation means	20.78*	44.21	38.70*	25.90*	19.98	18.83*	19.10
Effect size for difference	0.21	0.34	0.24	0.28	0.17	0.20	0.18

See notes at end of table.

**Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution:
2019–20—Continued**

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate- granting, primarily subbaccalaureate	4-year, non-doctorate- granting, primarily baccalaureate	4-year, doctorate- granting	4-year, non- doctorate- granting	4-year, doctorate- granting	
SNEED7 (Student budget minus EFC, federal and state grants)							
Before imputation							
Mean percent relative bias across characteristics	44.18	26.03	52.42	46.17	34.40	43.83	42.51
Median percent relative bias across characteristics	31.59	15.91	39.60	35.69	21.80	44.37	38.47
Percentage of characteristics with significant bias	68.04	40.00	54.93	60.71	43.28	62.65	41.98
Median effect size	0.34	0.35	0.62	0.39	0.51	0.41	0.36
After imputation							
Difference between pre- and postimputation means	16.36*	38.90	36.47*	23.43*	18.02	12.41*	19.02
Effect size for difference	0.18	0.30	0.24	0.27	0.16	0.15	0.18
SNEED8 (Student budget minus EFC and federal, state, and other grants)							
Before imputation							
Mean percent relative bias across characteristics	44.13	26.03	52.42	46.17	34.40	43.55	42.51
Median percent relative bias across characteristics	31.54	15.91	39.60	35.69	21.80	44.26	38.47
Percentage of characteristics with significant bias	67.01	40.00	54.93	60.71	43.28	63.86	41.98
Median effect size	0.34	0.35	0.62	0.39	0.51	0.41	0.36
After imputation							
Difference between pre- and postimputation means	17.46*	41.30	37.84*	24.04*	19.93	13.93*	19.21
Effect size for difference	0.18	0.32	0.24	0.27	0.17	0.16	0.18
SNEED9 (Student budget minus EFC and all aid except private loans)							
Before imputation							
Mean percent relative bias across characteristics	42.55	20.87	52.42	44.98	34.41	43.11	41.06
Median percent relative bias across characteristics	30.63	12.89	39.60	31.29	21.67	44.52	37.70
Percentage of characteristics with significant bias	65.96	35.71	54.93	59.76	43.28	62.20	41.77
Median effect size	0.34	0.30	0.62	0.39	0.51	0.41	0.36
After imputation							
Difference between pre- and postimputation means	3.78	43.93	25.90	1.00	4.16	5.04	11.97
Effect size for difference	0.03	0.33	0.11	0.01	0.03	0.04	0.07

See notes at end of table.

**Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution:
2019–20—Continued**

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
SPSINC (Independent students: Spouse's income)							
Before imputation							
Mean percent relative bias across characteristics	46.29	‡	55.80	48.42	41.35	50.44	41.78
Median percent relative bias across characteristics	31.77	‡	41.87	27.37	25.62	33.32	31.76
Percentage of characteristics with significant bias	55.32	‡	43.28	51.81	50.77	51.25	33.33
Median effect size	0.36	‡	0.89	0.40	0.45	0.42	0.45
After imputation							
Difference between pre- and postimputation means	12.99*	‡	15.01*	10.56*	0.72	20.28*	11.06
Effect size for difference	0.09	‡	0.16	0.08	0.01	0.13	0.05
STABREG (Study abroad region)							
Before imputation							
Mean percent relative bias across characteristics	28.12	‡	29.64	27.88	42.82	26.87	41.87
Median percent relative bias across characteristics	18.95	‡	18.17	18.74	37.55	18.56	24.01
Percentage of characteristics with significant bias	43.30	‡	23.19	34.12	35.94	43.90	16.46
Median effect size	0.16	‡	0.19	0.13	0.49	0.20	0.22
After imputation							
Difference between pre- and postimputation means	2.01	‡	‡	2.27	‡	2.96	10.55*
Effect size for difference	‡	‡	‡	‡	‡	‡	‡
STABTIME (Length of time studied abroad)							
Before imputation							
Mean percent relative bias across characteristics	29.63	‡	31.46	28.19	43.45	28.15	44.32
Median percent relative bias across characteristics	22.31	‡	19.26	19.63	40.27	20.63	28.76
Percentage of characteristics with significant bias	46.39	‡	23.19	35.29	32.31	40.24	17.72
Median effect size	0.21	‡	0.20	0.16	0.48	0.20	0.26
After imputation							
Difference between pre- and postimputation means	2.83*	‡	‡	3.33	‡	1.59	6.99
Effect size for difference	0.04	‡	‡	0.04	‡	‡	‡

See notes at end of table.

**Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution:
2019–20—Continued**

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
STAPCT (Ratio of state aid to total aid)							
Before imputation							
Mean percent relative bias across characteristics	17.18	13.10	21.21	15.41	17.72	17.98	21.07
Median percent relative bias across characteristics	13.20	6.66	14.18	8.93	15.30	14.24	12.44
Percentage of characteristics with significant bias	51.06	25.00	21.74	41.46	39.06	39.51	25.97
Median effect size	0.16	0.14	0.18	0.10	0.23	0.19	0.22
After imputation							
Difference between pre- and postimputation means	7.09	‡	14.04	4.05	38.66	19.55	96.40
Effect size for difference	0.01	‡	0.02	0.01	0.03	0.02	0.06
STATEAMT (State aid total)							
Before imputation							
Mean percent relative bias across characteristics	14.89	27.18	16.84	14.16	15.03	15.35	18.35
Median percent relative bias across characteristics	7.89	0.19	9.77	6.46	8.25	9.90	8.01
Percentage of characteristics with significant bias	49.47	33.33	36.76	41.67	34.38	36.25	20.51
Median effect size	0.09	0.02	0.12	0.07	0.15	0.11	0.12
After imputation							
Difference between pre- and postimputation means	1.16	‡	6.29	1.71	43.23	0.15	77.37
Effect size for difference	#	‡	0.01	#	0.03	#	0.05
STATNEED (State need-based grants)							
Before imputation							
Mean percent relative bias across characteristics	14.89	27.18	16.86	14.16	15.03	15.35	18.35
Median percent relative bias across characteristics	7.90	0.19	9.86	6.46	8.25	9.90	8.01
Percentage of characteristics with significant bias	49.47	33.33	36.76	41.67	34.38	36.25	20.51
Median effect size	0.09	0.02	0.12	0.07	0.15	0.11	0.12
After imputation							
Difference between pre- and postimputation means	5.68	‡	16.50*	4.54	49.27	6.96	99.50
Effect size for difference	0.01	‡	0.02	0.01	0.03	0.01	0.06

See notes at end of table.

**Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution:
2019–20—Continued**

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
STATNOND (State nonneed and merit grants)							
Before imputation							
Mean percent relative bias across characteristics	14.95	27.18	16.84	14.23	15.03	15.33	18.35
Median percent relative bias across characteristics	7.90	0.19	9.77	6.59	8.25	10.04	8.01
Percentage of characteristics with significant bias	51.58	33.33	36.76	42.86	34.38	36.25	20.51
Median effect size	0.10	0.02	0.12	0.08	0.15	0.12	0.12
After imputation							
Difference between pre- and postimputation means	8.29*	‡	1.28	8.12*	46.61	8.80	49.16
Effect size for difference	0.01	‡	#	0.01	0.02	#	0.02
STAXFILE (Independent students: Federal tax filed)							
Before imputation							
Mean percent relative bias across characteristics	45.89	24.35	48.67	50.67	35.26	50.39	38.67
Median percent relative bias across characteristics	33.61	13.79	34.59	36.23	21.77	46.16	32.47
Percentage of characteristics with significant bias	69.07	26.67	52.05	69.77	47.83	69.05	48.78
Median effect size	0.34	0.26	0.48	0.41	0.40	0.42	0.27
After imputation							
Difference between pre- and postimputation means	2.25*	10.51	4.85	3.72*	5.16*	1.68	0.16
Effect size for difference	0.04	‡	0.08	0.06	0.08	0.03	#
STGRPCT (Ratio of state grants to total aid)							
Before imputation							
Mean percent relative bias across characteristics	17.18	13.10	21.21	15.41	17.72	17.98	21.07
Median percent relative bias across characteristics	13.20	6.66	14.18	8.93	15.30	14.24	12.44
Percentage of characteristics with significant bias	51.06	25.00	21.74	41.46	39.06	39.51	25.97
Median effect size	0.16	0.14	0.18	0.10	0.23	0.19	0.22
After imputation							
Difference between pre- and postimputation means	7.55	‡	15.92	4.25	55.06	22.63	96.40
Effect size for difference	0.01	‡	0.03	0.01	0.04	0.02	0.06

See notes at end of table.

**Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution:
2019–20—Continued**

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate- granting, primarily subbaccalaureate	4-year, non-doctorate- granting, primarily baccalaureate	4-year, doctorate- granting	4-year, non- doctorate- granting	4-year, doctorate- granting	
STGTAMT (State grants total)							
Before imputation							
Mean percent relative bias across characteristics	14.89	27.18	16.84	14.16	15.03	15.35	18.35
Median percent relative bias across characteristics	7.89	0.19	9.77	6.46	8.25	9.90	8.01
Percentage of characteristics with significant bias	49.47	33.33	36.76	41.67	34.38	36.25	20.51
Median effect size	0.09	0.02	0.12	0.07	0.15	0.11	0.12
After imputation							
Difference between pre- and postimputation means	0.64	‡	5.84	1.51	48.33	1.61	77.37
Effect size for difference	#	‡	0.01	#	0.03	#	0.05
STLNAMT (State loans)							
Before imputation							
Mean percent relative bias across characteristics	14.95	27.18	16.86	14.23	15.03	15.33	18.35
Median percent relative bias across characteristics	7.90	0.19	9.86	6.59	8.25	10.04	8.01
Percentage of characteristics with significant bias	51.58	33.33	36.76	42.86	34.38	36.25	20.51
Median effect size	0.10	0.02	0.12	0.08	0.15	0.12	0.12
After imputation							
Difference between pre- and postimputation means	12.23	‡	16.50	8.28	19.88	15.77	#
Effect size for difference	#	‡	0.01	#	0.01	#	‡
STMERIT (State merit-only grants)							
Before imputation							
Mean percent relative bias across characteristics	14.95	27.18	16.84	14.23	15.03	15.33	18.35
Median percent relative bias across characteristics	7.90	0.19	9.77	6.59	8.25	10.04	8.01
Percentage of characteristics with significant bias	51.58	33.33	36.76	42.86	34.38	36.25	20.51
Median effect size	0.10	0.02	0.12	0.08	0.15	0.12	0.12
After imputation							
Difference between pre- and postimputation means	10.04*	‡	3.45	8.28*	#	15.77	28.73
Effect size for difference	#	‡	#	#	‡	#	#

See notes at end of table.

**Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution:
2019–20—Continued**

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
STMILAMT (State military/Armed Forces grants)							
Before imputation							
Mean percent relative bias across characteristics	14.95	27.18	16.86	14.23	15.03	15.33	18.35
Median percent relative bias across characteristics	7.90	0.19	9.86	6.59	8.25	10.04	8.01
Percentage of characteristics with significant bias	51.58	33.33	36.76	42.86	34.38	36.25	20.51
Median effect size	0.10	0.02	0.12	0.08	0.15	0.12	0.12
After imputation							
Difference between pre- and postimputation means	4.62	‡	16.50	8.28	#	#	97.38
Effect size for difference	#	‡	#	#	‡	‡	0.02
STNDMRT (State grants based both on need and merit)							
Before imputation							
Mean percent relative bias across characteristics	14.95	27.18	16.86	14.23	15.03	15.33	18.35
Median percent relative bias across characteristics	7.90	0.19	9.86	6.59	8.25	10.04	8.01
Percentage of characteristics with significant bias	51.58	33.33	36.76	42.86	34.38	36.25	20.51
Median effect size	0.10	0.02	0.12	0.08	0.15	0.12	0.12
After imputation							
Difference between pre- and postimputation means	7.94	‡	16.50	8.28*	58.44	4.68	11.55
Effect size for difference	#	‡	0.01	#	0.02	#	#
STNDONLY (State need-based only grants)							
Before imputation							
Mean percent relative bias across characteristics	14.89	27.18	16.86	14.16	15.03	15.35	18.35
Median percent relative bias across characteristics	7.90	0.19	9.86	6.46	8.25	9.90	8.01
Percentage of characteristics with significant bias	49.47	33.33	36.76	41.67	34.38	36.25	20.51
Median effect size	0.09	0.02	0.12	0.07	0.15	0.11	0.12
After imputation							
Difference between pre- and postimputation means	8.33	‡	16.50	7.81	39.64	7.11	99.53
Effect size for difference	0.01	‡	0.02	0.01	0.02	0.01	0.06

See notes at end of table.

Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
STNOND1 (State nonneed grants)							
Before imputation							
Mean percent relative bias across characteristics	14.95	27.18	16.86	14.23	15.03	15.33	18.35
Median percent relative bias across characteristics	7.90	0.19	9.86	6.59	8.25	10.04	8.01
Percentage of characteristics with significant bias	51.58	33.33	36.76	42.86	34.38	36.25	20.51
Median effect size	0.10	0.02	0.12	0.08	0.15	0.12	0.12
After imputation							
Difference between pre- and postimputation means	8.65*	‡	10.60	8.27*	46.61	7.68	16.62
Effect size for difference	#	‡	0.01	0.01	0.02	#	#
STVETAMT (State veterans education benefits)							
Before imputation							
Mean percent relative bias across characteristics	14.95	27.18	16.86	14.23	15.03	15.33	18.35
Median percent relative bias across characteristics	7.90	0.19	9.86	6.59	8.25	10.04	8.01
Percentage of characteristics with significant bias	51.58	33.33	36.76	42.86	34.38	36.25	20.51
Median effect size	0.10	0.02	0.12	0.08	0.15	0.12	0.12
After imputation							
Difference between pre- and postimputation means	10.45*	‡	16.50	6.37	#	15.77	#
Effect size for difference	#	‡	#	#	‡	#	‡
STWKAMT (State work-study)							
Before imputation							
Mean percent relative bias across characteristics	14.95	27.18	16.86	14.23	15.03	15.33	18.35
Median percent relative bias across characteristics	7.90	0.19	9.86	6.59	8.25	10.04	8.01
Percentage of characteristics with significant bias	51.58	33.33	36.76	42.86	34.38	36.25	20.51
Median effect size	0.10	0.02	0.12	0.08	0.15	0.12	0.12
After imputation							
Difference between pre- and postimputation means	12.23	‡	#	8.28	#	#	#
Effect size for difference	#	‡	‡	#	‡	‡	‡

See notes at end of table.

**Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution:
2019–20—Continued**

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
TFEDAID (Total federal aid [excludes veterans/DOD])							
Before imputation							
Mean percent relative bias across characteristics	14.40	16.14	17.83	13.67	12.59	14.69	16.82
Median percent relative bias across characteristics	6.68	5.15	9.03	5.11	7.86	6.41	7.67
Percentage of characteristics with significant bias	33.33	12.50	19.44	21.43	25.00	25.30	18.18
Median effect size	0.06	0.12	0.10	0.06	0.14	0.08	0.12
After imputation							
Difference between pre- and postimputation means	9.57*	‡	27.23*	9.16*	4.72	10.67*	1.60
Effect size for difference	0.05	‡	0.16	0.05	0.03	0.06	0.01
TFEDAID2 (Total federal aid [includes veterans/DOD])							
Before imputation							
Mean percent relative bias across characteristics	14.40	16.14	17.83	13.67	12.59	14.69	16.82
Median percent relative bias across characteristics	6.68	5.15	9.03	5.11	7.86	6.41	7.67
Percentage of characteristics with significant bias	33.33	12.50	19.44	21.43	25.00	25.30	18.18
Median effect size	0.06	0.12	0.10	0.06	0.14	0.08	0.12
After imputation							
Difference between pre- and postimputation means	8.96*	‡	26.49*	8.18*	4.55	10.26*	1.15
Effect size for difference	0.05	‡	0.16	0.04	0.03	0.06	0.01
TFEDGRT (Total federal grants [excludes veterans/DOD])							
Before imputation							
Mean percent relative bias across characteristics	15.30	16.14	17.83	13.67	12.61	14.74	18.94
Median percent relative bias across characteristics	6.68	5.15	9.03	5.11	8.06	6.30	7.91
Percentage of characteristics with significant bias	34.02	12.50	19.44	21.43	25.00	25.30	20.25
Median effect size	0.06	0.12	0.10	0.06	0.14	0.08	0.12
After imputation							
Difference between pre- and postimputation means	24.36	‡	4.22	46.96	22.48*	16.95	10.98
Effect size for difference	0.01	‡	#	0.03	0.01	0.01	#

See notes at end of table.

**Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution:
2019–20—Continued**

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
TFEDGRT2 (Total federal grants and veterans/DOD)							
Before imputation							
Mean percent relative bias across characteristics	15.30	16.14	17.83	13.67	12.61	14.74	18.94
Median percent relative bias across characteristics	6.68	5.15	9.03	5.11	8.06	6.30	7.91
Percentage of characteristics with significant bias	34.02	12.50	19.44	21.43	25.00	25.30	20.25
Median effect size	0.06	0.12	0.10	0.06	0.14	0.08	0.12
After imputation							
Difference between pre- and postimputation means	0.19	‡	6.80	1.61	0.83	0.92	9.65
Effect size for difference	#	‡	0.01	#	#	#	0.01
TGRTLN (Total loans and grants)							
Before imputation							
Mean percent relative bias across characteristics	14.59	5.70	14.89	11.68	12.96	13.01	19.38
Median percent relative bias across characteristics	6.73	5.29	9.69	5.15	9.01	7.03	8.28
Percentage of characteristics with significant bias	35.42	0.00	14.49	20.73	32.81	28.40	18.99
Median effect size	0.06	0.10	0.10	0.06	0.14	0.09	0.12
After imputation							
Difference between pre- and postimputation means	3.83	23.86	24.77*	3.42	1.51	2.77	0.97
Effect size for difference	0.03	0.09	0.18	0.02	0.01	0.02	0.01
TNFEDAID (Total nonfederal aid)							
Before imputation							
Mean percent relative bias across characteristics	14.77	3.83	16.35	13.81	15.24	16.18	18.82
Median percent relative bias across characteristics	8.51	3.73	9.44	6.62	8.85	10.47	8.31
Percentage of characteristics with significant bias	48.42	0.00	35.29	41.67	35.94	37.80	20.51
Median effect size	0.10	0.11	0.12	0.08	0.16	0.12	0.12
After imputation							
Difference between pre- and postimputation means	4.96*	‡	16.81	4.03*	2.40	7.19*	2.60
Effect size for difference	0.03	‡	0.07	0.02	0.01	0.04	0.01

See notes at end of table.

**Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution:
2019–20—Continued**

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
TNFEDGRT (Total nonfederal grants)							
Before imputation							
Mean percent relative bias across characteristics	14.32	3.63	16.58	13.33	15.01	14.60	18.35
Median percent relative bias across characteristics	8.10	3.44	9.63	5.78	8.27	10.36	8.01
Percentage of characteristics with significant bias	47.87	0.00	35.29	40.96	34.38	38.75	20.51
Median effect size	0.09	0.11	0.12	0.07	0.15	0.12	0.12
After imputation							
Difference between pre- and postimputation means	3.59	‡	11.45*	3.76*	0.63	5.02	4.43
Effect size for difference	0.02	‡	0.04	0.02	#	0.02	0.02
TNFEDLN (Total nonfederal loans)							
Before imputation							
Mean percent relative bias across characteristics	15.39	16.06	16.64	14.51	15.25	16.67	18.82
Median percent relative bias across characteristics	7.99	3.96	9.64	6.36	8.81	10.24	8.31
Percentage of characteristics with significant bias	50.00	16.67	36.76	41.18	35.94	37.35	20.51
Median effect size	0.09	0.11	0.12	0.07	0.16	0.11	0.12
After imputation							
Difference between pre- and postimputation means	1.50	‡	35.27	4.32	11.60	7.67	0.56
Effect size for difference	#	‡	0.06	0.01	0.02	0.01	#
TOTALID (Total aid amount)							
Before imputation							
Mean percent relative bias across characteristics	12.76	0.15	10.82	6.05	5.25	6.46	6.92
Median percent relative bias across characteristics	6.50	0.15	10.35	4.92	3.40	3.67	2.91
Percentage of characteristics with significant bias	35.11	0.00	17.86	35.21	5.56	12.16	1.85
Median effect size	0.06	0.02	0.15	0.06	0.05	0.05	0.04
After imputation							
Difference between pre- and postimputation means	1.59	23.55	22.55*	0.54	1.17	0.84	0.58
Effect size for difference	0.01	0.08	0.17	#	0.01	0.01	#

See notes at end of table.

**Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution:
2019–20—Continued**

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
TOTALD2 (Total federal [Title IV], state, and institution aid)							
Before imputation							
Mean percent relative bias across characteristics	14.28	3.63	16.81	13.21	15.05	14.49	18.35
Median percent relative bias across characteristics	8.23	3.44	9.74	5.82	8.17	10.36	7.77
Percentage of characteristics with significant bias	45.74	0.00	35.29	40.96	34.38	37.50	19.23
Median effect size	0.09	0.11	0.12	0.07	0.15	0.12	0.12
After imputation							
Difference between pre- and postimputation means	2.15	‡	3.76	2.07	0.95	3.65	1.60
Effect size for difference	0.02	‡	0.02	0.02	0.01	0.03	0.01
TOTALD7 (Total aid [excludes veterans/DOD])							
Before imputation							
Mean percent relative bias across characteristics	12.76	5.70	14.89	11.68	12.94	12.95	17.29
Median percent relative bias across characteristics	6.50	5.29	9.69	5.14	8.69	7.13	8.08
Percentage of characteristics with significant bias	35.11	0.00	14.49	20.73	32.81	27.16	18.18
Median effect size	0.06	0.10	0.10	0.06	0.14	0.09	0.12
After imputation							
Difference between pre- and postimputation means	1.80	23.86	23.09*	0.90	1.25	0.88	1.00
Effect size for difference	0.01	0.09	0.17	0.01	0.01	0.01	0.01
TOTALD8 (Total aid excluding private loans)							
Before imputation							
Mean percent relative bias across characteristics	12.12	5.50	14.52	11.64	12.60	11.92	16.82
Median percent relative bias across characteristics	6.42	5.08	8.57	5.10	7.86	6.92	7.67
Percentage of characteristics with significant bias	33.33	0.00	14.49	21.95	25.00	27.50	18.18
Median effect size	0.06	0.11	0.11	0.06	0.14	0.09	0.12
After imputation							
Difference between pre- and postimputation means	2.11	‡	22.03*	0.78	3.65	1.80	0.58
Effect size for difference	0.02	‡	0.16	0.01	0.03	0.02	#

See notes at end of table.

**Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution:
2019–20—Continued**

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate- granting, primarily subbaccalaureate	4-year, non-doctorate- granting, primarily baccalaureate	4-year, doctorate- granting	4-year, non- doctorate- granting	4-year, doctorate- granting	
TOTDUE2 (Cum. amount owed, principal and interest, all loans for graduate)							
Before imputation							
Mean percent relative bias across characteristics	16.90	10.42	19.77	16.66	18.85	18.83	21.72
Median percent relative bias across characteristics	9.77	3.08	10.39	8.99	8.62	12.25	9.54
Percentage of characteristics with significant bias	45.92	8.33	37.50	42.53	27.54	42.86	21.25
Median effect size	0.11	0.12	0.12	0.10	0.16	0.13	0.13
After imputation							
Difference between pre- and postimputation means	0.18	‡	0.72	2.48	2.05	2.93	2.53
Effect size for difference	#	‡	#	0.01	0.01	0.02	0.02
TOTDUE3 (Cum. amount owed, principal and interest, all education loans)							
Before imputation							
Mean percent relative bias across characteristics	17.02	10.43	20.28	17.15	18.92	18.83	22.18
Median percent relative bias across characteristics	9.98	3.08	10.22	9.25	9.87	12.15	9.14
Percentage of characteristics with significant bias	45.92	8.33	37.50	45.98	26.09	40.48	21.25
Median effect size	0.12	0.12	0.12	0.11	0.16	0.14	0.14
After imputation							
Difference between pre- and postimputation means	0.27	15.12	1.63	2.40	1.82	2.41	1.08
Effect size for difference	#	0.05	0.01	0.01	0.01	0.02	0.01
TOTGRT (Total grants)							
Before imputation							
Mean percent relative bias across characteristics	13.98	‡	10.41	5.76	4.86	5.54	10.30
Median percent relative bias across characteristics	6.61	‡	9.93	5.09	3.30	3.96	2.91
Percentage of characteristics with significant bias	34.74	‡	17.86	33.33	5.66	11.11	0.00
Median effect size	0.06	‡	0.13	0.06	0.05	0.05	0.04
After imputation							
Difference between pre- and postimputation means	4.76	‡	7.01	4.87*	2.21	7.04	5.22
Effect size for difference	0.02	‡	0.03	0.02	0.01	0.03	0.02

See notes at end of table.

Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
TOTGRT2 (Total grants and veterans/DOD)							
Before imputation							
Mean percent relative bias across characteristics	13.98	5.50	14.52	11.64	12.61	11.99	18.94
Median percent relative bias across characteristics	6.61	5.08	8.57	5.10	8.06	6.98	7.91
Percentage of characteristics with significant bias	34.74	0.00	14.49	21.95	29.69	27.50	20.25
Median effect size	0.06	0.11	0.11	0.06	0.14	0.09	0.12
After imputation							
Difference between pre- and postimputation means	4.74*	‡	5.38	5.43*	2.05	6.38	6.32
Effect size for difference	0.02	‡	0.02	0.03	0.01	0.03	0.02
TOTGRT4 (Total state and institution grants)							
Before imputation							
Mean percent relative bias across characteristics	14.32	3.63	16.84	13.24	15.01	14.71	18.35
Median percent relative bias across characteristics	8.16	3.44	9.81	5.90	8.27	10.53	8.01
Percentage of characteristics with significant bias	47.87	0.00	35.29	40.96	34.38	39.24	20.51
Median effect size	0.10	0.11	0.12	0.07	0.15	0.12	0.12
After imputation							
Difference between pre- and postimputation means	6.95*	‡	10.62	3.94*	4.56	10.94*	0.09
Effect size for difference	0.02	‡	0.03	0.02	0.02	0.04	#
TOTGRT5 (Total graduate grants/fellowships excluding employer aid)							
Before imputation							
Mean percent relative bias across characteristics	13.98	5.50	14.52	11.64	12.61	11.99	18.94
Median percent relative bias across characteristics	6.61	5.08	8.57	5.10	8.06	6.98	7.91
Percentage of characteristics with significant bias	34.74	0.00	14.49	21.95	29.69	27.50	20.25
Median effect size	0.06	0.11	0.11	0.06	0.14	0.09	0.12
After imputation							
Difference between pre- and postimputation means	5.73*	‡	13.94	4.61	5.57	9.28	3.40
Effect size for difference	0.02	‡	0.04	0.02	0.02	0.04	0.01

See notes at end of table.

**Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution:
2019–20—Continued**

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate- granting, primarily subbaccalaureate	4-year, non-doctorate- granting, primarily baccalaureate	4-year, doctorate- granting	4-year, non- doctorate- granting	4-year, doctorate- granting	
TOTLOAN (Total loans [excluding Parent PLUS Loans])							
Before imputation							
Mean percent relative bias across characteristics	15.39	‡	7.68	6.51	7.44	8.12	10.11
Median percent relative bias across characteristics	7.99	‡	2.34	1.99	2.83	2.72	2.85
Percentage of characteristics with significant bias	50.00	‡	8.57	26.39	5.88	16.22	1.82
Median effect size	0.09	‡	0.03	0.02	0.04	0.03	0.04
After imputation							
Difference between pre- and postimputation means	0.64	‡	2.97	0.32	2.54	0.29	1.79
Effect size for difference	#	‡	0.02	#	0.02	#	0.01
TOTLOAN3 (Total loans excluding private loans)							
Before imputation							
Mean percent relative bias across characteristics	14.97	27.57	16.86	14.12	15.03	15.36	18.35
Median percent relative bias across characteristics	7.80	0.19	9.86	6.13	8.25	10.14	8.01
Percentage of characteristics with significant bias	50.53	33.33	36.76	44.05	34.38	38.75	20.51
Median effect size	0.09	0.02	0.12	0.07	0.15	0.12	0.12
After imputation							
Difference between pre- and postimputation means	0.98	‡	5.39	0.23	0.05	0.99	1.61
Effect size for difference	0.01	‡	0.03	#	#	0.01	0.01
TOTWKST (Total work-study)							
Before imputation							
Mean percent relative bias across characteristics	14.98	28.13	16.82	14.22	15.07	15.37	18.35
Median percent relative bias across characteristics	7.93	0.18	9.79	6.68	8.17	10.13	7.77
Percentage of characteristics with significant bias	51.58	33.33	36.76	42.86	34.38	37.50	19.23
Median effect size	0.09	0.02	0.12	0.07	0.15	0.12	0.12
After imputation							
Difference between pre- and postimputation means	10.71*	‡	10.19	6.68*	20.05	14.40*	10.15
Effect size for difference	0.01	‡	0.01	0.01	0.01	0.02	0.01

See notes at end of table.

**Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution:
2019–20—Continued**

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
UNSBLOAN (Total unsubsidized loans [all sources])							
Before imputation							
Mean percent relative bias across characteristics	15.39	16.06	16.64	14.51	15.25	16.67	18.82
Median percent relative bias across characteristics	7.99	3.96	9.64	6.36	8.81	10.24	8.31
Percentage of characteristics with significant bias	50.00	16.67	36.76	41.18	35.94	37.35	20.51
Median effect size	0.09	0.11	0.12	0.07	0.16	0.11	0.12
After imputation							
Difference between pre- and postimputation means	0.64	‡	2.97	0.32	2.54	0.29	1.79
Effect size for difference	#	‡	0.02	#	0.02	#	0.01
USBORN (Born in the U.S. [student])							
Before imputation							
Mean percent relative bias across characteristics	12.42	0.89	15.47	12.15	13.47	13.23	15.22
Median percent relative bias across characteristics	6.55	0.73	9.62	6.40	5.96	8.28	6.83
Percentage of characteristics with significant bias	48.45	0.00	38.57	35.29	34.33	38.55	20.00
Median effect size	0.07	0.05	0.12	0.05	0.12	0.10	0.10
After imputation							
Difference between pre- and postimputation means	2.11*	‡	1.38	1.95*	0.74	2.68*	0.42
Effect size for difference	0.02	‡	‡	0.02	‡	0.03	0.01
USEIDR (Likelihood of using income-driven student loan repayment plans)							
Before imputation							
Mean percent relative bias across characteristics	43.48	‡	51.83	55.18	43.18	52.25	40.42
Median percent relative bias across characteristics	35.90	‡	40.30	45.40	32.12	43.26	29.81
Percentage of characteristics with significant bias	54.35	‡	46.97	51.22	44.62	51.85	24.05
Median effect size	0.47	‡	0.72	0.50	0.61	0.57	0.25
After imputation							
Difference between pre- and postimputation means	2.96	‡	10.30	3.71	0.91	6.08	3.40
Effect size for difference	0.04	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
USELFP (Likelihood of using loan forgiveness program)							
Before imputation							
Mean percent relative bias across characteristics	43.72	‡	51.35	55.21	47.59	50.84	38.22
Median percent relative bias across characteristics	33.92	‡	43.00	46.01	38.21	34.93	23.78
Percentage of characteristics with significant bias	52.17	‡	46.27	51.81	42.42	46.91	18.99
Median effect size	0.45	‡	0.73	0.47	0.59	0.58	0.27
After imputation							
Difference between pre- and postimputation means	5.43*	‡	2.78	8.77*	13.80	4.55	5.96
Effect size for difference	0.06	‡	‡	0.11	‡	0.06	0.07
VADODAMT (Federal veterans benefits and Department of Defense)							
Before imputation							
Mean percent relative bias across characteristics	15.66	18.95	18.74	15.18	15.07	16.36	18.96
Median percent relative bias across characteristics	7.95	3.46	9.73	6.09	8.25	10.22	8.05
Percentage of characteristics with significant bias	47.92	16.67	39.13	43.53	34.38	38.27	19.23
Median effect size	0.09	0.11	0.12	0.07	0.15	0.12	0.12
After imputation							
Difference between pre- and postimputation means	1.00	‡	8.57	5.85*	2.91	3.24	9.08
Effect size for difference	#	‡	0.01	0.01	#	#	0.01
VADODAMT2 (Federal veterans benefits [excluding housing] and DOD)							
Before imputation							
Mean percent relative bias across characteristics	15.66	18.95	18.74	15.18	15.07	16.36	18.96
Median percent relative bias across characteristics	7.95	3.46	9.73	6.09	8.25	10.22	8.05
Percentage of characteristics with significant bias	47.92	16.67	39.13	43.53	34.38	38.27	19.23
Median effect size	0.09	0.11	0.12	0.07	0.15	0.12	0.12
After imputation							
Difference between pre- and postimputation means	3.04	‡	10.07	6.53*	0.77	0.08	9.95
Effect size for difference	#	‡	0.01	0.01	#	#	0.01

See notes at end of table.

Table M-128. Summary of graduate student item nonresponse bias analysis, by selected variables and control and level of institution: 2019–20—Continued

Variable	All students	Public			Private nonprofit		Private for-profit 4-year
		4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	4-year, non-doctorate-granting	4-year, doctorate-granting	
VETTOT (Total federal and nonfederal veterans education benefits)							
Before imputation							
Mean percent relative bias across characteristics	14.98	27.22	16.86	14.24	15.03	15.33	18.35
Median percent relative bias across characteristics	8.00	0.21	9.86	6.77	8.25	10.09	8.01
Percentage of characteristics with significant bias	51.58	33.33	36.76	42.86	34.38	37.50	20.51
Median effect size	0.09	0.02	0.12	0.07	0.15	0.12	0.12
After imputation							
Difference between pre- and postimputation means	0.87	‡	10.00	5.42*	2.98	3.67	9.18
Effect size for difference	#	‡	0.01	0.01	#	#	0.01
WORKPCT (Ratio of work-study to total aid)							
Before imputation							
Mean percent relative bias across characteristics	17.18	13.10	21.21	15.41	17.72	17.98	21.07
Median percent relative bias across characteristics	13.20	6.66	14.18	8.93	15.30	14.24	12.44
Percentage of characteristics with significant bias	51.06	25.00	21.74	41.46	39.06	39.51	25.97
Median effect size	0.16	0.14	0.18	0.10	0.23	0.19	0.22
After imputation							
Difference between pre- and postimputation means	2.35	‡	13.07	11.94	14.64	3.65	6.68
Effect size for difference	#	‡	0.01	0.01	0.01	#	0.01

Rounds to zero.

‡ Reporting standards not met (fewer than 30 nonrespondents).

* $p < .05$. The difference between the pre- and postimputation means was significant at the 0.05 level. For categorical variables, at least one category difference was significant.

NOTE: DOD = Department of Defense; TANF = Temporary Assistance for Needy Families; WIC = Special Supplemental Nutrition Program for Women, Infants, and Children. Relative bias and effect size are calculated using the weighted differences between respondent and full-sample means. Relative bias is defined as the ratio of estimated bias to the weighted full-sample mean. Effect size for categorical variables was calculated as the square root of the sum over categories of the squared differences over full-sample means. For categorical variables, the difference between pre- and postimputation means was calculated as the size-weighted average difference between pre- and postimputation percentages across categories. Variables and characteristics that did not meet reporting standards were excluded from calculation of summary statistics.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Appendix N. Design Effects

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Table N-1. Design effects for all undergraduate survey students, by variable: 2019–20

Variable	Defined as	Percent estimate	Design standard error	Simple random sample standard error	DEFT ¹	DEFF ²
Received any aid	TOTAID>0	71.55	0.25	0.16	1.56	2.44
Received any federal aid	TFEDAID>0	54.99	0.12	0.18	0.69	0.48
Received any state grant aid	STGTAMT>0	22.52	0.25	0.15	1.70	2.89
Received any institution grant aid	INGRTAMT>0	27.48	0.49	0.16	3.10	9.60
Received any work-study aid	TOTWKST>0	4.98	0.18	0.08	2.37	5.64
Received a Pell Grant	PELLAMT>0	40.22	#	0.17	0.03	#
Received a Direct Loan	STAFFAMT>0	34.33	0.09	0.17	0.52	0.27
Subsidized	STAFSUB>0	28.89	0.02	0.16	0.12	0.01
Unsubsidized	STAFUNSB>0	28.88	0.03	0.16	0.17	0.03
Married	SMARITAL=2	14.11	0.33	0.12	2.73	7.43
U.S. citizen	CITIZEN2=1	93.12	0.16	0.09	1.75	3.06
Enrolled exclusively full time	ATTNPTRN=1	50.90	0.45	0.18	2.54	6.47
Enrolled part time or part year	ATTNSTAT in (3, 4, 5, 6)	58.18	0.30	0.17	1.70	2.90
Received any employer aid	EMPLYAM3>0	4.85	0.14	0.08	1.80	3.24
Worked while in school	JOBENR in (2, 3)	71.07	0.29	0.16	1.82	3.30
Worked full time while in school	JOBENR=3	40.63	0.39	0.17	2.23	4.99
Worked part time while in school	JOBENR=2	30.45	0.27	0.16	1.67	2.79
Enrolled in a bachelor's degree program	UGDEG=3	53.43	0.27	0.18	1.54	2.37
Has a disability	DISABLE=1	20.62	0.24	0.14	1.70	2.90
Attended more than one institution in 2019–20	STUDMULT>1	11.40	0.25	0.11	2.20	4.84
Has dependents other than a spouse	DEPANY=1	19.45	0.38	0.14	2.70	7.31
U.S. Armed Forces veteran	VETERAN=1	3.71	0.11	0.07	1.65	2.71
Experienced homelessness: Previous 30 days	HOMELESS3=1	7.97	0.15	0.10	1.55	2.40
Low or very low food security: Previous 30 days	FOODSEC in (3, 4)	22.55	0.24	0.15	1.64	2.69
Summary statistics						
Minimum		†	†	†	0.03	#
25th percentile		†	†	†	1.55	2.39
Median		†	†	†	1.70	2.89
75th percentile		†	†	†	2.22	4.91
Maximum		†	†	†	3.10	9.60

† Not applicable.

