

Appendix J-I: Nonresponse Bias Analyses

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Table J-1. Institution-level nonresponse bias analysis for selected variables for all institutions: 2015–16

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Control and level of institution						(Effect size=‡)				(Effect size=‡)	
Public less-than-2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 2-year	330	50	15.03	15.55	13.01	0.52	3.44	15.03	15.08	0.04	0.29
Public 4-year, non-doctorate-granting, primarily subbaccalaureate	60	10	1.41	1.63	0.56	0.22*	15.53	1.41	1.43	0.02	1.42
Public 4-year, non-doctorate-granting, primarily baccalaureate	80	10	3.22	3.18	3.40	-0.04	-1.37	3.22	2.87	-0.35	-10.88
Public 4-year, doctorate-granting	330	30	4.97	5.77	1.83	0.80*	16.15	4.97	5.19	0.22	4.47
Private nonprofit, less-than-4-year	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Private nonprofit, 4-year, non-doctorate-granting	280	40	13.77	14.16	12.26	0.39	2.81	13.77	14.14	0.37	2.68
Private nonprofit, 4-year, doctorate-granting	250	30	8.94	9.35	7.35	0.41	4.57	8.94	8.94	#	-0.05
Private for-profit, less-than-2-year	50	20	24.90	22.36	34.80	-2.53	-10.17	24.90	25.52	0.62	2.51
Private for-profit, 2-year	100	20	12.44	10.81	18.81	-1.63	-13.09	12.44	11.05	-1.39	-11.19
Private for-profit, 4-year	240	40	9.02	9.70	6.33	0.69	7.62	9.02	8.99	-0.02	-0.28
2015 Carnegie Basic classification code						(Effect size=0.10)				(Effect size=0.04)	
Associate's	490	60	24.48	26.86	15.21	2.37*	9.70	24.48	24.67	0.19	0.76
Research and doctoral	250	30	3.90	4.42	1.85	0.52*	13.43	3.90	4.07	0.17	4.36
Master's	440	40	9.43	10.68	4.54	1.25*	13.26	9.43	9.56	0.13	1.39
Baccalaureate	240	40	9.80	10.77	6.01	0.97*	9.89	9.80	10.19	0.39	4.00
Special focus and other	150	20	10.05	8.89	14.60	-1.16	-11.57	10.05	8.99	-1.06	-10.58
Unavailable or unknown	190	50	42.34	38.38	57.79	-3.96*	-9.34	42.34	42.52	0.18	0.44
Degree of urbanization						(Effect size=‡)				(Effect size=‡)	
Large city	460	50	21.16	21.24	20.88	0.07	0.35	21.16	20.39	-0.77	-3.66
Mid-size city	250	30	12.21	10.84	17.58	-1.37	-11.25	12.21	10.56	-1.65	-13.54
Small city	250	30	13.18	12.97	13.98	-0.21	-1.57	13.18	12.88	-0.29	-2.21
Large suburb	380	70	25.03	26.07	20.97	1.04	4.14	25.03	27.37	2.34	9.36
Mid-size suburb	50	20	5.38	5.20	6.07	-0.18	-3.29	5.38	6.38	1.00	18.64
Small suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area on fringe of town	40	10	1.43	1.48	1.21	0.05	3.85	1.43	1.43	#	0.03
Urban area distant from town	120	20	9.64	8.74	13.17	-0.90	-9.36	9.64	8.63	-1.02	-10.56
Urban area remote from town	80	10	4.10	4.86	1.15	0.76*	18.42	4.10	4.41	0.31	7.54
Rural area on fringe of town	70	10	4.60	5.32	1.81	0.71*	15.52	4.60	4.73	0.13	2.83
Rural area distant or remote from town	20	10	2.35	2.16	3.10	-0.19	-8.15	2.35	2.23	-0.12	-5.11

See notes at end of table.

Table J-1. Institution-level nonresponse bias analysis for selected variables for all institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ⁵						(Effect size=‡)				(Effect size=‡)	
New England	100	20	5.49	5.21	6.60	-0.28	-5.16	5.49	5.43	-0.07	-1.21
Mid East	290	50	17.87	18.98	13.56	1.11	6.18	17.87	18.33	0.45	2.54
Great Lakes	260	30	12.81	12.40	14.41	-0.41	-3.18	12.81	11.80	-1.01	-7.86
Plains	150	10	6.94	7.81	3.54	0.87	12.54	6.94	7.21	0.27	3.86
Southeast	400	60	24.66	23.48	29.29	-1.18	-4.80	24.66	25.29	0.63	2.55
Southwest	190	20	11.37	10.38	15.27	-1.00	-8.77	11.37	10.18	-1.19	-10.47
Rocky Mountains	70	10	6.99	6.82	7.66	-0.17	-2.43	6.99	6.95	-0.04	-0.57
Far West	250	50	12.46	13.23	9.46	0.77	6.16	12.46	13.15	0.69	5.52
Outlying areas	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Historically Black College or University						(Effect size=‡)				(Effect size=‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
No or Unavailable or unknown	1,720	240	98.75	98.59	99.35	-0.15	-0.16	98.75	98.66	-0.09	-0.09
Hispanic Serving Institution						(Effect size=0.02)				(Effect size=0.01)	
Yes	320	50	17.68	17.04	20.19	-0.64	-3.63	17.68	17.26	-0.42	-2.37
No	1,430	190	82.32	82.96	79.81	0.64	0.78	82.32	82.74	0.42	0.51
Percentage of full-time, first-time degree/certificate-seeking students receiving federal grant aid ⁶						(Effect size=0.04)				(Effect size=0.05)	
1–33	410	60	12.97	12.29	15.64	-0.68	-5.25	12.97	12.03	-0.95	-7.29
34–49	410	60	18.06	18.40	16.72	0.34	1.90	18.06	18.25	0.20	1.10
50–68	440	50	23.23	24.89	16.78	1.65	7.11	23.23	25.02	1.79	7.69
69 or more	400	60	35.53	34.63	39.04	-0.90	-2.53	35.53	34.70	-0.83	-2.32
None or unknown	100	20	10.21	9.79	11.83	-0.41	-4.06	10.21	9.99	-0.21	-2.09
Percentage of full-time, first-time degree/certificate-seeking students receiving state or local grant aid ⁶						(Effect size=0.14)				(Effect size=0.14)	
1–6	190	20	13.61	16.10	3.88	2.49*	18.30	13.61	16.37	2.76*	20.25
7–25	410	60	18.64	19.98	13.41	1.34	7.18	18.64	22.06	3.42*	18.37
26–47	430	50	15.22	16.53	10.09	1.31	8.62	15.22	15.34	0.12	0.79
48 or more	420	50	14.96	16.17	10.24	1.21	8.07	14.96	14.46	-0.50	-3.36
None or unknown	300	70	37.57	31.22	62.38	-6.35*	-16.90	37.57	31.77	-5.80*	-15.43

See notes at end of table.