Rounds to zero.

¹ DEFT is the square root of DEFF and can also be defined as the ratio of the design-based standard error over the standard error that would have been obtained from a simple random sample of the same size (if that were practical).² DEFF is the survey design effect for a statistic and is defined as the ratio of the design-based variance estimate over the variance estimate that would have been obtained from a simple random sample of the same size (if that were practical).

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table N-2. Design effects for undergraduate survey students at public less-than-2-year institutions, by variable: 2019–20

Variable	Defined as	Percent estimate	Design standard error	Simple random sample standard error	DEFT ¹	DEFF ²
Received any aid	TOTAID>0	56.36	6.14	1.93	3.19	10.15
Received any federal aid	TFEDAID>0	44.12	7.86	1.93	4.08	16.62
Received any state grant aid	STGTAMT>0	3.65	1.97	0.73	2.70	7.31
Received any institution grant aid	INGRTAMT>0	9.28	4.43	1.13	3.93	15.47
Received any work-study aid	TOTWKST>0	0.09	0.11	0.11	0.98	0.96
Received a Pell Grant	PELLAMT>0	29.14	0.37	1.76	0.21	0.04
Received a Direct Loan	STAFFAMT>0	16.18	4.41	1.43	3.08	9.52
Subsidized	STAFSUB>0	11.36	2.99	1.23	2.43	5.90
Unsubsidized	STAFUNSB>0	13.32	3.39	1.32	2.57	6.60
Married	SMARITAL=2	23.77	3.94	1.65	2.38	5.67
U.S. citizen	CITIZEN2=1	90.55	4.50	1.14	3.97	15.73
Enrolled exclusively full time	ATTNPTRN=1	80.88	6.73	1.53	4.40	19.39
Enrolled part time or part year	ATTNSTAT in (3, 4, 5, 6)	58.79	9.15	1.91	4.79	22.92
Received any employer aid	EMPLYAM3>0	4.35	1.54	0.79	1.94	3.77
Worked while in school	JOBENR in (2, 3)	66.25	5.82	1.84	3.17	10.06
Worked full time while in school	JOBENR=3	40.84	5.79	1.91	3.03	9.21
Worked part time while in school	JOBENR=2	25.41	3.93	1.69	2.32	5.40
Enrolled in a bachelor's degree program	UGDEG=3	†	†	†	†	†
Has a disability	DISABLE=1	28.00	4.03	1.74	2.31	5.34
Attended more than one institution in 2019–20	STUDMULT>1	5.09	3.33	0.85	3.90	15.20
Has dependents other than a spouse	DEPANY=1	28.02	4.24	1.74	2.43	5.92
U.S. Armed Forces veteran	VETERAN=1	6.29	2.67	0.94	2.83	8.02
Experienced homelessness: Previous 30 days	HOMELESS3=1	10.17	3.23	1.17	2.76	7.59
Low or very low food security: Previous 30 days	FOODSEC in (3, 4)	18.32	4.49	1.50	2.99	8.93
Summary statistics						
Minimum		†	†	†	0.21	0.04
25th percentile		†	†	†	2.38	5.67
Median		†	†	†	2.83	8.02
75th percentile		†	†	†	3.90	15.20
Maximum		†	†	†	4.79	22.92

† Not applicable.

Rounds to zero.

¹ DEFT is the square root of DEFF and can also be defined as the ratio of the design-based standard error over the standard error that would have been obtained from a simple random sample of the same size (if that were practical).² DEFF is the survey design effect for a statistic and is defined as the ratio of the design-based variance estimate over the variance estimate that would have been obtained from a simple random sample of the same size (if that were practical).

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table N-3. Design effects for undergraduate survey students at public 2-year institutions, by variable: 2019–20

Variable	Defined as	Percent estimate	Design standard error	Simple random sample standard error	DEFT ¹	DEFF ²
Received any aid	TOTAID>0	56.62	0.63	0.31	2.04	4.14
Received any federal aid	TFEDAID>0	41.52	0.13	0.31	0.42	0.17
Received any state grant aid	STGTAMT>0	21.93	0.50	0.26	1.96	3.84
Received any institution grant aid	INGRTAMT>0	8.34	0.99	0.17	5.79	33.57
Received any work-study aid	TOTWKST>0	1.44	0.15	0.07	1.98	3.92
Received a Pell Grant	PELLAMT>0	36.27	#	0.30	#	#
Received a Direct Loan	STAFFAMT>0	12.17	0.08	0.20	0.38	0.14
Subsidized	STAFSUB>0	9.83	#	0.18	#	#
Unsubsidized	STAFUNSB>0	8.85	0.01	0.18	0.08	0.01
Married	SMARITAL=2	17.49	0.57	0.24	2.41	5.83
U.S. citizen	CITIZEN2=1	92.33	0.26	0.17	1.55	2.40
Enrolled exclusively full time	ATTNPTRN=1	32.02	0.66	0.29	2.27	5.14
Enrolled part time or part year	ATTNSTAT in (3, 4, 5, 6)	78.16	0.31	0.26	1.21	1.47
Received any employer aid	EMPLYAM3>0	4.21	0.23	0.12	1.86	3.47
Worked while in school	JOBENR in (2, 3)	73.58	0.44	0.27	1.62	2.63
Worked full time while in school	JOBENR=3	45.76	0.59	0.31	1.92	3.68
Worked part time while in school	JOBENR=2	27.82	0.37	0.28	1.33	1.77
Enrolled in a bachelor's degree program	UGDEG=3	†	†	†	†	†
Has a disability	DISABLE=1	23.01	0.44	0.26	1.69	2.86
Attended more than one institution in 2019–20	STUDMULT>1	10.90	0.27	0.19	1.38	1.92
Has dependents other than a spouse	DEPANY=1	24.29	0.70	0.27	2.63	6.94
U.S. Armed Forces veteran	VETERAN=1	4.20	0.17	0.12	1.38	1.92
Experienced homelessness: Previous 30 days	HOMELESS3=1	7.92	0.26	0.17	1.56	2.43
Low or very low food security: Previous 30 days	FOODSEC in (3, 4)	23.06	0.39	0.26	1.47	2.18
Summary statistics						
Minimum		†	†	†	#	#
25th percentile		†	†	†	1.21	1.47
Median		†	†	†	1.56	2.43
75th percentile		†	†	†	1.98	3.92
Maximum		†	†	†	5.79	33.57

† Not applicable.

Rounds to zero.

¹ DEFT is the square root of DEFF and can also be defined as the ratio of the design-based standard error over the standard error that would have been obtained from a simple random sample of the same size (if that were practical).² DEFF is the survey design effect for a statistic and is defined as the ratio of the design-based variance estimate over the variance estimate that would have been obtained from a simple random sample of the same size (if that were practical).

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table N-4. Design effects for undergraduate survey students at public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions, by variable: 2019–20

Variable	Defined as	Percent estimate	Design standard error	Simple random sample standard error	DEFT ¹	DEFF ²
Received any aid	TOTAID>0	55.52	0.80	0.70	1.13	1.29
Received any federal aid	TFEDAID>0	40.91	0.34	0.69	0.49	0.24
Received any state grant aid	STGTAMT>0	19.55	0.81	0.56	1.44	2.08
Received any institution grant aid	INGRTAMT>0	8.21	0.48	0.39	1.24	1.55
Received any work-study aid	TOTWKST>0	1.44	0.18	0.17	1.10	1.20
Received a Pell Grant	PELLAMT>0	35.13	#	0.67	#	#
Received a Direct Loan	STAFFAMT>0	13.06	0.18	0.48	0.39	0.15
Subsidized	STAFSUB>0	10.88	#	0.44	#	#
Unsubsidized	STAFUNSB>0	9.12	#	0.41	0.01	#
Married	SMARITAL=2	15.52	0.97	0.51	1.89	3.58
U.S. citizen	CITIZEN2=1	91.64	0.84	0.39	2.14	4.59
Enrolled exclusively full time	ATTNPTRN=1	30.27	1.04	0.65	1.60	2.55
Enrolled part time or part year	ATTNSTAT in (3, 4, 5, 6)	77.82	0.74	0.59	1.27	1.61
Received any employer aid	EMPLYAM3>0	4.20	0.43	0.28	1.50	2.26
Worked while in school	JOBENR in (2, 3)	73.46	1.17	0.62	1.88	3.54
Worked full time while in school	JOBENR=3	47.00	1.05	0.70	1.49	2.23
Worked part time while in school	JOBENR=2	26.47	1.11	0.62	1.78	3.18
Enrolled in a bachelor's degree program	UGDEG=3	19.93	0.80	0.56	1.42	2.01
Has a disability	DISABLE=1	20.83	0.95	0.57	1.66	2.77
Attended more than one institution in 2019–20	STUDMULT>1	9.80	0.59	0.42	1.39	1.94
Has dependents other than a spouse	DEPANY=1	21.39	1.06	0.58	1.83	3.36
U.S. Armed Forces veteran	VETERAN=1	4.18	0.30	0.28	1.08	1.16
Experienced homelessness: Previous 30 days	HOMELESS3=1	8.39	0.74	0.39	1.89	3.55
Low or very low food security: Previous 30 days	FOODSEC in (3, 4)	24.81	0.90	0.61	1.48	2.18
Summary statistics						
Minimum		†	†	†	#	#
25th percentile		†	†	†	1.09	1.18
Median		†	†	†	1.43	2.05
75th percentile		†	†	†	1.72	2.97
Maximum		†	†	†	2.14	4.59

† Not applicable.

Rounds to zero.

¹ DEFT is the square root of DEFF and can also be defined as the ratio of the design-based standard error over the standard error that would have been obtained from a simple random sample of the same size (if that were practical).² DEFF is the survey design effect for a statistic and is defined as the ratio of the design-based variance estimate over the variance estimate that would have been obtained from a simple random sample of the same size (if that were practical).

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table N-5. Design effects for undergraduate survey students at public 4-year, non-doctorate-granting, primarily baccalaureate institutions, by variable: 2019–20

Variable	Defined as	Percent estimate	Design standard error	Simple random sample standard error	DEFT ¹	DEFF ²
Received any aid	TOTAID>0	79.40	0.62	0.54	1.14	1.31
Received any federal aid	TFEDAID>0	62.86	0.49	0.64	0.76	0.57
Received any state grant aid	STGTAMT>0	30.60	0.66	0.61	1.08	1.17
Received any institution grant aid	INGRTAMT>0	30.80	0.84	0.61	1.37	1.87
Received any work-study aid	TOTWKST>0	4.78	0.39	0.28	1.36	1.86
Received a Pell Grant	PELLAMT>0	43.55	#	0.66	#	#
Received a Direct Loan	STAFFAMT>0	42.68	0.29	0.66	0.44	0.19
Subsidized	STAFSUB>0	35.35	#	0.64	#	#
Unsubsidized	STAFUNSB>0	35.20	0.04	0.64	0.07	#
Married	SMARITAL=2	12.29	0.68	0.44	1.55	2.40
U.S. citizen	CITIZEN2=1	94.56	0.42	0.30	1.39	1.94
Enrolled exclusively full time	ATTNPTRN=1	60.53	1.06	0.65	1.62	2.64
Enrolled part time or part year	ATTNSTAT in (3, 4, 5, 6)	47.21	0.76	0.66	1.14	1.29
Received any employer aid	EMPLYAM3>0	4.79	0.46	0.28	1.64	2.68
Worked while in school	JOBENR in (2, 3)	72.40	0.71	0.59	1.20	1.44
Worked full time while in school	JOBENR=3	37.36	0.95	0.64	1.48	2.18
Worked part time while in school	JOBENR=2	35.04	0.90	0.63	1.43	2.03
Enrolled in a bachelor's degree program	UGDEG=3	94.91	0.42	0.29	1.43	2.04
Has a disability	DISABLE=1	20.20	0.98	0.53	1.83	3.34
Attended more than one institution in 2019–20	STUDMULT>1	10.96	0.40	0.42	0.97	0.93
Has dependents other than a spouse	DEPANY=1	13.62	0.74	0.46	1.63	2.66
U.S. Armed Forces veteran	VETERAN=1	3.14	0.39	0.23	1.67	2.79
Experienced homelessness: Previous 30 days	HOMELESS3=1	6.88	0.52	0.34	1.55	2.41
Low or very low food security: Previous 30 days	FOODSEC in (3, 4)	20.57	0.82	0.54	1.52	2.32
Summary statistics						
Minimum		†	†	†	#	#
25th percentile		†	†	†	1.02	1.05
Median		†	†	†	1.38	1.90
75th percentile		†	†	†	1.55	2.41
Maximum		†	†	†	1.83	3.34

† Not applicable.

Rounds to zero.

¹ DEFT is the square root of DEFF and can also be defined as the ratio of the design-based standard error over the standard error that would have been obtained from a simple random sample of the same size (if that were practical).² DEFF is the survey design effect for a statistic and is defined as the ratio of the design-based variance estimate over the variance estimate that would have been obtained from a simple random sample of the same size (if that were practical).

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table N-6. Design effects for undergraduate survey students at public 4-year, doctorate-granting institutions, by variable: 2019–20

Variable	Defined as	Percent estimate	Design standard error	Simple random sample standard error	DEFT ¹	DEFF ²
Received any aid	TOTAID>0	79.93	0.34	0.31	1.11	1.23
Received any federal aid	TFEDAID>0	61.17	0.23	0.37	0.63	0.39
Received any state grant aid	STGTAMT>0	30.18	0.48	0.35	1.38	1.89
Received any institution grant aid	INGRTAMT>0	40.71	0.66	0.37	1.76	3.10
Received any work-study aid	TOTWKST>0	5.23	0.27	0.17	1.56	2.44
Received a Pell Grant	PELLAMT>0	39.49	#	0.37	#	#
Received a Direct Loan	STAFFAMT>0	45.72	0.17	0.38	0.44	0.20
Subsidized	STAFSUB>0	37.39	#	0.37	#	#
Unsubsidized	STAFUNSB>0	37.69	0.05	0.37	0.12	0.01
Married	SMARITAL=2	7.95	0.30	0.21	1.47	2.15
U.S. citizen	CITIZEN2=1	93.94	0.22	0.18	1.23	1.52
Enrolled exclusively full time	ATTNPTRN=1	59.91	0.64	0.37	1.70	2.90
Enrolled part time or part year	ATTNSTAT in (3, 4, 5, 6)	38.54	0.48	0.37	1.29	1.65
Received any employer aid	EMPLYAM3>0	3.93	0.20	0.15	1.38	1.91
Worked while in school	JOBENR in (2, 3)	70.78	0.41	0.35	1.20	1.43
Worked full time while in school	JOBENR=3	33.94	0.48	0.36	1.32	1.75
Worked part time while in school	JOBENR=2	36.84	0.47	0.37	1.27	1.62
Enrolled in a bachelor's degree program	UGDEG=3	97.73	0.20	0.11	1.75	3.06
Has a disability	DISABLE=1	18.23	0.36	0.29	1.21	1.47
Attended more than one institution in 2019–20	STUDMULT>1	11.44	0.29	0.24	1.20	1.44
Has dependents other than a spouse	DEPANY=1	8.66	0.31	0.21	1.46	2.15
U.S. Armed Forces veteran	VETERAN=1	2.47	0.17	0.12	1.46	2.12
Experienced homelessness: Previous 30 days	HOMELESS3=1	7.43	0.26	0.20	1.28	1.64
Low or very low food security: Previous 30 days	FOODSEC in (3, 4)	20.98	0.44	0.31	1.43	2.03
Summary statistics						
Minimum		†	†	†	#	#
25th percentile		†	†	†	1.15	1.33
Median		†	†	†	1.28	1.65
75th percentile		†	†	†	1.46	2.13
Maximum		†	†	†	1.76	3.10

† Not applicable.

Rounds to zero.

¹ DEFT is the square root of DEFF and can also be defined as the ratio of the design-based standard error over the standard error that would have been obtained from a simple random sample of the same size (if that were practical).² DEFF is the survey design effect for a statistic and is defined as the ratio of the design-based variance estimate over the variance estimate that would have been obtained from a simple random sample of the same size (if that were practical).

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table N-7. Design effects for undergraduate survey students at private nonprofit less-than-2-year institutions, by variable: 2019–20

Variable	Defined as	Percent estimate	Design standard error	Simple random sample standard error	DEFT ¹	DEFF ²
Received any aid	TOTAID>0	94.73	1.70	0.88	1.93	3.74
Received any federal aid	TFEDAID>0	91.44	2.58	1.10	2.35	5.51
Received any state grant aid	STGTAMT>0	27.58	14.22	1.76	8.10	65.62
Received any institution grant aid	INGRTAMT>0	11.62	9.56	1.26	7.59	57.61
Received any work-study aid	TOTWKST>0	0.14	0.15	0.15	0.99	0.99
Received a Pell Grant	PELLAMT>0	83.07	4.82	1.47	3.27	10.70
Received a Direct Loan	STAFFAMT>0	73.43	5.14	1.74	2.96	8.79
Subsidized	STAFSUB>0	69.87	5.39	1.80	2.99	8.94
Unsubsidized	STAFUNSB>0	71.78	4.93	1.77	2.79	7.77
Married	SMARITAL=2	15.60	4.43	1.43	3.11	9.67
U.S. citizen	CITIZEN2=1	92.16	4.33	1.06	4.10	16.84
Enrolled exclusively full time	ATTNPTRN=1	69.91	9.74	1.80	5.41	29.22
Enrolled part time or part year	ATTNSTAT in (3, 4, 5, 6)	62.17	10.10	1.91	5.30	28.08
Received any employer aid	EMPLYAM3>0	3.67	1.43	0.74	1.94	3.75
Worked while in school	JOBENR in (2, 3)	66.63	8.39	1.85	4.53	20.51
Worked full time while in school	JOBENR=3	41.03	11.66	1.93	6.03	36.41
Worked part time while in school	JOBENR=2	25.60	8.53	1.71	4.98	24.78
Enrolled in a bachelor's degree program	UGDEG=3	†	†	†	†	†
Has a disability	DISABLE=1	19.28	5.35	1.55	3.45	11.93
Attended more than one institution in 2019–20	STUDMULT>1	22.89	13.82	1.65	8.37	70.09
Has dependents other than a spouse	DEPANY=1	39.02	8.58	1.92	4.48	20.07
U.S. Armed Forces veteran	VETERAN=1	8.34	4.00	1.09	3.69	13.59
Experienced homelessness: Previous 30 days	HOMELESS3=1	11.93	6.16	1.27	4.83	23.37
Low or very low food security: Previous 30 days	FOODSEC in (3, 4)	26.66	8.19	1.74	4.72	22.25
Summary statistics						
Minimum		†	†	†	0.99	0.99
25th percentile		†	†	†	2.96	8.79
Median		†	†	†	4.10	16.84
75th percentile		†	†	†	5.30	28.08
Maximum		†	†	†	8.37	70.09

† Not applicable.

¹ DEFT is the square root of DEFF and can also be defined as the ratio of the design-based standard error over the standard error that would have been obtained from a simple random sample of the same size (if that were practical).² DEFF is the survey design effect for a statistic and is defined as the ratio of the design-based variance estimate over the variance estimate that would have been obtained from a simple random sample of the same size (if that were practical).

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table N-8. Design effects for undergraduate survey students at private nonprofit 4-year, non-doctorate-granting institutions, by variable: 2019–20

Variable	Defined as	Percent estimate	Design standard error	Simple random sample standard error	DEFT ¹	DEFF ²
Received any aid	TOTAID>0	85.36	0.93	0.45	2.09	4.35
Received any federal aid	TFEDAID>0	66.98	0.57	0.60	0.95	0.90
Received any state grant aid	STGTAMT>0	19.38	1.32	0.50	2.63	6.90
Received any institution grant aid	INGRTAMT>0	55.90	4.03	0.63	6.42	41.16
Received any work-study aid	TOTWKST>0	17.32	1.89	0.48	3.94	15.53
Received a Pell Grant	PELLAMT>0	41.16	0.31	0.62	0.50	0.25
Received a Direct Loan	STAFFAMT>0	53.82	0.42	0.63	0.67	0.45
Subsidized	STAFSUB>0	45.45	#	0.63	#	#
Unsubsidized	STAFUNSB>0	47.33	0.04	0.63	0.06	#
Married	SMARITAL=2	17.08	3.01	0.48	6.31	39.86
U.S. citizen	CITIZEN2=1	92.31	0.56	0.34	1.66	2.77
Enrolled exclusively full time	ATTNPTRN=1	72.36	2.96	0.57	5.22	27.25
Enrolled part time or part year	ATTNSTAT in (3, 4, 5, 6)	41.57	1.96	0.62	3.14	9.87
Received any employer aid	EMPLYAM3>0	6.22	0.77	0.31	2.50	6.27
Worked while in school	JOBENR in (2, 3)	67.49	1.86	0.59	3.13	9.80
Worked full time while in school	JOBENR=3	37.69	3.35	0.61	5.45	29.74
Worked part time while in school	JOBENR=2	29.80	1.94	0.58	3.35	11.25
Enrolled in a bachelor's degree program	UGDEG=3	89.31	2.81	0.39	7.18	51.53
Has a disability	DISABLE=1	21.01	0.81	0.52	1.57	2.45
Attended more than one institution in 2019–20	STUDMULT>1	8.60	1.09	0.36	3.06	9.34
Has dependents other than a spouse	DEPANY=1	18.32	2.90	0.49	5.93	35.13
U.S. Armed Forces veteran	VETERAN=1	3.00	0.77	0.22	3.56	12.67
Experienced homelessness: Previous 30 days	HOMELESS3=1	8.96	0.58	0.36	1.61	2.60
Low or very low food security: Previous 30 days	FOODSEC in (3, 4)	20.07	0.94	0.51	1.85	3.42
Summary statistics						
Minimum		†	†	†	#	#
25th percentile		†	†	†	1.59	2.53
Median		†	†	†	2.84	8.12
75th percentile		†	†	†	4.58	21.39
Maximum		†	†	†	7.18	51.53

† Not applicable.

Rounds to zero.

¹ DEFT is the square root of DEFF and can also be defined as the ratio of the design-based standard error over the standard error that would have been obtained from a simple random sample of the same size (if that were practical).² DEFF is the survey design effect for a statistic and is defined as the ratio of the design-based variance estimate over the variance estimate that would have been obtained from a simple random sample of the same size (if that were practical).

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table N-9. Design effects for undergraduate survey students at private nonprofit 4-year, doctorate-granting institutions, by variable: 2019–20

Variable	Defined as	Percent estimate	Design standard error	Simple random sample standard error	DEFT ¹	DEFF ²
Received any aid	TOTAID>0	82.86	0.80	0.43	1.86	3.45
Received any federal aid	TFEDAID>0	61.41	0.63	0.56	1.13	1.28
Received any state grant aid	STGTAMT>0	17.23	0.83	0.43	1.93	3.72
Received any institution grant aid	INGRTAMT>0	56.76	1.40	0.57	2.47	6.12
Received any work-study aid	TOTWKST>0	14.73	0.81	0.41	1.99	3.95
Received a Pell Grant	PELLAMT>0	34.11	#	0.54	#	#
Received a Direct Loan	STAFFAMT>0	50.94	0.39	0.57	0.69	0.48
Subsidized	STAFSUB>0	43.47	#	0.57	#	#
Unsubsidized	STAFUNSB>0	44.59	0.11	0.57	0.20	0.04
Married	SMARITAL=2	10.57	0.91	0.35	2.57	6.62
U.S. citizen	CITIZEN2=1	93.00	0.48	0.29	1.63	2.65
Enrolled exclusively full time	ATTNPTRN=1	69.65	1.09	0.53	2.07	4.27
Enrolled part time or part year	ATTNSTAT in (3, 4, 5, 6)	36.38	0.93	0.55	1.69	2.87
Received any employer aid	EMPLYAM3>0	6.62	0.47	0.28	1.64	2.69
Worked while in school	JOBENR in (2, 3)	67.24	0.92	0.54	1.71	2.93
Worked full time while in school	JOBENR=3	35.42	0.95	0.55	1.73	2.98
Worked part time while in school	JOBENR=2	31.83	0.82	0.53	1.53	2.33
Enrolled in a bachelor's degree program	UGDEG=3	95.73	0.81	0.23	3.48	12.09
Has a disability	DISABLE=1	17.86	0.67	0.44	1.52	2.31
Attended more than one institution in 2019–20	STUDMULT>1	8.57	0.48	0.32	1.48	2.20
Has dependents other than a spouse	DEPANY=1	12.65	0.79	0.38	2.07	4.27
U.S. Armed Forces veteran	VETERAN=1	2.97	0.46	0.19	2.37	5.63
Experienced homelessness: Previous 30 days	HOMELESS3=1	7.00	0.39	0.29	1.33	1.78
Low or very low food security: Previous 30 days	FOODSEC in (3, 4)	18.05	0.80	0.44	1.81	3.27
Summary statistics						
Minimum		†	†	†	#	#
25th percentile		†	†	†	1.41	1.99
Median		†	†	†	1.70	2.90
75th percentile		†	†	†	2.03	4.11
Maximum		†	†	†	3.48	12.09

† Not applicable.

Rounds to zero.

¹ DEFT is the square root of DEFF and can also be defined as the ratio of the design-based standard error over the standard error that would have been obtained from a simple random sample of the same size (if that were practical).² DEFF is the survey design effect for a statistic and is defined as the ratio of the design-based variance estimate over the variance estimate that would have been obtained from a simple random sample of the same size (if that were practical).

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table N-10. Design effects for undergraduate survey students at private for-profit less-than-2-year institutions, by variable: 2019–20

Variable	Defined as	Percent estimate	Design standard error	Simple random sample standard error	DEFT ¹	DEFF ²
Received any aid	TOTAID>0	87.23	0.54	0.67	0.81	0.65
Received any federal aid	TFEDAID>0	84.52	0.44	0.73	0.61	0.37
Received any state grant aid	STGTAMT>0	7.37	2.31	0.53	4.40	19.32
Received any institution grant aid	INGRTAMT>0	7.37	2.13	0.53	4.05	16.38
Received any work-study aid	TOTWKST>0	0.10	0.06	0.07	0.91	0.82
Received a Pell Grant	PELLAMT>0	78.76	#	0.82	#	#
Received a Direct Loan	STAFFAMT>0	63.71	0.40	0.97	0.41	0.17
Subsidized	STAFSUB>0	56.84	#	1.00	#	#
Unsubsidized	STAFUNSB>0	61.14	#	0.98	#	#
Married	SMARITAL=2	14.98	1.18	0.72	1.65	2.71
U.S. citizen	CITIZEN2=1	94.17	1.73	0.47	3.68	13.54
Enrolled exclusively full time	ATTNPTRN=1	77.34	8.55	0.84	10.15	102.96
Enrolled part time or part year	ATTNSTAT in (3, 4, 5, 6)	79.41	2.81	0.81	3.45	11.92
Received any employer aid	EMPLYAM3>0	2.00	0.43	0.28	1.52	2.31
Worked while in school	JOBENR in (2, 3)	59.01	2.62	0.99	2.65	7.02
Worked full time while in school	JOBENR=3	37.68	2.87	0.97	2.94	8.67
Worked part time while in school	JOBENR=2	21.33	1.49	0.82	1.81	3.29
Enrolled in a bachelor's degree program	UGDEG=3	†	†	†	†	†
Has a disability	DISABLE=1	27.20	1.41	0.90	1.58	2.48
Attended more than one institution in 2019–20	STUDMULT>1	24.41	6.19	0.86	7.17	51.34
Has dependents other than a spouse	DEPANY=1	47.23	2.53	1.00	2.52	6.35
U.S. Armed Forces veteran	VETERAN=1	4.05	0.76	0.40	1.92	3.70
Experienced homelessness: Previous 30 days	HOMELESS3=1	14.99	1.35	0.72	1.88	3.54
Low or very low food security: Previous 30 days	FOODSEC in (3, 4)	36.98	1.79	0.97	1.84	3.40
Summary statistics						
Minimum		†	†	†	#	#
25th percentile		†	†	†	0.81	0.65
Median		†	†	†	1.84	3.40
75th percentile		†	†	†	3.45	11.92
Maximum		†	†	†	10.15	102.96

† Not applicable.

Rounds to zero.

¹ DEFT is the square root of DEFF and can also be defined as the ratio of the design-based standard error over the standard error that would have been obtained from a simple random sample of the same size (if that were practical).² DEFF is the survey design effect for a statistic and is defined as the ratio of the design-based variance estimate over the variance estimate that would have been obtained from a simple random sample of the same size (if that were practical).

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table N-11. Design effects for undergraduate survey students at private for-profit 2-year institutions, by variable: 2019–20

Variable	Defined as	Percent estimate	Design standard error	Simple random sample standard error	DEFT ¹	DEFF ²
Received any aid	TOTAID>0	93.13	0.85	0.43	1.97	3.87
Received any federal aid	TFEDAID>0	90.17	0.88	0.51	1.72	2.95
Received any state grant aid	STGTAMT>0	10.09	2.25	0.52	4.34	18.82
Received any institution grant aid	INGRTAMT>0	8.09	2.54	0.47	5.41	29.32
Received any work-study aid	TOTWKST>0	0.19	0.08	0.08	1.00	1.00
Received a Pell Grant	PELLAMT>0	83.42	#	0.64	#	#
Received a Direct Loan	STAFFAMT>0	73.69	0.42	0.76	0.56	0.31
Subsidized	STAFSUB>0	69.22	#	0.79	#	#
Unsubsidized	STAFUNSB>0	71.67	0.02	0.77	0.02	#
Married	SMARITAL=2	15.15	1.06	0.62	1.72	2.95
U.S. citizen	CITIZEN2=1	93.73	2.01	0.42	4.83	23.29
Enrolled exclusively full time	ATTNPTRN=1	73.55	3.93	0.76	5.19	26.96
Enrolled part time or part year	ATTNSTAT in (3, 4, 5, 6)	74.20	2.26	0.75	3.01	9.04
Received any employer aid	EMPLYAM3>0	3.98	0.76	0.34	2.26	5.10
Worked while in school	JOBENR in (2, 3)	61.26	1.67	0.84	2.00	3.99
Worked full time while in school	JOBENR=3	38.32	1.96	0.84	2.35	5.52
Worked part time while in school	JOBENR=2	22.94	2.13	0.72	2.94	8.66
Enrolled in a bachelor's degree program	UGDEG=3	†	†	†	†	†
Has a disability	DISABLE=1	20.66	1.66	0.70	2.39	5.70
Attended more than one institution in 2019–20	STUDMULT>1	38.44	7.51	0.84	8.98	80.63
Has dependents other than a spouse	DEPANY=1	44.02	2.67	0.85	3.13	9.77
U.S. Armed Forces veteran	VETERAN=1	5.17	0.79	0.38	2.07	4.28
Experienced homelessness: Previous 30 days	HOMELESS3=1	12.65	1.39	0.57	2.44	5.93
Low or very low food security: Previous 30 days	FOODSEC in (3, 4)	39.76	2.20	0.84	2.61	6.81
Summary statistics						
Minimum		†	†	†	#	#
25th percentile		†	†	†	1.72	2.95
Median		†	†	†	2.35	5.52
75th percentile		†	†	†	3.13	9.77
Maximum		†	†	†	8.98	80.63

† Not applicable.

Rounds to zero.

¹ DEFT is the square root of DEFF and can also be defined as the ratio of the design-based standard error over the standard error that would have been obtained from a simple random sample of the same size (if that were practical).² DEFF is the survey design effect for a statistic and is defined as the ratio of the design-based variance estimate over the variance estimate that would have been obtained from a simple random sample of the same size (if that were practical).

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table N-12. Design effects for undergraduate survey students at private for-profit 4-year institutions, by variable: 2019–20

Variable	Defined as	Percent estimate	Design standard error	Simple random sample standard error	DEFT ¹	DEFF ²
Received any aid	TOTAID>0	89.10	0.61	0.41	1.51	2.29
Received any federal aid	TFEDAID>0	75.52	0.99	0.56	1.76	3.10
Received any state grant aid	STGTAMT>0	3.47	1.04	0.24	4.34	18.87
Received any institution grant aid	INGRTAMT>0	24.67	3.55	0.56	6.33	40.05
Received any work-study aid	TOTWKST>0	0.78	0.23	0.11	1.99	3.97
Received a Pell Grant	PELLAMT>0	61.45	#	0.63	#	#
Received a Direct Loan	STAFFAMT>0	62.76	0.61	0.63	0.96	0.92
Subsidized	STAFSUB>0	57.60	#	0.64	#	#
Unsubsidized	STAFUNSB>0	58.30	0.26	0.64	0.40	0.16
Married	SMARITAL=2	28.99	1.28	0.59	2.17	4.72
U.S. citizen	CITIZEN2=1	95.72	0.76	0.26	2.87	8.23
Enrolled exclusively full time	ATTNPTRN=1	65.14	3.51	0.62	5.66	32.05
Enrolled part time or part year	ATTNSTAT in (3, 4, 5, 6)	71.61	2.82	0.59	4.79	22.99
Received any employer aid	EMPLYAM3>0	11.21	0.88	0.41	2.14	4.57
Worked while in school	JOBENR in (2, 3)	70.36	1.59	0.59	2.68	7.19
Worked full time while in school	JOBENR=3	53.66	2.66	0.65	4.09	16.72
Worked part time while in school	JOBENR=2	16.70	1.55	0.49	3.19	10.15
Enrolled in a bachelor's degree program	UGDEG=3	73.06	4.04	0.58	6.99	48.82
Has a disability	DISABLE=1	21.30	1.08	0.53	2.02	4.08
Attended more than one institution in 2019–20	STUDMULT>1	15.23	3.30	0.47	7.05	49.74
Has dependents other than a spouse	DEPANY=1	50.37	1.85	0.65	2.84	8.07
U.S. Armed Forces veteran	VETERAN=1	8.78	1.06	0.37	2.87	8.24
Experienced homelessness: Previous 30 days	HOMELESS3=1	8.80	0.62	0.37	1.68	2.84
Low or very low food security: Previous 30 days	FOODSEC in (3, 4)	29.74	1.49	0.60	2.51	6.29
Summary statistics						
Minimum		†	†	†	#	#
25th percentile		†	†	†	1.72	2.97
Median		†	†	†	2.59	6.74
75th percentile		†	†	†	4.22	17.79
Maximum		†	†	†	7.05	49.74

† Not applicable.

Rounds to zero.

¹ DEFT is the square root of DEFF and can also be defined as the ratio of the design-based standard error over the standard error that would have been obtained from a simple random sample of the same size (if that were practical).² DEFF is the survey design effect for a statistic and is defined as the ratio of the design-based variance estimate over the variance estimate that would have been obtained from a simple random sample of the same size (if that were practical).

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table N-13. Design effects for dependent undergraduate survey students, by variable: 2019–20

Variable	Defined as	Percent estimate	Design standard error	Simple random sample standard error	DEFT ¹	DEFF ²
Received any aid	TOTAID>0	74.35	0.30	0.19	1.53	2.34
Received any federal aid	TFEDAID>0	56.22	0.27	0.22	1.23	1.50
Received any state grant aid	STGTAMT>0	27.43	0.31	0.20	1.57	2.47
Received any institution grant aid	INGRTAMT>0	37.05	0.46	0.21	2.13	4.54
Received any work-study aid	TOTWKST>0	7.53	0.27	0.12	2.33	5.42
Received a Pell Grant	PELLAMT>0	36.39	0.24	0.21	1.10	1.21
Received a Direct Loan	STAFFAMT>0	36.01	0.24	0.21	1.11	1.23
Subsidized	STAFSUB>0	28.84	0.20	0.20	0.98	0.96
Unsubsidized	STAFUNSB>0	30.66	0.21	0.20	1.01	1.02
Married	SMARITAL=2	†	†	†	†	†
U.S. citizen	CITIZEN2=1	93.54	0.16	0.11	1.48	2.19
Enrolled exclusively full time	ATTNPTRN=1	61.01	0.41	0.22	1.87	3.51
Enrolled part time or part year	ATTNSTAT in (3, 4, 5, 6)	41.88	0.40	0.22	1.83	3.36
Received any employer aid	EMPLYAM3>0	3.18	0.13	0.08	1.73	2.98
Worked while in school	JOBENR in (2, 3)	68.99	0.29	0.21	1.43	2.03
Worked full time while in school	JOBENR=3	30.42	0.29	0.20	1.43	2.04
Worked part time while in school	JOBENR=2	38.57	0.33	0.22	1.53	2.34
Enrolled in a bachelor's degree program	UGDEG=3	63.78	0.38	0.21	1.80	3.23
Has a disability	DISABLE=1	20.13	0.30	0.18	1.67	2.79
Attended more than one institution in 2019–20	STUDMULT>1	11.12	0.21	0.14	1.54	2.37
Has dependents other than a spouse	DEPANY=1	†	†	†	†	†
U.S. Armed Forces veteran	VETERAN=1	0.10	0.03	0.01	1.77	3.14
Experienced homelessness: Previous 30 days	HOMELESS3=1	7.65	0.18	0.12	1.55	2.40
Low or very low food security: Previous 30 days	FOODSEC in (3, 4)	19.45	0.25	0.18	1.44	2.06
Summary statistics						
Minimum		†	†	†	0.98	0.96
25th percentile		†	†	†	1.43	2.03
Median		†	†	†	1.53	2.35
75th percentile		†	†	†	1.77	3.14
Maximum		†	†	†	2.33	5.42

† Not applicable.

¹ DEFT is the square root of DEFF and can also be defined as the ratio of the design-based standard error over the standard error that would have been obtained from a simple random sample of the same size (if that were practical).² DEFF is the survey design effect for a statistic and is defined as the ratio of the design-based variance estimate over the variance estimate that would have been obtained from a simple random sample of the same size (if that were practical).

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table N-14. Design effects for independent undergraduate survey students, by variable: 2019–20

Variable	Defined as	Percent estimate	Design standard error	Simple random sample standard error	DEFT ¹	DEFF ²
Received any aid	TOTAID>0	67.88	0.48	0.27	1.78	3.15
Received any federal aid	TFEDAID>0	53.40	0.31	0.29	1.07	1.15
Received any state grant aid	STGTAMT>0	16.10	0.39	0.21	1.85	3.42
Received any institution grant aid	INGRTAMT>0	14.99	0.80	0.21	3.87	14.98
Received any work-study aid	TOTWKST>0	1.65	0.12	0.07	1.64	2.68
Received a Pell Grant	PELLAMT>0	45.23	0.34	0.29	1.17	1.36
Received a Direct Loan	STAFFAMT>0	32.14	0.29	0.27	1.07	1.15
Subsidized	STAFSUB>0	28.95	0.26	0.26	1.00	0.99
Unsubsidized	STAFUNSB>0	26.55	0.27	0.26	1.06	1.13
Married	SMARITAL=2	32.55	0.52	0.27	1.91	3.66
U.S. citizen	CITIZEN2=1	92.57	0.28	0.15	1.83	3.37
Enrolled exclusively full time	ATTNPTRN=1	37.70	0.88	0.28	3.14	9.89
Enrolled part time or part year	ATTNSTAT in (3, 4, 5, 6)	79.47	0.54	0.23	2.29	5.25
Received any employer aid	EMPLYAM3>0	7.02	0.23	0.15	1.55	2.42
Worked while in school	JOBENR in (2, 3)	73.80	0.48	0.25	1.89	3.57
Worked full time while in school	JOBENR=3	53.96	0.65	0.29	2.26	5.12
Worked part time while in school	JOBENR=2	19.84	0.38	0.23	1.65	2.71
Enrolled in a bachelor's degree program	UGDEG=3	39.91	0.67	0.28	2.35	5.54
Has a disability	DISABLE=1	21.25	0.40	0.24	1.69	2.86
Attended more than one institution in 2019–20	STUDMULT>1	11.77	0.43	0.19	2.32	5.37
Has dependents other than a spouse	DEPANY=1	44.87	0.55	0.29	1.93	3.71
U.S. Armed Forces veteran	VETERAN=1	8.43	0.23	0.16	1.45	2.09
Experienced homelessness: Previous 30 days	HOMELESS3=1	8.39	0.26	0.16	1.65	2.72
Low or very low food security: Previous 30 days	FOODSEC in (3, 4)	26.60	0.45	0.26	1.77	3.14
Summary statistics						
Minimum		†	†	†	1.00	0.99
25th percentile		†	†	†	1.50	2.25
Median		†	†	†	1.77	3.15
75th percentile		†	†	†	2.09	4.41
Maximum		†	†	†	3.87	14.98

† Not applicable.

¹ DEFT is the square root of DEFF and can also be defined as the ratio of the design-based standard error over the standard error that would have been obtained from a simple random sample of the same size (if that were practical).² DEFF is the survey design effect for a statistic and is defined as the ratio of the design-based variance estimate over the variance estimate that would have been obtained from a simple random sample of the same size (if that were practical).

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table N-15. Design effects for low-income undergraduate survey students, by variable: 2019–20

Variable	Defined as	Percent estimate	Design standard error	Simple random sample standard error	DEFT ¹	DEFF ²
Received any aid	TOTAID>0	80.22	0.50	0.28	1.82	3.31
Received any federal aid	TFEDAID>0	71.32	0.50	0.31	1.60	2.56
Received any state grant aid	STGTAMT>0	32.24	0.54	0.32	1.68	2.81
Received any institution grant aid	INGRTAMT>0	26.03	0.55	0.30	1.83	3.33
Received any work-study aid	TOTWKST>0	6.25	0.28	0.17	1.66	2.75
Received a Pell Grant	PELLAMT>0	69.13	0.50	0.32	1.55	2.40
Received a Direct Loan	STAFFAMT>0	33.88	0.54	0.33	1.64	2.70
Subsidized	STAFSUB>0	32.40	0.51	0.32	1.58	2.49
Unsubsidized	STAFUNSB>0	26.90	0.50	0.31	1.63	2.65
Married	SMARITAL=2	4.36	0.24	0.14	1.67	2.80
U.S. citizen	CITIZEN2=1	90.05	0.33	0.21	1.58	2.49
Enrolled exclusively full time	ATTNPTRN=1	51.13	0.64	0.35	1.85	3.42
Enrolled part time or part year	ATTNSTAT in (3, 4, 5, 6)	62.30	0.51	0.34	1.53	2.33
Received any employer aid	EMPLYAM3>0	2.44	0.19	0.11	1.79	3.21
Worked while in school	JOBENR in (2, 3)	58.09	0.48	0.34	1.40	1.96
Worked full time while in school	JOBENR=3	27.88	0.51	0.31	1.64	2.67
Worked part time while in school	JOBENR=2	30.21	0.50	0.32	1.57	2.46
Enrolled in a bachelor's degree program	UGDEG=3	47.53	0.56	0.35	1.62	2.63
Has a disability	DISABLE=1	25.32	0.53	0.30	1.77	3.12
Attended more than one institution in 2019–20	STUDMULT>1	11.59	0.45	0.22	2.05	4.22
Has dependents other than a spouse	DEPANY=1	13.26	0.40	0.23	1.70	2.90
U.S. Armed Forces veteran	VETERAN=1	2.56	0.19	0.11	1.70	2.90
Experienced homelessness: Previous 30 days	HOMELESS3=1	12.33	0.36	0.23	1.58	2.48
Low or very low food security: Previous 30 days	FOODSEC in (3, 4)	30.74	0.54	0.32	1.71	2.91
Summary statistics						
Minimum		†	†	†	1.40	1.96
25th percentile		†	†	†	1.58	2.49
Median		†	†	†	1.65	2.73
75th percentile		†	†	†	1.74	3.01
Maximum		†	†	†	2.05	4.22

† Not applicable.

¹ DEFT is the square root of DEFF and can also be defined as the ratio of the design-based standard error over the standard error that would have been obtained from a simple random sample of the same size (if that were practical).² DEFF is the survey design effect for a statistic and is defined as the ratio of the design-based variance estimate over the variance estimate that would have been obtained from a simple random sample of the same size (if that were practical).

NOTE: Low-, middle-, and high-income students are defined using the Income percentile rank for all students (PCTALL). Low-income students have PCTALL less than 25. Middle-income students have PCTALL greater than or equal to 25 and less than 75. High-income students have PCTALL greater than or equal to 75.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table N-16. Design effects for middle-income undergraduate survey students, by variable: 2019–20

Variable	Defined as	Percent estimate	Design standard error	Simple random sample standard error	DEFT ¹	DEFF ²
Received any aid	TOTAID>0	73.68	0.34	0.22	1.55	2.39
Received any federal aid	TFEDAID>0	59.04	0.30	0.25	1.23	1.52
Received any state grant aid	STGTAMT>0	24.89	0.32	0.22	1.50	2.26
Received any institution grant aid	INGRTAMT>0	28.34	0.48	0.22	2.14	4.60
Received any work-study aid	TOTWKST>0	5.82	0.23	0.12	2.01	4.03
Received a Pell Grant	PELLAMT>0	42.97	0.26	0.25	1.06	1.12
Received a Direct Loan	STAFFAMT>0	38.18	0.29	0.24	1.19	1.42
Subsidized	STAFSUB>0	34.72	0.28	0.24	1.16	1.35
Unsubsidized	STAFUNSB>0	31.73	0.27	0.23	1.16	1.35
Married	SMARITAL=2	10.08	0.25	0.15	1.66	2.76
U.S. citizen	CITIZEN2=1	93.45	0.20	0.12	1.58	2.51
Enrolled exclusively full time	ATTNPTRN=1	50.65	0.55	0.25	2.19	4.79
Enrolled part time or part year	ATTNSTAT in (3, 4, 5, 6)	58.90	0.40	0.25	1.64	2.70
Received any employer aid	EMPLYAM3>0	4.22	0.17	0.10	1.69	2.84
Worked while in school	JOBENR in (2, 3)	74.78	0.38	0.22	1.75	3.05
Worked full time while in school	JOBENR=3	42.83	0.46	0.25	1.87	3.51
Worked part time while in school	JOBENR=2	31.94	0.36	0.23	1.54	2.36
Enrolled in a bachelor's degree program	UGDEG=3	51.50	0.38	0.25	1.51	2.28
Has a disability	DISABLE=1	20.56	0.34	0.20	1.69	2.86
Attended more than one institution in 2019–20	STUDMULT>1	11.26	0.28	0.16	1.81	3.26
Has dependents other than a spouse	DEPANY=1	18.97	0.36	0.20	1.85	3.41
U.S. Armed Forces veteran	VETERAN=1	3.39	0.14	0.09	1.60	2.56
Experienced homelessness: Previous 30 days	HOMELESS3=1	7.66	0.20	0.13	1.50	2.26
Low or very low food security: Previous 30 days	FOODSEC in (3, 4)	23.96	0.35	0.21	1.65	2.73
Summary statistics						
Minimum		†	†	†	1.06	1.12
25th percentile		†	†	†	1.50	2.26
Median		†	†	†	1.62	2.63
75th percentile		†	†	†	1.78	3.16
Maximum		†	†	†	2.19	4.79

† Not applicable.

¹ DEFT is the square root of DEFF and can also be defined as the ratio of the design-based standard error over the standard error that would have been obtained from a simple random sample of the same size (if that were practical).² DEFF is the survey design effect for a statistic and is defined as the ratio of the design-based variance estimate over the variance estimate that would have been obtained from a simple random sample of the same size (if that were practical).

NOTE: Low-, middle-, and high-income students are defined using the Income percentile rank for all students (PCTALL). Low-income students have PCTALL less than 25. Middle-income students have PCTALL greater than or equal to 25 and less than 75. High-income students have PCTALL greater than or equal to 75.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table N-17. Design effects for high-income undergraduate survey students, by variable: 2019–20

Variable	Defined as	Percent estimate	Design standard error	Simple random sample standard error	DEFT ¹	DEFF ²
Received any aid	TOTAID>0	59.44	0.64	0.35	1.83	3.36
Received any federal aid	TFEDAID>0	32.14	0.46	0.33	1.39	1.93
Received any state grant aid	STGTAMT>0	8.99	0.39	0.20	1.93	3.73
Received any institution grant aid	INGRTAMT>0	27.17	0.89	0.32	2.82	7.96
Received any work-study aid	TOTWKST>0	2.18	0.18	0.10	1.72	2.97
Received a Pell Grant	PELLAMT>0	8.25	0.37	0.20	1.91	3.64
Received a Direct Loan	STAFFAMT>0	27.36	0.46	0.32	1.44	2.06
Subsidized	STAFSUB>0	14.42	0.34	0.25	1.35	1.81
Unsubsidized	STAFUNSB>0	25.21	0.41	0.31	1.31	1.72
Married	SMARITAL=2	30.87	0.90	0.33	2.73	7.48
U.S. citizen	CITIZEN2=1	95.31	0.25	0.15	1.64	2.70
Enrolled exclusively full time	ATTNPTRN=1	51.18	0.77	0.36	2.17	4.72
Enrolled part time or part year	ATTNSTAT in (3, 4, 5, 6)	52.99	0.60	0.36	1.69	2.86
Received any employer aid	EMPLYAM3>0	8.28	0.29	0.20	1.46	2.13
Worked while in school	JOBENR in (2, 3)	75.94	0.49	0.30	1.61	2.60
Worked full time while in school	JOBENR=3	48.15	0.74	0.36	2.08	4.34
Worked part time while in school	JOBENR=2	27.79	0.56	0.32	1.76	3.09
Enrolled in a bachelor's degree program	UGDEG=3	62.59	0.65	0.34	1.88	3.54
Has a disability	DISABLE=1	16.38	0.48	0.26	1.83	3.36
Attended more than one institution in 2019–20	STUDMULT>1	11.50	0.32	0.23	1.42	2.02
Has dependents other than a spouse	DEPANY=1	26.10	0.85	0.31	2.72	7.40
U.S. Armed Forces veteran	VETERAN=1	5.40	0.28	0.16	1.72	2.97
Experienced homelessness: Previous 30 days	HOMELESS3=1	4.57	0.22	0.15	1.46	2.13
Low or very low food security: Previous 30 days	FOODSEC in (3, 4)	12.27	0.37	0.23	1.57	2.48
Summary statistics						
Minimum		†	†	†	1.31	1.72
25th percentile		†	†	†	1.46	2.13
Median		†	†	†	1.72	2.97
75th percentile		†	†	†	1.92	3.68
Maximum		†	†	†	2.82	7.96

† Not applicable.

¹ DEFT is the square root of DEFF and can also be defined as the ratio of the design-based standard error over the standard error that would have been obtained from a simple random sample of the same size (if that were practical).² DEFF is the survey design effect for a statistic and is defined as the ratio of the design-based variance estimate over the variance estimate that would have been obtained from a simple random sample of the same size (if that were practical).

NOTE: Low-, middle-, and high-income students are defined using the Income percentile rank for all students (PCTALL). Low-income students have PCTALL less than 25. Middle-income students have PCTALL greater than or equal to 25 and less than 75. High-income students have PCTALL greater than or equal to 75.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table N-18. Median design effects for undergraduate study students overall, public 2-year, and public 4-year institutions within state, by state: 2019–20

State	All undergraduates	Public 2-year	Public 4-year
All institutions	6.16	4.23	3.15
Alabama	‡	0.97	‡
Alaska	‡	†	1.35
Arizona	2.34	1.07	0.91
Arkansas	1.23	1.37	0.97
California	4.56	1.78	3.14
Colorado	6.07	0.78	0.82
Connecticut	‡	1.59	‡
Delaware	7.54	†	3.98
District of Columbia	‡	†	‡
Florida	6.72	18.70	1.21
Georgia	2.91	3.50	1.48
Hawaii	1.84	0.66	0.58
Idaho	‡	‡	‡
Illinois	6.93	1.34	1.39
Indiana	‡	0.35	‡
Iowa	1.53	0.89	1.90
Kansas	‡	‡	0.63
Kentucky	2.01	1.11	1.43
Louisiana	1.91	1.26	1.18
Maine	1.93	0.62	0.93
Maryland	1.52	2.92	0.68
Massachusetts	4.00	1.01	1.39
Michigan	4.18	6.74	0.92
Minnesota	2.30	0.98	0.73
Mississippi	1.84	1.72	0.67
Missouri	‡	‡	1.73
Montana	‡	‡	‡
Nebraska	1.84	0.38	3.03
Nevada	1.26	†	0.63
New Hampshire	‡	‡	0.57
New Jersey	3.58	1.21	2.43
New Mexico	2.52	4.69	1.83
New York	4.86	1.46	2.20
North Carolina	2.24	2.24	0.72
North Dakota	‡	‡	‡
Ohio	2.41	0.71	1.06
Oklahoma	3.64	1.58	0.89
Oregon	2.34	2.49	2.11
Pennsylvania	6.45	0.66	1.13
Puerto Rico	‡	†	1.10
Rhode Island	‡	‡	†
South Carolina	2.56	2.52	1.41
South Dakota	‡	‡	1.01
Tennessee	3.82	2.16	1.00
Texas	2.38	1.17	1.82
Utah	‡	†	0.74

See notes at end of table.

Table N-18. Median design effects for undergraduate study students overall, public 2-year, and public 4-year institutions within state, by state: 2019–20—Continued

State	All undergraduates	Public 2-year	Public 4-year
Vermont	1.61	1.98	1.93
Virginia	4.45	0.78	1.68
Washington	2.05	0.79	1.22
West Virginia	3.86	0.98	2.34
Wisconsin	3.04	1.16	5.60
Wyoming	‡	0.52	0.88

† Not applicable.

‡ Reporting standards not met (states and sectors that are not state-level representative).

NOTE: The survey design effect for a statistic is defined as the ratio of the design-based variance estimate over the variance estimate that would have been obtained from a simple random sample of the same size (if that were practical). For the purposes of this table, Puerto Rico and District of Columbia are referred to as “states.” There were no public 2-year schools in Alaska, Delaware, the District of Columbia, or Nevada and no responding public 4-year schools in Rhode Island.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table N-19. Design effects for all graduate students, by variable: 2019–20

Variable	Defined as	Percent estimate	Design standard error	Simple random sample standard error	DEFT ¹	DEFF ²
Received any aid	TOTAID>0	73.86	0.92	0.31	2.95	8.68
Received any federal aid	TFEDAID>0	40.50	0.15	0.35	0.43	0.18
Received any state grant aid	STGTAMT>0	2.53	0.19	0.11	1.73	2.99
Received any institution grant aid	INGRTAMT>0	28.97	1.08	0.32	3.32	11.04
Received any work-study aid	TOTWKST>0	1.90	0.19	0.10	1.99	3.97
Received any assistantship	GRASTAMT>0	11.98	0.68	0.23	2.93	8.57
Received a Direct Unsubsidized Loan	STAFUNSB>0	39.08	#	0.35	#	#
Married	SMARITAL=2	35.95	0.69	0.34	2.01	4.04
U.S. citizen	CITIZEN2=1	84.52	0.42	0.26	1.64	2.71
Enrolled exclusively full time	ATTNPTRN=1	61.82	1.04	0.35	3.00	9.01
Enrolled part time or part year	ATTNSTAT in (3, 4, 5, 6)	50.70	0.83	0.36	2.31	5.36
Received any employer aid	EMPLYAM3>0	12.20	0.61	0.23	2.62	6.84
Worked while in school	JOBENR_GR in (2, 3)	68.87	0.96	0.33	2.90	8.41
Worked full time while in school	JOBENR_GR=3	51.83	1.12	0.36	3.13	9.80
Worked part time while in school	JOBENR_GR=2	17.03	0.58	0.27	2.18	4.75
Enrolled in a master's degree program	GRADDEG=1	56.39	2.19	0.35	6.20	38.48
1–2 years between bachelor's degree and graduate school	GRADGAP in (1, 2)	25.09	0.63	0.31	2.04	4.18
Has a disability	DISABLE=1	10.80	0.43	0.22	1.92	3.69
Attended more than one institution in 2019–20	STUDMULT>1	5.15	0.33	0.16	2.12	4.50
Has dependents other than a spouse	DEPANY=1	28.88	0.75	0.32	2.31	5.34
U.S. Armed Forces veteran	VETERAN=1	6.03	0.51	0.17	3.01	9.04
Experienced homelessness: Previous 30 days	HOMELESS3=1	4.62	0.30	0.15	2.00	4.01
Low or very low food security: Previous 30 days	FOODSEC in (3, 4)	12.23	0.43	0.23	1.84	3.39
Summary statistics						
Minimum		†	†	†	#	#
25th percentile		†	†	†	1.92	3.69
Median		†	†	†	2.18	4.75
75th percentile		†	†	†	2.95	8.68
Maximum		†	†	†	6.20	38.48

† Not applicable.

Rounds to zero.

¹ DEFT is the square root of DEFF and can also be defined as the ratio of the design-based standard error over the standard error that would have been obtained from a simple random sample of the same size (if that were practical).² DEFF is the survey design effect for a statistic and is defined as the ratio of the design-based variance estimate over the variance estimate that would have been obtained from a simple random sample of the same size (if that were practical).

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table N-20. Design effects for graduate students at public 4-year institutions, by variable: 2019–20

Variable	Defined as	Percent estimate	Design standard error	Simple random sample standard error	DEFT ¹	DEFF ²
Received any aid	TOTAID>0	73.50	1.23	0.48	2.57	6.59
Received any federal aid	TFEDAID>0	35.09	0.20	0.52	0.39	0.15
Received any state grant aid	STGTAMT>0	4.06	0.35	0.22	1.62	2.64
Received any institution grant aid	INGRTAMT>0	31.13	1.30	0.50	2.58	6.64
Received any work-study aid	TOTWKST>0	1.20	0.19	0.12	1.57	2.47
Received any assistantship	GRASTAMT>0	17.83	0.91	0.42	2.18	4.77
Received a Direct Unsubsidized Loan	STAFUNSB>0	33.92	#	0.52	#	#
Married	SMARITAL=2	35.38	0.78	0.52	1.50	2.24
U.S. citizen	CITIZEN2=1	83.60	0.54	0.40	1.33	1.78
Enrolled exclusively full time	ATTNPTRN=1	56.41	1.01	0.54	1.87	3.49
Enrolled part time or part year	ATTNSTAT in (3, 4, 5, 6)	49.46	0.98	0.54	1.80	3.24
Received any employer aid	EMPLYAM3>0	11.65	0.70	0.35	2.01	4.04
Worked while in school	JOBENR_GR in (2, 3)	66.55	1.12	0.51	2.18	4.75
Worked full time while in school	JOBENR_GR=3	47.47	1.09	0.54	2.00	4.00
Worked part time while in school	JOBENR_GR=2	19.09	0.73	0.43	1.70	2.87
Enrolled in a master's degree program	GRADDEG=1	47.44	3.34	0.54	6.14	37.73
1–2 years between bachelor's degree and graduate school	GRADGAP in (1, 2)	25.51	0.85	0.47	1.79	3.21
Has a disability	DISABLE=1	11.41	0.58	0.35	1.67	2.78
Attended more than one institution in 2019–20	STUDMULT>1	5.21	0.47	0.24	1.93	3.72
Has dependents other than a spouse	DEPANY=1	26.02	0.95	0.48	1.99	3.95
U.S. Armed Forces veteran	VETERAN=1	5.87	0.68	0.26	2.66	7.06
Experienced homelessness: Previous 30 days	HOMELESS3=1	4.52	0.44	0.23	1.96	3.82
Low or very low food security: Previous 30 days	FOODSEC in (3, 4)	11.45	0.64	0.35	1.85	3.42
Summary statistics						
Minimum		†	†	†	#	#
25th percentile		†	†	†	1.62	2.64
Median		†	†	†	1.87	3.49
75th percentile		†	†	†	2.18	4.75
Maximum		†	†	†	6.14	37.73

† Not applicable.

Rounds to zero.

¹ DEFT is the square root of DEFF and can also be defined as the ratio of the design-based standard error over the standard error that would have been obtained from a simple random sample of the same size (if that were practical).² DEFF is the survey design effect for a statistic and is defined as the ratio of the design-based variance estimate over the variance estimate that would have been obtained from a simple random sample of the same size (if that were practical).

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table N-21. Design effects for graduate students at private nonprofit 4-year institutions, by variable: 2019–20

Variable	Defined as	Percent estimate	Design standard error	Simple random sample standard error	DEFT ¹	DEFF ²
Received any aid	TOTAID>0	74.06	1.26	0.50	2.53	6.41
Received any federal aid	TFEDAID>0	42.89	0.26	0.56	0.46	0.21
Received any state grant aid	STGTAMT>0	1.34	0.24	0.13	1.82	3.31
Received any institution grant aid	INGRTAMT>0	27.16	1.38	0.50	2.73	7.44
Received any work-study aid	TOTWKST>0	2.63	0.36	0.18	1.97	3.88
Received any assistantship	GRASTAMT>0	8.28	0.91	0.31	2.93	8.56
Received a Direct Unsubsidized Loan	STAFUNSB>0	41.11	#	0.56	#	#
Married	SMARITAL=2	34.01	1.12	0.54	2.09	4.37
U.S. citizen	CITIZEN2=1	83.28	0.81	0.42	1.90	3.63
Enrolled exclusively full time	ATTNPTRN=1	64.64	1.55	0.54	2.86	8.21
Enrolled part time or part year	ATTNSTAT in (3, 4, 5, 6)	48.53	1.07	0.57	1.89	3.57
Received any employer aid	EMPLYAM3>0	12.58	0.85	0.38	2.25	5.07
Worked while in school	JOBENR_GR in (2, 3)	68.35	1.09	0.53	2.06	4.26
Worked full time while in school	JOBENR_GR=3	52.60	1.27	0.57	2.24	5.02
Worked part time while in school	JOBENR_GR=2	15.75	0.83	0.41	2.00	4.01
Enrolled in a master's degree program	GRADDEG=1	63.36	1.48	0.55	2.72	7.38
1–2 years between bachelor's degree and graduate school	GRADGAP in (1, 2)	24.90	0.93	0.49	1.90	3.62
Has a disability	DISABLE=1	9.86	0.57	0.34	1.68	2.81
Attended more than one institution in 2019–20	STUDMULT>1	4.77	0.52	0.24	2.17	4.71
Has dependents other than a spouse	DEPANY=1	27.01	1.12	0.50	2.22	4.92
U.S. Armed Forces veteran	VETERAN=1	6.06	0.63	0.27	2.32	5.39
Experienced homelessness: Previous 30 days	HOMELESS3=1	5.00	0.49	0.25	1.98	3.93
Low or very low food security: Previous 30 days	FOODSEC in (3, 4)	12.16	0.66	0.37	1.77	3.13
Summary statistics						
Minimum		†	†	†	#	#
25th percentile		†	†	†	1.89	3.57
Median		†	†	†	2.06	4.26
75th percentile		†	†	†	2.32	5.39
Maximum		†	†	†	2.93	8.56

† Not applicable.

Rounds to zero.

¹ DEFT is the square root of DEFF and can also be defined as the ratio of the design-based standard error over the standard error that would have been obtained from a simple random sample of the same size (if that were practical).² DEFF is the survey design effect for a statistic and is defined as the ratio of the design-based variance estimate over the variance estimate that would have been obtained from a simple random sample of the same size (if that were practical).

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table N-22. Design effects for graduate students at private for-profit 4-year institutions, by variable: 2019–20

Variable	Defined as	Percent estimate	Design standard error	Simple random sample standard error	DEFT ¹	DEFF ²
Received any aid	TOTAID>0	74.73	2.77	0.74	3.75	14.06
Received any federal aid	TFEDAID>0	56.01	0.67	0.85	0.79	0.62
Received any state grant aid	STGTAMT>0	0.45	0.29	0.11	2.55	6.51
Received any institution grant aid	INGRTAMT>0	26.73	5.83	0.75	7.73	59.82
Received any work-study aid	TOTWKST>0	1.97	0.85	0.24	3.60	12.99
Received any assistantship	GRASTAMT>0	0.35	0.21	0.10	2.12	4.50
Received a Direct Unsubsidized Loan	STAFUNSB>0	55.10	#	0.85	#	#
Married	SMARITAL=2	47.68	3.27	0.85	3.84	14.78
U.S. citizen	CITIZEN2=1	94.82	1.14	0.38	3.02	9.15
Enrolled exclusively full time	ATTNPTRN=1	75.42	5.51	0.73	7.51	56.38
Enrolled part time or part year	ATTNSTAT in (3, 4, 5, 6)	66.82	3.78	0.80	4.71	22.16
Received any employer aid	EMPLYAM3>0	13.12	3.02	0.58	5.25	27.54
Worked while in school	JOBENR_GR in (2, 3)	82.62	3.76	0.65	5.82	33.86
Worked full time while in school	JOBENR_GR=3	69.77	6.11	0.78	7.81	61.05
Worked part time while in school	JOBENR_GR=2	12.85	3.24	0.57	5.69	32.32
Enrolled in a master's degree program	GRADDEG=1	68.13	5.10	0.79	6.43	41.34
1–2 years between bachelor's degree and graduate school	GRADGAP in (1, 2)	23.92	2.98	0.73	4.10	16.80
Has a disability	DISABLE=1	12.16	2.14	0.56	3.84	14.77
Attended more than one institution in 2019–20	STUDMULT>1	6.63	0.93	0.42	2.20	4.85
Has dependents other than a spouse	DEPANY=1	51.64	4.42	0.85	5.19	26.98
U.S. Armed Forces veteran	VETERAN=1	6.70	2.65	0.43	6.23	38.86
Experienced homelessness: Previous 30 days	HOMELESS3=1	3.37	0.60	0.31	1.95	3.81
Low or very low food security: Previous 30 days	FOODSEC in (3, 4)	16.44	1.08	0.63	1.71	2.92
Summary statistics						
Minimum		†	†	†	#	#
25th percentile		†	†	†	2.20	4.85
Median		†	†	†	3.84	14.78
75th percentile		†	†	†	5.82	33.86
Maximum		†	†	†	7.81	61.05

† Not applicable.

Rounds to zero.

¹ DEFT is the square root of DEFF and can also be defined as the ratio of the design-based standard error over the standard error that would have been obtained from a simple random sample of the same size (if that were practical).² DEFF is the survey design effect for a statistic and is defined as the ratio of the design-based variance estimate over the variance estimate that would have been obtained from a simple random sample of the same size (if that were practical).

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Appendix O. Weighted Analysis

The 2019–20 National Postsecondary Student Aid Study (NPSAS:20) sampling design was a stratified two-stage design. At the first stage, a census of all public 2- and 4-year institutions was taken and a stratified sample of institutions from the “all other sectors” stratum was selected with probabilities proportional to a composite measure of size. At the first stage, 1,370 (about 31 percent) of the eligible institutions in the “all other sectors” stratum were selected. At the second stage, a stratified systematic sample of students was selected from the institutions selected in the first stage. Several groups of students were sampled at higher rates than other students (chapter 2).

When analyzing data from a survey with a complex sample design, such as NPSAS:20, the design needs to be considered. A common assumption for variance estimation is that the survey used simple random sampling, rather than using a complex design such as the NPSAS:20 sample design. This incorrect assumption usually leads to an underestimate of the sampling variance, which would lead to artificially small confidence intervals and liberal hypothesis test results (i.e., rejecting the null hypothesis when it is in fact true more often than indicated by the nominal Type I error level; Carlson, Johnson, and Cohen 1993).

Statistical strategies developed to address this issue include first-order Taylor-series expansion of the variance equation, bootstrap replication, balanced repeated replication, and the jackknife approach (e.g., Wolter 1985). NPSAS:20 includes Taylor-series and bootstrap replication design variables that account for the study’s complex sample design, and these variance estimation methodologies are described in chapter 7. Data users can use design variables to estimate more precise standard errors for estimates.

Software packages. Most statistical software packages have been developed for analysis of complex sample survey data, such as SUDAAN, Stata, SAS, R, WesVar, and SPSS. The National Center for Education Statistics (NCES) also has developed a software tool called PowerStats for analysis of complex survey data. Following is a list of these software packages and their websites, which have more information about the software and how to purchase or use them:

- NCES PowerStats: <https://nces.ed.gov/datalab/index.aspx>
- R: <https://www.r-project.org>;
- SAS: <https://www.sas.com>;
- SPSS: <http://www.spss.com>;
- Stata: <https://www.stata.com>;
- SUDAAN: <https://www.rti.org/sudaan>; and
- WesVar: <https://www.westat.com/how-wesvar-works/>.

Taylor-series approximation. When computing standard errors by using Taylor-series approximation, analysts should use the variables WTA_ANALSTR and WTA_ANALPSU (or WTB_ANALSTR and WTB_ANALPSU) in specifying analysis strata and analysis primary sampling units (PSUs) for analyzing survey respondents (or study respondents). This method of variance estimation may overestimate the variance because it does not always account for the finite population correction (FPC) at the institution stage of sampling. Additionally, the analyst should specify the final survey (or study) analysis weight, WTA000 (or WTB000). Below is an example of generic SUDAAN code to produce estimates and standard errors, using Taylor-series approximation and not accounting for FPC for survey respondents. The symbols /* and */ in the code indicate the beginning and end of a comment, respectively. The dataset must be sorted by the analysis strata and PSUs to run this analysis.

```
PROC DESCRIPT DATA=/* INSERT FILENAME */ DESIGN=WR;
  NEST WTA_ANALSTR WTA_ANALPSU;
  WEIGHT WTA000;
  VAR /* INSERT VARIABLES */;
  SUBPOPN /* INSERT DOMAIN OF INTEREST */;
  PRINT NSUM MEAN SEMEAN / STYLE=NCHS;
RUN;
```

When computing standard errors by using Taylor-series approximation, the analyst could, alternatively, use the variables WTA_FANALSTR, WTA_FANALPSU, WTA_FANALSSU, and WTA_PSUCOUNT (or WTB_FANALSTR, WTB_FANALPSU, WTB_FANALSSU, and WTB_PSUCOUNT) in specifying analysis strata, analysis PSUs, analysis secondary sampling units (SSUs), and estimated number of PSUs in the stratum for analyzing survey respondents (or study respondents). This method of variance estimation accounts for FPC at the institution stage of sampling.

Below is an example of generic SUDAAN code to produce estimates and standard errors with the use of Taylor-series approximation accounting for FPC for survey respondents. The dataset must be sorted by the analysis strata, analysis PSUs, and analysis SSUs to run this analysis.


```

PROC DESCRIPT DATA=/* INSERT FILENAME */ DESIGN=WOR;
  NEST WTA_FANALSTR WTA_FANALPSU WTA_FANALSSU;
  TOTCNT WTA_PSUCOUNT _MINUS1__ __ZERO_;
  WEIGHT WTA000;
  VAR /* INSERT VARIABLES */;
  SUBPOPN /* INSERT DOMAIN OF INTEREST */;
  PRINT NSUM MEAN SEMEAN / STYLE=NCHS;
RUN;

```

Bootstrap replication. Using bootstrap replication to compute standard errors is the preferred method for variance estimation because bootstrap replication provides the most precise estimates, as described in chapter 7. When computing standard errors by using bootstrap replication, the analyst should specify the bootstrap weights WTA001–WTA200 (or WTB001–WTB200) in addition to specifying WTA000 (or WTB000).

Below is an example of generic SUDAAN code to produce estimates and standard errors with the use of bootstrap replication for survey respondents. The dataset does not have to be sorted to run this analysis.

```

PROC DESCRIPT DATA=/* INSERT FILENAME */ DESIGN=BRR;
  REPWGT WTA001-WTA200;
  WEIGHT WTA000;
  VAR /* INSERT VARIABLES */;
  SUBPOPN /* INSERT DOMAIN OF INTEREST */;
  PRINT NSUM MEAN SEMEAN / STYLE=NCHS;
RUN;

```

Using design effects to adjust standard errors of survey estimates. If an analysis of NPSAS:20 data must be performed without using one of the software packages for analysis of complex survey data, then the design effects tables that are presented in appendix N can be used to make approximate adjustments to the standard errors of survey statistics computed with the use of standard software packages that assume simple random sampling designs. For example, table N-6 shows design effects and square roots of design effects (DEFTs) for undergraduate survey students at public 4-year, doctorate-granting institutions. If a statistic not listed in the table has been computed (e.g., mean Direct Loan amount) for this domain of students, then the summary statistics from table N-6 show that the standard error based on the assumption of a simple random sample design be multiplied by a survey DEFT of 1.28 (the median for this domain). The range of DEFTs shown in table P-6 for this domain, however, is about 0 to 1.76. See chapter 7 for more discussion about the use of design effects.