Table J-1. Institution-level nonresponse bias analysis for selected variables for all institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Percentage of full-time, first-time degree/certificate-seeking students receiving institutional grant aid ⁶						(Effect size=0.07)				(Effect size=0.05)	
1–8	210	40	11.52	11.07	13.27	-0.45	-3.88	11.52	11.02	-0.50	-4.31
9–42	420	50	23.66	23.53	24.17	-0.13	-0.56	23.66	23.72	0.06	0.26
43–81	420	50	15.54	16.58	11.50	1.03	6.65	15.54	17.16	1.62	10.45
82 or more	430	40	13.21	15.13	5.70	1.92*	14.55	13.21	13.67	0.46	3.46
None or unknown	280	60	36.07	33.69	45.36	-2.38	-6.59	36.07	34.42	-1.64	-4.56
Percentage of full-time, first-time degree/certificate-seeking students receiving student loan aid ⁶						(Effect size=0.15)				(Effect size=0.12)	
1–33	350	50	11.98	13.29	6.86	1.31*	10.94	11.98	13.04	1.06	8.84
34–59	430	60	16.00	15.60	17.58	-0.40	-2.52	16.00	16.37	0.37	2.29
60–77	410	50	19.07	20.28	14.36	1.21	6.33	19.07	19.76	0.68	3.58
78 or more	410	50	33.13	36.57	19.69	3.44*	10.38	33.13	35.61	2.48	7.48
None or unknown	150	40	19.82	14.27	41.51	-5.55*	-28.01	19.82	15.23	-4.59*	-23.15
Average net price among full-time, first-time degree/certificate-seeking students receiving grant or scholarship aid ⁶						(Effect size=0.08)				(Effect size=0.10)	
\$1–\$9,193	410	60	24.22	21.10	36.40	-3.12	-12.88	24.22	20.99	-3.22	-13.31
\$9,194–\$15,752	420	40	27.94	30.09	19.54	2.15	7.69	27.94	31.79	3.86*	13.81
\$15,753–\$22,537	420	50	21.70	23.09	16.28	1.39	6.39	21.70	21.87	0.17	0.77
\$22,538 or more	390	70	15.66	15.71	15.46	0.05	0.32	15.66	15.28	-0.38	-2.43
None or unknown	110	20	10.49	10.02	12.32	-0.47	-4.47	10.49	10.07	-0.42	-4.01
Percentage of students enrolled who were Black, non-Hispanic ⁶						(Effect size=0.07)				(Effect size=0.07)	
0–4	490	80	33.36	30.27	45.45	-3.09	-9.27	33.36	30.38	-2.99	-8.95
5–8	390	60	16.22	17.25	12.18	1.03	6.38	16.22	17.28	1.06	6.52
9–18	460	40	22.91	24.29	17.52	1.38	6.02	22.91	23.07	0.16	0.70
19 or more	410	60	27.51	28.19	24.85	0.68	2.47	27.51	29.28	1.77	6.43

See notes at end of table.

Table J-1. Institution-level nonresponse bias analysis for selected variables for all institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Percentage of students enrolled who were Asian or Pacific Islander, non-Hispanic ⁶						(Effect size=0.06)				(Effect size=0.06)	
0–1	510	70	45.00	43.80	49.68	-1.20	-2.66	45.00	45.33	0.33	0.74
2–3	540	70	27.19	29.68	17.47	2.49*	9.15	27.19	29.20	2.01	7.38
4–6	320	40	11.43	10.62	14.64	-0.82	-7.17	11.43	9.91	-1.52	-13.34
7 or more	380	50	16.37	15.90	18.21	-0.47	-2.87	16.37	15.56	-0.81	-4.97
Percentage of students enrolled who were Hispanic ⁶						(Effect size=0.01)				(Effect size=0.02)	
0–4	510	70	38.23	37.67	40.45	-0.57	-1.48	38.23	37.80	-0.43	-1.12
5–8	430	50	18.37	18.56	17.65	0.18	1.00	18.37	18.12	-0.25	-1.35
9–19	400	50	19.04	19.09	18.83	0.05	0.28	19.04	18.76	-0.27	-1.44
20 or more	420	60	24.36	24.69	23.07	0.33	1.35	24.36	25.31	0.95	3.91
Total undergraduate enrollment ⁶						(Effect size=0.11)				(Effect size=0.06)	
1–1,362	380	70	63.49	60.78	74.04	-2.70*	-4.26	63.49	63.74	0.25	0.40
1,363–4,169	440	60	14.86	16.50	8.45	1.64*	11.04	14.86	15.34	0.48	3.24
4,170–12,767	450	50	11.00	12.55	4.92	1.56*	14.15	11.00	11.25	0.25	2.30
12,768 or more	450	50	7.42	8.28	4.04	0.86*	11.65	7.42	7.56	0.14	1.92
None or unknown	30	10	3.24	1.89	8.56	-1.36	-41.89	3.24	2.12	-1.13	-34.79
Male undergraduate enrollment ⁶						(Effect size=0.11)				(Effect size=0.06)	
1–529	380	70	62.29	59.73	72.27	-2.55§	-4.10	62.29	62.51	0.22	0.36
530–1,798	440	60	15.72	17.17	10.02	1.46*	9.28	15.72	16.25	0.53	3.37
1,799–5,551	450	50	11.26	12.80	5.28	1.53*	13.60	11.26	11.49	0.22	1.97
5,552 or more	450	50	7.49	8.41	3.88	0.92*	12.34	7.49	7.64	0.15	2.05
None or unknown	30	10	3.24	1.89	8.56	-1.36	-41.89	3.24	2.12	-1.13	-34.79
Female undergraduate enrollment ⁶						(Effect size=0.12)				(Effect size=0.06)	
1–795	380	80	62.41	59.08	75.44	-3.33*	-5.34	62.41	62.62	0.21	0.33
796–2,348	450	50	16.00	18.28	7.11	2.28*	14.22	16.00	16.54	0.54	3.36
2,349–7,067	440	60	10.81	12.29	5.03	1.48*	13.68	10.81	11.04	0.23	2.14
7,068 or more	450	50	7.53	8.46	3.86	0.94*	12.47	7.53	7.68	0.15	2.01
None or unknown	30	10	3.24	1.89	8.56	-1.36	-41.89	3.24	2.12	-1.13	-34.79

See notes at end of table.

Table J-1. Institution-level nonresponse bias analysis for selected variables for all institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Total graduate enrollment ⁶						(Effect size=0.05)				(Effect size=0.01)	
1–501	240	40	12.56	12.41	13.12	-0.14	-1.15	12.56	12.47	-0.09	-0.73
502–1,425	250	30	6.75	7.24	4.83	0.49	7.29	6.75	6.91	0.16	2.31
1,426–3,625	250	30	4.56	5.15	2.24	0.59*	13.00	4.56	4.68	0.12	2.56
3,626 or more	250	30	3.91	4.43	1.88	0.52*	13.30	3.91	3.99	0.08	2.17
None or unknown	770	120	72.22	70.76	77.93	-1.46	-2.02	72.22	71.96	-0.27	-0.37
Male graduate enrollment ⁶						(Effect size=0.04)				(Effect size=0.01)	
1–158	240	40	12.68	12.62	12.91	-0.06	-0.46	12.68	12.53	-0.15	-1.17
159–504	250	30	6.39	6.79	4.82	0.40	6.27	6.39	6.45	0.06	0.98
505–1,366	250	30	4.74	5.29	2.58	0.55*	11.66	4.74	4.97	0.23	4.95
1,367 or more	250	30	3.97	4.53	1.76	0.57*	14.26	3.97	4.08	0.12	2.95
None or unknown	770	120	72.22	70.76	77.93	-1.46	-2.02	72.22	71.96	-0.27	-0.37
Female graduate enrollment ⁶						(Effect size=0.05)				(Effect size=0.02)	
1–285	240	40	12.79	12.35	14.52	-0.44	-3.46	12.79	12.51	-0.28	-2.20
286–882	250	30	6.65	7.46	3.51	0.80*	12.08	6.65	7.02	0.37	5.58
883–2,153	250	30	4.40	4.99	2.09	0.59*	13.41	4.40	4.46	0.06	1.25
2,154 or more	250	30	3.94	4.45	1.94	0.51*	12.95	3.94	4.06	0.12	3.09
None or unknown	770	120	72.22	70.76	77.93	-1.46	-2.02	72.22	71.96	-0.27	-0.37
Number of bachelor's degrees awarded ⁶						(Effect size=0.09)				(Effect size=0.04)	
0–472	280	40	17.01	18.59	10.83	1.58	9.30	17.01	18.16	1.14	6.72
473–1,264	290	30	8.09	9.08	4.23	0.99*	12.21	8.09	8.38	0.29	3.62
1,265–3,341	300	30	5.36	6.11	2.45	0.75*	13.90	5.36	5.57	0.20	3.75
3,342 or more	300	30	4.47	5.16	1.75	0.70*	15.58	4.47	4.62	0.15	3.40
Unknown	580	110	65.07	61.06	80.74	-4.01*	-6.16	65.07	63.28	-1.79	-2.75