References

- Carlson, B.L., Johnson, A.E., and Cohen, S.B. (1993). An Evaluation of the Use of Personal Computers for Variance Estimation with Complex Survey Data. *Journal of Official Statistics*, 9(4): 795–814.
- Wolter, K. (1985). *Introduction to Variance Estimation*. New York: Springer-Verlag.

Appendix P. Imputations

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Table P-1. Mean values of key continuous variables before and after imputation: 2019–20

Variable	Variable label	Mean before imputation	Mean after imputation	Difference	Percent relative difference
DEPINC	Dependent students: parents' income	88,499.09	100,771.00	-12,271.91*	-12.18
INDEPINC	Independent students: student and spouse's income	31,058.69	40,275.53	-9,216.84*	-22.88

* $p < .05$.

NOTE: Means were computed for all students (undergraduate and graduates students combined) using the NPSAS:20 final survey analysis weight. Cases with legitimate skips for the item were not included in the estimated means. The difference was computed as the mean before imputation minus the mean after imputation. The percent relative difference was computed as the difference divided by the mean after imputation and then multiplied by 100.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

**Table P-2. Mean values of key continuous variables before and after imputation, by state:
2019–20**

Variable	Variable label	State	Mean before imputation	Mean after imputation	Difference	Percent relative difference
STNDMRT	State grants based both on need and merit	United States	179.17	184.71	-5.54	-3.00
		Alabama	17.69	18.81	-1.12	-5.95
		Alaska	†	†	†	†
		Arizona	†	†	†	†
		Arkansas	2.95	2.73	0.23	8.28
		California	983.73	928.10	55.63	5.99
		Colorado	†	†	†	†
		Connecticut	98.69	95.54	3.15	3.29
		Delaware	3.99	1.48	2.50	168.49
		District of Columbia	†	†	†	†
		Florida	†	†	†	†
		Georgia	0.84	0.73	0.10	13.90
		Hawaii	57.58	57.57	0.01	0.01
		Idaho	274.48	193.43	81.05	41.90
		Illinois	†	†	†	†
		Indiana	16.69	17.65	-0.96	-5.44
		Iowa	18.49	21.93	-3.44	-15.68
		Kansas	4.87	4.25	0.62	14.53
		Kentucky	12.46	12.23	0.23	1.89
		Louisiana	†	†	†	†
		Maine	†	†	†	†
		Maryland	38.07	36.96	1.11	3.00
		Massachusetts	2.40	2.45	-0.05	-1.97
		Michigan	72.38	73.93	-1.55	-2.10
		Minnesota	†	†	†	†
		Mississippi	183.80	185.33	-1.53	-0.83
		Missouri	†	†	†	†
		Montana	†	†	†	†
		Nebraska	†	†	†	†
		Nevada	†	†	†	†
		New Hampshire	†	†	†	†
		New Jersey	1.19	1.08	0.11	10.16
		New Mexico	113.89	113.23	0.66	0.58
		New York	10.94	10.08	0.86	8.53
		North Carolina	†	†	†	†
		North Dakota	7.60	5.45	2.14	39.28
		Ohio	4.45	4.37	0.08	1.91
		Oklahoma	387.55	387.79	-0.24	-0.06
		Oregon	3.60	3.57	0.04	1.02
		Pennsylvania	9.01	10.13	-1.13	-11.11
		Rhode Island	48.74	120.59	-71.85*	-59.58

See notes at end of table.

**Table P-2. Mean values of key continuous variables before and after imputation, by state:
2019–20—Continued**

Variable	Variable label	State	Mean before imputation	Mean after imputation	Difference	Percent relative difference
STNDONLY	State need-based only grants	South Carolina	†	†	†	†
		South Dakota	†	†	†	†
		Tennessee	123.76	126.98	-3.23	-2.54
		Texas	335.41	320.35	15.06*	4.70
		Utah	†	†	†	†
		Vermont	†	†	†	†
		Virginia	223.75	236.21	-12.46	-5.28
		Washington	37.27	34.81	2.45	7.05
		West Virginia	252.10	261.10	-9.00	-3.45
		Wisconsin	†	†	†	†
		Wyoming	602.51	579.76	22.75	3.92
		Puerto Rico	16.07	16.10	-0.03	-0.18
		United States	369.42	366.91	2.52	0.69
		Alabama	1.35	1.29	0.05	4.24
		Alaska	177.50	175.10	2.40	1.37
		Arizona	7.64	7.58	0.05	0.73
		Arkansas	5.69	5.31	0.38	7.07
		California	49.68	47.50	2.18	4.59
		Colorado	495.46	483.52	11.94	2.47
		Connecticut	33.67	32.45	1.22	3.75
		Delaware	27.29	69.66	-42.37	-60.82
		District of Columbia	25.49	28.10	-2.61	-9.30
		Florida	247.26	249.77	-2.51	-1.01
		Georgia	1.02	0.90	0.12	13.90
		Hawaii	46.05	46.04	0.01	0.01
		Idaho	50.79	23.41	27.38	116.97
		Illinois	688.45	704.69	-16.24	-2.31
		Indiana	768.67	792.59	-23.91	-3.02
		Iowa	412.27	429.90	-17.63	-4.10
		Kansas	104.52	105.61	-1.09	-1.03
		Kentucky	681.75	683.86	-2.11	-0.31
		Louisiana	111.67	135.40	-23.74	-17.53
		Maine	208.66	217.66	-9.00	-4.14
		Maryland	281.05	303.68	-22.63	-7.45
		Massachusetts	236.65	239.76	-3.11	-1.30
		Michigan	221.60	219.75	1.85	0.84
		Minnesota	712.34	759.61	-47.28	-6.22
		Mississippi	15.73	15.21	0.52	3.43
		Missouri	201.11	199.13	1.98	1.00
		Montana	4.37	8.97	-4.60	-51.32

See notes at end of table.

**Table P-2. Mean values of key continuous variables before and after imputation, by state:
2019–20—Continued**

Variable	Variable label	State	Mean before imputation	Mean after imputation	Difference	Percent relative difference
		Nebraska	179.17	178.82	0.35	0.20
		Nevada	311.16	312.77	-1.61	-0.52
		New Hampshire	21.99	22.07	-0.09	-0.39
		New Jersey	1,215.38	1,246.80	-31.42	-2.52
		New Mexico	279.62	279.61	0.01	0.00
		New York	956.48	938.69	17.80	1.90
		North Carolina	637.40	640.39	-2.99	-0.47
		North Dakota	229.77	226.01	3.76	1.66
		Ohio	194.87	194.70	0.18	0.09
		Oklahoma	109.89	110.30	-0.41	-0.37
		Oregon	448.81	445.03	3.78	0.85
		Pennsylvania	657.45	656.87	0.58	0.09
		Rhode Island	0.56	0.25	0.31	123.67
		South Carolina	358.63	357.25	1.38	0.39
		South Dakota	5.10	4.80	0.30	6.21
		Tennessee	389.74	383.05	6.69	1.75
		Texas	448.10	458.36	-10.26	-2.24
		Utah	14.44	13.92	0.52	3.77
		Vermont	214.68	214.58	0.10	0.05
		Virginia	934.52	954.42	-19.91	-2.09
		Washington	978.69	1,007.85	-29.17	-2.89
		West Virginia	46.87	50.63	-3.76	-7.42
		Wisconsin	379.95	382.98	-3.03	-0.79
		Wyoming	12.59	10.57	2.01	19.05
		Puerto Rico	44.09	43.30	0.79	1.84

† Not applicable.

* $p < .05$.

NOTE: Means were computed for undergraduate study respondents using the NPSAS:20 final analysis study weight. Cases with legitimate skips for the item were not included in the estimated means. The difference was computed as the mean before imputation minus the mean after imputation. The percent relative difference was computed as the difference divided by the mean after imputation and then multiplied by 100.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table P-3. Percentage distributions of key categorical variables before and after imputation: 2019–20

Variable	Variable label	Value	Label	Percent before imputation	Percent after imputation	Difference	Percent relative difference
DEPANY	Dependents: has any dependents	0	No dependents	78.88	78.89	-0.01*	-0.02
		1	Has dependents	21.12	21.11	0.01*	0.06
LOCALRES	Residence while enrolled	1	On campus	16.76	16.45	0.32*	1.92
		2	Off campus	44.44	45.49	-1.06*	-2.32
		3	Living with parents	26.24	26.66	-0.42*	-1.58
		4	Attended more than one institution	12.56	11.40	1.16*	10.18
PINCOL	Dependent students: number of family members in college	1	One	67.51	67.38	0.12*	0.18
		2	Two	26.54	26.64	-0.10	-0.36
		3	Three	4.72	4.77	-0.04	-0.85
		4	Four	0.89	0.87	0.01*	1.59
		5	Five	0.22	0.22	#	0.20
		6	Six or more	0.13	0.12	#	0.99
PMARITAL	Dependent students: parents' marital status	1	Married/remarried	64.70	64.74	-0.05*	-0.07
		2	Single	10.24	10.23	0.02*	0.16
		3	Divorced/separated	21.60	21.57	0.03*	0.16
		4	Widowed	2.47	2.48	-0.01	-0.28
		5	Unmarried and both parents living together	0.99	0.99	#	0.11

Rounds to zero.

* $p < .05$.

NOTE: Distributions were computed for all students (undergraduate and graduates students combined) using the NPSAS:20 final analysis survey weight. Cases with legitimate skips for the item are not included in the distributions. The difference is computed as the percentage before imputation minus the percentage after imputation. The percent relative difference is computed as the difference divided by the percentage after imputation and then multiplied by 100.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table P-4. Undergraduate survey weighted item response rates, by control and level of institution and variable: 2019–20

Variable	Sample size	All students	Public					Private nonprofit			Private for-profit		
			Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
AGE (Age as of 12/31/2019)	80,760	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
AGEPSE (Age at start of postsecondary education)	80,760	99.0	95.9	98.6	98.7	99.4	99.5	96.9	99.2	99.4	96.2	97.2	99.0
AIDAPP (Applied for any aid)	80,760	73.3	93.5	67.9	79.3	66.7	82.0	72.9	66.0	77.8	55.8	47.0	67.5
AIDAPP2 (Applied for any aid [including nonfederal])	80,760	73.3	93.5	67.9	79.3	66.7	82.0	72.9	66.0	77.8	55.8	47.0	67.5
AIDCST (Ratio of total aid to student budget)	63,460	70.4	83.4	64.6	74.7	63.3	78.5	79.3	64.6	76.2	57.5	40.8	65.0
AIDCST3 (Ratio of aid [excluding Parent PLUS Loans] to student budget)	63,460	72.3	86.1	66.4	76.5	64.6	80.1	81.9	66.8	78.1	61.3	43.7	68.6
AIDSECT (NPSAS institution sector [with multiple])	80,760	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
AIDSNEED (Aid amount exceeding federal need)	43,440	62.4	77.5	57.8	65.8	54.4	69.9	80.8	56.4	63.5	55.7	41.3	58.9
AIDSRC (Aid package by source of aid)	80,760	73.3	93.5	67.9	79.3	66.7	82.0	72.9	66.0	77.8	55.8	47.0	67.5
AIDTYPE (Aid package by type of aid)	80,760	73.3	93.5	67.9	79.3	66.7	82.0	72.9	66.0	77.8	55.8	47.0	67.5
ASIAN TYPE (Asian type)	80,760	93.0	97.4	90.7	92.3	93.8	94.5	93.1	95.8	94.9	85.7	86.8	95.5
ATTEND (Attendance intensity in fall)	80,760	98.9	93.0	98.5	98.9	99.3	99.5	98.6	99.2	99.7	94.9	96.1	98.2
ATTEND2 (Attendance intensity in fall [half time])	80,760	98.9	93.0	98.5	98.9	99.3	99.5	98.6	99.2	99.7	94.9	96.1	98.2
ATTNPT (Attendance intensity [half time])	80,760	96.8	91.6	95.8	97.2	97.9	98.1	94.2	97.3	98.6	87.2	88.1	94.1
ATTNPTRN (Attendance intensity [all schools])	80,760	96.8	91.6	95.9	97.3	97.9	98.2	94.2	97.3	98.6	87.2	88.1	94.1
ATTNSTAT (Attendance pattern)	80,760	99.2	96.9	99.3	99.5	99.7	99.7	97.7	99.5	99.7	92.7	93.2	97.8
AWAREIDR (Aware of income-driven student loan repayment plans)	80,760	84.4	80.2	82.0	83.2	85.4	85.8	89.3	86.8	86.3	82.0	82.5	87.5

See notes at end of table.

Table P-4. Undergraduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public					Private nonprofit			Private for-profit		
			Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
AWARELFP (Aware of student loan forgiveness programs)	80,760	84.4	81.1	82.1	83.2	85.4	85.8	89.0	86.8	86.4	81.8	82.4	87.4
BANK1 (Bank accounts: had checking or savings account)	80,760	83.1	79.6	80.2	82.5	84.3	85.0	86.9	86.4	85.5	77.5	79.5	85.8
BANK2 (Bank accounts: individual or shared)	75,500	81.8	78.7	78.4	80.8	83.5	84.1	85.7	85.4	84.6	72.3	75.5	83.8
BINCOME (Total income [categorical])	80,760	76.6	58.6	71.6	71.8	81.0	79.3	94.4	80.0	75.7	88.7	91.2	87.0
BORAMT1 (Cumulative amount borrowed for undergraduate)	80,760	77.3	79.1	77.3	79.6	77.2	80.3	83.2	73.2	76.9	57.1	52.6	74.8
BUDGETAJ (Student budget [attendance adjusted])	63,460	91.0	87.9	88.9	90.5	90.6	93.6	95.4	89.5	94.0	89.8	78.2	89.1
BUDNONAJ (Nontuition expense budget [attendance adjusted])	63,460	91.0	87.9	88.9	90.5	90.6	93.6	95.4	89.5	94.0	89.8	78.2	89.1
CAGI (Adjusted gross income)	74,210	68.7	50.6	62.5	63.3	74.8	72.5	86.5	74.8	69.0	75.0	74.6	79.6
CAMPAMT (Federal campus-based aid [SEOG, federal work-study])	80,760	90.5	98.4	88.9	94.5	86.2	94.1	87.9	87.2	93.2	71.4	64.7	88.8
CINCOME (Total income [continuous])	80,760	76.6	58.6	71.6	71.8	81.0	79.3	94.4	80.0	75.7	88.7	91.2	87.0
CITIZEN2 (Citizenship)	80,760	97.7	95.9	96.1	97.1	98.4	98.7	99.2	97.8	98.7	99.4	99.2	99.1
COLLGRAD (Graduating senior from a bachelor's degree program in 2019–20)	80,760	97.3	90.7	97.3	97.9	96.6	98.1	99.8	96.3	97.6	91.0	94.3	95.6
COMPTO87 (Comparable to 1987 NPSAS)	80,760	98.9	93.0	98.5	98.9	99.3	99.5	98.6	99.2	99.7	94.9	96.1	98.2
COVCOMMCWRK (COVID-19 pandemic: helpful communication from NPSAS: access to coursework)	71,940	84.4	78.9	79.8	82.9	86.9	88.9	77.7	88.7	89.7	69.1	73.7	77.7
COVCOMMEMP (COVID-19 pandemic: helpful communication from NPSAS: employment at institution)	71,940	84.4	78.9	79.8	82.6	86.8	89.0	77.9	88.8	89.7	69.3	73.8	77.6

See notes at end of table.

Table P-4. Undergraduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public					Private nonprofit			Private for-profit		
			Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
COVCOMMFAID (COVID-19 pandemic: helpful communication from NPSAS: financial aid)	71,940	84.4	78.9	79.8	82.8	86.9	88.9	77.9	88.6	89.6	69.4	73.5	77.9
COVCOMMHOUS (COVID-19 pandemic: helpful communication from NPSAS: housing [on campus or college owned])	35,030	60.4	27.6	27.4	33.2	69.1	72.9	56.2	79.8	80.5	42.3	54.2	42.6
COVCOMMPROG (COVID-19 pandemic: helpful communication from NPSAS: degree program progress)	71,940	84.5	78.9	79.8	82.9	86.8	89.1	77.9	88.8	89.6	69.4	73.6	77.6
COVENRDIS (COVID-19 pandemic: enrollment disruptions/changes)	71,940	84.4	79.5	79.9	82.4	87.0	89.1	79.2	88.9	89.2	70.2	73.8	76.4
COVEXPABS (COVID-19 pandemic: took leave of absence from NPSAS)	71,940	84.4	79.5	79.9	82.4	87.0	89.1	79.2	88.9	89.2	70.2	73.8	76.4
COVEXPBRK (COVID-19 pandemic: school break extended)	71,940	84.4	79.5	79.9	82.4	87.0	89.1	79.2	88.9	89.2	70.2	73.8	76.4
COVEXPCAN (COVID-19 pandemic: some or all classes canceled)	71,940	84.4	79.5	79.9	82.4	87.0	89.1	79.2	88.9	89.2	70.2	73.8	76.4
COVEXPCC (COVID-19 pandemic: had difficulty finding safe and stable child care)	6,750	57.4	70.8	56.0	54.6	62.9	55.2	38.5	67.1	62.7	51.9	50.3	62.3
COVEXPFIN (COVID-19 pandemic: received emergency financial assistance from NPSAS)	71,940	84.4	79.5	79.9	82.4	87.0	89.1	79.2	88.9	89.2	70.2	73.8	76.4
COVEXPFOOD (COVID-19 pandemic: had difficulty accessing or paying for food)	80,760	92.6	92.7	91.4	93.7	92.7	93.3	86.2	94.6	94.4	86.1	88.8	90.7

See notes at end of table.

Table P-4. Undergraduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public					Private nonprofit			Private for-profit		
			Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
COVEXPHM (COVID-19 pandemic: had difficulty finding safe and stable housing)	80,760	92.6	92.7	91.4	93.7	92.7	93.3	86.2	94.6	94.4	86.1	88.8	90.7
COVEXPJOB (COVID-19 pandemic: lost job or lost income because of reduced hours)	80,760	92.6	92.7	91.4	93.7	92.7	93.3	86.2	94.6	94.4	86.1	88.8	90.7
COVEXPMOT (COVID-19 pandemic: moved to another living situation)	80,760	92.6	92.7	91.4	93.7	92.7	93.3	86.2	94.6	94.4	86.1	88.8	90.7
COVEXPONL (COVID-19 pandemic: some or all classes moved to online only)	71,150	84.5	79.5	79.9	82.4	87.1	89.1	79.2	88.5	89.2	70.2	73.8	77.3
COVEXPPAD (COVID-19 pandemic: moved back to permanent address)	71,940	84.4	79.5	79.9	82.4	87.0	89.1	79.2	88.9	89.2	70.2	73.8	76.4
COVEXPSAP (COVID-19 pandemic: study-abroad program canceled or modified)	71,940	84.4	79.5	79.9	82.4	87.0	89.1	79.2	88.9	89.2	70.2	73.8	76.4
COVEXPWIT (COVID-19 pandemic: withdrew from NPSAS)	71,940	84.4	79.5	79.9	82.4	87.0	89.1	79.2	88.9	89.2	70.2	73.8	76.4
COVFINDIS (COVID-19 pandemic: financial disruptions/changes)	71,940	84.4	79.5	79.9	82.4	87.0	89.1	79.2	88.9	89.2	70.2	73.8	76.4
COVHOUDIS (COVID-19 pandemic: housing disruptions/changes)	71,940	84.4	79.5	79.9	82.4	87.0	89.1	79.2	88.9	89.2	70.2	73.8	76.4
COVIDAID (COVID-19 pandemic: emergency aid received [institution reported])	71,940	83.1	88.9	74.1	89.9	85.8	91.9	76.8	77.0	87.3	62.3	54.6	86.0
COVIDAIDAMT (COVID-19 pandemic: emergency aid amount [institution reported])	71,940	82.9	88.9	73.7	89.9	85.3	91.9	76.8	77.0	87.2	62.3	54.6	86.0

See notes at end of table.

Table P-4. Undergraduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public					Private nonprofit			Private for-profit		
			Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
COVINFOALTLV (COVID-19 pandemic: information provided from NPSAS: find alternative living arrangements)	71,940	84.3	78.5	79.6	82.8	86.8	88.9	77.9	88.5	89.5	69.1	73.5	77.6
COVINFOEAID (COVID-19 pandemic: information provided from NPSAS: access emergency financial aid)	71,940	84.3	78.6	79.7	82.7	86.7	88.8	78.0	88.7	89.5	69.2	73.6	77.4
COVINFOFAST (COVID-19 pandemic: information provided from NPSAS: access food assistance)	71,940	84.3	78.7	79.5	82.8	86.8	88.9	77.9	88.6	89.5	69.3	73.6	77.5
COVINFOHLTH (COVID-19 pandemic: information provided from NPSAS: obtain physical/mental health care)	71,940	84.3	78.9	79.7	82.8	86.8	88.9	78.0	88.6	89.5	69.3	73.4	77.5
COVINFOMOV (COVID-19 pandemic: information provided from NPSAS: move out of college-owned housing)	35,030	60.3	27.8	27.4	33.2	69.2	72.7	56.2	79.7	80.6	42.4	53.4	42.4
COVREFTUITION (COVID-19 pandemic: received tuition refund from NPSAS)	71,940	68.1	59.8	62.4	65.7	70.0	74.5	58.9	73.2	75.8	46.8	47.5	57.7
COVROOMREF (COVID-19 pandemic: received room-and-board refund from NPSAS)	35,030	55.7	21.1	25.4	30.1	62.9	68.4	49.8	71.4	75.2	32.4	42.4	37.6
COVROOMREFSR (COVID-19 pandemic: room-and-board refund from student records)	30,130	65.0	90.6	60.1	70.6	54.8	63.1	39.3	74.3	71.1	41.7	58.0	65.4
COVTECHSER (COVID-19 pandemic: received technology or technical services from NPSAS)	63,200	81.7	73.7	76.0	78.7	85.0	87.7	72.8	86.5	87.2	64.3	69.5	60.4
COVTUITREFSR (COVID-19 pandemic: tuition refund [institution reported])	71,940	45.7	48.9	34.6	46.4	46.7	51.8	55.0	47.9	51.4	36.4	29.7	69.5

See notes at end of table.

Table P-4. Undergraduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public					Private nonprofit			Private for-profit		
			Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
CRBALCR (Credit cards: balance carried over each month)	51,390	75.2	72.7	72.2	75.7	76.2	77.2	80.2	77.5	77.6	64.7	68.9	80.5
CRBALDUE (Credit cards: balance due on all credit cards)	29,510	57.1	55.3	55.3	59.3	57.6	56.8	69.5	58.6	54.5	46.9	54.8	69.9
CRNUMCRD (Credit cards: number of credit cards in own name)	80,760	83.2	80.3	80.5	82.3	84.6	85.0	86.7	86.3	85.4	77.3	79.6	85.8
CRTUIT (Credit cards: used credit cards to pay tuition and fees in 2019–20)	51,390	75.1	72.5	72.0	75.5	75.8	77.2	80.2	77.4	77.2	64.6	68.9	80.1
CRTUIT2 (Credit cards: only source available to pay tuition and fees in 2019–20)	23,310	45.9	46.9	47.8	54.6	45.9	43.3	46.1	41.1	41.7	24.2	32.8	46.9
CSTBKSDG (Cost of digital textbooks [student reported])	80,760	81.5	79.5	79.0	80.5	83.2	84.0	81.7	84.3	84.0	72.4	72.7	80.8
CSTBKSPR (Cost of print-only textbooks [student reported])	80,760	81.5	79.5	79.0	80.5	83.1	84.0	81.7	84.3	84.0	72.3	72.6	80.9
CSTOTHER (Cost of other required course materials [student reported])	80,760	81.5	79.5	78.9	80.5	83.1	84.0	81.8	84.3	84.0	71.9	72.7	80.8
CSTSUPP (Cost of required supplies [student reported])	80,760	81.5	79.5	79.0	80.5	83.2	84.0	81.7	84.3	84.0	72.2	72.4	80.8
CSTTECH (Cost of required technology [student reported])	80,760	81.5	79.5	79.0	80.5	83.2	84.0	81.7	84.3	84.0	72.3	72.6	80.8
CSTTOTAL (Total cost of required course materials [student reported])	80,760	81.4	79.5	78.9	80.4	83.0	83.9	81.7	84.2	84.0	71.6	71.9	80.6
CUMLNTP1 (Cumulative loan type for undergraduate)	80,760	77.3	79.1	77.3	79.6	77.2	80.3	83.2	73.2	76.9	57.1	52.6	74.8
DECMAJ (Formally declared major field of study)	78,960	80.1	99.9	70.9	75.3	84.2	85.7	85.4	86.0	86.0	97.5	74.7	85.0
DEGPRI (Prior degree earned since high school)	80,760	100.0	99.9	100.0	100.0	100.0	100.0	100.0	100.0	99.8	100.0	100.0	100.0
DEGPRAA (Prior degree: associate's degree)	17,490	84.8	77.5	83.4	78.9	86.8	85.6	91.0	89.0	86.4	82.6	87.4	89.5

See notes at end of table.

Table P-4. Undergraduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public					Private nonprofit			Private for-profit		
			Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
DEGPRBA (Prior degree: 4-year bachelor's degree)	17,490	84.8	77.5	83.4	78.9	86.8	85.6	91.0	89.0	86.4	82.6	87.4	89.5
DEGPRCRT (Prior degree: undergraduate certificate/diploma)	17,490	84.8	77.5	83.4	78.9	86.8	85.6	91.0	89.0	86.4	82.6	87.4	89.5
DEGPRDOC (Prior degree: doctorate or professional degree)	17,490	84.8	77.5	83.4	78.9	86.8	85.6	91.0	89.0	86.4	82.6	87.4	89.5
DEGPRHIGH (Highest prior degree earned since high school)	80,760	96.1	92.4	95.3	93.7	96.4	96.8	97.7	97.7	97.4	96.4	96.2	95.6
DEGPRMS (Prior degree: master's degree)	17,490	84.8	77.5	83.4	78.9	86.8	85.6	91.0	89.0	86.4	82.6	87.4	89.5
DEGPRPTB (Prior degree: post-bachelor's certificate)	17,490	84.8	77.5	83.4	78.9	86.8	85.6	91.0	89.0	86.4	82.6	87.4	89.5
DEGPRPTM (Prior degree: post-master's certificate)	17,490	84.8	77.5	83.4	78.9	86.8	85.6	91.0	89.0	86.4	82.6	87.4	89.5
DELAYENR (Delayed enrollment into postsecondary education: number of years)	80,670	97.8	95.2	97.0	98.0	98.4	99.1	94.9	97.5	97.9	95.4	96.0	96.8
DEPANY (Dependents: has any dependents)	80,760	99.9	99.6	99.9	99.9	100.0	99.9	99.8	100.0	99.9	99.6	99.6	100.0
DEPCARE (Dependents: child in paid child care)	11,010	75.6	80.7	73.4	73.4	77.9	77.7	70.0	83.1	79.8	69.2	69.8	79.7
DEPCHILD (Dependents: has dependent children)	80,760	99.9	99.6	99.9	99.9	100.0	99.9	99.8	100.0	99.9	99.6	99.5	100.0
DEPCOL (Independent students: number of dependents in college)	14,550	95.6	93.2	95.5	96.4	96.3	95.8	96.6	97.1	95.7	93.6	93.7	95.7
DEPCOLCS (Amount contributed to college costs for dependents in 2019–20)	2,320	57.1	‡	57.4	66.5	59.8	52.9	55.0	65.3	64.0	30.7	36.7	53.9
DEPCOST (Dependents: children in paid child care—monthly costs)	6,750	55.7	68.2	54.3	51.4	62.8	59.6	40.1	66.6	61.5	49.6	44.6	56.0

See notes at end of table.

Table P-4. Undergraduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public					Private nonprofit			Private for-profit		
			Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
DEPEND (Dependency status)	80,760	99.3	99.4	99.5	99.7	99.4	99.2	97.3	99.4	99.3	96.9	97.4	99.9
DEPEND2 (Dependency status [3 categories])	80,760	99.3	99.4	99.5	99.7	99.4	99.1	97.3	99.4	99.3	96.9	97.4	99.9
DEPEND4 (Dependency status [4 categories])	80,760	99.3	99.4	99.5	99.7	99.4	99.1	97.3	99.4	99.3	96.9	97.4	99.9
DEPEND5A (Dependency and marital status [separated is married])	80,760	99.3	99.4	99.5	99.7	99.4	99.1	97.3	99.4	99.3	96.9	97.4	99.8
DEPEND5B (Dependency and marital status [separated is unmarried])	80,760	99.3	99.4	99.5	99.7	99.4	99.1	97.3	99.4	99.3	96.9	97.4	99.8
DEPINC (Dependent students: parents' income)	50,850	78.8	62.7	76.1	74.6	84.8	80.4	90.4	82.8	75.5	84.6	86.7	90.9
DEPNUM (Dependents: has any dependents [number])	80,760	99.8	99.3	99.8	99.9	100.0	99.8	99.8	100.0	99.9	99.6	99.5	100.0
DEPNUMCH (Dependents: has dependent children [number])	80,760	99.5	99.6	99.3	99.2	99.8	99.8	96.2	99.8	99.6	99.5	99.0	98.2
DEPNUMOT (Dependents: has dependent(s) other than children [number])	80,760	99.4	99.3	99.2	99.1	99.8	99.8	96.2	99.8	99.6	99.5	99.0	98.1
DEPOTCST (Dependents: monthly cost of supporting dependents other than children)	2,320	48.2	‡	50.0	47.0	46.4	50.4	14.7	60.9	51.1	43.7	30.6	40.7
DEPOTHER (Dependents: has dependent(s) other than children)	80,760	99.9	99.6	99.9	99.9	100.0	99.9	99.8	100.0	99.9	99.6	99.5	100.0
DEPTYPE (Dependents: types of dependents)	80,760	99.9	99.6	99.9	99.9	100.0	99.9	99.8	100.0	99.9	99.6	99.5	100.0
DEPYNG (Dependents: age of youngest child)	13,740	94.2	94.2	94.2	94.5	96.2	95.6	85.6	96.1	94.9	90.0	90.2	93.4
DERMAJ (Derived major: 2020 6-digit CIP code)	78,960	99.0	99.9	98.4	97.8	99.7	99.7	99.4	99.7	99.3	97.5	98.4	99.9
DIS16A (Disability: deaf or serious difficulty hearing)	80,760	83.1	80.0	80.1	81.9	84.7	85.1	86.9	86.3	85.5	76.6	79.1	86.3

See notes at end of table.

Table P-4. Undergraduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public					Private nonprofit			Private for-profit		
			Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
DIS16B (Disability: blind or serious difficulty seeing)	80,760	83.1	80.6	80.1	81.8	84.6	85.1	86.9	86.3	85.5	76.6	79.3	86.3
DIS17A (Disability: serious difficulty concentrating, remembering, deciding)	80,760	83.0	80.1	80.0	81.9	84.6	85.0	86.9	86.2	85.5	76.7	79.1	86.1
DIS17B (Disability: serious difficulty walking or climbing stairs)	80,760	83.1	79.8	80.1	81.9	84.6	85.1	86.9	86.1	85.4	76.7	79.2	86.2
DISABLE (Disability: has some type of disability)	80,760	82.7	79.2	79.7	81.5	84.2	84.8	86.9	85.9	85.3	76.2	78.7	85.9
DISTALL (Distance education: entire program at NPSAS was online)	78,960	84.0	81.9	79.1	81.1	85.8	86.4	89.7	88.7	87.3	84.9	84.6	91.0
DISTEDUC (Distance education: any classes taken at NPSAS taught entirely online)	80,760	86.0	82.9	83.8	84.1	87.1	86.9	90.6	88.8	87.8	85.2	85.0	91.2
DISTYPES (Disability: main type of condition or impairment)	27,580	47.0	51.2	45.0	44.8	49.0	48.1	54.4	52.6	48.4	44.4	40.5	52.1
DODAMT (DOD [military] aid)	80,760	84.6	96.4	76.4	91.2	86.5	93.6	77.4	76.6	88.0	67.6	63.8	88.2
DSTUINC (Dependent students: income)	50,850	81.9	66.1	77.3	76.7	86.5	83.8	96.9	86.9	82.3	84.3	87.5	92.2
E01 (Monthly enrollment status [half time] 2019/07)	80,760	98.9	96.0	98.7	99.1	99.3	99.3	97.7	99.1	99.3	95.6	96.1	97.9
E02 (Monthly enrollment status [half time] 2019/08)	80,760	98.9	94.2	98.5	99.0	99.3	99.4	98.2	99.1	99.6	95.3	96.2	98.2
E03 (Monthly enrollment status [half time] 2019/09)	80,760	99.0	93.3	98.6	99.0	99.3	99.5	98.6	99.3	99.7	95.2	96.4	98.5
E04 (Monthly enrollment status [half time] 2019/10)	80,760	99.1	93.1	98.7	99.1	99.4	99.6	98.7	99.3	99.7	95.9	97.0	98.8
E05 (Monthly enrollment status [half time] 2019/11)	80,760	99.0	93.3	98.6	99.1	99.4	99.5	98.7	99.1	99.8	96.1	97.0	98.7
E06 (Monthly enrollment status [half time] 2019/12)	80,760	99.0	93.3	98.6	99.0	99.4	99.5	98.9	99.0	99.7	96.5	97.3	98.5

See notes at end of table.

Table P-4. Undergraduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public					Private nonprofit			Private for-profit		
			Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
E07 (Monthly enrollment status [half time] 2020/01)	80,760	98.9	93.5	98.4	99.0	99.3	99.5	97.6	99.2	99.6	95.3	96.3	98.5
E08 (Monthly enrollment status [half time] 2020/02)	80,760	98.9	93.4	98.4	98.9	99.3	99.6	97.9	99.1	99.6	96.2	96.9	98.3
E09 (Monthly enrollment status [half time] 2020/03)	80,760	98.9	93.2	98.6	98.9	99.3	99.6	96.4	99.4	99.7	95.9	95.9	97.7
E10 (Monthly enrollment status [half time] 2020/04)	80,760	99.1	94.9	98.7	99.2	99.3	99.5	97.0	99.2	99.7	96.9	96.5	98.6
E11 (Monthly enrollment status [half time] 2020/05)	80,760	99.1	94.9	98.7	99.2	99.3	99.6	97.6	99.2	99.7	96.4	96.7	98.5
E12 (Monthly enrollment status [half time] 2020/06)	80,760	99.1	95.1	98.8	99.2	99.3	99.4	98.6	99.0	99.6	97.3	96.9	98.7
EFC (Expected family contribution)	80,760	74.7	56.1	69.0	69.2	79.0	77.2	96.5	78.8	74.4	91.8	94.6	87.1
EFCAID (Aid subject to federal EFC limitation)	80,760	81.7	96.4	75.5	87.6	76.8	89.9	85.9	74.8	86.3	63.9	56.6	81.8
EFFORT20 (Net price after grants and loans as percent of income)	63,460	55.4	52.8	49.1	55.8	51.4	63.0	76.5	52.8	57.1	56.8	42.6	58.4
EFFORT3 (Net price after grants as percent of income)	63,460	56.8	54.7	50.3	57.0	52.5	64.2	79.1	54.5	58.5	59.3	44.7	60.9
EFFORT9 (Net tuition after all grants as percent of income)	63,460	57.7	56.1	51.4	58.6	53.5	64.9	79.2	54.8	58.9	60.5	46.8	61.7
ELAPSE (Number of months between high school completion and postsecondary entry)	80,670	97.5	94.4	96.6	97.7	98.3	98.8	94.7	97.3	97.7	95.2	95.4	96.4
EMPLWAIV (Institution tuition waivers for staff)	80,760	85.3	96.4	78.6	91.1	86.1	93.3	89.6	76.9	88.9	67.6	60.5	88.3
EMPLYAM3 (Employer aid [student and parents])	80,760	99.0	99.2	98.4	99.6	99.2	99.6	98.3	99.1	99.3	96.5	96.9	99.6
EMPLYAMT (Employer aid [includes college staff])	80,760	85.3	96.4	78.5	91.1	86.1	93.3	88.8	76.9	88.9	67.6	60.5	88.3
ENLEN (Number of total months enrolled)	80,760	96.8	91.6	95.8	97.2	97.9	98.1	94.2	97.3	98.6	87.2	88.1	94.1

See notes at end of table.

Table P-4. Undergraduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public					Private nonprofit			Private for-profit		
			Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
ENR01 (Monthly enrollment status 2019/07)	80,760	98.9	96.0	98.7	99.1	99.3	99.3	97.7	99.1	99.3	95.6	96.1	97.9
ENR02 (Monthly enrollment status 2019/08)	80,760	98.9	94.2	98.5	99.0	99.3	99.4	98.2	99.1	99.6	95.3	96.2	98.2
ENR03 (Monthly enrollment status 2019/09)	80,760	99.0	93.3	98.6	99.0	99.3	99.5	98.6	99.3	99.7	95.2	96.4	98.5
ENR04 (Monthly enrollment status 2019/10)	80,760	99.1	93.1	98.7	99.1	99.4	99.6	98.7	99.3	99.7	95.9	97.0	98.8
ENR05 (Monthly enrollment status 2019/11)	80,760	99.0	93.3	98.6	99.1	99.4	99.5	98.7	99.1	99.8	96.1	97.0	98.7
ENR06 (Monthly enrollment status 2019/12)	80,760	99.0	93.3	98.6	99.0	99.4	99.5	98.9	99.0	99.7	96.5	97.3	98.5
ENR07 (Monthly enrollment status 2020/01)	80,760	98.9	93.5	98.4	99.0	99.3	99.5	97.6	99.2	99.6	95.3	96.3	98.5
ENR08 (Monthly enrollment status 2020/02)	80,760	98.9	93.4	98.4	98.9	99.3	99.6	97.9	99.1	99.6	96.2	96.9	98.3
ENR09 (Monthly enrollment status 2020/03)	80,760	98.9	93.2	98.6	98.9	99.3	99.6	96.4	99.4	99.7	95.9	95.9	97.7
ENR10 (Monthly enrollment status 2020/04)	80,760	99.1	94.9	98.7	99.2	99.3	99.5	97.0	99.2	99.7	96.9	96.5	98.6
ENR11 (Monthly enrollment status 2020/05)	80,760	99.1	94.9	98.7	99.2	99.3	99.6	97.6	99.2	99.7	96.4	96.7	98.5
ENR12 (Monthly enrollment status 2020/06)	80,760	99.1	95.1	98.8	99.2	99.3	99.4	98.6	99.0	99.6	97.3	96.9	98.7
ENRFALL (Enrolled any time between July and December 2019)	80,760	97.8	92.4	97.3	98.0	98.7	98.8	96.6	98.0	99.0	90.9	92.5	95.8
ENRSPR (Enrolled any time between January and June 2020)	80,760	98.1	92.8	97.5	98.4	98.8	99.0	95.4	98.5	99.3	92.1	92.9	96.4
ENRSTAT (Enrollment pattern)	80,760	96.9	91.8	96.0	97.3	98.1	98.3	94.2	97.4	98.8	87.9	88.7	94.3
ESUBMX2 (Direct Subsidized Loan individual maximum)	20,080	93.4	77.2	75.2	80.9	96.0	98.5	98.4	95.9	96.6	88.0	90.1	97.4

See notes at end of table.

Table P-4. Undergraduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public					Private nonprofit			Private for-profit		
			Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
ETOTMX2 (Direct Subsidized and Unsubsidized Loan individual total maximum)	22,490	99.4	100.0	99.4	99.7	99.9	99.7	99.3	99.8	99.6	94.7	95.0	98.4
FAMHELP (Other financial support received)	80,760	83.2	79.9	80.3	82.0	84.6	85.1	87.2	86.3	85.6	77.4	79.6	86.0
FAMHPAM (Help from family and friends: total amount in 2019–20)	80,760	83.1	79.8	80.2	81.8	84.5	85.0	87.1	86.0	85.4	77.3	79.4	85.8
FEDAPP (Applied for federal aid)	80,760	94.3	97.4	89.9	94.8	95.7	97.5	97.7	93.1	96.3	96.9	97.8	98.2
FEDBEN (Received federal benefit: any)	80,760	48.0	49.2	52.1	49.3	42.1	41.2	50.9	44.2	49.0	65.8	60.2	56.6
FEDBENA (Received federal benefit: food stamp benefits)	80,760	66.6	81.2	76.3	72.3	57.0	53.3	69.6	57.9	61.7	81.2	85.0	88.7
FEDBENB (Received federal benefit: free or reduced-price school lunch benefits)	80,760	46.7	51.9	50.8	48.3	39.5	39.8	46.5	44.6	48.4	57.9	57.1	56.6
FEDBENC (Received federal benefit: Supplemental Security Income benefits)	80,760	68.4	84.4	77.7	74.4	59.5	55.6	69.8	60.0	63.4	81.6	84.1	89.6
FEDBEND (Received federal benefit: TANF benefits)	80,760	43.4	47.4	47.8	44.7	35.9	35.7	39.7	41.4	45.9	55.2	54.7	54.3
FEDBENE (Received federal benefit: WIC benefits)	80,760	38.1	39.7	40.9	39.5	32.5	33.8	33.8	36.2	41.2	47.8	43.6	37.8
FEDCUM1 (Cumulative federal loan amount for undergraduate)	80,760	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
FEDDUE1 (Cumulative federal loan amount owed, principal and interest, undergraduate)	80,760	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
FEDGRPCT (Ratio of federal grants to total aid)	69,440	65.7	88.8	53.0	66.7	60.3	78.0	72.0	63.0	74.1	51.8	45.3	64.7
FEDLNPAK (Federal loan package by type of loan)	80,760	100.0	100.0	100.0	100.0	100.0	99.9	99.9	100.0	99.9	99.6	99.4	100.0

See notes at end of table.

Table P-4. Undergraduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public					Private nonprofit			Private for-profit		
			Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
FEDNEED (Federal need-based aid)	80,760	90.5	98.4	88.9	94.5	86.2	94.1	87.9	87.2	93.2	71.4	64.7	88.8
FEDOWE1 (Cumulative federal loan amount owed for undergraduate)	80,760	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
FEDPACK (Federal aid package by type of aid)	80,760	76.0	96.4	70.6	81.7	69.7	84.3	75.4	68.3	80.3	59.3	53.1	71.0
FEDPCT (Ratio of federal aid to total aid)	69,440	65.7	88.8	53.0	66.7	60.3	78.0	72.0	63.0	74.1	51.8	45.3	64.7
FEDPLUSCUM1 (Cumulative federal loan amount for undergraduate [including Parent PLUS Loans])	80,760	100.0	100.0	100.0	100.0	100.0	99.9	99.9	100.0	99.9	99.6	99.4	100.0
FGRTLN (Total federal loans and grants)	80,760	76.0	96.4	70.6	81.7	69.7	84.4	75.5	68.4	80.4	60.3	54.6	71.0
FIN2000 (Financial security: \$2,000 within the next month)	80,760	83.0	79.7	80.1	82.0	84.5	84.9	86.8	86.1	85.3	76.8	79.5	85.3
FIN500 (Financial security: \$500 within the next month)	80,760	82.6	79.7	79.6	81.6	84.1	84.6	86.7	85.7	85.1	76.1	78.9	85.0
FINLIT1 (Financial literacy: effect of inflation on purchasing)	80,760	82.0	77.3	78.9	80.7	83.4	84.2	85.1	85.2	84.9	74.2	78.0	84.3
FINLIT2 (Financial literacy: effect of interest on savings)	80,760	82.4	77.8	79.4	81.3	84.0	84.5	86.0	85.3	84.8	75.2	78.3	84.9
FINLIT3 (Financial literacy: effect of diversification on risk)	80,760	82.9	80.0	80.0	81.8	84.3	85.0	86.8	85.9	85.2	76.4	79.1	85.8
FINLITALL (Financial literacy: correctly answered all three items)	80,760	82.9	79.6	79.9	81.8	84.4	84.9	86.9	86.1	85.2	76.6	79.4	85.9
FINLITTOT (Financial literacy: number of correct responses)	80,760	81.5	77.1	78.4	79.9	82.7	83.9	84.5	84.5	84.5	73.3	77.2	83.5
FOODSEC (Food security status: previous 30 days)	80,760	94.6	95.8	93.1	94.8	94.8	96.3	93.9	96.1	96.0	86.1	89.0	94.1
GENDER (Gender)	80,760	99.9	100.0	99.8	99.9	100.0	100.0	99.7	100.0	99.9	99.9	99.7	100.0

See notes at end of table.

Table P-4. Undergraduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public					Private nonprofit			Private for-profit		
			Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
GPA (Estimated grade point average)	80,760	84.0	29.3	77.8	86.2	88.5	92.0	65.7	80.1	90.7	42.2	66.1	84.6
GPACAT (Estimated grade point average [categorical])	80,760	88.9	65.4	85.1	90.1	91.7	93.3	75.5	86.2	92.4	71.9	80.8	91.0
GRNTSRC (Grant package by source of grant)	80,760	75.5	96.4	69.9	81.4	68.3	83.8	75.5	68.3	80.0	60.2	51.2	71.0
GRTCST (Ratio of grant aid to student budget)	63,460	72.3	86.1	66.4	76.5	64.6	80.1	82.0	66.9	78.2	61.6	44.4	68.6
GRTPCT (Ratio of grants to total aid)	69,440	65.7	88.8	53.0	66.7	60.3	78.0	72.0	63.0	74.1	51.8	45.3	64.7
GRTPCTTN (Ratio of grant aid to tuition)	63,460	75.3	96.2	70.4	81.1	67.5	82.7	82.3	67.4	79.4	63.7	47.6	71.5
GRTSNEED (Grant amount exceeding federal need)	57,150	46.5	42.9	35.9	41.6	43.1	55.5	78.5	49.1	53.0	51.3	39.2	53.2
HCHONORS2 (Number of honors subjects [dependent students])	50,850	33.5	22.2	23.8	25.6	37.3	39.8	22.6	35.5	41.0	15.3	13.7	25.5
HCMATHHI2 (Highest level of math completed or planned [dependent students])	50,850	92.7	90.6	89.9	90.0	94.6	94.5	86.5	94.3	94.8	80.0	78.4	92.2
HIGLVEX (Highest level of education ever expected)	80,760	99.0	97.6	98.0	98.7	99.4	99.7	99.7	99.7	99.6	98.9	98.5	98.4
HISPANIC (Race: Hispanic or Latino origin)	80,760	98.5	99.8	97.6	98.9	98.8	99.6	97.6	99.0	98.7	92.2	93.9	99.1
HISPTYPE (Hispanic type)	80,760	95.0	95.4	92.7	94.1	95.7	96.9	96.0	97.2	96.7	89.2	89.5	96.7
HOMELESS (Homeless or at risk of homelessness [under 24])	55,970	98.6	98.3	98.6	99.0	99.0	98.9	92.0	99.2	98.9	90.2	90.0	95.3
HOMELESS2 (Homeless or at risk of homelessness)	80,760	99.1	99.2	99.3	99.4	99.3	99.1	96.8	99.4	99.2	95.8	96.2	98.9
HOMELESS3 (Experienced homelessness: previous 30 days)	80,760	93.8	95.9	92.2	93.7	94.5	95.6	93.4	95.1	95.0	85.4	88.7	92.9
HOMESTUD (Student owns home or pays mortgage)	67,190	79.4	75.8	79.5	81.1	78.8	79.1	86.8	77.4	75.2	76.7	76.8	85.4

See notes at end of table.

Table P-4. Undergraduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public					Private nonprofit			Private for-profit		
			Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
HSCRDAP (Took Advanced Placement courses while in high school)	67,150	86.5	82.4	84.6	84.8	87.5	87.3	89.7	88.0	88.2	85.2	85.5	90.5
HSCRDCOL (Took college-level courses while in high school)	67,150	86.5	82.7	84.5	84.7	87.6	87.3	89.7	88.0	88.1	85.6	85.5	90.7
HSCRDIB (Took International Baccalaureate courses while in high school)	67,150	86.2	82.0	84.2	84.6	87.4	87.1	89.6	87.6	87.7	85.3	84.7	90.1
HSDEG (High school degree type)	80,760	100.0	100.0	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
HSGPA2 (Grade point average in high school [dependent students])	50,850	87.9	85.6	84.4	83.4	90.8	91.7	79.7	87.2	89.0	72.8	67.4	83.2
HSGRADYM (High school completion date [year and month])	80,660	98.6	98.5	98.1	99.0	99.0	99.4	98.0	98.1	98.3	98.7	98.0	97.4
HSGRADYY (High school graduation year)	80,660	98.8	98.9	98.4	99.2	99.0	99.5	98.0	98.4	98.4	99.1	98.5	97.7
HSIZE (Family size [dependent and independent])	80,760	99.5	97.0	99.4	99.3	99.8	99.5	99.9	99.8	99.5	99.8	99.5	99.8
HSTKANY (Took any college credits in high school)	67,150	86.2	82.1	84.2	84.4	87.4	87.1	89.7	87.8	87.8	84.8	84.9	90.3
HSTYPE (Type of high school last attended)	75,150	86.8	83.0	85.0	85.3	87.6	87.5	92.1	89.0	88.3	87.1	86.6	89.6
IMMIAGE (Age when arrived in United States)	22,280	40.0	41.7	37.7	44.9	39.9	41.3	52.7	39.0	42.0	26.7	31.7	45.2
IMMIGEN (Immigrant generational status)	79,250	82.6	77.4	79.3	81.4	84.3	84.9	86.8	85.5	85.6	76.5	79.0	85.5
IMMIGRA (Immigrant status)	80,760	83.6	79.0	80.5	82.2	84.9	85.6	88.2	86.3	86.5	78.1	80.3	86.2
INATHAMT (Athletic scholarships)	80,760	91.8	97.8	89.6	97.1	91.0	96.0	91.5	84.5	91.8	75.9	71.4	93.8
INCOME (Total income by dependency [categorical])	80,760	76.6	58.6	71.6	71.8	81.0	79.3	94.4	80.0	75.7	88.7	91.2	87.0
INCPCT1 (Student budget as percent of income)	63,460	71.2	55.1	66.4	67.1	74.4	75.4	90.1	72.4	71.2	80.2	71.8	79.2

See notes at end of table.

Table P-4. Undergraduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public					Private nonprofit			Private for-profit		
			Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
INCPCT2 (Tuition as percent of income)	63,460	75.5	57.4	70.9	71.0	80.2	78.5	92.0	79.1	74.6	87.4	85.5	85.3
INCQUART (Income quartile)	80,760	76.6	58.6	71.6	71.8	81.0	79.3	94.4	80.0	75.7	88.7	91.2	87.0
INDEPINC (Independent students: student and spouse's income)	30,720	72.5	55.5	67.2	68.5	72.9	74.2	92.6	73.7	74.5	86.7	89.7	86.0
INGRTAMT (Institution grants total)	80,760	85.3	96.4	78.6	91.1	86.0	93.3	89.6	76.8	88.6	67.6	60.5	88.3
INJURIS (Tuition jurisdiction)	80,760	99.9	100.0	99.8	99.9	99.9	99.9	100.0	100.0	100.0	100.0	100.0	100.0
INLNAMT (Institution loans)	80,760	94.5	100.0	95.7	98.7	92.9	96.5	98.5	88.8	93.3	74.6	70.0	91.2
INSMERIT (Institution merit-based-only grants)	80,760	91.8	97.8	89.6	97.1	91.0	96.0	91.5	84.4	91.7	75.9	71.4	93.8
INSMILAMT (Institution military/ Armed Forces grants)	80,760	85.3	96.4	78.6	91.1	86.1	93.4	89.6	76.9	88.9	67.6	60.5	88.3
INSTAMT (Institution aid total)	80,760	85.3	96.4	78.6	91.1	86.0	93.3	89.6	76.7	88.6	67.6	60.5	88.3
INSTGPCT (Ratio of institution grants to total aid)	69,440	65.7	88.8	53.0	66.7	60.3	78.0	72.0	63.0	74.1	51.8	45.3	64.7
INSTNEED (Institution need-based grants)	80,760	91.8	97.8	89.6	97.1	91.0	96.0	91.5	84.5	91.8	75.9	71.4	93.8
INSTNOND (Institution non-need- and merit-based grants)	80,760	85.3	96.4	78.6	91.1	86.0	93.3	89.6	76.8	88.6	67.6	60.5	88.3
INSTNOND1 (Institution non-need-based grants)	80,760	85.3	96.4	78.6	91.1	86.0	93.3	89.6	76.9	88.8	67.6	60.5	88.3
INSTPACK (Aid package with institution aid)	80,760	81.6	96.1	77.3	89.6	78.7	88.2	87.1	69.4	81.8	67.2	58.8	85.4
INSTPCT (Ratio of institution aid to total aid)	69,440	65.7	88.8	53.0	66.7	60.3	78.0	72.0	63.0	74.1	51.8	45.3	64.7
INSTWRK (Institution work-study)	80,760	98.3	99.1	97.9	99.4	98.7	99.1	98.5	96.5	97.7	94.5	95.5	99.4
INSVETAMT (Institution veterans education benefits)	80,760	98.6	99.1	97.7	98.7	99.3	99.5	99.0	98.7	98.8	95.8	95.4	99.1
INSWAIV (Institution tuition and fee waivers)	80,760	85.3	96.4	78.6	91.1	86.1	93.3	89.6	76.9	88.9	67.6	60.5	88.3
ISTUINC (Independent students: income [continuous])	30,720	73.8	56.5	68.5	70.8	74.2	75.0	92.8	76.5	75.9	87.0	90.0	86.2

See notes at end of table.

Table P-4. Undergraduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public					Private nonprofit			Private for-profit		
			Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
JOBANY (Job: had job while enrolled in 2019–20 [excluding work-study/fellowship])	80,760	95.4	96.7	94.1	95.5	95.6	96.9	94.3	96.3	96.4	88.8	91.2	94.9
JOBANY2 (Job: had job while enrolled in 2019–20 [including work-study/fellowship])	80,760	95.3	96.7	94.0	95.5	95.6	96.8	94.1	95.8	96.2	88.7	91.2	94.9
JOBANY3 (Job: had job at any time in 2019–20 [including work-study/fellowship])	80,760	96.4	97.6	95.3	96.6	96.7	97.6	95.1	96.7	96.9	92.3	93.5	96.3
JOBEARN (Job: earnings from work while enrolled [excluding work-study/fellowship])	80,760	94.8	96.7	93.4	94.9	95.3	96.4	94.2	95.6	96.1	87.8	90.7	94.1
JOBEARN2 (Job: earnings from work while enrolled [including work-study/fellowship])	80,760	92.6	95.7	92.5	94.1	93.4	94.4	93.9	88.3	89.0	87.5	90.4	93.6
JOBEARN3 (Job: earnings from work [including work-study/fellowship])	80,760	92.4	96.0	92.4	93.9	93.2	94.2	93.8	88.3	88.7	87.5	90.3	93.5
JOBENR (Jobs while enrolled: work intensity [excluding work-study/fellowship])	80,760	95.2	96.6	93.8	95.3	95.4	96.6	94.2	95.9	96.3	88.7	91.0	94.7
JOBENR2 (Jobs while enrolled: work intensity [including work-study/fellowship])	80,760	94.4	96.6	93.6	95.1	94.7	96.0	94.1	92.5	93.6	88.6	90.9	94.7
JOBENR3 (Job: work intensity [including work-study/fellowship])	80,760	93.1	96.0	93.1	94.8	93.9	94.7	94.2	89.0	89.5	88.5	90.8	94.5
JOBHOUR (Jobs while enrolled: hours worked per week [excluding work-study/fellowship])	80,760	95.2	96.6	93.8	95.3	95.4	96.6	94.2	95.9	96.3	88.7	91.0	94.7
JOBHOUR2 (Jobs while enrolled: hours worked per week [including work-study/fellowship])	80,760	94.4	96.6	93.6	95.1	94.7	96.0	94.1	92.5	93.6	88.6	90.9	94.7

See notes at end of table.

Table P-4. Undergraduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public					Private nonprofit			Private for-profit		
			Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
JOBHOUR3 (Job: hours worked per week [including work-study/fellowship])	80,760	93.1	96.0	93.1	94.8	93.9	94.7	94.2	89.0	89.5	88.5	90.8	94.5
JOBMAJOR (Jobs while enrolled: related to major or field of study [excluding work-study/fellowship])	55,920	93.2	95.0	91.7	93.4	93.8	95.4	91.2	94.0	94.4	81.8	85.8	92.5
JOBMAJOR2 (Jobs while enrolled: related to major or field of study [including work-study/fellowship])	57,690	90.5	93.6	90.7	92.3	91.7	92.8	90.9	85.3	86.0	81.3	85.3	91.9
JOBMAJOR3 (Job: related to major or field of study [including work-study/fellowship])	60,780	91.3	94.8	91.4	93.2	92.4	93.4	91.8	86.5	87.2	83.7	87.1	92.5
JOBONOFF (Jobs while enrolled: located primarily on or off campus [excluding work-study/fellowship])	55,920	93.4	92.4	91.8	93.8	93.8	95.5	91.5	94.4	94.5	81.6	85.8	92.8
JOBROLE (Job: primary role as student or employee [excluding work-study/fellowship])	55,870	80.1	84.3	85.1	87.1	80.2	78.1	83.0	67.8	67.8	72.9	76.6	86.4
JOBROLE2 (Job: primary role as student or employee [including work-study/fellowship])	57,800	80.8	84.3	85.3	87.4	80.8	79.0	83.3	70.8	70.8	72.9	76.7	86.6
JOBTYPE2 (Type of job student had while enrolled [including work-study/fellowship])	57,670	93.4	93.7	91.9	93.9	93.9	95.5	91.2	93.9	94.1	81.6	85.6	92.5
LNREPAY (Expect help with repaying student loans)	47,900	49.4	33.7	29.9	34.8	54.9	61.7	67.2	53.2	57.2	43.4	41.7	59.1
LOANCST2 (Ratio of loans to student budget [includes Parent PLUS Loans])	63,460	84.1	84.9	81.5	86.9	82.9	89.0	88.3	78.2	86.6	67.7	53.7	80.3
LOANLIT1 (Loan literacy: government can report unpaid debt to credit bureaus)	80,760	85.0	82.4	82.7	83.8	86.0	86.3	89.3	87.5	86.9	81.9	82.9	87.9

See notes at end of table.

Table P-4. Undergraduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public					Private nonprofit			Private for-profit		
			Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
LOANLIT2 (Loan literacy: government can garnish wages for unpaid federal loan debt)	80,760	85.0	82.4	82.7	83.8	86.0	86.3	89.3	87.5	86.9	81.9	82.9	87.9
LOANLIT3 (Loan literacy: government can retain tax refunds, Social Security for loan debt)	80,760	85.0	82.4	82.7	83.8	86.0	86.3	89.3	87.5	86.9	81.9	82.9	87.9
LOANLITALL (Loan literacy: correctly answered all three items)	80,760	85.0	82.4	82.7	83.8	86.0	86.3	89.3	87.5	86.9	81.9	82.9	87.9
LOANLITTOT (Loan literacy: number of correct responses)	80,760	85.0	82.4	82.7	83.8	86.0	86.3	89.3	87.5	86.9	81.9	82.9	87.9
LOANPCT (Label 1: ratio of loans to total aid [excluding Parent PLUS Loans] Label 2: ratio of loans to total aid)	69,440	65.7	88.8	53.0	66.7	60.3	78.0	72.0	63.0	74.1	51.8	45.3	64.7
LOANPCT2 (Ratio of loans to total aid [including Parent PLUS Loans])	69,440	65.7	88.8	53.0	66.7	60.3	78.0	72.0	63.0	74.1	51.8	45.3	64.7
LOANSRC (Loan package by source of loan)	80,760	89.8	96.0	89.2	94.2	88.9	94.0	92.7	82.8	89.5	66.2	62.7	86.4
LOCALEST (Degree of urbanization of student's permanent address)	79,190	97.5	98.4	98.1	97.9	96.8	98.5	99.2	94.2	95.7	99.3	93.7	96.8
LOCALRES (Residence while enrolled)	80,760	90.8	79.6	86.8	89.4	92.1	93.1	94.2	93.7	94.0	91.2	91.0	94.0
MAJCHGFQ (Majors: frequency of formally changed)	70,960	78.5	‡	69.0	73.2	83.4	85.0	82.3	85.0	85.0	‡	72.7	83.9
MAJORCTE (Major field of study in career and technical education field—2020 CIP)	78,960	99.0	99.9	98.4	97.8	99.7	99.7	99.4	99.7	99.3	97.5	98.4	99.9
MAJORSNF (Major field of study classified by National Science Foundation—2020 CIP)	78,960	99.0	99.9	98.4	97.8	99.7	99.7	99.4	99.7	99.3	97.5	98.4	99.9

See notes at end of table.

Table P-4. Undergraduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public					Private nonprofit			Private for-profit		
			Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
MAJORSF_2010 (Major field of study classified by National Science Foundation—2010 CIP)	78,960	99.0	99.9	98.4	97.8	99.7	99.7	99.4	99.7	99.3	97.5	98.4	99.9
MAJORS (Field of study or major [detailed]—2020 CIP)	78,960	99.0	99.9	98.4	97.8	99.7	99.7	99.4	99.7	99.3	97.5	98.4	99.9
MAJORS_2010 (Field of study or major [detailed]—2010 CIP)	78,960	99.0	99.9	98.4	97.8	99.7	99.7	99.4	99.7	99.3	97.5	98.4	99.9
MAJORS12 (Field of study or major: undergraduate—2020 CIP)	78,960	99.0	99.9	98.4	97.8	99.7	99.7	99.4	99.7	99.3	97.5	98.4	99.9
MAJORS12_2010 (Field of study or major: undergraduate—2010 CIP)	78,960	99.0	99.9	98.4	97.8	99.7	99.7	99.4	99.7	99.3	97.5	98.4	99.9
MAJORS23 (Field of study: undergraduate [23 categories]—2020 CIP)	78,960	99.0	99.9	98.4	97.8	99.7	99.7	99.4	99.7	99.3	97.5	98.4	99.9
MAJORS23_2010 (Field of study: undergraduate [23 categories]—2010 CIP)	78,960	99.0	99.9	98.4	97.8	99.7	99.7	99.4	99.7	99.3	97.5	98.4	99.9
MAJORS2Y (Field of study: undergraduate [11 categories]—2020 CIP)	78,960	99.0	99.9	98.4	97.8	99.7	99.7	99.4	99.7	99.3	97.5	98.4	99.9
MAJORS2Y_2010 (Field of study: undergraduate [11 categories]—2010 CIP)	78,960	99.0	99.9	98.4	97.8	99.7	99.7	99.4	99.7	99.3	97.5	98.4	99.9
MAJORS4Y (Field of study: undergraduate [10 categories]—2020 CIP)	78,960	99.0	99.9	98.4	97.8	99.7	99.7	99.4	99.7	99.3	97.5	98.4	99.9
MAJORS4Y_2010 (Field of study: undergraduate [10 categories]—2010 CIP)	78,960	99.0	99.9	98.4	97.8	99.7	99.7	99.4	99.7	99.3	97.5	98.4	99.9
MEALPLAN (Meal plan: had meal plan in 2019–20)	80,760	95.4	97.0	93.9	95.8	96.0	97.0	94.6	96.7	96.3	87.7	90.3	95.2

See notes at end of table.

Table P-4. Undergraduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public					Private nonprofit			Private for-profit		
			Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
MEALPLANFQ (Meal plan: meal plan covered 11 or more meals per week)	19,630	77.4	67.9	32.5	40.5	85.0	88.7	46.1	92.0	91.2	9.1	24.2	28.9
MERITAID (Total merit-based-only grants)	80,760	87.0	97.2	81.9	93.9	86.9	93.8	89.5	77.5	89.0	69.9	64.2	88.0
MFT (Number of full-time months enrolled)	80,760	99.2	97.1	99.3	99.7	99.7	99.7	97.1	99.5	99.6	91.6	92.2	97.1
MHT (Months enrolled half time)	80,760	98.1	94.8	97.4	97.9	98.6	98.8	96.7	98.3	99.4	95.3	95.8	96.6
MILTOT (Total federal and nonfederal military/Armed Forces grants)	80,760	84.1	96.4	75.7	91.1	86.0	92.9	77.4	76.6	87.8	67.6	60.4	87.9
MILTYPE (Military type)	80,760	99.7	100.0	99.9	99.8	99.7	99.4	99.7	99.5	99.7	99.8	100.0	99.9
MILTYPE2 (Military type [for dependency])	80,760	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.9	100.0	100.0
MLT (Months enrolled less than half time)	80,760	98.7	95.7	98.0	98.7	99.3	99.2	97.0	98.7	99.4	98.4	98.1	99.0
MNTRENT (Monthly mortgage or rent amount)	67,190	77.4	73.9	77.3	78.7	77.3	77.7	84.3	76.0	73.6	72.9	73.7	82.6
MPT (Number of part-time months enrolled)	80,760	97.5	94.6	96.5	97.5	98.4	98.5	95.3	97.8	99.1	95.2	95.3	96.4
NEEDAID (Total need-based grant aid)	80,760	82.5	96.4	76.3	88.6	77.4	90.5	87.8	75.3	87.2	65.7	59.5	81.9
NEEDAID1 (Total need-based aid)	80,760	82.2	96.4	76.1	88.4	77.0	90.2	85.9	74.9	86.7	64.5	58.5	81.8
NETCST1 (Student budget minus all aid)	63,460	70.4	83.4	64.6	74.7	63.3	78.5	79.3	64.6	76.2	57.5	40.8	65.0
NETCST10 (Tuition and fees minus federal grants)	63,460	75.9	96.2	71.0	81.4	68.9	83.2	82.3	67.5	79.8	63.7	53.0	71.5
NETCST12 (Tuition and fees minus state grants)	63,460	85.7	96.2	79.3	92.0	84.6	93.0	86.0	76.1	87.9	76.8	60.1	90.4
NETCST13 (Tuition and fees minus institution grants)	63,460	85.3	96.2	79.0	90.9	85.5	92.4	86.0	76.0	88.1	72.7	54.8	90.7

See notes at end of table.

Table P-4. Undergraduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public					Private nonprofit			Private for-profit		
			Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
NETCST14 (Tuition and fees minus all nonfederal grants)	63,460	84.9	96.2	78.5	90.7	83.8	92.2	86.0	76.0	87.5	72.7	54.7	90.4
NETCST15 (Tuition and fees minus state and institution grants)	63,460	85.0	96.2	78.7	90.8	84.3	92.3	86.0	76.0	87.5	72.7	54.7	90.4
NETCST16 (Student budget minus federal and state grants)	63,460	72.6	86.1	66.6	76.7	64.8	80.6	82.0	66.9	78.4	61.6	48.5	68.6
NETCST17 (Student budget minus all grants and loans)	63,460	70.5	83.4	64.6	74.7	63.3	78.6	79.3	64.7	76.3	57.7	41.5	65.1
NETCST2 (Student budget minus federal grants)	63,460	72.8	86.1	67.0	76.7	65.8	80.6	82.0	67.0	78.5	61.6	48.5	68.6
NETCST20 (Student budget minus all grants and loans [including Parent PLUS Loans])	63,460	70.4	83.4	64.6	74.7	63.3	78.5	79.3	64.7	76.2	57.6	40.8	65.1
NETCST3 (Student budget minus all grants)	63,460	72.3	86.1	66.4	76.5	64.6	80.1	82.0	66.9	78.2	61.6	44.4	68.6
NETCST41 (Student budget minus all aid except private loans)	63,460	72.3	86.1	66.4	76.5	64.6	80.1	81.9	66.8	78.1	61.3	43.7	68.6
NETCST43 (Student budget minus all aid except loans)	63,460	70.4	83.4	64.6	74.7	63.3	78.5	79.3	64.6	76.2	57.5	40.8	65.0
NETCST9 (Tuition and fees minus all grants)	63,460	75.3	96.2	70.4	81.1	67.5	82.7	82.3	67.4	79.4	63.7	47.6	71.5
NFEDCUM1 (Cumulative nonfederal loan amount for undergraduate)	80,760	77.3	79.1	77.3	79.6	77.2	80.3	83.2	73.2	76.9	57.1	52.6	74.8
NUMJOB (Jobs while enrolled: number in 2019–20 [excluding work-study/fellowship])	80,760	95.4	96.7	94.1	95.5	95.6	96.9	94.3	96.3	96.4	88.8	91.2	94.9
NUMJOB2 (Jobs while enrolled: number in 2019–20 [including work-study/fellowship])	80,760	95.3	96.7	94.0	95.5	95.6	96.8	94.1	95.8	96.2	88.7	91.2	94.9

See notes at end of table.

Table P-4. Undergraduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public					Private nonprofit			Private for-profit		
			Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
NUMJOB3 (Job: number in 2019–20 [including work-study/fellowship])	80,760	96.4	97.6	95.3	96.6	96.7	97.6	95.1	96.7	96.9	92.3	93.5	96.3
ORPHAN (Orphan, ward of court, emancipated minor, or in legal guardianship [under 24])	55,940	99.2	95.8	98.8	98.7	99.5	99.5	98.7	99.4	99.4	97.5	97.7	98.7
ORPHAN2 (Orphan, ward of court, emancipated minor, or in legal guardianship)	80,760	99.5	97.9	99.4	99.3	99.7	99.6	99.5	99.6	99.6	98.9	99.1	99.7
OTHFDGRT (Other federal grants [not Title IV])	80,760	76.4	96.4	70.9	82.0	70.2	84.5	75.5	68.5	80.7	61.8	54.6	73.0
OTHGTAMT (Outside grants [private and employer])	80,760	98.8	99.2	98.1	99.3	98.4	99.5	98.2	98.7	99.0	96.1	96.5	99.6
OTHRSCR (Outside sources total)	80,760	82.2	93.6	74.0	88.7	83.7	91.6	74.7	74.1	85.6	63.3	59.2	84.1
OTHTYPE (Label 1: total other type of aid [Direct PLUS, job training, VA] Label 2: total other type of aid [Direct PLUS, assistantships, VA])	80,760	84.4	96.4	76.3	91.2	85.6	93.3	77.3	76.6	87.8	67.3	63.2	87.9
OTHTYPE2 (Total other type of aid including work-study)	80,760	83.9	96.4	75.9	90.9	84.5	92.8	77.2	76.0	87.1	65.9	61.4	87.3
OWEAMT1 (Amount still owed on all undergraduate loans)	80,760	76.6	76.5	76.9	78.9	76.4	79.3	83.5	72.4	75.7	56.8	52.8	74.9
PAGI (Dependent students: parents' adjusted gross income)	48,250	73.8	59.7	68.2	67.5	80.2	76.4	93.4	79.9	72.0	84.8	84.6	85.6
PAR1 (Parent type 1 [for parents' highest education])	80,760	99.5	97.5	99.4	99.5	99.6	99.7	99.5	99.6	99.8	98.9	98.7	99.1
PAR2 (Parent type 2 [for parents' highest education])	80,760	95.1	91.1	94.2	93.3	95.7	96.3	93.9	95.7	96.3	92.5	92.4	95.1
PARBORN (Parent born in United States, Puerto Rico, or U.S. territory)	80,760	83.1	79.8	80.2	82.0	84.8	85.2	86.9	86.1	85.4	76.7	79.3	86.0

See notes at end of table.

Table P-4. Undergraduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public					Private nonprofit			Private for-profit		
			Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
PARED1 (Parent 1 highest education level)	80,760	99.6	98.1	99.5	99.7	99.8	99.7	99.7	99.7	99.9	98.5	98.8	99.5
PARED2 (Parent 2 highest education level)	80,760	95.1	91.3	94.4	93.3	95.9	96.3	93.4	95.7	96.3	91.9	92.2	94.9
PAREduc (Parents' highest education level)	80,760	95.1	91.1	94.2	93.2	95.9	96.3	93.2	95.7	96.2	91.6	92.1	94.9
PARFEMED (Female parent's highest education level)	80,480	95.2	91.7	94.4	93.6	96.0	96.4	93.1	95.8	96.4	92.1	92.4	95.4
PARHELP (Help from parents: housing, tuition, other expenses)	55,830	73.3	59.7	65.0	69.4	77.4	80.0	62.3	79.8	80.3	44.0	46.8	51.5
PARHELP2 (Label 1: help from parents: housing, tuition, other expenses [including independent students] Label 2: help from parents: housing, tuition, other expenses)	80,760	83.4	80.5	80.6	82.2	84.6	85.2	87.4	86.4	85.8	77.7	79.8	86.0
PARHPAMT (Help from parents: amount parents helped pay for expenses in 2019–20)	55,940	72.4	58.2	64.2	68.7	76.6	79.3	61.4	78.9	79.2	43.6	46.0	49.6
PARHPAMT2 (Label 1: help from parents: amount paid for expenses [including independent students] Label 2: help from parents: amount parents helped pay for expenses)	80,760	82.8	79.7	80.0	81.8	84.0	84.6	86.9	85.8	84.9	77.2	79.3	85.2
PARMALED (Male parent's highest education level)	79,490	94.8	90.3	93.8	92.9	95.5	96.1	93.8	95.5	96.1	91.2	91.7	94.5
PAROCC1 (Parent 1 socioeconomic index)	50,850	89.0	84.2	87.4	88.6	89.9	89.9	84.0	90.2	90.9	75.2	81.0	85.7
PAROCC2 (Parent 2 socioeconomic index)	50,850	83.1	79.0	80.3	81.3	83.2	85.0	73.5	84.4	85.6	67.1	68.5	85.1

See notes at end of table.