See notes at end of table.

Table J-1. Institution-level nonresponse bias analysis for selected variables for all institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁶						(Effect size=0.07)				(Effect size=0.07)	
1–67	400	80	23.95	21.86	32.09	-2.08	-8.70	23.95	22.71	-1.24	-5.18
68–83	430	50	21.97	22.86	18.46	0.90	4.08	21.97	23.25	1.28	5.84
84–95	420	50	25.06	27.23	16.59	2.17	8.65	25.06	27.03	1.97	7.87
96 or more	400	50	19.12	18.63	21.03	-0.49	-2.56	19.12	17.45	-1.66	-8.70
None or unknown	100	20	9.91	9.42	11.83	-0.49	-4.95	9.91	9.56	-0.35	-3.54
Number of first-time, full-time undergraduate students living on campus ⁶						(Effect size=0.07)				(Effect size=0.02)	
0–188	230	30	12.80	13.57	9.76	0.78	6.07	12.80	13.27	0.47	3.69
189–424	240	20	6.76	7.70	3.06	0.95*	14.00	6.76	7.13	0.37	5.50
425–819	230	30	4.49	5.03	2.37	0.54*	12.05	4.49	4.56	0.07	1.66
820 or more	240	20	3.66	4.25	1.36	0.59*	16.05	3.66	3.80	0.14	3.83
Unknown	810	140	72.30	69.45	83.44	-2.85*	-3.94	72.30	71.24	-1.06	-1.47
Average amount of grant and scholarship aid received ⁶						(Effect size=0.06)				(Effect size=0.03)	
\$0–\$4,744	380	80	33.90	33.07	37.17	-0.84	-2.47	33.90	33.75	-0.15	-0.46
\$4,745–\$6,192	420	50	28.85	27.61	33.71	-1.24	-4.31	28.85	28.17	-0.69	-2.38
\$6,193–\$11,968	420	50	15.24	16.31	11.09	1.06	6.97	15.24	15.84	0.60	3.91
\$11,969 or more	420	50	11.57	13.07	5.71	1.50*	12.96	11.57	12.25	0.67	5.80
Unknown	110	20	10.43	9.94	12.32	-0.48	-4.64	10.43	10.00	-0.43	-4.09

See notes at end of table.

Table J-1. Institution-level nonresponse bias analysis for selected variables for all institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁶						(Effect size=0.08)				(Effect size=0.03)	
0–47	400	80	49.60	46.63	61.17	-2.96§	-5.97	49.60	48.76	-0.84	-1.68
48–116	410	50	19.07	19.81	16.14	0.75	3.92	19.07	19.15	0.09	0.45
117–308	420	50	13.25	14.89	6.83	1.64*	12.39	13.25	14.09	0.84	6.37
309 or more	420	50	7.72	8.78	3.54	1.07*	13.86	7.72	8.00	0.28	3.63
Unknown	110	20	10.38	9.88	12.32	-0.50	-4.79	10.38	10.00	-0.37	-3.61

Rounds to zero.

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

* $p < 0.05$.§ $p < 0.05$ for difference between weighted respondent mean and weighted nonrespondent mean but not for estimated bias.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 calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Institution base weight, adjusted for nonresponse.⁴ 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).⁵ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.⁶ Categories were defined by quartiles.

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. "Base weight" refers to the institution sampling weight adjusted for field test sampling. Sample sizes rounded to the nearest 10 and, therefore, may not sum to total.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-2. Institution-level nonresponse bias analysis for selected variables for public less-than-2-year institutions: 2015–16

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Degree of urbanization						(Effect size=†)				(Effect size=†)	
Large city	†	†	†	†	†	†	†	†	†	†	†
Mid-size city	†	†	†	†	†	†	†	†	†	†	†
Small city	†	†	†	†	†	†	†	†	†	†	†
Large suburb	†	†	†	†	†	†	†	†	†	†	†
Mid-size 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 or remote from town	†	†	†	†	†	†	†	†	†	†	†
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ⁵						(Effect size=†)				(Effect size=†)	
New England	†	†	†	†	†	†	†	†	†	†	†
Mid East	†	†	†	†	†	†	†	†	†	†	†
Great Lakes	†	†	†	†	†	†	†	†	†	†	†
Plains	†	†	†	†	†	†	†	†	†	†	†
Southeast	†	†	†	†	†	†	†	†	†	†	†
Southwest	†	†	†	†	†	†	†	†	†	†	†
Rocky Mountains	†	†	†	†	†	†	†	†	†	†	†
Far West	†	†	†	†	†	†	†	†	†	†	†
Outlying areas	†	†	†	†	†	†	†	†	†	†	†
Hispanic Serving Institution						(Effect size=†)				(Effect size=†)	
Yes	†	†	†	†	†	†	†	†	†	†	†
No	†	†	†	†	†	†	†	†	†	†	†
Percentage of full-time, first-time degree/certificate-seeking students receiving federal grant aid ⁶						(Effect size=†)				(Effect size=†)	
1–52	†	†	†	†	†	†	†	†	†	†	†
53–69	†	†	†	†	†	†	†	†	†	†	†
70–86	†	†	†	†	†	†	†	†	†	†	†
87 or more	†	†	†	†	†	†	†	†	†	†	†
None or unknown	†	†	†	†	†	†	†	†	†	†	†

See notes at end of table.