Table P-4. Undergraduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public					Private nonprofit			Private for-profit		
			Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
PAYEARN (Financing education: earnings from employment other than work-study)	80,760	97.6	98.1	96.8	97.5	97.6	98.4	97.0	98.1	98.1	93.7	95.3	97.5
PAYFAM (Financing education: financial assistance from parents/family/friends)	80,760	97.6	98.5	96.7	97.7	98.0	98.5	97.2	98.3	98.2	94.3	95.5	97.8
PAYOTH (Financing education: other source(s))	80,760	96.6	96.9	95.9	97.1	96.9	97.3	96.4	96.8	96.8	93.7	94.8	97.1
PCTALL (Income percentile rank)	80,760	76.6	58.6	71.6	71.8	81.0	79.3	94.4	80.0	75.7	88.7	91.2	87.0
PCTALLFTFY (Income percentile rank for full-time, full-year respondents)	32,730	77.2	57.9	72.4	70.9	84.0	79.5	83.4	81.0	75.1	49.9	54.2	81.8
PCTDEP (Income percentile dependent respondents)	50,850	78.8	62.7	76.1	74.6	84.8	80.4	90.4	82.8	75.5	84.6	86.7	90.9
PCTINDEP (Income percentile independent respondents)	30,720	72.5	55.5	67.2	68.5	72.9	74.2	92.6	73.7	74.5	86.7	89.7	86.0
PCTPOV (Income percent of poverty level)	77,670	77.7	59.1	72.0	72.7	82.0	81.0	94.8	82.9	78.2	88.7	92.9	87.5
PDADDED (Father's highest education level)	76,570	94.6	89.9	93.6	92.6	95.3	96.0	93.5	95.4	96.0	91.0	91.3	94.4
PELLAMT (Federal Pell Grant)	80,760	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PELLCST (Ratio of Pell Grant to student budget)	63,460	91.0	87.9	88.9	90.5	90.6	93.6	95.4	89.5	94.0	89.8	78.2	89.1
PELLPACK (Aid package with Pell Grants)	80,760	86.8	97.4	86.0	89.9	81.6	90.9	77.6	84.4	91.0	63.8	56.4	78.1
PELLRAT1 (Ratio of Pell Grant to total aid)	69,440	65.7	88.8	53.0	66.7	60.3	78.0	72.0	63.0	74.1	51.8	45.3	64.7
PELLRAT2 (Ratio of Pell Grant to total grants)	64,570	65.7	92.4	52.8	66.8	58.5	77.8	73.4	63.9	75.0	54.5	47.9	65.9
PERKCUM1 (Cumulative Perkins amount for undergraduate)	80,760	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PFAMNUM (Dependent students: family size)	50,850	99.3	92.9	99.0	98.8	99.8	99.4	99.7	99.7	99.4	99.5	98.4	99.2

See notes at end of table.

Table P-4. Undergraduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public					Private nonprofit			Private for-profit		
			Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
PFEDTAX (Dependent students: parents' federal tax paid)	50,850	71.6	59.2	65.8	65.1	78.0	74.7	78.6	78.7	70.9	71.5	74.0	79.1
PHSLOAN (Federal health professions loans)	80,760	96.1	98.8	94.5	97.5	96.8	98.9	97.0	93.2	96.5	82.8	82.8	98.4
PINCOL (Dependent students: number of family members in college)	50,850	97.4	91.0	96.8	96.5	98.3	97.9	91.4	98.2	97.7	88.3	89.7	98.3
PLUSAMT (Direct PLUS Loans to parents)	80,760	100.0	100.0	100.0	100.0	100.0	99.9	99.9	100.0	99.9	99.6	99.4	100.0
PLUSCUM (Cumulative Parent PLUS Loans)	80,760	100.0	100.0	100.0	100.0	100.0	99.9	99.9	100.0	99.9	99.6	99.4	100.0
PLUSPCT (Ratio of Parent PLUS Loans to total aid)	69,440	65.7	88.8	53.0	66.7	60.3	78.0	72.0	63.0	74.1	51.8	45.3	64.7
PMARITAL (Dependent students: parents' marital status)	50,850	99.7	98.5	99.6	99.5	99.9	99.8	99.7	99.9	99.7	99.8	98.5	99.2
PMOMED (Mother's highest education level)	79,640	95.2	91.6	94.3	93.5	95.8	96.3	93.4	95.7	96.3	91.8	92.3	95.3
PRIMLANG (Primary language spoken)	80,760	83.2	80.7	80.2	82.0	84.9	85.2	86.9	86.3	85.5	76.9	79.2	86.3
PRIMLGFG (Frequency of speaking non-English language with primary caregiver)	29,480	54.7	43.3	51.5	58.4	55.7	57.1	58.0	54.0	57.8	42.4	50.5	58.4
PRIVAID (Private-source grants)	80,760	99.0	100.0	98.4	99.4	98.8	99.6	98.3	99.0	99.4	96.3	97.6	99.7
PRIVAMT (Total private-source grants and loans)	80,760	96.4	97.2	95.9	97.1	96.2	97.5	94.9	96.2	96.7	91.0	92.0	95.3
PRIVLOAN (Private [alternative] loans)	80,760	96.8	97.2	96.4	97.3	97.0	97.7	95.0	96.6	97.0	91.4	92.5	95.5
PRIVLRAT (Ratio of private loans to total loans)	37,380	75.1	80.3	49.0	68.9	77.3	88.0	90.7	72.0	81.6	56.4	55.4	79.9
PRIVPACK (Package of private and nonprivate loans)	80,760	89.8	96.0	89.2	94.2	88.9	94.0	92.7	82.8	89.5	66.2	62.7	86.4
PRIVPCT (Ratio of private loans to total aid)	69,440	65.7	88.8	53.0	66.7	60.3	78.0	72.0	63.0	74.1	51.8	45.3	64.7

See notes at end of table.

Table P-4. Undergraduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public					Private nonprofit			Private for-profit		
			Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
PROGSTAT (Completed degree program in 2019–20)	80,760	97.3	90.7	97.3	97.9	96.6	98.1	99.8	96.3	97.6	91.0	94.3	95.6
PSECTYM (Year and month first enrolled in postsecondary education)	80,760	98.8	95.5	98.3	98.6	99.3	99.3	96.7	99.2	99.3	96.0	97.0	98.9
PSECTYR (Year first enrolled in postsecondary education)	80,760	99.0	95.9	98.6	98.7	99.4	99.5	96.9	99.2	99.4	96.2	97.2	99.0
PTAXFILE (Dependent students: Parents' federal tax filed)	50,850	72.9	59.3	68.5	68.5	79.9	75.0	87.1	79.2	70.8	73.8	75.7	82.7
RAASIAN (Race: Asian)	80,760	94.8	98.2	92.5	94.1	95.3	96.7	94.0	97.3	96.8	86.7	87.7	97.4
RABLACK (Race: Black or African American)	80,760	94.8	98.2	92.5	94.3	95.3	96.7	94.0	97.3	96.8	86.7	87.8	97.4
RACE (Race/ethnicity [with multiple])	80,760	98.0	99.8	97.0	98.4	98.5	99.3	97.2	98.5	98.1	91.4	93.4	99.0
RACE2 (Race/ethnicity [with multiple] without foreign students)	80,760	97.5	98.5	96.0	97.9	98.2	99.1	97.0	97.8	98.2	91.3	93.5	98.7
RACECEN (Race/ethnicity Census categories)	80,760	94.8	98.2	92.5	94.1	95.3	96.7	94.0	97.3	96.8	86.7	87.7	97.4
RACESEX (Race/ethnicity [with multiple] and gender)	79,690	98.0	99.8	97.0	98.4	98.5	99.3	97.2	98.4	98.1	91.3	93.3	98.9
RAINDIAN (Race: American Indian or Alaska Native)	80,760	94.8	98.2	92.5	94.1	95.3	96.7	94.0	97.3	96.8	86.7	87.8	97.4
RAINDTRB (Race: American Indian or Alaska Native recognized tribe)	6,840	37.9	61.7	35.0	36.4	46.4	39.0	41.3	50.8	37.5	26.2	24.1	55.6
RAISLAND (Race: Native Hawaiian or other Pacific Islander)	80,760	94.9	98.2	92.6	94.1	95.3	96.7	94.0	97.3	96.9	86.7	87.8	97.4
RAWHITE (Race: White)	80,760	94.9	98.2	92.6	94.3	95.3	96.7	94.0	97.3	97.2	86.7	87.7	97.4
REANOAPA (Reason for not applying: did not want to take on debt)	33,390	26.9	54.5	29.2	37.5	18.6	32.4	3.5	11.9	26.7	5.4	1.5	7.8

See notes at end of table.

Table P-4. Undergraduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public					Private nonprofit			Private for-profit		
			Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
REANOAPB (Reason for not applying: forms were too much work)	33,390	26.9	54.5	29.2	37.5	18.6	32.4	3.5	11.9	26.7	5.4	1.5	7.8
REANOAPC (Reason for not applying: no information about how to apply)	33,390	26.9	54.5	29.2	37.5	18.6	32.4	3.5	11.9	26.7	5.4	1.5	7.8
REANOAPD (Reason for not applying: no need)	33,390	26.9	54.5	29.2	37.5	18.6	32.4	3.5	11.9	26.7	5.4	1.5	7.8
REANOAPE (Reason for not applying: thought ineligible)	33,390	26.9	54.5	29.2	37.5	18.6	32.4	3.5	11.9	26.7	5.4	1.5	7.8
REANOAPF (Reason for not applying: other)	33,390	26.9	54.5	29.2	37.5	18.6	32.4	3.5	11.9	26.7	5.4	1.5	7.8
REFUND1 (Received a refund of scholarships, grants, or loans from NPSAS)	80,760	85.0	82.1	82.7	83.8	85.9	86.3	88.6	87.6	86.9	82.6	83.4	88.2
REFUND2 (Method of receiving refund from NPSAS)	34,820	64.4	42.9	57.5	59.3	69.7	71.0	74.6	68.9	65.2	47.8	53.1	68.8
REMETOOK (Remedial courses: took in 2019–20)	80,760	92.7	98.3	88.4	85.6	91.4	96.5	73.9	96.7	97.6	97.5	98.9	95.7
REMEVER (Remedial courses: ever taken)	80,760	99.2	99.2	98.9	99.3	99.2	99.5	99.3	99.3	99.5	98.0	98.9	99.0
REMMATH (Remedial courses: number taken in math in 2019–20)	11,660	46.2	70.8	48.3	39.0	33.4	47.4	22.1	53.1	49.1	50.9	78.5	45.2
REMRW (Remedial courses: number taken in reading/writing in 2019–20)	11,660	45.3	77.3	47.3	38.2	33.7	45.2	22.3	53.3	49.6	50.9	78.4	45.3
REMSTAT (Remedial courses: year taken and subjects taken in 2019–20)	80,760	92.3	97.8	87.6	84.8	91.1	96.3	73.7	96.5	97.4	97.5	98.9	95.7
RISKIND2 (Index of risk and nontraditional students, modified)	80,760	91.7	89.0	89.9	92.4	93.1	94.4	85.2	92.3	93.3	77.1	79.8	89.4

See notes at end of table.

Table P-4. Undergraduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public					Private nonprofit			Private for-profit		
			Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
RISKINDX (Index of risk and nontraditional students)	80,760	92.0	89.1	90.3	92.6	93.2	94.6	85.4	92.5	93.5	77.3	80.3	89.7
SAGI (Independent students: adjusted gross income)	26,770	65.6	47.4	60.0	60.9	67.4	66.6	88.0	69.0	67.3	79.2	83.5	82.0
SAMESTAT (Attend institution in state of legal residence)	80,760	99.6	100.0	99.5	99.8	99.7	99.7	100.0	98.7	99.3	99.9	99.7	99.9
SECTOR11 (NPSAS institution sector—11 categories)	80,760	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
SEOGAMT (Federal SEOG)	80,760	91.6	99.2	90.2	95.1	87.2	94.8	90.1	89.2	94.9	74.0	66.2	89.3
SES (Socioeconomic status percentile)	58,110	49.3	23.3	39.2	40.4	57.5	57.8	59.4	56.4	54.3	40.0	45.5	36.5
SEXORIENTAT (Sexual orientation)	80,760	95.1	94.7	93.4	95.0	95.8	96.9	94.4	96.4	96.4	87.1	90.3	95.1
SFAMNUM (Independent students: family size)	30,720	98.3	98.7	98.9	99.2	98.3	96.6	96.1	98.4	97.6	95.8	96.5	99.8
SFEDTAX (Independent students: federal tax paid)	30,720	64.0	45.7	58.7	60.4	67.0	67.0	78.8	66.3	65.8	69.3	74.6	77.3
SFEDTAXD (Dependent student: federal tax paid)	50,850	74.7	59.5	70.7	70.3	81.3	76.8	93.8	80.2	72.2	76.1	79.3	84.9
SIBCOLFT (First sibling to go to college)	80,760	99.8	99.7	99.8	99.7	99.8	99.9	100.0	99.8	99.9	99.7	99.8	99.5
SIBINCOL (Dependent students: have siblings in college)	50,850	97.4	91.0	96.8	96.5	98.3	97.9	91.4	98.2	97.7	88.3	89.7	98.3
SINCOL (Independent students: number of family members in college)	30,720	96.8	96.7	97.3	97.9	97.0	96.0	94.5	97.0	96.1	92.3	93.5	97.3
SINGLPAR (Single parent, independent student)	80,760	99.9	99.6	99.9	99.9	100.0	99.9	99.8	100.0	99.9	99.6	99.6	100.0
SJEARN (Work-study job: total earnings)	80,760	99.9	100.0	99.9	100.0	99.9	99.9	99.9	99.4	99.8	99.9	99.9	100.0
SJHOURS (Work-study job: hours worked per week)	80,760	97.8	99.9	99.2	99.2	98.3	98.0	99.9	92.5	93.5	99.9	99.9	99.8

See notes at end of table.

Table P-4. Undergraduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public					Private nonprofit			Private for-profit		
			Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
SJMAJOR (Work-study job: related to major or coursework)	4,320	58.1	‡	44.4	41.5	65.1	62.5	‡	57.6	58.2	‡	‡	72.0
SJONOFF (Work-study job: located primarily on or off campus)	4,320	57.7	‡	44.3	40.9	65.0	62.2	‡	57.8	57.5	‡	‡	72.0
SJWKST (Work-study job: had work-study job in 2019–20)	80,760	99.9	100.0	99.9	100.0	99.9	99.9	99.9	99.4	99.8	99.9	99.9	100.0
SMARITAL (Marital status)	80,760	99.9	99.6	99.9	99.9	100.0	99.9	99.8	100.0	99.9	99.6	99.4	100.0
SNEED1 (Student budget minus EFC)	63,460	68.9	52.6	63.5	64.7	72.3	72.9	92.7	70.9	69.6	81.7	72.4	77.6
SNEED2 (Student budget minus EFC minus total aid)	63,460	51.7	50.1	44.3	52.2	48.2	59.8	77.2	49.7	55.0	51.2	38.4	54.6
SNEED3 (Student budget minus EFC minus federal grants)	63,460	53.6	52.1	46.0	53.6	50.1	61.5	79.9	51.7	56.6	55.0	44.2	57.6
SNEED4 (Student budget minus EFC and aid subject to EFC limitation)	63,460	58.2	52.1	49.5	59.1	56.5	66.2	81.3	57.2	61.7	59.6	44.8	65.8
SNEED5 (Student budget minus EFC minus all grants)	63,460	53.2	52.1	45.7	53.6	49.2	61.1	79.9	51.6	56.4	55.0	41.8	57.6
SNEED7 (Student budget minus EFC and federal and state grants)	63,460	53.4	52.1	45.8	53.6	49.3	61.5	79.9	51.6	56.5	55.0	44.2	57.6
SNEED8 (Student budget minus EFC and federal, state, and other grants)	63,460	53.4	52.1	45.8	53.6	49.3	61.5	79.9	51.6	56.5	55.0	44.2	57.6
SNEED9 (Student budget minus EFC and all aid except private loans)	63,460	53.2	52.1	45.7	53.6	49.2	61.0	79.8	51.5	56.4	54.7	41.1	57.6
SPINCOL (Independent students: spouse attending college)	9,890	98.4	97.8	98.6	98.5	98.8	98.4	97.2	99.1	98.5	95.2	93.4	98.4
SPSINC (Independent students: spouse's income)	9,890	63.9	37.1	56.9	58.7	65.4	68.7	94.9	65.9	67.6	80.2	86.9	78.1

See notes at end of table.

Table P-4. Undergraduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public					Private nonprofit			Private for-profit		
			Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
STABEVR (Ever studied abroad during undergraduate education)	80,760	85.9	83.4	83.8	84.2	86.8	86.9	90.7	88.6	87.8	85.7	85.6	89.2
STABREG (Study-abroad region)	14,540	24.2	18.8	15.3	14.5	22.5	29.7	20.8	35.8	42.8	14.1	15.7	17.6
STABTIME (Length of time studied abroad)	14,540	22.0	9.8	11.8	11.8	20.5	29.2	14.7	33.2	42.5	9.3	10.1	12.9
STAFCT1 (Direct Subsidized Loan maximum)	80,760	97.6	96.8	95.8	97.1	98.4	99.4	98.7	97.5	98.3	96.9	97.9	99.3
STAFCT2 (Label 1: Direct Subsidized and Unsubsidized Loan total maximum Label 2: Direct Unsubsidized Loan total maximum)	80,760	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9
STAFFAMT (Direct Subsidized and Unsubsidized Loans)	80,760	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
STAFSUB (Direct Subsidized Loans)	80,760	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
STAFUNSB (Direct Unsubsidized Loans)	80,760	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
STAPCT (Ratio of state aid to total aid)	69,440	65.7	88.8	53.0	66.7	60.3	78.0	72.0	63.0	74.1	51.8	45.3	64.7
STATEAMT (State aid total)	80,760	84.2	96.4	75.7	91.1	85.1	93.3	77.4	76.6	87.5	67.8	63.8	87.9
STATNEED (State need-based grants)	80,760	85.7	96.4	79.1	92.2	85.1	93.8	90.1	76.9	88.6	70.8	63.9	87.9
STATNOND (State non-need- and merit-based grants)	80,760	85.9	96.4	79.3	92.2	85.6	93.8	90.1	77.0	88.7	71.4	63.9	87.9
STAXFILE (Independent students: federal tax filed)	30,720	67.5	48.3	62.7	63.8	69.4	68.8	84.9	70.0	67.5	78.0	77.1	82.3
STAXFILED (Dependent student: federal tax filed)	50,850	74.6	59.8	70.7	70.2	81.2	76.6	90.5	80.1	72.1	75.5	76.8	84.7
STEMMAJ (Major field of study with focus on STEM fields—2020 CIP)	80,760	99.1	99.9	98.4	97.9	99.7	99.7	99.4	99.7	99.3	97.5	98.4	99.9

See notes at end of table.

Table P-4. Undergraduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public					Private nonprofit			Private for-profit		
			Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
STEMMAJ_2010 (Major field of study with focus on STEM fields—2010 CIP)	80,760	99.1	99.9	98.4	97.9	99.7	99.7	99.4	99.7	99.3	97.5	98.4	99.9
STFCUM1 (Cumulative Direct Subsidized and Unsubsidized Loans for undergraduate)	80,760	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
STGRPCT (Ratio of state grants to total aid)	69,440	65.7	88.8	53.0	66.7	60.3	78.0	72.0	63.0	74.1	51.8	45.3	64.7
STGTAMT (State grants total)	80,760	85.7	96.4	79.0	92.2	85.1	93.8	90.1	76.9	88.5	70.8	63.9	87.9
STLNAMT (State loans)	80,760	97.9	100.0	98.4	100.0	98.2	98.6	98.5	95.2	96.1	92.6	81.2	99.9
STMERIT (State merit-based-only grants)	80,760	89.0	98.1	84.6	95.5	90.3	94.8	90.1	79.7	90.9	77.6	69.5	88.0
STMILAMT (State military/Armed Forces grants)	80,760	94.3	98.3	92.1	99.9	96.4	97.4	90.2	83.8	93.3	89.5	77.1	99.7
STNDMRT (State grants based both on need and merit)	80,760	88.5	98.3	82.3	94.5	89.5	94.9	90.2	82.3	92.2	74.3	74.3	88.9
STNDONLY (State need-based-only grants)	80,760	85.7	96.4	79.1	92.2	85.1	93.8	90.1	76.9	88.6	70.8	63.9	87.9
STNOND1 (State non-need-based grants)	80,760	86.3	96.4	79.7	92.2	86.5	94.1	90.1	79.1	89.0	71.4	67.2	87.9
STSBCEUM1 (Cumulative Direct Subsidized Loans for undergraduate)	80,760	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
STSUBMX (Direct Subsidized Loan program maximum)	20,080	93.4	77.2	75.2	80.9	96.0	98.5	98.4	95.9	96.6	88.0	90.1	97.4
STTOTMX (Direct Subsidized and Unsubsidized Loan program maximum)	22,490	99.4	100.0	99.4	99.7	99.9	99.7	99.3	99.8	99.6	94.7	95.0	98.4
STUSTATE (State of legal residence)	80,760	99.6	100.0	99.5	99.8	99.7	99.7	100.0	98.7	99.3	99.9	99.7	99.9
STVETAMT (State veterans education benefits)	80,760	99.5	99.1	99.2	99.4	99.7	99.9	100.0	99.0	99.6	99.5	98.8	100.0
STWKAMT (State work-study)	80,760	99.3	99.1	99.1	99.5	99.6	99.8	100.0	99.3	98.8	96.9	99.4	99.4

See notes at end of table.

Table P-4. Undergraduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public					Private nonprofit			Private for-profit		
			Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
SUBCUM1 (Cumulative Direct Subsidized and Perkins Loans for undergraduate)	80,760	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
T4LNAMT2 (Title IV loans [includes Parent PLUS Loans])	80,760	100.0	100.0	100.0	100.0	100.0	99.9	99.9	100.0	99.9	99.6	99.4	100.0
TEACTDER (ACT-derived composite score)	58,880	64.0	44.3	46.7	53.0	73.4	79.2	32.9	71.7	73.6	26.5	27.6	28.0
TESATDER (SAT-derived composite score)	58,880	64.0	44.3	46.7	53.0	73.4	79.2	32.9	71.7	73.6	26.5	27.6	28.0
TETOOK (Took SAT or ACT exams)	67,150	93.4	90.3	89.8	90.1	95.7	96.5	91.0	95.4	95.7	89.0	88.2	92.5
TFEDAID (Total federal aid [excludes veterans/DOD])	80,760	76.0	96.4	70.6	81.7	69.7	84.3	75.4	68.3	80.3	59.3	53.1	71.0
TFEDAID2 (Total federal aid [includes veterans/DOD])	80,760	76.0	96.4	70.6	81.7	69.7	84.3	75.4	68.3	80.3	59.3	53.1	71.0
TFEDAID6 (Total federal aid [excludes Parent PLUS Loans and veterans/DOD])	80,760	76.0	96.4	70.6	81.7	69.7	84.3	75.4	68.3	80.3	59.3	53.1	71.0
TFEDGRT (Total federal grants [excludes veterans/DOD])	80,760	76.0	96.4	70.6	81.7	69.7	84.4	75.5	68.4	80.4	60.3	54.6	71.0
TFEDGRT2 (Total federal grants and veterans/DOD)	80,760	76.0	96.4	70.6	81.7	69.7	84.4	75.5	68.4	80.4	60.3	54.6	71.0
TFEDLN (Total federal loans [excludes Parent PLUS Loans])	80,760	96.1	98.8	94.5	97.5	96.8	98.9	97.0	93.2	96.5	82.8	82.8	98.4
TFEDLN2 (Total federal loans [includes Parent PLUS Loans])	80,760	96.1	98.8	94.5	97.5	96.8	98.9	96.9	93.2	96.4	82.5	82.2	98.4
TFEDWRK (Federal work-study)	80,760	97.8	99.1	97.6	99.1	97.6	98.7	96.6	96.0	96.9	93.1	94.8	98.8
TGRTLN (Total loans and grants)	80,760	73.4	93.5	67.9	79.3	66.7	82.1	72.9	66.2	77.9	56.6	47.9	67.6
TITIVAMT (Total federal Title IV aid)	80,760	90.4	98.4	88.9	94.5	86.2	94.1	87.8	87.2	93.1	71.1	64.1	88.8
TNFEDAID (Total nonfederal aid)	80,760	81.4	93.6	73.2	88.5	82.1	90.8	74.7	73.9	84.8	63.3	56.6	83.8
TNFEDGRT (Total nonfederal grants)	80,760	84.9	96.4	78.1	90.9	84.4	93.1	88.7	76.8	88.0	67.6	60.4	87.9

See notes at end of table.

Table P-4. Undergraduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public					Private nonprofit			Private for-profit		
			Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
TNFEDLN (Total nonfederal loans)	80,760	92.1	97.2	93.3	96.3	90.6	94.5	94.9	86.3	90.9	70.3	66.2	87.0
TOTAID (Total aid amount)	80,760	73.3	93.5	67.9	79.3	66.7	82.0	72.9	66.0	77.8	55.8	47.0	67.5
TOTAID2 (Total federal [Title IV], state, and institution aid)	80,760	80.7	96.4	73.1	87.7	76.9	89.6	75.5	74.6	85.4	63.6	55.9	81.8
TOTAID4 (Total aid [excludes Parent PLUS Loans])	80,760	73.4	93.5	67.9	79.3	66.7	82.0	72.9	66.0	77.9	56.1	47.6	67.5
TOTAID6 (Total aid [excludes Parent PLUS Loans and veterans/DOD])	80,760	73.3	93.5	67.9	79.3	66.7	82.0	72.9	66.0	77.8	55.8	47.0	67.5
TOTAID7 (Total aid [excludes veterans/DOD])	80,760	73.3	93.5	67.9	79.3	66.7	82.0	72.9	66.0	77.8	55.8	47.0	67.5
TOTAID8 (Total aid excluding private loans)	80,760	75.4	96.4	69.9	81.4	68.3	83.7	75.4	68.2	79.9	59.3	49.7	71.0
TOTDUE1 (cumulative amount owed, principal and interest, all loans for undergraduate)	80,760	76.6	76.5	76.9	78.9	76.4	79.3	83.5	72.4	75.7	56.8	52.8	74.9
TOTGRT (Total grants)	80,760	75.5	96.4	69.9	81.4	68.3	83.8	75.5	68.3	80.0	60.2	51.2	71.0
TOTGRT2 (Total grants and veterans/DOD)	80,760	75.5	96.4	69.9	81.4	68.3	83.8	75.5	68.3	80.0	60.2	51.2	71.0
TOTGRT4 (Total state and institution grants)	80,760	85.0	96.4	78.3	91.0	84.8	93.1	89.5	76.8	88.0	67.6	60.4	87.9
TOTLOAN (Total loans [excluding Parent PLUS Loans])	80,760	89.8	96.0	89.2	94.2	88.9	94.0	92.7	82.8	89.6	66.5	63.3	86.4
TOTLOAN2 (Total loans [including Parent PLUS Loans])	80,760	89.8	96.0	89.2	94.2	88.9	94.0	92.7	82.8	89.5	66.2	62.7	86.4
TOTLOAN3 (Total loans [excluding private loans])	80,760	92.2	98.8	91.5	96.5	91.3	96.0	96.3	85.3	92.0	70.8	67.0	90.5
TOTNOND3 (Institution non-need-based and state non-need-based grants)	80,760	85.1	96.4	78.3	91.1	85.4	93.2	89.5	76.8	88.2	67.6	60.4	87.9
TOTWKST (Total work-study)	80,760	97.7	99.1	97.5	99.1	97.6	98.6	96.6	95.9	96.9	93.1	94.2	98.8

See notes at end of table.

Table P-4. Undergraduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public					Private nonprofit			Private for-profit		
			Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
TUITION2 (Tuition and fees paid)	63,460	99.3	100.0	99.5	99.0	99.4	99.2	98.3	100.0	99.2	99.9	96.0	99.6
UGDEG (Undergraduate degree program)	80,760	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
UGLVL1 (Class level)	80,760	97.6	96.8	95.7	97.1	98.3	99.4	98.7	97.5	98.2	96.9	97.9	99.2
UGLVL2 (Class level [for loans])	80,760	97.6	96.8	95.7	97.1	98.3	99.4	98.7	97.5	98.2	96.9	97.9	99.2
UNSBLOAN (Total unsubsidized loans [all sources])	80,760	89.8	96.0	89.2	94.2	88.9	94.0	92.7	82.8	89.5	66.2	62.7	86.4
USBORN (Born in United States [student])	80,760	84.0	80.2	81.2	82.5	85.1	85.8	88.2	87.2	86.6	78.4	80.4	86.8
USEIDR (Likelihood of using income-driven student loan repayment plans)	8,330	44.3	27.3	21.5	20.4	45.0	53.8	71.4	52.5	55.0	45.1	54.9	54.1
USELFP (Likelihood of using loan forgiveness program)	8,860	39.5	14.7	17.0	16.9	40.2	49.1	64.5	49.9	50.7	38.8	51.5	51.2
VADODAMT (Federal veterans benefits and DOD)	80,760	84.6	96.4	76.4	91.2	86.5	93.6	77.4	76.6	88.0	67.6	63.8	88.2
VADODAMT2 (Federal veterans benefits [excluding housing] and DOD)	80,760	84.6	96.4	76.4	91.2	86.5	93.6	77.4	76.6	88.0	67.6	63.8	88.2
VETBEN (Federal Veterans' education benefits)	80,760	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
VETTOT (Total federal and nonfederal veterans education benefits)	80,760	98.6	99.1	97.7	98.7	99.3	99.5	99.0	98.7	98.8	95.8	95.4	99.1
VOCHELP (Vocational rehabilitation and training)	80,760	84.5	96.4	76.4	91.2	85.6	93.3	77.4	76.7	87.9	68.9	65.0	87.9
WORKPCT (Ratio of work-study to total aid)	69,440	65.7	88.8	53.0	66.7	60.3	78.0	72.0	63.0	74.1	51.8	45.3	64.7

‡ Reporting standards not met.

NOTE: CIP = Classification of Instructional Programs; DOD = Department of Defense; EFC = expected family contribution; NPSAS = National Postsecondary Student Aid Study; SEOG = Supplemental Education Opportunity Grant; STEM = science, technology, engineering, and mathematics; TANF = Temporary Assistance for Needy Families; VA = Department of Veterans Affairs; WIC = Special Supplemental Nutrition Program for Women, Infants, and Children. Response rates are weighted using the final undergraduate survey analysis weight.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table P-5. Undergraduate study weighted item response rates, by control and level of institution and variable: 2019–20

Variable	Sample size	All students	Public					Private nonprofit			Private for-profit		
			Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
AIDCST_AC (Ratio of total aid to student budget [administrative collection])	223,360	70.8	79.9	62.9	70.4	67.4	78.9	78.8	74.7	76.0	66.2	51.3	70.2
AIDSNEED_AC (Aid amount exceeding federal need [administrative collection])	130,610	70.7	86.8	66.8	74.9	64.5	78.1	77.1	65.7	67.7	65.6	53.2	68.5
AIDSRC_AC (Aid package by source of aid [administrative collection])	276,350	83.5	98.6	79.8	89.0	78.1	90.6	68.7	79.4	84.3	65.6	60.6	79.1
AIDTYPE_AC (Aid package by type of aid [administrative collection])	276,350	83.5	98.6	79.8	89.0	78.1	90.6	68.7	79.4	84.3	65.6	60.6	79.1
EFFORT20_AC (Net price after grants/loans as percent of income [administrative collection])	223,360	55.6	52.3	47.5	51.7	56.6	63.8	67.3	58.1	56.6	60.1	50.9	63.3
FEDGRPCT_AC (Ratio of federal grants to total aid [administrative collection])	198,770	77.1	97.6	66.7	79.6	72.4	87.9	66.7	76.1	80.6	61.2	58.4	76.8
FEDPCT_AC (Ratio of federal aid to total aid [administrative collection])	198,770	77.1	97.6	66.7	79.6	72.4	87.9	66.7	76.1	80.6	61.2	58.4	76.8
GENDER_AC (Gender [administrative collection])	275,280	99.6	95.4	99.3	99.8	99.9	99.8	100.0	99.9	99.8	99.3	99.9	99.6
GRTPCT_AC (Ratio of grants to total aid [administrative collection])	198,770	77.1	97.6	66.7	79.6	72.4	87.9	66.7	76.1	80.6	61.2	58.4	76.8
INCQUART_AC (Income quartile [administrative collection])	276,350	71.6	57.2	65.4	64.4	77.8	75.0	89.5	76.4	72.3	84.5	89.0	83.0
INSTGPCT_AC (Ratio of institution grants to total aid [administrative collection])	198,770	77.1	97.6	66.7	79.6	72.4	87.9	66.7	76.1	80.6	61.2	58.4	76.8

See notes at end of table.

Table P-5. Undergraduate study weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public					Private nonprofit			Private for-profit		
			Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
INSTPACK_AC (Aid package with institution aid [administrative collection])	276,350	88.9	98.7	87.0	95.7	85.6	94.0	84.4	81.4	86.5	71.4	68.7	90.1
INSTPCT_AC (Ratio of institution aid to total aid [administrative collection])	198,770	77.1	97.6	66.7	79.6	72.4	87.9	66.7	76.1	80.6	61.2	58.4	76.8
INSTSTAT (NPSAS institution state)	276,350	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
LOANCST2_AC (Ratio of loans to student budget [includes Parent PLUS Loans] [administrative collection])	223,360	80.6	80.4	75.2	78.5	82.5	85.5	89.9	84.6	84.7	74.1	64.1	80.3
LOANPCT_AC (Label 1: ratio of loans to total aid [excluding Parent PLUS Loans] [administrative collection] Label 2: ratio of loans to total aid [administrative collection])	198,770	77.1	97.6	66.7	79.6	72.4	87.9	66.7	76.1	80.6	61.2	58.4	76.8
LOANPCT2_AC (Ratio of loans to total aid [including Parent PLUS Loans] [administrative collection])	198,770	77.1	97.6	66.7	79.6	72.4	87.9	66.7	76.1	80.6	61.2	58.4	76.8
LOANSRC_AC (Loan package by source of loan [administrative collection])	276,350	95.4	99.6	95.4	98.6	95.3	98.1	98.0	91.2	94.2	73.7	75.1	93.5
NETCST1_AC (Student budget minus all aid)	223,360	70.8	79.9	62.9	70.4	67.4	78.9	78.8	74.7	76.0	66.2	51.3	70.2
NETCST17_AC (Student budget minus all grants and loans [administrative collection])	223,360	70.9	79.9	62.9	70.4	67.5	79.0	78.9	74.8	76.2	66.6	52.6	70.2
NETCST20_AC (Student budget minus all grants/loans [including Parent PLUS Loans] [administrative collection])	223,360	70.8	79.9	62.9	70.4	67.4	78.9	78.8	74.7	76.0	66.3	51.3	70.2

See notes at end of table.

Table P-5. Undergraduate study weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public					Private nonprofit			Private for-profit		
			Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
NETCST43_AC (Student budget minus all aid except loans [administrative collection])	223,360	70.8	79.9	62.9	70.4	67.4	78.9	78.8	74.7	76.0	66.2	51.3	70.2
OTHRSCR_AC (Outside sources total)	276,350	90.4	98.7	85.2	96.5	92.2	96.7	69.0	85.9	91.4	71.6	74.3	91.4
PARED1_AC (Parent 1 highest education level [administrative collection])	276,350	79.3	71.6	74.5	72.7	84.6	81.2	91.9	85.4	80.9	90.7	93.9	86.6
PARED2_AC (Parent 2 highest education level [administrative collection])	276,350	74.1	67.5	68.8	66.4	79.9	76.0	87.0	81.2	77.5	84.0	88.8	81.2
PAREduc_AC (Parents' highest education level [administrative collection])	276,350	73.4	66.6	68.0	65.6	79.1	75.4	86.4	80.6	76.8	83.2	87.9	80.8
PCTALL_AC (Income percentile rank [administrative collection])	276,350	71.6	57.2	65.4	64.4	77.8	75.0	89.5	76.4	72.3	84.5	89.0	83.0
PCTALLFTFY_AC (Income percentile rank for full-time, full-year students [administrative collection])	125,510	61.7	36.9	43.5	40.7	74.4	68.6	48.2	71.9	66.7	46.1	45.7	75.0
PCTDEP_AC (Income percentile dependent students [administrative collection])	171,210	72.3	55.5	67.6	65.6	80.0	75.1	79.7	76.7	71.1	75.8	78.4	83.8
PCTINDEP_AC (Income percentile independent students [administrative collection])	145,200	53.9	46.0	50.8	49.3	57.3	46.1	85.8	60.9	47.7	80.1	87.0	80.9
PELLPACK_AC (Aid package with Pell Grants [administrative collection])	276,350	91.0	99.7	90.1	93.2	86.7	95.0	70.9	90.7	92.8	70.5	67.5	85.6
PELLRAT1_AC (Ratio of Pell Grant to total aid [administrative collection])	198,770	77.1	97.6	66.7	79.6	72.4	87.9	66.7	76.1	80.6	61.2	58.4	76.8
PLUSPCT_AC (Ratio of Parent PLUS Loans to total aid [administrative collection])	198,770	77.1	97.6	66.7	79.6	72.4	87.9	66.7	76.1	80.6	61.2	58.4	76.8

See notes at end of table.