**Table J-2. Institution-level nonresponse bias analysis for selected variables for public less-than-2-year institutions: 2015–16—
Continued**

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Percentage of full-time, first-time degree/certificate-seeking students receiving state or local grant aid ⁶						(Effect size=†)				(Effect size=†)	
1–8	†	†	†	†	†	†	†	†	†	†	†
9–24	†	†	†	†	†	†	†	†	†	†	†
25–55	†	†	†	†	†	†	†	†	†	†	†
56 or more	†	†	†	†	†	†	†	†	†	†	†
None or unknown	†	†	†	†	†	†	†	†	†	†	†
Percentage of full-time, first-time degree/certificate-seeking students receiving institutional grant aid ⁶						(Effect size=†)				(Effect size=†)	
1–4	†	†	†	†	†	†	†	†	†	†	†
5–22	†	†	†	†	†	†	†	†	†	†	†
23 or more	†	†	†	†	†	†	†	†	†	†	†
None or unknown	†	†	†	†	†	†	†	†	†	†	†
Percentage of full-time, first-time degree/certificate-seeking students receiving student loan aid ⁶						(Effect size=†)				(Effect size=†)	
1–57	†	†	†	†	†	†	†	†	†	†	†
58 or more	†	†	†	†	†	†	†	†	†	†	†
None or unknown	†	†	†	†	†	†	†	†	†	†	†
Average net price among full-time, first-time degree/certificate-seeking students receiving grant or scholarship aid ⁶						(Effect size=†)				(Effect size=†)	
\$1–\$3,498	†	†	†	†	†	†	†	†	†	†	†
\$3,499–\$7,430	†	†	†	†	†	†	†	†	†	†	†
\$7,431–\$10,807	†	†	†	†	†	†	†	†	†	†	†
\$10,808 or more	†	†	†	†	†	†	†	†	†	†	†
None or unknown	†	†	†	†	†	†	†	†	†	†	†
Percentage of students enrolled who were Black, non-Hispanic ⁶						(Effect size=†)				(Effect size=†)	
0–3	†	†	†	†	†	†	†	†	†	†	†
4–5	†	†	†	†	†	†	†	†	†	†	†
6–13	†	†	†	†	†	†	†	†	†	†	†
14 or more	†	†	†	†	†	†	†	†	†	†	†

See notes at end of table.

Table J-2. Institution-level nonresponse bias analysis for selected variables for public less-than-2-year institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Percentage of students enrolled who were Asian or Pacific Islander, non-Hispanic ⁶						(Effect size=†)				(Effect size=†)	
0	†	†	†	†	†	†	†	†	†	†	†
1	†	†	†	†	†	†	†	†	†	†	†
2	†	†	†	†	†	†	†	†	†	†	†
3 or more	†	†	†	†	†	†	†	†	†	†	†
Percentage of students enrolled who were Hispanic ⁶						(Effect size=†)				(Effect size=†)	
0–2	†	†	†	†	†	†	†	†	†	†	†
3–5	†	†	†	†	†	†	†	†	†	†	†
6–9	†	†	†	†	†	†	†	†	†	†	†
10 or more	†	†	†	†	†	†	†	†	†	†	†
Total undergraduate enrollment ⁶						(Effect size=†)				(Effect size=†)	
1–292	†	†	†	†	†	†	†	†	†	†	†
293–734	†	†	†	†	†	†	†	†	†	†	†
735–1,035	†	†	†	†	†	†	†	†	†	†	†
1,036 or more	†	†	†	†	†	†	†	†	†	†	†
Male undergraduate enrollment ⁶						(Effect size=†)				(Effect size=†)	
1–118	†	†	†	†	†	†	†	†	†	†	†
119–256	†	†	†	†	†	†	†	†	†	†	†
257–691	†	†	†	†	†	†	†	†	†	†	†
692 or more	†	†	†	†	†	†	†	†	†	†	†
Female undergraduate enrollment ⁶						(Effect size=†)				(Effect size=†)	
1–167	†	†	†	†	†	†	†	†	†	†	†
168–302	†	†	†	†	†	†	†	†	†	†	†
303–552	†	†	†	†	†	†	†	†	†	†	†
553 or more	†	†	†	†	†	†	†	†	†	†	†

See notes at end of table.

**Table J-2. Institution-level nonresponse bias analysis for selected variables for public less-than-2-year institutions: 2015–16—
Continued**

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents	Unweighted non- respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non- respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁶						(Effect size=†)				(Effect size=†)	
1–60	†	†	†	†	†	†	†	†	†	†	†
61–82	†	†	†	†	†	†	†	†	†	†	†
83–91	†	†	†	†	†	†	†	†	†	†	†
92 or more	†	†	†	†	†	†	†	†	†	†	†
None or unknown	†	†	†	†	†	†	†	†	†	†	†
Number of first-time, full-time undergraduate students living on campus ⁶						(Effect size=†)				(Effect size=†)	
0–85	†	†	†	†	†	†	†	†	†	†	†
Unknown	†	†	†	†	†	†	†	†	†	†	†
Average amount of grant and scholarship aid received ⁶						(Effect size=†)				(Effect size=†)	
\$0–\$3,601	†	†	†	†	†	†	†	†	†	†	†
\$3,602–\$4,071	†	†	†	†	†	†	†	†	†	†	†
\$4,072–\$5,407	†	†	†	†	†	†	†	†	†	†	†
\$5,408 or more	†	†	†	†	†	†	†	†	†	†	†
Unknown	†	†	†	†	†	†	†	†	†	†	†

See notes at end of table.

Table J-2. Institution-level nonresponse bias analysis for selected variables for public less-than-2-year institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁶						(Effect size=‡)				(Effect size=‡)	
0–6	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
7–22	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
23–40	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
41 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

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

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

³ Institution base weight, adjusted for nonresponse.

⁴ 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).

⁵ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.

⁶ Categories were defined by quartiles.

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. "Base weight" refers to the institution sampling weight adjusted for field test sampling. Sample sizes rounded to the nearest 10 and, therefore, may not sum to total.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-3. Institution-level nonresponse bias analysis for selected variables for public 2-year institutions: 2015–16

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Degree of urbanization						(Effect size=‡)				(Effect size=‡)	
Large city	70	10	8.24	9.23	3.61	0.99§	12.04	8.24	8.47	0.23	2.79
Mid-size city	50	10	7.37	8.05	4.22	0.68	9.16	7.37	7.56	0.18	2.46
Small city	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Large suburb	70	20	12.43	11.91	14.90	-0.53	-4.24	12.43	12.02	-0.41	-3.30
Mid-size suburb	20	10	4.17	4.25	3.78	0.08	1.99	4.17	5.02	0.85	20.37
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 or remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ⁵						(Effect size=‡)				(Effect size=‡)	
New England	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Mid East	40	10	8.68	9.67	4.04	0.99	11.44	8.68	9.76	1.08	12.43
Great Lakes	50	10	9.90	10.71	6.14	0.81	8.13	9.90	10.11	0.21	2.14
Plains	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southeast	60	10	31.08	22.99	68.87	-8.09§	-26.03	31.08	22.02	-9.06*	-29.14
Southwest	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	80	20	13.39	13.79	11.49	0.41	3.03	13.39	13.53	0.14	1.05
Outlying areas	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Historically Black College or University						(Effect size=‡)				(Effect size=‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
No or Unavailable or unknown	330	50	99.62	99.54	100.00	-0.08	-0.08	99.62	99.60	-0.02	-0.02
Hispanic Serving Institution						(Effect size=0.12)				(Effect size=0.14)	
Yes	100	20	23.03	17.97	46.68	-5.06	-21.99	23.03	17.31	-5.72	-24.84
No	230	30	76.97	82.03	53.32	5.06	6.58	76.97	82.69	5.72	7.43

See notes at end of table.