Table P-5. Undergraduate study weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public					Private nonprofit			Private for-profit		
			Less-than-2-year	2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
SNEED2_AC (Student budget minus expected family contribution minus total aid)	223,360	53.9	50.3	44.7	49.4	54.6	63.1	72.2	56.4	55.6	58.4	49.1	61.6
STAPCT_AC (Ratio of state aid to total aid [administrative collection])	198,770	77.1	97.6	66.7	79.6	72.4	87.9	66.7	76.1	80.6	61.2	58.4	76.8
STGRPCT_AC (Ratio of state grants to total aid [administrative collection])	198,770	77.1	97.6	66.7	79.6	72.4	87.9	66.7	76.1	80.6	61.2	58.4	76.8
TGRTLN_AC (Total loans and grants [administrative collection])	276,350	83.6	98.6	79.8	89.0	78.2	90.7	68.8	79.5	84.5	66.6	62.6	79.1
TNFEDAID_AC (Total nonfederal aid [administrative collection])	276,350	89.7	98.7	84.1	96.4	91.4	96.4	69.0	85.7	90.7	71.6	70.0	91.3
TNFEDLN_AC (Total nonfederal loans [administrative collection])	276,350	96.8	100.0	97.9	99.5	96.2	98.5	99.5	93.2	95.2	78.1	78.5	94.0
TOTAID_AC (Total aid amount excluding private loans [administrative collection])	276,350	83.5	98.6	79.8	89.0	78.1	90.6	68.7	79.4	84.3	65.6	60.6	79.1
TOTAID4_AC (Total aid excluding Parent PLUS Loans [administrative collection])	276,350	83.6	98.6	79.8	89.0	78.2	90.7	68.8	79.5	84.5	66.5	61.6	79.1
TOTAID6_AC (Total aid [excludes Parent PLUS Loans and veterans/DOD] [administrative collection])	276,350	83.5	98.6	79.8	89.0	78.1	90.6	68.7	79.4	84.3	65.6	60.6	79.1
TOTAID7_AC (Total aid [excludes veterans/DOD] [administrative collection])	276,350	83.5	98.6	79.8	89.0	78.1	90.6	68.7	79.4	84.3	65.6	60.6	79.1
TOTLOAN_AC (Total loans [excluding private loans and Parent PLUS Loans] [administrative collection])	276,350	95.5	99.6	95.4	98.6	95.4	98.3	98.1	91.3	94.4	74.6	76.2	93.5

See notes at end of table.

Table P-5. Undergraduate study weighted item response rates, by control and level of institution and variable: 2019–20—Continued

			Public					Private nonprofit			Private for-profit			
			Less-than-2-year		2-year	4-year, non-doctorate-granting, primarily subbaccalaureate	4-year, non-doctorate-granting, primarily baccalaureate	4-year, doctorate-granting	Less-than-4-year	4-year, non-doctorate-granting	4-year, doctorate-granting	Less-than-2-year	2-year	4-year
Variable	Sample size	All students												
TOTLOAN2_AC (Total loans [including Parent PLUS Loans] [administrative collection])	276,350	95.4	99.6	95.4	98.6	95.3	98.1	98.0	91.2	94.2	73.7	75.1	93.5	
UNSBLOAN_AC (Total unsubsidized loans [all sources] [administrative collection])	276,350	95.4	99.6	95.4	98.6	95.3	98.1	98.0	91.2	94.2	73.7	75.1	93.5	
WORKPCT_AC (Ratio of work-study to total aid [administrative collection])	198,770	77.1	97.6	66.7	79.6	72.4	87.9	66.7	76.1	80.6	61.2	58.4	76.8	

NOTE: CIP = Classification of Instructional Programs; DOD = Department of Defense; NPSAS = National Postsecondary Student Aid Study; VA = Department of Veterans Affairs. Response rates are weighted using the final undergraduate study analysis weight.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table P-6. Summary of undergraduate study weighted item response rates across states, overall, by public 2-year and public 4-year institutions, and by variable: 2019–20

Variable	All undergraduate students				Undergraduates in public 2-year institutions				Undergraduates in public 4-year institutions			
	Min	Median	Mean	Max	Min	Median	Mean	Max	Min	Median	Mean	Max
DODAMT (DOD (military) aid)	36.7	94.0	90.6	100.0	#	95.4	88.6	100.0	#	98.8	93.1	100.0
EMPLWAIV (Institution tuition waivers for staff)	36.7	94.3	90.1	100.0	#	94.9	86.8	100.0	#	99.2	93.4	100.0
EMPLYAM3 (Employer aid [student and parents])	90.0	99.7	99.2	100.0	90.2	99.8	99.1	100.0	82.2	100.0	99.4	100.0
INATHAMT (Athletic scholarships)	63.5	96.4	94.0	100.0	44.2	97.1	92.7	100.0	37.4	99.4	95.7	100.0
INLNAMT (Institution loans)	67.5	97.4	95.9	100.0	61.8	99.2	96.2	100.0	54.3	99.5	96.6	100.0
INSMILAMT (Institution military/Armed Forces grants)	36.7	94.3	90.1	100.0	#	94.9	86.8	100.0	#	99.2	93.4	100.0
INSTNEED (Institution need-based grants)	63.5	96.4	94.0	100.0	44.2	97.1	92.7	100.0	37.4	99.5	95.7	100.0
INSTWRK (Institution work-study)	94.0	99.4	99.0	100.0	89.4	99.5	98.9	100.0	86.9	99.9	99.1	100.0
INSVETAMT (Institution veterans education benefits)	91.7	99.6	99.3	100.0	90.5	99.7	98.9	100.0	94.9	100.0	99.6	100.0
OTHFDGRT (Other federal grants [not Title IV])	21.2	87.0	83.9	100.0	#	91.5	83.7	100.0	#	91.5	86.2	100.0
PHSLOAN (Federal health professions loans)	81.7	98.6	97.8	100.0	70.4	98.9	96.7	100.0	86.7	99.9	99.0	100.0
PRIVAID (Private-source grants)	90.0	99.6	99.0	100.0	90.2	99.8	99.0	100.0	82.1	99.9	99.1	100.0
SEOGAMT (Federal Supplemental Educational Opportunity Grant)	73.9	96.5	95.3	100.0	63.1	96.8	94.6	100.0	40.7	98.0	95.5	100.0
STLNAMT (State loans)	93.7	100.0	99.0	100.0	90.2	100.0	99.3	100.0	93.5	100.0	99.6	100.0
STMERIT (State merit-based-only grants)	36.7	97.9	93.5	100.0	#	99.6	93.1	100.0	47.7	100.0	96.5	100.0
STMILAMT (State military/Armed Forces grants)	36.7	100.0	95.7	100.0	#	100.0	94.3	100.0	64.0	100.0	98.7	100.0
STNDMRT (State grants based both on need and merit)	36.7	97.4	92.4	100.0	#	99.4	90.3	100.0	47.7	100.0	96.7	100.0
STNDONLY (State need-based-only grants)	36.7	94.6	90.3	100.0	#	94.7	87.5	100.0	#	98.8	93.4	100.0
STNOND1 (State non-need-based grants)	36.7	95.9	92.5	100.0	#	95.9	90.3	100.0	#	99.3	94.3	100.0
STVETAMT (State veterans; education benefits)	98.4	100.0	99.8	100.0	96.8	100.0	99.7	100.0	97.8	100.0	99.9	100.0
STWKAMT (State work-study)	94.5	100.0	99.7	100.0	92.7	100.0	99.5	100.0	94.3	100.0	99.9	100.0
TFEDWRK (Federal work-study)	88.8	99.1	98.4	100.0	89.3	99.3	98.5	100.0	82.3	99.6	98.5	100.0
VOHELP (Vocational rehabilitation and training)	36.7	94.0	90.7	100.0	#	95.9	88.7	100.0	#	98.8	93.0	100.0

Rounds to zero.

NOTE: Response rates are weighted using the final undergraduate study analysis weight. Response rates were calculated separately for each state, then summary statistics were calculated across states.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).

Table P-7. Graduate survey weighted item response rates, by control and level of institution and variable: 2019–20

Variable	Sample size	All students	Public 4-year			Private nonprofit 4-year		Private for-profit 4-year
			Non-doctorate-granting, primarily subbaccalaureate	Non-doctorate-granting, primarily baccalaureate	Doctorate-granting	Non-doctorate-granting	Doctorate-granting	
AGE (Age as of 12/31/2019)	19,650	100.0	100.0	100.0	100.0	100.0	100.0	100.0
AIDAPP (Applied for any aid)	19,650	81.0	81.6	72.3	83.9	78.6	77.3	87.4
AIDCST (Ratio of total aid to student budget)	17,850	80.4	81.2	72.3	83.2	78.1	76.9	85.8
AIDSECTG (NPSAS institution type: Graduate [with multiple])	19,650	100.0	100.0	100.0	100.0	100.0	100.0	100.0
AIDSNEED (Aid amount exceeding federal need)	11,650	51.7	‡	47.7	48.1	59.6	50.1	75.0
AIDSRC (Aid package by source of aid)	19,650	81.0	81.6	72.3	83.9	78.6	77.3	87.4
AIDSRG (Graduate aid package by source of aid)	19,650	81.0	81.6	72.3	83.9	78.6	77.3	87.4
AIDTYPE (Aid package by type of aid)	19,650	81.0	81.6	72.3	83.9	78.6	77.3	87.4
AIDYPEG (Graduate aid package by type of aid)	19,650	81.0	81.6	72.3	83.9	78.6	77.3	87.4
ASIANYPE (Asian type)	19,650	94.4	96.4	95.2	95.2	94.1	93.3	95.6
ATTEND (Attendance intensity in fall)	19,650	99.0	97.1	98.6	99.2	98.7	99.0	98.1
ATTEND2 (Attendance intensity in fall [half time])	19,650	99.0	97.1	98.6	99.2	98.7	99.0	98.1
ATTNPT (Attendance intensity [half time])	19,650	97.9	95.4	96.0	98.1	97.7	98.4	95.5
ATTNPTRN (Attendance intensity [all schools])	19,650	97.9	95.4	96.0	98.1	97.8	98.4	95.5
ATTNSTAT (Attendance pattern)	19,650	99.6	100.0	99.1	99.7	99.8	99.7	99.0
AWAREIDR (Aware of income-driven student loan repayment plans)	19,650	88.2	94.4	84.5	88.8	87.9	87.8	88.3
AWARELFP (Aware of student loan forgiveness programs)	19,650	88.2	94.4	84.3	88.7	88.0	87.8	88.4
BANK1 (Bank accounts: had checking or savings account)	19,650	86.7	94.8	83.4	87.6	86.5	86.2	85.1
BANK2 (Bank accounts: individual or shared)	19,160	85.9	94.4	82.5	86.9	85.7	85.5	83.8
BAYEAR (Year received bachelor's degree)	19,650	89.0	69.4	87.9	89.4	89.9	88.8	88.7
BAYEARM (Year and month received bachelor's degree)	19,650	89.0	69.4	87.9	89.4	89.9	88.8	88.7
BINCOME (Total income [categorical])	19,650	56.3	58.9	53.0	52.4	61.0	57.2	68.5
BORAMT1 (Cumulative amount borrowed for undergraduate)	19,650	87.1	93.4	83.4	88.0	87.0	86.6	86.6
BORAMT2 (Cumulative amount borrowed for graduate)	19,650	76.9	82.7	70.2	80.4	72.3	74.0	77.4
BORAMT3 (Cumulative amount borrowed for undergraduate and graduate)	19,650	76.4	82.5	69.8	80.1	71.3	73.4	76.7
BUDGETAJ (Student budget [attendance adjusted])	17,850	95.5	96.3	91.7	96.6	96.6	94.2	95.8
BUDNONAJ (Nontuition expense budget [attendance adjusted])	17,850	95.5	96.3	92.3	96.7	96.6	94.2	95.8

See notes at end of table.

Table P-7. Graduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public 4-year			Private nonprofit 4-year		Private for-profit 4-year
			Non-doctorate-granting, primarily subbaccalaureate	Non-doctorate-granting, primarily baccalaureate	Doctorate-granting	Non-doctorate-granting	Doctorate-granting	
CAGI (Adjusted gross income)	18,500	47.0	45.4	46.5	42.9	53.1	46.6	63.8
CINCOME (Total income [continuous])	19,650	56.3	58.9	53.0	52.4	61.0	57.2	68.5
CITIZEN2 (Citizenship)	19,650	97.2	96.7	94.8	97.2	96.0	97.1	98.9
COMPTO87 (Comparable to 1987 NPSAS)	19,650	99.0	97.1	98.6	99.2	98.7	99.0	98.1
COVCOMMCWRK (COVID-19 pandemic: helpful communication from NPSAS: access to coursework)	17,320	88.4	77.2	85.8	89.5	87.1	89.8	79.3
COVCOMMEMP (COVID-19 pandemic: helpful communication from NPSAS: employment at institution)	17,320	88.4	77.2	86.0	89.4	87.2	89.8	79.5
COVCOMMFAID (COVID-19 pandemic: helpful communication from NPSAS: financial aid)	17,320	88.3	77.2	85.8	89.2	87.6	89.9	79.4
COVCOMMHOUS (COVID-19 pandemic: helpful communication from NPSAS: housing [on campus or college owned])	17,320	88.4	77.2	85.7	89.3	87.3	89.9	79.6
COVCOMMPROG (COVID-19 pandemic: helpful communication from NPSAS: degree program progress)	17,320	88.5	77.2	86.0	89.5	87.3	89.8	79.5
COVENRDIS (COVID-19 pandemic: enrollment disruptions/changes)	17,320	87.4	77.8	84.4	88.6	84.0	89.3	76.0
COVEXPABS (COVID-19 pandemic: took leave of absence from NPSAS)	17,320	87.4	77.8	84.4	88.6	84.0	89.3	76.0
COVEXPBRK (COVID-19 pandemic: school break extended)	17,320	87.4	77.8	84.4	88.6	84.0	89.3	76.0
COVEXPCAN (COVID-19 pandemic: some or all classes canceled)	17,320	87.4	77.8	84.4	88.6	84.0	89.3	76.0
COVEXPCC (COVID-19 pandemic: had difficulty finding safe and stable child care)	2,560	68.9	‡	59.6	71.1	63.9	72.3	60.2
COVEXPFIN (COVID-19 pandemic: received emergency financial assistance from NPSAS)	17,320	87.4	77.8	84.4	88.6	84.0	89.3	76.0
COVEXPFOOD (COVID-19 pandemic: had difficulty accessing or paying for food)	19,650	91.5	95.1	90.6	92.0	90.0	93.2	82.7
COVEXPHM (COVID-19 pandemic: had difficulty finding safe and stable housing)	19,650	91.5	95.1	90.6	92.0	90.0	93.2	82.7
COVEXPJOB (COVID-19 pandemic: lost job or lost income because of reduced hours)	19,650	91.5	95.1	90.6	92.0	90.0	93.2	82.7
COVEXPMOT (COVID-19 pandemic: moved to another living situation)	19,650	91.5	95.1	90.6	92.0	90.0	93.2	82.7

See notes at end of table.

Table P-7. Graduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public 4-year			Private nonprofit 4-year		Private for-profit 4-year
			Non-doctorate-granting, primarily subbaccalaureate	Non-doctorate-granting, primarily baccalaureate	Doctorate-granting	Non-doctorate-granting	Doctorate-granting	
COVEXPONL (COVID-19 pandemic: some or all classes moved to online only)	16,170	87.9	77.8	84.5	88.7	83.2	89.3	77.2
COVEXPPAD (COVID-19 pandemic: moved back to permanent address)	17,320	87.4	77.8	84.4	88.6	84.0	89.3	76.0
COVEXPSAP (COVID-19 pandemic: study-abroad program canceled or modified)	17,320	87.4	77.8	84.4	88.6	84.0	89.3	76.0
COVEXPWIT (COVID-19 pandemic: withdrew from NPSAS)	17,320	87.4	77.8	84.4	88.6	84.0	89.3	76.0
COVFINDIS (COVID-19 pandemic: financial disruptions/changes)	17,320	87.4	77.8	84.4	88.6	84.0	89.3	76.0
COVHOUDIS (COVID-19 pandemic: housing disruptions/changes)	17,320	87.4	77.8	84.4	88.6	84.0	89.3	76.0
COVIDAID (COVID-19 pandemic: emergency aid received [institution reported])	17,320	87.6	82.7	85.1	90.9	81.8	84.9	87.5
COVIDAIDAMT (COVID-19 pandemic: emergency aid amount [institution reported])	17,320	87.6	82.7	84.8	90.9	81.8	84.9	87.5
COVINFOALTLV (COVID-19 pandemic: information provided from NPSAS: find alternative living arrangements)	17,320	88.3	77.2	85.8	89.2	87.3	89.8	79.4
COVINFOEAID (COVID-19 pandemic: information provided from NPSAS: access emergency financial aid)	17,320	88.3	77.2	85.7	89.1	87.2	89.8	79.4
COVINFOFAST (COVID-19 pandemic: information provided from NPSAS: access food assistance)	17,320	88.3	77.2	86.0	89.2	87.2	89.8	79.3
COVINFOHLTH (COVID-19 pandemic: information provided from NPSAS: obtain physical/mental health care)	17,320	88.4	77.2	86.0	89.2	87.2	89.9	79.4
COVINFOMOV (COVID-19 pandemic: information provided from NPSAS: move out of college-owned housing)	17,320	88.3	75.4	85.6	89.2	87.2	89.9	79.1
COVREFTUITION (COVID-19 pandemic: received tuition refund from NPSAS)	17,320	77.8	59.5	74.7	79.4	78.0	78.8	66.9
COVROOMREF (COVID-19 pandemic: received room-and-board refund from NPSAS)	17,320	84.9	64.6	81.4	86.4	83.7	86.1	74.7
COVROOMREFSR (COVID-19 pandemic: room-and-board refund from student records)	17,320	66.0	72.3	51.6	60.4	75.6	68.2	82.0
COVTECHSER (COVID-19 pandemic: received technology or technical services from NPSAS)	11,420	82.7	67.5	75.3	84.6	73.6	84.8	55.1
COVTUITREFSR (COVID-19 pandemic: tuition refund [institution reported])	17,320	53.0	55.7	35.2	51.5	55.3	49.9	78.1
CRBALCR (Credit cards: balance carried over each month)	17,750	85.0	94.2	81.4	85.8	84.4	84.7	84.0

See notes at end of table.

Table P-7. Graduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public 4-year			Private nonprofit 4-year		Private for-profit 4-year
			Non-doctorate-granting, primarily subbaccalaureate	Non-doctorate-granting, primarily baccalaureate	Doctorate-granting	Non-doctorate-granting	Doctorate-granting	
CRBALDUE (Credit cards: balance due on all credit cards)	9,030	69.0	88.5	68.2	68.4	72.1	66.7	75.6
CRNUMCRD (Credit cards: number of credit cards in own name)	19,650	86.7	94.8	83.6	87.5	86.5	86.3	86.0
CRTUIT (Credit cards: used credit cards to pay tuition and fees in 2019–20)	17,750	84.8	94.2	81.3	85.5	84.3	84.5	83.9
CRTUIT2 (Credit cards: only source available to pay tuition and fees in 2019–20)	6,320	57.2	87.9	60.8	58.0	59.2	53.7	62.0
CSTBKSDG (Cost of digital textbooks [student reported])	19,650	85.7	92.3	82.4	86.7	85.8	85.0	85.2
CSTBKSPR (Cost of print-only textbooks [student reported])	19,650	85.7	92.3	82.3	86.7	85.8	85.1	85.2
CSTOTHER (Cost of other required course materials [student reported])	19,650	85.6	89.1	82.3	86.5	85.7	84.9	85.2
CSTSUPP (Cost of required supplies [student reported])	19,650	85.7	89.5	82.3	86.6	85.7	85.0	85.3
CSTTECH (Cost of required technology [student reported])	19,650	85.6	89.5	82.4	86.6	85.8	84.9	85.3
CSTTOTAL (Total cost of required course materials [student reported])	19,650	85.4	89.1	82.3	86.4	85.7	84.6	84.6
CUMLNTP1 (Cumulative loan type for undergraduate)	19,650	87.1	93.4	83.4	88.0	87.0	86.6	86.6
CUMLNTP2 (Cumulative loan type for graduate)	19,650	76.9	82.7	70.2	80.4	72.3	74.0	77.4
CUMLNTP3 (Cumulative loan type for undergraduate and graduate)	19,650	76.4	82.5	69.8	80.1	71.3	73.4	76.7
DEGPR (Prior degree earned since high school)	19,650	100.0	100.0	100.0	100.0	100.0	100.0	100.0
DEGPRAA (Prior degree: associate's degree)	19,650	89.7	96.2	86.1	90.0	90.0	89.6	89.4
DEGPRBA (Prior degree: 4-year bachelor's degree)	19,650	100.0	100.0	100.0	100.0	100.0	100.0	100.0
DEGPRCRT (Prior degree: undergraduate certificate/diploma)	19,650	89.7	96.2	86.1	90.0	90.0	89.6	89.4
DEGPRDOC (Prior degree: doctorate or professional degree)	19,650	89.7	96.2	86.1	90.0	90.0	89.6	89.4
DEGPRMS (Prior degree: master's degree)	19,650	89.7	96.2	86.1	90.0	90.0	89.6	89.4
DEGPRPTB (Prior degree: post-bachelor's certificate)	19,650	89.7	96.2	86.1	90.0	90.0	89.6	89.4
DEGPRPTM (Prior degree: post-master's certificate)	19,650	89.7	96.2	86.1	90.0	90.0	89.6	89.4
DEPANY (Dependents: has any dependents)	19,650	100.0	100.0	99.9	100.0	100.0	100.0	100.0
DEPCARE (Dependents: child in paid child care)	4,060	84.4	‡	77.1	85.5	83.1	85.4	81.7
DEPCHILD (Dependents: has dependent children)	19,650	100.0	100.0	99.9	100.0	100.0	100.0	100.0
DEPCOL (Independent students: number of dependents in college)	6,420	97.3	‡	96.8	97.2	95.0	97.9	97.2

See notes at end of table.

Table P-7. Graduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public 4-year			Private nonprofit 4-year		Private for-profit 4-year
			Non-doctorate-granting, primarily subbaccalaureate	Non-doctorate-granting, primarily baccalaureate	Doctorate-granting	Non-doctorate-granting	Doctorate-granting	
DEPCOLCS (Amount contributed to college costs for dependents in 2019–20)	1,540	75.4	‡	79.2	75.8	72.2	74.8	75.8
DEPCOST (Dependents: children in paid child care—monthly costs)	2,560	70.2	‡	60.2	72.3	71.6	71.2	64.8
DEPEND (Dependency status)	19,650	100.0	100.0	100.0	100.0	100.0	100.0	100.0
DEPEND2 (Dependency status [3 categories])	19,650	100.0	100.0	99.9	100.0	100.0	100.0	100.0
DEPEND4 (Dependency status [4 categories])	19,650	100.0	100.0	99.9	99.9	100.0	100.0	100.0
DEPEND5A (Dependency and marital status [separated is married])	19,650	100.0	100.0	99.9	99.9	100.0	100.0	100.0
DEPEND5B (Dependency and marital status [separated is unmarried])	19,650	100.0	100.0	99.9	99.9	100.0	100.0	100.0
DEPNUM (Dependents: has any dependents [number])	19,650	99.9	100.0	99.8	99.8	99.9	99.9	99.8
DEPNUMCH (Dependents: has dependent children [number])	19,650	99.0	100.0	99.3	99.2	98.9	99.2	97.0
DEPNUMOT (Dependents: has dependent(s) other than children [number])	19,650	98.9	100.0	99.2	99.2	98.8	99.1	96.8
DEPOTCST (Dependents: monthly cost of supporting dependents other than children)	1,030	45.7	‡	61.2	42.4	56.3	47.7	43.1
DEPOTHER (Dependents: has dependent(s) other than children)	19,650	100.0	100.0	99.9	100.0	100.0	100.0	100.0
DEPTYPE (Dependents: types of dependents)	19,650	100.0	100.0	99.9	100.0	100.0	100.0	100.0
DEPYNG (Dependents: age of youngest child)	6,110	97.0	‡	96.5	97.6	94.9	97.0	96.7
DERMAJ (Derived major: 2020 6-digit CIP code)	19,350	99.6	93.2	99.2	99.9	99.7	99.4	99.2
DIS16A (Disability: deaf or serious difficulty hearing)	19,650	86.5	92.2	82.6	87.2	86.6	86.3	85.4
DIS16B (Disability: blind or serious difficulty seeing)	19,650	86.6	92.2	82.6	87.4	86.6	86.2	85.3
DIS17A (Disability: serious difficulty concentrating, remembering, deciding)	19,650	86.5	92.2	82.6	87.4	86.6	86.1	85.3
DIS17B (Disability: serious difficulty walking or climbing stairs)	19,650	86.6	92.2	82.6	87.4	86.6	86.3	85.3
DISABLE (Disability: has some type of disability)	19,650	86.1	92.2	82.6	86.9	86.5	85.6	84.9
DISTALL (Distance education: entire program at NPSAS was online)	19,350	89.0	88.5	85.7	89.0	89.7	88.7	91.3
DISTEDUC (Distance education: any classes taken at NPSAS taught entirely online)	19,650	89.5	94.9	86.8	89.3	90.6	89.0	92.0
DISTYPES (Disability: main type of condition or impairment)	4,500	38.9	66.0	35.5	41.5	41.6	35.5	39.7

See notes at end of table.

Table P-7. Graduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public 4-year			Private nonprofit 4-year		Private for-profit 4-year
			Non-doctorate-granting, primarily subbaccalaureate	Non-doctorate-granting, primarily baccalaureate	Doctorate-granting	Non-doctorate-granting	Doctorate-granting	
DODAMT (DOD [military] aid)	19,650	88.9	86.7	86.7	91.8	83.4	86.4	89.8
E01 (Monthly enrollment status [half time] 2019/07)	19,650	99.1	99.7	97.4	99.3	99.5	99.3	98.0
E02 (Monthly enrollment status [half time] 2019/08)	19,650	99.2	99.3	98.7	99.3	99.1	99.2	98.6
E03 (Monthly enrollment status [half time] 2019/09)	19,650	99.0	97.1	98.6	99.2	98.8	99.0	98.3
E04 (Monthly enrollment status [half time] 2019/10)	19,650	99.0	97.4	98.7	99.3	98.6	99.0	98.1
E05 (Monthly enrollment status [half time] 2019/11)	19,650	99.0	97.4	98.7	99.2	98.8	99.1	97.7
E06 (Monthly enrollment status [half time] 2019/12)	19,650	99.0	97.4	98.8	99.3	98.7	99.1	97.7
E07 (Monthly enrollment status [half time] 2020/01)	19,650	99.0	98.9	98.6	99.1	98.8	99.2	98.1
E08 (Monthly enrollment status [half time] 2020/02)	19,650	99.0	98.9	98.6	99.1	99.0	99.2	98.1
E09 (Monthly enrollment status [half time] 2020/03)	19,650	99.1	98.9	98.6	99.1	99.1	99.2	98.2
E10 (Monthly enrollment status [half time] 2020/04)	19,650	99.0	98.9	98.3	99.0	99.1	99.2	98.1
E11 (Monthly enrollment status [half time] 2020/05)	19,650	99.1	98.9	98.2	99.1	99.0	99.4	98.1
E12 (Monthly enrollment status [half time] 2020/06)	19,650	99.2	99.9	98.5	99.3	99.7	99.3	98.2
EFC (Expected family contribution)	19,650	55.8	58.9	52.1	51.9	60.0	56.9	68.0
EFCAID (Aid subject to federal EFC limitation)	19,650	87.8	86.4	85.2	91.1	83.3	84.7	89.2
EFFORT3 (Net price after grants as percent of income)	17,850	45.0	47.8	34.7	42.6	48.3	44.5	59.8
EFFORT9 (Net tuition after all grants as percent of income)	17,850	45.2	47.8	35.0	42.8	48.4	44.6	60.4
EMPLWAIV (Institution tuition waivers for staff)	19,650	88.7	86.4	86.3	91.7	83.4	85.9	89.9
EMPLYAM3 (Employer aid [student and parents])	19,650	99.6	100.0	99.6	99.7	99.5	99.5	99.7
EMPLYAMT (Employer aid [includes college staff])	19,650	88.7	86.4	86.3	91.7	83.4	85.9	89.9
ENLEN (Number of total months enrolled)	19,650	97.9	95.4	96.0	98.1	97.7	98.4	95.5
ENR01 (Monthly enrollment status 2019/07)	19,650	99.1	99.7	97.4	99.3	99.5	99.3	98.0
ENR02 (Monthly enrollment status 2019/08)	19,650	99.2	99.3	98.7	99.3	99.1	99.2	98.6
ENR03 (Monthly enrollment status 2019/09)	19,650	99.0	97.1	98.6	99.2	98.8	99.0	98.3
ENR04 (Monthly enrollment status 2019/10)	19,650	99.0	97.4	98.7	99.3	98.6	99.0	98.1
ENR05 (Monthly enrollment status 2019/11)	19,650	99.0	97.4	98.7	99.2	98.8	99.1	97.7
ENR06 (Monthly enrollment status 2019/12)	19,650	99.0	97.4	98.8	99.3	98.7	99.1	97.7
ENR07 (Monthly enrollment status 2020/01)	19,650	99.0	98.9	98.6	99.1	98.8	99.2	98.1
ENR08 (Monthly enrollment status 2020/02)	19,650	99.0	98.9	98.6	99.1	99.0	99.2	98.1

See notes at end of table.

Table P-7. Graduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public 4-year			Private nonprofit 4-year		Private for-profit 4-year
			Non-doctorate-granting, primarily subbaccalaureate	Non-doctorate-granting, primarily baccalaureate	Doctorate-granting	Non-doctorate-granting	Doctorate-granting	
ENR09 (Monthly enrollment status 2020/03)	19,650	99.1	98.9	98.6	99.1	99.1	99.2	98.2
ENR10 (Monthly enrollment status 2020/04)	19,650	99.0	98.9	98.3	99.0	99.1	99.2	98.1
ENR11 (Monthly enrollment status 2020/05)	19,650	99.1	98.9	98.2	99.1	99.0	99.4	98.1
ENR12 (Monthly enrollment status 2020/06)	19,650	99.2	99.9	98.5	99.3	99.7	99.3	98.2
ENRFALL (Enrolled any time between July and December 2019)	19,650	98.3	96.6	96.9	98.6	98.4	98.5	96.4
ENRSPR (Enrolled any time between January and June 2020)	19,650	98.6	98.8	97.7	98.7	98.2	98.9	97.2
ENRSTAT (Enrollment pattern)	19,650	97.9	95.4	96.6	98.2	97.8	98.4	95.6
FAMHELP (Other financial support received)	19,650	86.7	94.4	83.3	87.2	86.5	86.4	86.7
FAMHPAM (Help from family and friends: total amount in 2019–20)	19,650	86.7	94.4	83.2	87.2	86.5	86.4	86.7
FEDAPP (Applied for federal aid)	19,650	94.4	91.0	92.2	95.5	93.0	93.0	96.1
FEDBEN (Received federal benefit: any)	19,650	33.9	29.6	37.4	32.6	37.7	33.6	37.9
FEDBENA (Received federal benefit: food stamp benefits)	19,650	98.1	81.0	96.6	97.8	97.9	98.7	97.7
FEDBENB (Received federal benefit: free or reduced-price school lunch benefits)	19,650	39.5	33.1	47.3	36.7	44.6	38.4	51.3
FEDBENC (Received federal benefit: Supplemental Security Income benefits)	19,650	98.2	86.9	96.9	97.9	97.9	98.6	98.6
FEDBEND (Received federal benefit: TANF benefits)	19,650	38.8	33.1	46.9	36.2	44.2	37.7	49.3
FEDBENE (Received federal benefit: WIC benefits)	19,650	28.2	19.7	31.0	28.3	28.9	28.4	26.5
FEDCUM1 (Cumulative federal loan amount for undergraduate)	19,650	99.9	100.0	100.0	99.9	100.0	99.9	99.8
FEDCUM2 (Cumulative federal loan amount for graduate)	19,650	99.9	100.0	100.0	99.9	100.0	99.9	99.8
FEDDUE1 (Cumulative federal loan amount owed, principal and interest, undergraduate)	19,650	99.9	100.0	100.0	99.9	100.0	99.9	99.8
FEDDUE2 (Cumulative federal loan amount owed, principal and interest, graduate)	19,650	99.9	100.0	100.0	99.9	100.0	99.9	99.8
FEDGRPCT (Ratio of federal grants to total aid)	15,880	75.8	51.6	59.2	79.5	72.3	71.6	83.8
FEDOWE1 (Cumulative federal loan amount owed for undergraduate)	19,650	99.9	100.0	100.0	99.9	100.0	99.9	99.8
FEDOWE2 (Cumulative federal loan amount owed for graduate)	19,650	99.9	100.0	100.0	99.9	100.0	99.9	99.8
FEDPCT (Ratio of federal aid to total aid)	15,880	75.8	51.6	59.2	79.5	72.3	71.6	83.8
FEDPLUSCUM1 (Cumulative federal loan amount for undergraduate [including Parent PLUS Loans])	19,650	99.9	100.0	100.0	99.9	100.0	99.9	99.8

See notes at end of table.

Table P-7. Graduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public 4-year			Private nonprofit 4-year		Private for-profit 4-year
			Non-doctorate-granting, primarily subbaccalaureate	Non-doctorate-granting, primarily baccalaureate	Doctorate-granting	Non-doctorate-granting	Doctorate-granting	
FGRTLN (Total federal loans and grants)	19,650	83.8	82.7	74.9	86.0	80.5	81.1	89.3
FIN2000 (Financial security: \$2,000 within the next month)	19,650	86.5	94.0	83.1	87.2	86.4	86.2	85.0
FIN500 (Financial security: \$500 within the next month)	19,650	86.3	94.0	82.6	87.1	86.2	85.9	84.7
FINLIT1 (Financial literacy: effect of inflation on purchasing)	19,650	86.1	94.2	82.3	86.8	85.9	85.9	84.4
FINLIT2 (Financial literacy: effect of interest on savings)	19,650	86.2	94.2	82.5	86.9	85.9	86.0	85.2
FINLIT3 (Financial literacy: effect of diversification on risk)	19,650	86.5	94.3	82.6	87.2	86.1	86.1	85.8
FINLITALL (Financial literacy: correctly answered all three items)	19,650	86.4	94.6	82.6	87.3	85.9	86.0	85.5
FINLITTOT (Financial literacy: number of correct responses)	19,650	85.7	93.7	82.0	86.4	85.5	85.5	84.0
FOODSEC (Food security status: previous 30 days)	19,650	95.9	95.3	95.6	96.4	94.8	95.8	94.6
GAINSUR (Graduate assistantship: included health insurance)	2,510	78.3	‡	81.4	85.8	86.1	61.8	‡
GENDER (Gender)	19,650	99.9	100.0	100.0	100.0	100.0	99.8	99.8
GLOANSR2 (Loan package by type of loan)	19,650	87.0	88.3	84.2	90.4	81.6	83.9	88.0
GLOANSRC (Loan package by source of loan)	19,650	87.0	88.3	84.2	90.4	81.6	83.9	88.0
GPLUSAMT (Direct PLUS Loans to graduate students)	19,650	100.0	100.0	100.0	100.0	100.0	100.0	100.0
GPLUSRAT (Ratio of Graduate PLUS Loans to total loans)	9,650	73.7	‡	67.9	77.4	66.5	69.7	81.4
GRADDEG (Graduate degree program)	19,650	99.9	95.7	99.9	100.0	99.8	100.0	99.6
GRADGAP (Years between bachelor's and graduate school)	19,470	81.3	57.7	78.3	81.5	82.5	81.5	80.6
GRADGAPM (Months between bachelor's and graduate school)	19,470	81.3	57.7	78.3	81.5	82.5	81.5	80.6
GRADGPG (Graduate degree programs)	19,650	99.7	95.7	99.7	99.9	99.7	99.5	99.2
GRADLVL (Graduate class level)	19,650	77.7	78.3	75.3	78.3	76.6	77.2	78.9
GRADMAJ (Graduate field of study—2020 CIP)	19,350	99.6	93.2	99.2	99.9	99.7	99.4	99.2
GRADMAJ_2010 (Graduate field of study—2010 CIP)	19,350	99.6	93.2	99.2	99.9	99.7	99.4	99.2
GRADPGM (Graduate programs)	19,650	99.7	95.7	99.7	99.9	99.7	99.5	99.2
GRADPYM (Year and month began graduate degree)	19,470	81.3	57.7	78.3	81.5	82.5	81.5	80.6
GRADPYR (Year began graduate degree)	19,470	81.3	57.7	78.3	81.5	82.5	81.5	80.6
GRADSTAT (Graduate degree and attendance pattern)	19,650	99.5	95.7	99.0	99.7	99.6	99.7	98.7
GRASTAMT (Total assistantships amount)	19,650	99.6	100.0	99.8	99.7	99.7	99.4	99.8
GRGRD (Other graduate assistantship)	19,650	99.6	100.0	99.8	99.7	99.7	99.4	99.7
GRINFEL (Graduate fellowship amount)	19,650	95.9	98.1	96.0	97.0	92.9	94.7	97.6

See notes at end of table.