Table J-3. Institution-level nonresponse bias analysis for selected variables for public 2-year institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Percentage of full-time, first-time degree/certificate-seeking students receiving federal grant aid ⁶						(Effect size=‡)				(Effect size=‡)	
1–46	80	20	23.54	22.14	30.07	-1.40	-5.95	23.54	21.69	-1.85	-7.86
47–55	90	10	21.77	24.89	7.20	3.12§	14.33	21.77	23.35	1.58	7.26
56–64	80	10	25.15	27.45	14.40	2.30	9.15	25.15	30.48	5.33	21.19
65 or more	80	10	29.18	25.08	48.33	-4.10	-14.05	29.18	23.98	-5.19	-17.80
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking students receiving state or local grant aid ⁶						(Effect size=‡)				(Effect size=‡)	
1–18	80	10	29.83	29.93	29.36	0.10	0.34	29.83	33.11	3.28	11.00
19–32	80	20	25.16	21.30	43.20	-3.86	-15.35	25.16	21.00	-4.17	-16.56
33–58	80	10	25.60	26.85	19.80	1.24	4.86	25.60	25.50	-0.11	-0.42
59 or more	80	10	16.36	18.33	7.13	1.97§	12.07	16.36	17.19	0.83	5.07
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking students receiving institutional grant aid ⁶						(Effect size=0.15)				(Effect size=0.17)	
1–2	40	10	9.57	6.55	23.66	-3.02	-31.55	9.57	6.34	-3.23	-33.72
3–7	80	10	14.64	16.54	5.77	1.90§	12.97	14.64	15.68	1.04	7.09
8–18	70	10	22.20	18.40	39.97	-3.80	-17.13	22.20	17.64	-4.56	-20.54
19 or more	90	10	43.38	47.22	25.45	3.84	8.85	43.38	49.79	6.41	14.77
None or unknown	60	10	10.21	11.29	5.14	1.08	10.62	10.21	10.55	0.34	3.35
Percentage of full-time, first-time degree/certificate-seeking students receiving student loan aid ⁶						(Effect size=0.20)				(Effect size=0.12)	
1–3	50	10	9.58	9.91	8.05	0.33	3.42	9.58	9.73	0.15	1.60
4–17	80	10	17.81	20.29	6.22	2.48§	13.94	17.81	19.39	1.57	8.84
18–34	80	10	23.88	27.14	8.67	3.26§	13.64	23.88	26.55	2.67	11.18
35 or more	80	10	24.43	26.97	12.54	2.54	10.42	24.43	24.97	0.54	2.22
None or unknown	30	10	24.30	15.69	64.52	-8.61§	-35.44	24.30	19.36	-4.94	-20.33

See notes at end of table.

Table J-3. Institution-level nonresponse bias analysis for selected variables for public 2-year institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Average net price among full-time, first-time degree/certificate-seeking students receiving grant or scholarship aid ⁶						(Effect size=‡)				(Effect size=‡)	
\$1–\$5,931	80	20	21.51	17.55	40.01	-3.96	-18.42	21.51	16.54	-4.97	-23.13
\$5,932–\$7,171	80	10	20.27	22.16	11.44	1.89	9.33	20.27	22.07	1.80	8.88
\$7,172–\$8,586	90	10	26.13	27.30	20.67	1.17	4.47	26.13	26.47	0.34	1.32
\$8,587 or more	80	10	31.72	32.55	27.88	0.82	2.59	31.72	34.42	2.70	8.51
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of students enrolled who were Black, non-Hispanic ⁶						(Effect size=‡)				(Effect size=‡)	
0–4	100	10	26.40	29.37	12.56	2.96§	11.22	26.40	28.22	1.81	6.87
5–8	70	10	21.25	22.77	14.15	1.52	7.15	21.25	22.10	0.85	4.02
9–17	80	10	21.60	15.87	48.38	-5.73	-26.54	21.60	14.64	-6.96	-32.21
18 or more	80	10	30.38	31.55	24.90	1.17	3.86	30.38	34.53	4.16	13.69
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of students enrolled who were Asian or Pacific Islander, non-Hispanic ⁶						(Effect size=‡)				(Effect size=‡)	
0–2	130	20	56.12	53.34	69.12	-2.78	-4.96	56.12	50.27	-5.85	-10.43
3	40	10	14.58	15.23	11.54	0.65	4.46	14.58	18.69	4.11	28.20
4–7	80	10	13.87	14.29	11.87	0.43	3.08	13.87	13.50	-0.37	-2.64
8 or more	70	10	15.06	16.69	7.47	1.63	10.80	15.06	17.04	1.97	13.11
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of students enrolled who were Hispanic ⁶						(Effect size=‡)				(Effect size=‡)	
0–6	90	10	35.66	35.09	38.35	-0.57	-1.61	35.66	33.42	-2.24	-6.29
7–14	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
15–32	90	10	22.99	25.18	12.76	2.19	9.53	22.99	24.92	1.93	8.41
33 or more	70	20	17.33	12.38	40.45	-4.95	-28.57	17.33	12.02	-5.30	-30.61
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁶						(Effect size=0.05)				(Effect size=0.02)	
1–8,053	80	10	63.32	60.94	74.43	-2.38	-3.76	63.32	62.78	-0.53	-0.84
8,054–13,926	80	10	17.34	18.55	11.67	1.21	6.99	17.34	17.39	0.05	0.30
13,927–23,795	80	10	10.86	11.54	7.69	0.68	6.26	10.86	11.34	0.48	4.41
23,796 or more	80	10	8.49	8.97	6.21	0.49	5.75	8.49	8.49	#	0.01

See notes at end of table.

Table J-3. Institution-level nonresponse bias analysis for selected variables for public 2-year institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Male undergraduate enrollment ⁶						(Effect size=0.06)				(Effect size=0.02)	
1–3,271	80	10	63.12	60.42	75.75	-2.70	-4.29	63.12	62.32	-0.80	-1.27
3,272–6,162	80	10	17.25	18.94	9.38	1.69	9.78	17.25	17.83	0.57	3.31
6,163–10,660	80	10	11.06	11.46	9.18	0.40	3.63	11.06	11.10	0.04	0.38
10,661 or more	80	10	8.56	9.18	5.69	0.62	7.20	8.56	8.75	0.18	2.16
Female undergraduate enrollment ⁶						(Effect size=0.05)				(Effect size=0.01)	
1–4,705	80	10	62.97	60.51	74.43	-2.45	-3.90	62.97	62.40	-0.57	-0.90
4,706–7,675	80	10	17.54	19.01	10.66	1.47	8.39	17.54	17.96	0.42	2.41
7,676–13,227	80	10	11.01	11.29	9.73	0.27	2.49	11.01	10.93	-0.08	-0.71
13,228 or more	80	10	8.49	9.20	5.18	0.71	8.35	8.49	8.71	0.22	2.63
Number of bachelor's degrees awarded ⁶						(Effect size=‡)				(Effect size=‡)	
0	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
1–36	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	330	50	99.54	99.44	100.00	-0.10	-0.10	99.54	99.47	-0.07	-0.07
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁶						(Effect size=‡)				(Effect size=‡)	
1–59	80	20	16.89	14.55	27.78	-2.33	-13.82	16.89	13.71	-3.18	-18.82
60–70	80	10	16.83	19.28	5.35	2.46§	14.61	16.83	18.44	1.62	9.62
71–81	80	10	24.30	22.94	30.65	-1.36	-5.59	24.30	22.28	-2.02	-8.32
82 or more	80	10	41.62	42.78	36.22	1.16	2.78	41.62	45.07	3.45	8.29
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students living on campus ⁶						(Effect size=‡)				(Effect size=‡)	
0–34	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
35–97	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
98–182	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
183 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	270	40	73.13	68.73	93.68	-4.40*	-6.02	73.13	70.64	-2.50	-3.41

See notes at end of table.

Table J-3. Institution-level nonresponse bias analysis for selected variables for public 2-year institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Average amount of grant and scholarship aid received ⁶						(Effect size=‡)				(Effect size=‡)	
\$0–\$4,382	90	10	30.19	30.39	29.26	0.20	0.67	30.19	32.43	2.23	7.40
\$4,383–\$4,761	80	20	17.04	17.59	14.47	0.55	3.22	17.04	16.35	-0.69	-4.03
\$4,762–\$5,147	80	10	24.52	21.45	38.86	-3.07	-12.53	24.52	21.01	-3.52	-14.34
\$5,148 or more	90	10	27.88	30.12	17.40	2.24	8.04	27.88	29.72	1.84	6.59
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁶						(Effect size=‡)				(Effect size=‡)	
0–148	80	20	56.39	51.81	77.80	-4.58§	-8.13	56.39	54.05	-2.34	-4.15
149–277	90	10	19.86	22.93	5.53	3.07*	15.45	19.86	21.78	1.92	9.66
278–505	80	20	12.89	13.07	12.04	0.18	1.41	12.89	12.55	-0.34	-2.67
506 or more	90	10	10.48	11.74	4.63	1.25§	11.95	10.48	11.12	0.63	6.05
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

Rounds to zero.

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

* $p < 0.05$.§ $p < 0.05$ for difference between weighted respondent mean and weighted nonrespondent mean but not for estimated bias.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 calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Institution base weight, adjusted for nonresponse.⁴ 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).⁵ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.⁶ Categories were defined by quartiles.

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. "Base weight" refers to the institution sampling weight adjusted for field test sampling. Sample sizes rounded to the nearest 10 and, therefore, may not sum to total.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-4. Institution-level nonresponse bias analysis for selected variables for public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2015–16

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
2015 Carnegie Basic classification code						(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	†	†	†	†	†	†	†	†	†	†	†
Mid-size city	†	†	†	†	†	†	†	†	†	†	†
Small city	†	†	†	†	†	†	†	†	†	†	†
Large suburb	†	†	†	†	†	†	†	†	†	†	†
Mid-size 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 or remote from town	†	†	†	†	†	†	†	†	†	†	†
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ⁵						(Effect size=†)				(Effect size=†)	
New England	†	†	†	†	†	†	†	†	†	†	†
Mid East	†	†	†	†	†	†	†	†	†	†	†
Great Lakes	†	†	†	†	†	†	†	†	†	†	†
Plains	†	†	†	†	†	†	†	†	†	†	†
Southeast	†	†	†	†	†	†	†	†	†	†	†
Southwest	†	†	†	†	†	†	†	†	†	†	†
Rocky Mountains	†	†	†	†	†	†	†	†	†	†	†
Far West	†	†	†	†	†	†	†	†	†	†	†
Outlying areas	†	†	†	†	†	†	†	†	†	†	†

See notes at end of table.

Table J-4. Institution-level nonresponse bias analysis for selected variables for public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Hispanic Serving Institution						(Effect size=‡)				(Effect size=‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
No	50	10	85.70	84.45	100.00	-1.25§	-1.45	85.70	83.94	-1.76	-2.06
Percentage of full-time, first-time degree/certificate-seeking students receiving federal grant aid ⁶						(Effect size=‡)				(Effect size=‡)	
1–44	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
45–56	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
57–64	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
65 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking students receiving state or local grant aid ⁶						(Effect size=‡)				(Effect size=‡)	
1–14	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
15–29	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
30–44	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
45 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking students receiving institutional grant aid ⁶						(Effect size=‡)				(Effect size=‡)	
1–12	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
13–21	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
22–38	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
39 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking students receiving student loan aid ⁶						(Effect size=‡)				(Effect size=‡)	
1–13	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
14–26	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
27–59	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
60 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-4. Institution-level nonresponse bias analysis for selected variables for public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Average net price among full-time, first-time degree/certificate-seeking students receiving grant or scholarship aid ⁶						(Effect size=†)				(Effect size=†)	
\$1–\$6,842	†	†	†	†	†	†	†	†	†	†	†
\$6,843–\$8,622	†	†	†	†	†	†	†	†	†	†	†
\$8,623–\$10,622	†	†	†	†	†	†	†	†	†	†	†
\$10,623 or more	†	†	†	†	†	†	†	†	†	†	†
Percentage of students enrolled who were Black, non-Hispanic ⁶						(Effect size=†)				(Effect size=†)	
0–3	†	†	†	†	†	†	†	†	†	†	†
4–7	†	†	†	†	†	†	†	†	†	†	†
8–14	†	†	†	†	†	†	†	†	†	†	†
15 or more	†	†	†	†	†	†	†	†	†	†	†
Percentage of students enrolled who were Asian or Pacific Islander, non-Hispanic ⁶						(Effect size=†)				(Effect size=†)	
0–1	†	†	†	†	†	†	†	†	†	†	†
2	†	†	†	†	†	†	†	†	†	†	†
3	†	†	†	†	†	†	†	†	†	†	†
4 or more	†	†	†	†	†	†	†	†	†	†	†
Percentage of students enrolled who were Hispanic ⁶						(Effect size=†)				(Effect size=†)	
0–3	†	†	†	†	†	†	†	†	†	†	†
4–8	†	†	†	†	†	†	†	†	†	†	†
9–18	†	†	†	†	†	†	†	†	†	†	†
19 or more	†	†	†	†	†	†	†	†	†	†	†
Total undergraduate enrollment ⁶						(Effect size=†)				(Effect size=†)	
1–3,722	†	†	†	†	†	†	†	†	†	†	†
3,723–7,149	†	†	†	†	†	†	†	†	†	†	†
7,150–19,774	†	†	†	†	†	†	†	†	†	†	†
19,775 or more	†	†	†	†	†	†	†	†	†	†	†

See notes at end of table.

Table J-4. Institution-level nonresponse bias analysis for selected variables for public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Male undergraduate enrollment ⁶						(Effect size=‡)				(Effect size=‡)	
1–1,547	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
1,548–3,228	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
3,229–8,084	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
8,085 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Female undergraduate enrollment ⁶						(Effect size=‡)				(Effect size=‡)	
1–2,255	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
2,256–4,416	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
4,417–10,517	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
10,518 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total graduate enrollment ⁶						(Effect size=‡)				(Effect size=‡)	
1–14	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
15–38	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
39–79	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
80 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	50	10	79.34	78.60	87.91	-0.75	-0.94	79.34	78.20	-1.14	-1.44
Male graduate enrollment ⁶						(Effect size=‡)				(Effect size=‡)	
1–3	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
4–7	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
8–31	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
32 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	50	10	79.34	78.60	87.91	-0.75	-0.94	79.34	78.20	-1.14	-1.44
Female graduate enrollment ⁶						(Effect size=‡)				(Effect size=‡)	
1–9	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
10–31	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
32–55	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
56 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	50	10	79.34	78.60	87.91	-0.75	-0.94	79.34	78.20	-1.14	-1.44

See notes at end of table.