Table P-7. Graduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public 4-year			Private nonprofit 4-year		Private for-profit 4-year
			Non-doctorate-granting, primarily subbaccalaureate	Non-doctorate-granting, primarily baccalaureate	Doctorate-granting	Non-doctorate-granting	Doctorate-granting	
GRJOBHR (Graduate school job: hours worked per week)	19,650	92.2	98.7	95.5	93.1	92.0	90.1	95.3
GRNTSRC (Grant package by source of grant)	19,650	82.9	82.5	73.8	85.4	80.5	79.5	89.3
GRRES (Graduate research assistantship)	19,650	99.6	100.0	99.8	99.7	99.7	99.4	99.7
GRTCST (Ratio of grant aid to student budget)	17,850	82.2	82.2	73.9	84.7	79.3	79.1	87.7
GRTEA (Graduate teaching assistantship)	19,650	99.6	100.0	99.8	99.7	99.7	99.4	99.7
GRTPCT (Ratio of grants to total aid)	15,880	75.8	51.6	59.2	79.5	72.3	71.6	83.8
GRTPCTTN (Ratio of grant aid to tuition)	17,850	82.7	82.3	74.7	85.2	79.6	79.4	89.0
GRTSNEED (Grant amount exceeding federal need)	13,940	24.9	8.3	14.5	25.7	28.2	22.1	35.7
HIGHLVEX (Highest level of education ever expected)	10,390	99.6	95.6	98.8	99.6	99.4	99.7	99.4
HISPANIC (Race: Hispanic or Latino origin)	19,650	98.9	100.0	99.0	99.5	98.1	98.4	98.6
HISPTYPE (Hispanic type)	19,650	97.4	99.0	97.2	98.2	96.6	96.9	96.7
HOMELESS2 (Homeless or at risk of homelessness)	19,650	99.5	100.0	99.7	99.5	98.9	99.5	99.2
HOMELESS3 (Experienced homelessness: previous 30 days)	19,650	95.7	95.1	94.6	96.3	95.2	95.4	94.6
HOMESTUD (Student owns home or pays mortgage)	19,650	86.9	93.8	83.3	87.6	86.5	86.6	86.2
HSIZE (Family size [dependent and independent])	19,650	99.8	100.0	99.8	99.8	99.9	99.9	99.8
IMMAGE (Age when arrived in United States)	6,480	58.3	76.2	36.3	61.4	47.7	59.4	48.1
IMMIGEN (Immigrant generational status)	17,640	85.9	91.1	81.5	86.5	85.3	85.8	85.5
IMMIGRA (Immigrant status)	19,650	87.8	91.5	82.2	88.3	86.6	88.0	86.5
INCOMEG (Total income [categorical])	19,650	56.3	58.9	53.0	52.4	61.0	57.2	68.5
INCPCT1 (Student budget as percent of income)	17,850	52.6	57.7	45.9	49.8	57.8	52.5	65.4
INCPCT2 (Tuition as percent of income)	17,850	55.6	58.1	52.0	51.9	60.4	56.5	67.2
INDEPINC (Independent students: student and spouse's income)	19,650	56.3	58.9	53.0	52.4	61.0	57.2	68.5
INGRTAMT (Institution grants total)	19,650	88.5	86.4	86.2	91.7	83.4	85.6	89.9
INJURIS (Tuition jurisdiction)	19,650	99.8	100.0	98.4	99.8	100.0	100.0	100.0
INLNAMT (Institution loans)	19,650	94.5	98.1	94.3	96.4	91.3	93.1	93.6
INPCTTN (Ratio of graduate assistantships and institution grants to tuition)	17,850	88.5	87.1	87.5	91.5	82.6	85.6	89.6
INSMILAMT (Institution military/Armed Forces grants)	19,650	88.7	86.4	86.3	91.7	83.4	86.0	89.9
INSTAMT (Institution aid total)	19,650	88.5	86.4	86.2	91.7	83.4	85.6	89.9

See notes at end of table.

Table P-7. Graduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public 4-year			Private nonprofit 4-year		Private for-profit 4-year
			Non-doctorate-granting, primarily subbaccalaureate	Non-doctorate-granting, primarily baccalaureate	Doctorate-granting	Non-doctorate-granting	Doctorate-granting	
INSTCST (Ratio of graduate assistantships and institution grants to student budget)	17,850	86.6	86.6	82.1	89.9	82.2	83.5	88.1
INSTGPCT (Ratio of institution grants to total aid)	15,880	75.8	51.6	59.2	79.5	72.3	71.6	83.8
INSTPCT (Ratio of institution aid to total aid)	15,880	75.8	51.6	59.2	79.5	72.3	71.6	83.8
INSTWRK (Institutional work-study)	19,650	99.1	99.5	99.5	99.5	98.5	98.7	99.3
INSVETAMT (Institutional veterans education benefits)	19,650	99.3	100.0	99.8	99.6	99.1	99.0	99.6
INSWAIV (Institution tuition and fee waivers)	19,650	88.7	86.4	86.3	91.7	83.4	85.9	89.9
ISTUINC (Independent students: income [continuous])	19,650	57.1	58.9	53.8	53.2	61.7	58.1	69.5
JOBANY_GR (Job: had job while enrolled in 2019–20 [excluding assistantship/traineeship/fellowship/work-study])	19,650	96.8	98.4	96.5	97.2	95.3	96.6	96.6
JOBANY2_GR (Job: had job while enrolled in 2019–20 [including assistantship/traineeship/fellowship/work-study])	19,650	96.7	98.4	96.5	97.0	95.3	96.4	96.6
JOBANY3_GR (Job: had job at any time in 2019–20 [including assistantship/traineeship/fellowship/work-study])	19,650	97.4	98.4	97.2	97.8	95.9	97.2	97.1
JOBEARN_GR (Job: earnings from work while enrolled [excluding assistantship/traineeship/fellowship/work-study])	19,650	96.1	98.4	95.6	96.8	94.3	95.8	95.2
JOBEARN2_GR (Job: earnings from work while enrolled [including assistantship/traineeship/fellowship/work-study])	19,650	88.5	97.1	91.0	89.8	87.4	86.3	90.9
JOBEARN3_GR (Job: earnings from work [including assistantship/traineeship/fellowship/work-study])	19,650	88.4	97.1	91.0	89.7	87.2	86.3	90.8
JOBENR_GR (Jobs while enrolled: work intensity [excluding assistantship/traineeship/fellowship/work-study])	19,650	96.5	98.4	96.3	96.9	95.1	96.3	96.4
JOBENR2_GR (Jobs while enrolled: work intensity [including assistantship/traineeship/fellowship/work-study])	19,650	94.2	98.4	95.8	94.8	94.5	92.9	96.4
JOBENR3_GR (Job: work intensity [including assistantship/traineeship/fellowship/work-study])	19,650	89.1	97.1	91.9	90.3	88.3	86.8	92.3
JOBHOUR_GR (Jobs while enrolled: hours per week [excluding assistantship/traineeship/fellowship/work-study])	19,650	96.5	98.4	96.3	96.9	95.1	96.3	96.4
JOBHOUR2_GR (Jobs while enrolled: hours per week [including assistantship/traineeship/fellowship/work-study])	19,650	94.2	98.4	95.8	94.8	94.5	92.9	96.4
JOBHOUR3_GR (Job: Hours worked per week [including assistantship/traineeship/fellowship/work-study])	19,650	89.1	97.1	91.9	90.3	88.3	86.8	92.3
JOBROLE_GR (Job: primary role as student or employee)	15,970	74.3	86.4	86.5	69.4	83.6	73.3	89.1

See notes at end of table.

Table P-7. Graduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public 4-year			Private nonprofit 4-year		Private for-profit 4-year
			Non-doctorate-granting, primarily subbaccalaureate	Non-doctorate-granting, primarily baccalaureate	Doctorate-granting	Non-doctorate-granting	Doctorate-granting	
JOBROLE2 (Job: primary role as student or employee [including work-study/fellowship])	16,000	74.4	86.4	86.5	69.5	83.7	73.4	89.2
JOBTYPER2_GR (Type of job student had [including assistantship/traineeship/fellowship/work-study])	15,990	90.2	96.6	92.0	91.4	87.1	88.2	93.4
LNREPAY (Expect help with repaying student loans)	13,390	57.5	34.9	51.2	59.3	52.7	54.7	65.1
LOANLIT1 (Loan literacy: government can report unpaid debt to credit bureaus)	19,650	88.4	94.8	84.4	88.8	88.7	88.1	88.6
LOANLIT2 (Loan literacy: government can garnish wages for unpaid federal loan debt)	19,650	88.4	94.8	84.4	88.8	88.7	88.1	88.6
LOANLIT3 (Loan literacy: government can retain tax refunds, Social Security for loan debt)	19,650	88.4	94.8	84.4	88.8	88.7	88.1	88.6
LOANLITALL (Loan literacy: correctly answered all three items)	19,650	88.4	94.8	84.4	88.8	88.7	88.1	88.6
LOANLITTOT (Loan literacy: number of correct responses)	19,650	88.4	94.8	84.4	88.8	88.7	88.1	88.6
LOANPCT (Label 1: ratio of loans to total aid [excluding Parent PLUS Loans] Label 2: ratio of loans to total aid)	15,880	75.8	51.6	59.2	79.5	72.3	71.6	83.8
LOCALEST (Degree of urbanization of student's permanent address)	17,610	95.6	94.2	96.5	95.9	92.9	95.1	97.7
MAJORNFSF (Major field of study classified by National Science Foundation—2020 CIP)	19,350	99.6	93.2	99.2	99.9	99.7	99.4	99.2
MAJORNFSF_2010 (Major field of study classified by National Science Foundation—2010 CIP)	19,350	99.6	93.2	99.2	99.9	99.7	99.4	99.2
MAJORS (Field of study or major [detailed]—2020 CIP)	19,350	99.6	93.2	99.2	99.9	99.7	99.4	99.2
MAJORS_2010 (Field of study or major [detailed]—2010 CIP)	19,350	99.6	93.2	99.2	99.9	99.7	99.4	99.2
MAJORSGR (Graduate field of study or major—2020 CIP)	19,350	99.6	93.2	99.2	99.9	99.7	99.4	99.2
MAJORSGR_2010 (Graduate field of study or major—2010 CIP)	19,350	99.6	93.2	99.2	99.9	99.7	99.4	99.2
MEALPLAN (Meal plan: had meal plan in 2019–20)	19,650	96.8	95.6	97.3	95.8	96.6	95.7	97.8
MEALPLANFQ (Meal plan: meal plan covered 11 or more meals per week)	910	43.2	‡	42.2	44.2	45.5	48.1	7.8
MFT (Number of full-time months enrolled)	19,650	99.5	100.0	99.3	99.7	99.5	99.6	98.2
MHT (Months enrolled half time)	19,650	98.7	98.4	98.2	98.8	98.1	99.1	97.1
MILTOT (Total federal and nonfederal military/Armed Forces grants)	19,650	88.1	86.4	85.8	91.2	83.4	85.2	89.6

See notes at end of table.

Table P-7. Graduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public 4-year			Private nonprofit 4-year		Private for-profit 4-year
			Non-doctorate-granting, primarily subbaccalaureate	Non-doctorate-granting, primarily baccalaureate	Doctorate-granting	Non-doctorate-granting	Doctorate-granting	
MILTYPE (Military type)	19,650	100.0	100.0	100.0	100.0	100.0	100.0	100.0
MILTYPE2 (Military type [for dependency])	19,650	100.0	100.0	100.0	100.0	100.0	100.0	100.0
MLT (Months enrolled less than half time)	19,650	99.0	97.0	97.9	99.0	98.5	99.0	99.3
MNTRENT (Monthly mortgage or rent amount)	19,650	85.7	92.4	81.8	86.5	85.7	85.6	84.3
MPT (Number of part-time months enrolled)	19,650	98.3	95.4	97.0	98.5	98.0	98.6	96.8
NETCST1 (Student budget minus all aid)	17,850	80.4	81.2	72.3	83.2	78.1	76.9	85.8
NETCST10 (Tuition and fees minus federal grants)	17,850	83.6	82.6	75.8	85.7	79.6	81.0	89.0
NETCST12 (Tuition and fees minus state grants)	17,850	88.9	87.4	87.1	92.1	82.6	86.2	89.3
NETCST13 (Tuition and fees minus institution grants)	17,850	88.5	87.1	87.5	91.5	82.6	85.6	89.6
NETCST14 (Tuition and fees minus all nonfederal grants)	17,850	88.0	87.1	86.6	91.2	82.6	85.0	89.3
NETCST15 (Tuition and fees minus state and institution grants)	17,850	88.1	87.1	87.0	91.3	82.6	85.0	89.3
NETCST16 (Student budget minus federal and state grants)	17,850	82.7	82.5	74.0	85.1	79.3	80.1	87.7
NETCST17 (Student budget minus all grants and loans)	17,850	80.4	81.2	72.3	83.2	78.1	77.0	86.1
NETCST2 (Student budget minus federal grants)	17,850	82.8	82.5	74.9	85.1	79.3	80.2	87.7
NETCST3 (Student budget minus all grants)	17,850	82.2	82.2	73.9	84.7	79.3	79.1	87.7
NETCST41 (Student budget minus all aid except private loans)	17,850	82.1	82.2	73.9	84.7	79.2	79.0	87.2
NETCST43 (Student budget minus all aid except loans)	17,850	80.4	81.2	72.3	83.2	78.1	76.9	85.8
NETCST44 (Tuition and fees minus all graduate assistantships and institution grants)	17,850	88.5	87.1	87.5	91.5	82.6	85.6	89.6
NETCST9 (Tuition and fees minus all grants)	17,850	82.7	82.3	74.7	85.2	79.6	79.4	89.0
NFEDCUM1 (Cumulative nonfederal loan amount for undergraduate)	19,650	87.2	93.4	83.4	88.0	87.1	86.6	86.7
NFEDCUM2 (Cumulative nonfederal loan amount for graduate)	19,650	76.9	82.7	70.2	80.4	72.3	74.0	77.4
NFEDCUM3 (Cumulative nonfederal loan amount for undergraduate and graduate)	19,650	76.4	82.5	69.8	80.1	71.3	73.4	76.7
NUMJOB_GR (Jobs while enrolled: number in 2019–20 [excluding assistantship/traineeship/fellowship/work-study])	19,650	96.8	98.4	96.5	97.2	95.3	96.6	96.6
NUMJOB2_GR (Jobs while enrolled: number in 2019–20 [including assistantship/traineeship/fellowship/work-study])	19,650	96.7	98.4	96.5	97.0	95.3	96.4	96.6
NUMJOB3_GR (Job: number in 2019–20 [including assistantship/traineeship/fellowship/work-study])	19,650	97.4	98.4	97.2	97.8	95.9	97.2	97.1

See notes at end of table.

Table P-7. Graduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public 4-year			Private nonprofit 4-year		Private for-profit 4-year
			Non-doctorate-granting, primarily subbaccalaureate	Non-doctorate-granting, primarily baccalaureate	Doctorate-granting	Non-doctorate-granting	Doctorate-granting	
ORPHAN2 (Orphan, ward of court, emancipated minor, or in legal guardianship)	19,650	99.5	100.0	99.7	99.7	100.0	99.3	99.3
OTHFDGRT (Other federal grants [not Title IV])	19,650	83.8	82.7	74.9	86.0	80.5	81.1	89.3
OTHGTAMT (Outside grants [private and employer])	19,650	99.4	100.0	99.1	99.5	99.4	99.4	99.6
OTHRSCR (Outside sources total)	19,650	86.8	85.8	84.7	90.0	81.5	84.0	88.2
OTHTYPE (Label 1: total other type of aid [Direct PLUS, job training, VA] Label 2: total other type of aid [Direct PLUS, assistantships, VA])	19,650	88.8	86.7	86.7	91.8	83.4	86.3	89.8
OTHTYPE2 (Total other type of aid including work-study)	19,650	88.3	86.7	85.8	91.4	83.2	85.5	89.2
OWEAMT1 (Amount still owed on all undergraduate loans)	19,650	87.7	93.3	86.3	88.2	86.8	87.4	87.2
OWEAMT2 (Amount still owed on all graduate loans)	19,650	75.3	82.1	70.8	78.8	70.6	72.3	75.6
OWEAMT3 (Amount still owed on all education loans)	19,650	74.1	82.0	69.6	77.6	68.8	71.2	74.2
PAR1 (Parent type 1 [for parents' highest education])	19,650	99.7	99.8	99.7	99.8	99.5	99.8	99.6
PAR2 (Parent type 2 [for parents' highest education])	19,650	97.9	97.9	98.4	98.0	97.3	97.9	97.9
PARBORN (Parent born in United States, Puerto Rico, or U.S. territory)	19,650	86.7	94.6	82.6	87.5	86.5	86.4	85.8
PARED1 (Parent 1 highest education level)	19,650	99.8	100.0	99.8	99.9	99.4	99.8	99.5
PARED2 (Parent 2 highest education level)	19,650	97.9	98.5	98.4	97.9	97.3	97.8	97.7
PAREduc (Parents' highest education level)	19,650	97.8	98.5	98.4	97.9	97.2	97.8	97.7
PARFEMED (Female parent's highest education level)	19,610	97.9	98.4	98.4	98.0	97.2	97.8	97.8
PARHELP2 (Label 1: help from parents: housing, tuition, other expenses [including independent students] Label 2: help from parents: housing, tuition, other expenses)	19,650	86.8	94.4	83.5	87.5	86.7	86.4	86.4
PARHPAMT2 (Label 1: help from parents: amount paid for expenses [including independent students] Label 2: help from parents: amount parents helped pay for expenses)	19,650	86.6	91.8	83.2	87.4	86.2	86.2	86.1
PARMALED (Male parent's highest education level)	19,460	97.8	97.9	98.4	97.9	97.1	97.8	97.7
PAYEARN (Financing education: earnings from employment [other than listed sources])	19,650	98.1	99.4	98.8	98.3	98.5	97.6	98.9
PAYFAM (Financing education: financial assistance from parents/family/friends)	19,650	97.8	99.4	98.6	97.8	98.4	97.5	98.5
PAYOTH (Financing education: other source(s))	19,650	97.2	99.1	98.3	97.3	97.7	96.9	97.8

See notes at end of table.

Table P-7. Graduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public 4-year			Private nonprofit 4-year		Private for-profit 4-year
			Non-doctorate-granting, primarily subbaccalaureate	Non-doctorate-granting, primarily baccalaureate	Doctorate-granting	Non-doctorate-granting	Doctorate-granting	
PCTPOV (Income percent of poverty level)	17,350	60.9	58.9	54.1	58.3	62.6	61.7	69.6
PDADDED (Father's highest education level)	19,180	97.8	97.9	98.4	97.8	97.1	97.8	97.6
PERKCUM1 (Cumulative Perkins amount for undergraduate)	19,650	99.9	100.0	100.0	99.9	100.0	99.9	99.8
PERKCUM2 (Cumulative Perkins amount for graduate)	19,650	99.9	100.0	100.0	99.9	100.0	99.9	99.8
PGMAIDL (Graduate program and largest financial aid type)	18,000	99.0	88.4	96.4	99.3	98.1	99.1	98.8
PGMSEC (Graduate program and institution type)	19,650	99.9	95.7	99.9	100.0	99.8	100.0	99.6
PHSLOAN (Federal health professions loans)	19,650	96.7	99.2	97.6	98.1	95.5	95.9	94.2
PLUSCUM (Cumulative Parent PLUS Loans)	19,650	100.0	100.0	100.0	100.0	100.0	100.0	100.0
PMOMED (Mother's highest education level)	19,550	97.9	98.4	98.4	98.0	97.1	97.8	97.8
PRIMLANG (Primary language spoken)	19,650	86.7	94.8	82.5	87.5	86.6	86.4	85.1
PRIMLG (Frequency of speaking non-English language with primary caregiver)	7,130	65.0	88.2	42.7	67.6	55.9	66.5	53.6
PRIV (Private source grants)	19,650	99.7	100.0	99.4	99.6	99.8	99.7	99.7
PRIV (Total private-source grants and loans)	19,650	97.6	99.2	97.7	97.8	97.9	97.2	97.9
PRIV (Private [alternative] loans)	19,650	97.9	99.2	98.2	98.2	98.0	97.4	98.3
PRIV (Ratio of private loans to total loans)	9,650	73.7	‡	67.9	77.4	66.5	69.7	81.4
PRIV (Package of private and nonprivate loans)	19,650	87.0	88.3	84.2	90.4	81.6	83.9	88.0
PRIV (Ratio of private loans to total aid)	15,880	75.8	51.6	59.2	79.5	72.3	71.6	83.8
PROG (Completed degree program in 2019–20)	19,650	96.7	94.2	97.7	97.6	95.7	95.9	95.5
RA (Race: Asian)	19,650	97.1	97.1	97.6	97.8	96.6	96.4	97.0
RAB (Race: Black or African American)	19,650	97.1	97.1	97.6	97.8	96.6	96.4	97.0
RAC (Race/ethnicity [with multiple])	19,650	98.1	100.0	98.8	98.9	97.2	97.3	98.0
RAC2 (Race/ethnicity [with multiple] without foreign students)	19,650	97.4	96.7	96.9	97.8	95.7	97.1	97.6
RACE (Race/ethnicity Census categories)	19,650	97.1	97.1	97.6	97.8	96.6	96.4	97.0
RACESEX (Race/ethnicity [with multiple] and gender)	19,480	98.1	100.0	98.8	98.9	97.1	97.3	98.0
RAIND (Race: American Indian or Alaska Native)	19,650	97.1	97.1	97.6	97.8	96.6	96.4	97.0
RAINDTRB (Race: American Indian or Alaska Native recognized tribe)	910	47.6	‡	54.4	54.6	42.2	40.3	52.0
RAIS (Race: Native Hawaiian or other Pacific Islander)	19,650	97.1	97.1	97.6	97.9	96.6	96.4	97.0
RAW (Race: White)	19,650	97.2	97.1	97.6	97.8	96.6	96.6	97.0

See notes at end of table.

Table P-7. Graduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public 4-year			Private nonprofit 4-year		Private for-profit 4-year
			Non-doctorate-granting, primarily subbaccalaureate	Non-doctorate-granting, primarily baccalaureate	Doctorate-granting	Non-doctorate-granting	Doctorate-granting	
REANOAPA (Reason for not applying: did not want to take on debt)	7,180	37.2	61.3	36.2	42.0	33.0	32.2	42.7
REANOAPB (Reason for not applying: forms were too much work)	7,180	37.2	61.3	36.2	42.0	33.0	32.2	42.7
REANOAPC (Reason for not applying: no information about how to apply)	7,180	37.2	61.3	36.2	42.0	33.0	32.2	42.7
REANOAPD (Reason for not applying: no need)	7,180	37.2	61.3	36.2	42.0	33.0	32.2	42.7
REANOAPE (Reason for not applying: thought ineligible)	7,180	37.2	61.3	36.2	42.0	33.0	32.2	42.7
REANOAPF (Reason for not applying: other)	7,180	37.2	61.3	36.2	42.0	33.0	32.2	42.7
REFUND1 (Received a refund of scholarships, grants, or loans from NPSAS)	19,650	88.6	95.3	85.5	89.0	88.9	88.3	88.8
REFUND2 (Method of receiving refund from NPSAS)	7,250	69.4	‡	60.6	69.6	64.8	69.0	74.3
SAGI (Independent students: adjusted gross income)	18,500	48.2	45.7	47.6	44.1	54.1	47.9	64.8
SAMESTAT (Attend institution in state of legal residence)	19,650	98.9	96.7	98.2	98.9	98.3	98.8	99.7
SECTOR11 (NPSAS institution sector—11 categories)	19,650	100.0	100.0	100.0	100.0	100.0	100.0	100.0
SEXORIENTAT (Sexual orientation)	19,650	96.4	97.9	95.7	97.0	95.8	96.2	95.4
SFAMNUM (Independent students: family size)	19,650	99.8	100.0	99.8	99.8	99.9	99.9	99.8
SFEDTAX (Independent students: federal tax paid)	19,650	50.1	52.3	48.4	46.6	55.9	49.9	64.0
SIBCOLFT (First sibling to go to college)	19,650	99.9	99.2	99.9	99.9	99.8	99.8	99.8
SINCOL (Independent students: number of family members in college)	19,650	99.2	100.0	98.7	99.2	98.2	99.5	98.6
SINGLPAR (Single parent, independent student)	19,650	100.0	100.0	100.0	100.0	100.0	100.0	100.0
SMARITAL (Marital status)	19,650	100.0	100.0	100.0	99.9	100.0	100.0	100.0
SNEED1 (Student budget minus EFC)	17,850	51.8	57.7	45.6	48.9	56.6	51.7	64.7
SNEED2 (Student budget minus EFC minus total aid)	17,850	42.3	44.6	32.3	40.2	45.1	41.5	57.2
SNEED3 (Student budget minus EFC minus federal grants)	17,850	43.4	46.0	34.1	41.1	45.6	42.7	58.6
SNEED4 (Student budget minus EFC and aid subject to EFC limitation)	17,850	46.6	50.1	40.7	45.1	48.0	45.8	58.4
SNEED5 (Student budget minus EFC minus all grants)	17,850	43.1	45.7	33.6	40.9	45.5	42.3	58.6
SNEED7 (Student budget minus EFC and federal and state grants)	17,850	43.3	46.0	33.6	41.1	45.6	42.7	58.6
SNEED8 (Student budget minus EFC and federal, state, and other grants)	17,850	43.3	46.0	33.6	41.1	45.6	42.6	58.6

See notes at end of table.

Table P-7. Graduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public 4-year			Private nonprofit 4-year		Private for-profit 4-year
			Non-doctorate-granting, primarily subbaccalaureate	Non-doctorate-granting, primarily baccalaureate	Doctorate-granting	Non-doctorate-granting	Doctorate-granting	
SNEED9 (Student budget minus EFC and all aid except private loans)	17,850	43.0	45.7	33.6	40.9	45.5	42.2	58.2
SPINCOL (Independent students: spouse attending college)	7,730	99.4	‡	99.7	99.2	99.2	99.7	99.2
SPSINC (Independent students: spouse's income)	7,730	51.1	‡	40.6	47.1	52.8	53.6	60.2
STABEVR (Ever studied abroad during undergraduate education)	19,650	89.1	95.3	85.7	89.4	89.1	89.1	89.1
STABREG (Study-abroad region)	5,050	58.4	‡	42.7	60.3	51.7	60.4	46.9
STABTIME (Length of time studied abroad)	5,050	54.7	‡	38.5	56.7	48.4	57.2	38.7
STAFCT2 (Label 1: Direct Subsidized and Unsubsidized Loan total maximum Label 2: Direct Unsubsidized Loan total maximum)	19,650	100.0	100.0	100.0	100.0	100.0	100.0	100.0
STAFFAMT (Direct Subsidized and Unsubsidized Loans)	19,650	100.0	100.0	100.0	100.0	100.0	100.0	100.0
STAFUNSB (Direct Unsubsidized Loans)	19,650	100.0	100.0	100.0	100.0	100.0	100.0	100.0
STAPCT (Ratio of state aid to total aid)	15,880	75.8	51.6	59.2	79.5	72.3	71.6	83.8
STATEAMT (State aid total)	19,650	89.0	89.4	85.8	92.2	83.4	86.2	89.6
STATNEED (State need-based grants)	19,650	89.0	89.4	85.8	92.2	83.4	86.2	89.6
STATNOND (State non-need- and merit-based grants)	19,650	89.1	89.4	85.8	92.4	83.4	86.4	89.6
STAXFILE (Independent students: Federal tax filed)	19,650	50.3	53.4	49.2	46.5	56.8	50.1	65.3
STEMMAJ (Major field of study with focus on STEM fields—2020 CIP)	19,650	99.6	95.7	99.2	99.9	99.7	99.4	99.2
STEMMAJ_2010 (Major field of study with focus on STEM fields—2010 CIP)	19,650	99.6	95.7	99.2	99.9	99.7	99.4	99.2
STFCUM1 (Cumulative Direct Subsidized and Unsubsidized Loans for undergraduate)	19,650	99.9	100.0	100.0	99.9	100.0	99.9	99.8
STFCUM2 (Cumulative Direct Subsidized and Unsubsidized Loans for graduate)	19,650	99.9	100.0	100.0	99.9	100.0	99.9	99.8
STGRPCT (Ratio of state grants to total aid)	15,880	75.8	51.6	59.2	79.5	72.3	71.6	83.8
STGTAMT (State grants total)	19,650	89.0	89.4	85.8	92.2	83.4	86.2	89.6
STLNAMT (State loans)	19,650	89.1	89.4	85.8	92.4	83.4	86.4	89.6
STMERIT (State merit-based only grants)	19,650	89.1	89.4	85.8	92.4	83.4	86.4	89.6
STMILAMT (State military/Armed Forces grants)	19,650	89.1	89.4	85.8	92.4	83.4	86.4	89.6
STNDMRT (State grants based both on need and merit)	19,650	89.1	89.4	85.8	92.4	83.4	86.4	89.6

See notes at end of table.

Table P-7. Graduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public 4-year			Private nonprofit 4-year		Private for-profit 4-year
			Non-doctorate-granting, primarily subbaccalaureate	Non-doctorate-granting, primarily baccalaureate	Doctorate-granting	Non-doctorate-granting	Doctorate-granting	
STNDONLY (State need-based-only grants)	19,650	89.0	89.4	85.8	92.2	83.4	86.2	89.6
STNOND1 (State non-need-based grants)	19,650	89.1	89.4	85.8	92.4	83.4	86.4	89.6
STSBCUM1 (Cumulative Direct Subsidized Loans for undergraduate)	19,650	99.9	100.0	100.0	99.9	100.0	99.9	99.8
STSBCUM2 (Cumulative Direct Subsidized Loans for graduate)	19,650	99.9	100.0	100.0	99.9	100.0	99.9	99.8
STUSTATE (State of legal residence)	19,650	98.9	96.7	98.2	98.9	98.3	98.8	99.7
STVETAMT (State veterans education benefits)	19,650	89.1	89.4	85.8	92.4	83.4	86.4	89.6
STWKAMT (State work-study)	19,650	89.1	89.4	85.8	92.4	83.4	86.4	89.6
STYPELST (Student type indicator)	19,650	100.0	100.0	100.0	100.0	100.0	100.0	100.0
SUBCUM1 (Cumulative Direct Subsidized and Perkins Loans for undergraduate)	19,650	99.9	100.0	100.0	99.9	100.0	99.9	99.8
SUBCUM2 (Cumulative Direct Subsidized and Perkins Loans for graduate)	19,650	99.9	100.0	100.0	99.9	100.0	99.9	99.8
TFEDAID (Total federal aid [excludes veterans/DOD])	19,650	83.7	82.7	74.9	86.0	80.5	81.0	88.9
TFEDAID2 (Total federal aid [includes veterans/DOD])	19,650	83.7	82.7	74.9	86.0	80.5	81.0	88.9
TFEDGRT (Total federal grants [excludes veterans/DOD])	19,650	83.8	82.7	74.9	86.0	80.5	81.1	89.3
TFEDGRT2 (Total federal grants and veterans/DOD)	19,650	83.8	82.7	74.9	86.0	80.5	81.1	89.3
TFEDLN (Total federal loans [excludes Parent PLUS Loans])	19,650	96.7	99.2	97.6	98.1	95.5	95.9	94.2
TFEDWRK (Federal work-study)	19,650	98.9	99.5	99.5	99.2	98.3	98.6	98.8
TGRTLN (Total loans and grants)	19,650	81.1	81.6	72.3	83.9	78.7	77.4	87.7
TITIVAMT (Total federal Title IV aid)	19,650	98.9	99.5	99.5	99.2	98.3	98.6	98.8
TNFEDAID (Total nonfederal aid)	19,650	86.1	85.6	83.7	89.7	81.6	82.5	88.0
TNFEDGRT (Total nonfederal grants)	19,650	88.1	86.4	85.3	91.4	83.4	84.9	89.6
TNFEDLN (Total nonfederal loans)	19,650	87.0	88.3	84.2	90.4	81.6	83.9	88.0
TOTAID (Total aid amount)	19,650	81.0	81.6	72.3	83.9	78.6	77.3	87.4
TOTAID2 (Total federal [Title IV], state, and institution aid)	19,650	87.9	86.4	85.6	91.1	83.3	84.7	89.2
TOTAID7 (Total aid [excludes veterans/DOD])	19,650	81.0	81.6	72.3	83.9	78.6	77.3	87.4
TOTAID8 (Total aid excluding private loans)	19,650	82.8	82.5	73.8	85.4	80.5	79.4	88.9
TOTDUE1 (Cumulative amount owed, principal and interest, all loans for undergraduate)	19,650	87.7	93.3	86.3	88.2	86.8	87.4	87.2

See notes at end of table.

Table P-7. Graduate survey weighted item response rates, by control and level of institution and variable: 2019–20—Continued

Variable	Sample size	All students	Public 4-year			Private nonprofit 4-year		Private for-profit 4-year
			Non-doctorate-granting, primarily subbaccalaureate	Non-doctorate-granting, primarily baccalaureate	Doctorate-granting	Non-doctorate-granting	Doctorate-granting	
TOTDUE2 (Cumulative amount owed, principal and interest, all loans for graduate)	19,650	75.3	82.1	70.8	78.8	70.6	72.3	75.6
TOTDUE3 (Cumulative amount owed, principal and interest, all education loans)	19,650	74.1	82.0	69.6	77.6	68.8	71.2	74.2
TOTGRT (Total grants)	19,650	82.9	82.5	73.8	85.4	80.5	79.5	89.3
TOTGRT2 (Total grants and veterans/DOD)	19,650	82.9	82.5	73.8	85.4	80.5	79.5	89.3
TOTGRT4 (Total state and institution grants)	19,650	88.2	86.4	85.7	91.5	83.4	85.0	89.6
TOTGRT5 (Total graduate grants/fellowships excluding employer aid)	19,650	82.9	82.5	73.8	85.4	80.5	79.5	89.3
TOTLOAN (Total loans [excluding Parent PLUS Loans])	19,650	87.0	88.3	84.2	90.4	81.6	83.9	88.0
TOTLOAN3 (Total loans excluding private loans)	19,650	89.0	89.2	85.8	92.1	83.4	86.3	89.6
TOTWKST (Total work-study)	19,650	88.7	88.9	85.8	92.0	83.3	85.9	89.2
TUITION2 (Tuition and fees paid)	17,850	99.6	100.0	98.7	99.7	100.0	99.6	98.8
UNSBLOAN (Total unsubsidized loans [all sources])	19,650	87.0	88.3	84.2	90.4	81.6	83.9	88.0
USBORN (Born in United States [student])	19,650	88.4	94.8	83.2	88.8	87.7	88.9	86.5
USEIDR (Likelihood of using income-driven student loan repayment plans)	3,610	55.6	‡	55.3	55.2	50.7	55.7	59.2
USELFP (Likelihood of using loan forgiveness program)	4,120	50.6	‡	50.5	50.4	44.3	50.5	55.7
VADODAMT (Federal veterans benefits and DOD)	19,650	88.9	86.7	86.7	91.8	83.4	86.4	89.8
VADODAMT2 (Federal veterans benefits [excluding housing] and DOD)	19,650	88.9	86.7	86.7	91.8	83.4	86.4	89.8
VETBEN (Federal veterans education benefits)	19,650	100.0	100.0	100.0	100.0	100.0	100.0	100.0
VETTOT (Total federal and nonfederal veterans education benefits)	19,650	89.1	89.4	85.8	92.3	83.4	86.3	89.6
WORKPCT (Ratio of work-study to total aid)	15,880	75.8	51.6	59.2	79.5	72.3	71.6	83.8

‡ Reporting standards not met.

NOTE: CIP = Classification of Instructional Programs; DOD = Department of Defense; EFC = expected family contribution; NPSAS = National Postsecondary Student Aid Study; STEM = science, technology, engineering, and mathematics; TANF = Temporary Assistance for Needy Families; WIC = Special Supplemental Nutrition Program for Women, Infants, and Children. Response rates are weighted using the final graduate analysis weight.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2019–20 National Postsecondary Student Aid Study (NPSAS:20).