Table J-4. Institution-level nonresponse bias analysis for selected variables for public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Number of bachelor's degrees awarded ⁶						(Effect size=†)				(Effect size=†)	
0–90	†	†	†	†	†	†	†	†	†	†	†
91–230	†	†	†	†	†	†	†	†	†	†	†
231–594	†	†	†	†	†	†	†	†	†	†	†
595 or more	†	†	†	†	†	†	†	†	†	†	†
Unknown	†	†	†	†	†	†	†	†	†	†	†
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁶						(Effect size=†)				(Effect size=†)	
1–63	†	†	†	†	†	†	†	†	†	†	†
64–73	†	†	†	†	†	†	†	†	†	†	†
74–82	†	†	†	†	†	†	†	†	†	†	†
83 or more	†	†	†	†	†	†	†	†	†	†	†
Number of first-time, full-time undergraduate students living on campus ⁶						(Effect size=†)				(Effect size=†)	
0–59	†	†	†	†	†	†	†	†	†	†	†
60–193	†	†	†	†	†	†	†	†	†	†	†
194–424	†	†	†	†	†	†	†	†	†	†	†
425 or more	†	†	†	†	†	†	†	†	†	†	†
Unknown	†	†	†	†	†	†	†	†	†	†	†
Average amount of grant and scholarship aid received ⁶						(Effect size=†)				(Effect size=†)	
\$0–\$4,381	†	†	†	†	†	†	†	†	†	†	†
\$4,382–\$4,960	†	†	†	†	†	†	†	†	†	†	†
\$4,961–\$5,727	†	†	†	†	†	†	†	†	†	†	†
\$5,728 or more	†	†	†	†	†	†	†	†	†	†	†

See notes at end of table.

Table J-4. Institution-level nonresponse bias analysis for selected variables for public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁶						(Effect size=‡)				(Effect size=‡)	
0–94	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
95–234	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
235–398	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
399 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

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

§ $p < 0.05$ for difference between weighted respondent mean and weighted nonrespondent mean but not for estimated bias.

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

³ Institution base weight, adjusted for nonresponse.

⁴ 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).

⁵ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.

⁶ Categories were defined by quartiles.

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. “Base weight” refers to the institution sampling weight adjusted for field test sampling. Sample sizes rounded to the nearest 10 and, therefore, may not sum to total.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-5. Institution-level nonresponse bias analysis for selected variables for public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2015–16

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
2015 Carnegie Basic classification code						(Effect size=†)				(Effect size=†)	
Associate's	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Research and doctoral	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Master's	60	10	49.51	53.33	35.54	3.82	7.71	49.51	52.81	3.30	6.68
Baccalaureate	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Special focus and other	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unavailable or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Degree of urbanization						(Effect size=†)				(Effect size=†)	
Large city	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Mid-size city	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Small city	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Large suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Mid-size 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 or remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ⁵						(Effect size=†)				(Effect size=†)	
New England	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Mid East	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Great Lakes	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Plains	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southeast	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southwest	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Outlying areas	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-5. Institution-level nonresponse bias analysis for selected variables for public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Historically Black College or University						(Effect size=‡)				(Effect size=‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
No or Unavailable or unknown	80	10	94.02	96.52	84.86	2.50	2.66	94.02	96.58	2.57	2.73
Hispanic Serving Institution						(Effect size=‡)				(Effect size=‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
No	70	10	87.49	84.61	98.02	-2.88§	-3.29	87.49	84.90	-2.59	-2.96
Percentage of full-time, first-time degree/certificate-seeking students receiving federal grant aid ⁶						(Effect size=‡)				(Effect size=‡)	
1–34	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
35–41	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
42–52	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
53 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking students receiving state or local grant aid ⁶						(Effect size=‡)				(Effect size=‡)	
1–32	20	10	35.82	19.94	93.88	-15.87§	-44.32	35.82	20.84	-14.97	-41.81
33–49	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
50–63	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
64 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking students receiving institutional grant aid ⁶						(Effect size=‡)				(Effect size=‡)	
1–34	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
35–47	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
48–63	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
64 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-5. Institution-level nonresponse bias analysis for selected variables for public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Percentage of full-time, first-time degree/certificate-seeking students receiving student loan aid ⁶						(Effect size=†)				(Effect size=†)	
1–40	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
41–55	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
56–67	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
68 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Average net price among full-time, first-time degree/certificate-seeking students receiving grant or scholarship aid ⁶						(Effect size=†)				(Effect size=†)	
\$1–\$9,053	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$9,054–\$12,833	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$12,834–\$15,313	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$15,314 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of students enrolled who were Black, non-Hispanic ⁶						(Effect size=†)				(Effect size=†)	
0–3	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
4–6	20	10	35.86	23.55	80.91	-12.31§	-34.34	35.86	23.73	-12.14	-33.84
7–10	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
11 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of students enrolled who were Asian or Pacific Islander, non-Hispanic ⁶						(Effect size=†)				(Effect size=†)	
0–1	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
2–3	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
4–5	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
6 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of students enrolled who were Hispanic ⁶						(Effect size=†)				(Effect size=†)	
0–5	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
6–9	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
10–17	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
18 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

Table J-5. Institution-level nonresponse bias analysis for selected variables for public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
See notes at end of table.											
Total undergraduate enrollment ⁶						(Effect size=†)				(Effect size=†)	
1–5,169	†	†	†	†	†	†	†	†	†	†	†
5,170–7,471	†	†	†	†	†	†	†	†	†	†	†
7,472–12,353	†	†	†	†	†	†	†	†	†	†	†
12,354 or more	†	†	†	†	†	†	†	†	†	†	†
Male undergraduate enrollment ⁶						(Effect size=†)				(Effect size=†)	
1–2,235	†	†	†	†	†	†	†	†	†	†	†
2,236–3,017	†	†	†	†	†	†	†	†	†	†	†
3,018–5,384	†	†	†	†	†	†	†	†	†	†	†
5,385 or more	†	†	†	†	†	†	†	†	†	†	†
Female undergraduate enrollment ⁶						(Effect size=†)				(Effect size=†)	
1–2,934	†	†	†	†	†	†	†	†	†	†	†
2,935–4,323	†	†	†	†	†	†	†	†	†	†	†
4,324–7,024	†	†	†	†	†	†	†	†	†	†	†
7,025 or more	†	†	†	†	†	†	†	†	†	†	†
Total graduate enrollment ⁶						(Effect size=†)				(Effect size=†)	
1–435	†	†	†	†	†	†	†	†	†	†	†
436–1,138	†	†	†	†	†	†	†	†	†	†	†
1,139–2,217	†	†	†	†	†	†	†	†	†	†	†
2,218 or more	†	†	†	†	†	†	†	†	†	†	†
None or unknown	†	†	†	†	†	†	†	†	†	†	†
Male graduate enrollment ⁶						(Effect size=†)				(Effect size=†)	
1–128	†	†	†	†	†	†	†	†	†	†	†
129–366	†	†	†	†	†	†	†	†	†	†	†
367–645	†	†	†	†	†	†	†	†	†	†	†
646 or more	†	†	†	†	†	†	†	†	†	†	†
None or unknown	†	†	†	†	†	†	†	†	†	†	†

See notes at end of table.

Table J-5. Institution-level nonresponse bias analysis for selected variables for public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Female graduate enrollment ⁶						(Effect size=†)				(Effect size=†)	
1–292	†	†	†	†	†	†	†	†	†	†	†
293–716	†	†	†	†	†	†	†	†	†	†	†
717–1,534	†	†	†	†	†	†	†	†	†	†	†
1,535 or more	†	†	†	†	†	†	†	†	†	†	†
None or unknown	†	†	†	†	†	†	†	†	†	†	†
Number of bachelor's degrees awarded ⁶						(Effect size=†)				(Effect size=†)	
0–1,590	†	†	†	†	†	†	†	†	†	†	†
1,591–2,608	†	†	†	†	†	†	†	†	†	†	†
2,609–3,970	†	†	†	†	†	†	†	†	†	†	†
3,971 or more	†	†	†	†	†	†	†	†	†	†	†
Unknown	†	†	†	†	†	†	†	†	†	†	†
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁶						(Effect size=†)				(Effect size=†)	
1–66	†	†	†	†	†	†	†	†	†	†	†
67–77	†	†	†	†	†	†	†	†	†	†	†
78–87	†	†	†	†	†	†	†	†	†	†	†
88 or more	†	†	†	†	†	†	†	†	†	†	†
None or unknown	†	†	†	†	†	†	†	†	†	†	†
Number of first-time, full-time undergraduate students living on campus ⁶						(Effect size=†)				(Effect size=†)	
0–237	†	†	†	†	†	†	†	†	†	†	†
238–482	†	†	†	†	†	†	†	†	†	†	†
483–710	†	†	†	†	†	†	†	†	†	†	†
711 or more	†	†	†	†	†	†	†	†	†	†	†
Unknown	†	†	†	†	†	†	†	†	†	†	†

See notes at end of table.

Table J-5. Institution-level nonresponse bias analysis for selected variables for public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Average amount of grant and scholarship aid received ⁶						(Effect size=‡)				(Effect size=‡)	
\$0–\$5,547	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$5,548–\$6,971	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$6,972–\$7,744	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$7,745 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁶						(Effect size=‡)				(Effect size=‡)	
0–107	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
108–193	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
194–321	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
322 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

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

§ $p < 0.05$ for difference between weighted respondent mean and weighted nonrespondent mean but not for estimated bias.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 calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Institution base weight, adjusted for nonresponse.⁴ 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).⁵ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.⁶ Categories were defined by quartiles.

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. "Base weight" refers to the institution sampling weight adjusted for field test sampling. Sample sizes rounded to the nearest 10 and, therefore, may not sum to total.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-6. Institution-level nonresponse bias analysis for selected variables for public 4-year, doctorate-granting institutions: 2015–16

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
2015 Carnegie Basic classification code						(Effect size=‡)				(Effect size=‡)	
Associate's	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Research and doctoral	160	20	48.50	47.97	55.02	-0.53	-1.09	48.50	47.97	-0.53	-1.10
Master's	130	10	39.17	39.59	33.98	0.42	1.08	39.17	38.20	-0.96	-2.46
Baccalaureate	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Special focus and other	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unavailable or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Degree of urbanization						(Effect size=‡)				(Effect size=‡)	
Large city	80	10	23.97	23.24	33.01	-0.73	-3.06	23.97	23.03	-0.94	-3.93
Mid-size city	60	10	18.74	18.77	18.34	0.03	0.17	18.74	18.78	0.04	0.21
Small city	70	10	19.57	19.37	22.01	-0.20	-1.01	19.57	19.09	-0.48	-2.45
Large suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Mid-size 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 or remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ⁵						(Effect size=‡)				(Effect size=‡)	
New England	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Mid East	50	10	14.37	14.05	18.34	-0.32	-2.24	14.37	14.72	0.35	2.42
Great Lakes	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Plains	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southeast	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southwest	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Outlying areas	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-6. Institution-level nonresponse bias analysis for selected variables for public 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Historically Black College or University						(Effect size=‡)				(Effect size=‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
No or Unavailable or unknown	310	30	93.66	93.74	92.66	0.08	0.09	93.66	93.70	0.04	0.04
Hispanic Serving Institution						(Effect size=‡)				(Effect size=‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
No	300	20	88.15	88.38	85.33	0.23	0.26	88.15	88.61	0.46	0.52
Percentage of full-time, first-time degree/certificate-seeking students receiving federal grant aid ⁶						(Effect size=‡)				(Effect size=‡)	
1–28	80	10	25.00	24.64	29.34	-0.35	-1.41	25.00	24.85	-0.15	-0.59
29–39	80	10	24.09	24.48	19.30	0.39	1.61	24.09	24.53	0.44	1.81
40–49	60	10	19.01	18.77	22.01	-0.24	-1.28	19.01	18.16	-0.86	-4.51
50 or more	80	10	22.79	22.86	22.01	0.06	0.28	22.79	22.13	-0.66	-2.89
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking students receiving state or local grant aid ⁶						(Effect size=‡)				(Effect size=‡)	
1–21	80	10	23.61	23.07	30.31	-0.54	-2.30	23.61	23.37	-0.24	-1.01
22–36	70	10	21.49	21.75	18.34	0.26	1.19	21.49	21.82	0.33	1.52
37–58	80	10	23.74	23.59	25.68	-0.16	-0.66	23.74	23.12	-0.63	-2.64
59 or more	70	10	21.49	21.75	18.34	0.26	1.19	21.49	20.81	-0.68	-3.18
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking students receiving institutional grant aid ⁶						(Effect size=‡)				(Effect size=‡)	
1–37	70	10	22.35	21.78	29.34	-0.57	-2.54	22.35	21.44	-0.91	-4.08
38–52	80	10	23.44	23.55	22.01	0.12	0.50	23.44	23.11	-0.32	-1.38
53–64	70	10	21.84	21.45	26.64	-0.39	-1.78	21.84	21.14	-0.71	-3.23
65 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-6. Institution-level nonresponse bias analysis for selected variables for public 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Percentage of full-time, first-time degree/certificate-seeking students receiving student loan aid ⁶						(Effect size=‡)				(Effect size=‡)	
1–43	80	10	24.37	23.37	36.68	-1.00	-4.11	24.37	23.02	-1.35	-5.52
44–54	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
55–66	80	10	22.67	22.94	19.30	0.27	1.21	22.67	22.60	-0.07	-0.32
67 or more	70	10	22.09	22.10	22.01	0.01	0.03	22.09	21.97	-0.12	-0.56
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Average net price among full-time, first-time degree/certificate-seeking students receiving grant or scholarship aid ⁶						(Effect size=‡)				(Effect size=‡)	
\$1–\$11,388	70	10	22.79	21.66	36.68	-1.13	-4.95	22.79	20.93	-1.86*	-8.18
\$11,389–\$13,472	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$13,473–\$15,708	80	10	22.60	22.64	22.01	0.05	0.21	22.60	22.03	-0.57	-2.51
\$15,709 or more	80	10	22.64	22.99	18.34	0.35	1.54	22.64	23.07	0.43	1.90
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of students enrolled who were Black, non-Hispanic ⁶						(Effect size=‡)				(Effect size=‡)	
0–4	110	10	33.62	32.70	44.98	-0.92	-2.74	33.62	34.01	0.38	1.14
5–7	70	10	19.57	19.37	22.01	-0.20	-1.01	19.57	19.41	-0.16	-0.80
8–14	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
15 or more	80	10	24.17	24.64	18.34	0.47	1.96	24.17	24.06	-0.11	-0.45
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of students enrolled who were Asian or Pacific Islander, non-Hispanic ⁶						(Effect size=‡)				(Effect size=‡)	
0–2	130	10	39.63	39.49	41.31	-0.14	-0.35	39.63	39.20	-0.42	-1.06
3	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
4–8	90	10	27.02	27.13	25.68	0.11	0.40	27.02	27.11	0.10	0.35
9 or more	70	10	21.22	20.56	29.34	-0.66	-3.11	21.22	20.90	-0.32	-1.51
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-6. Institution-level nonresponse bias analysis for selected variables for public 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Percentage of students enrolled who were Hispanic ⁶						(Effect size=‡)				(Effect size=‡)	
0–4	130	10	37.15	38.38	22.01	1.23	3.31	37.15	38.76	1.61*	4.33
5–6	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
7–14	70	10	21.70	20.49	36.68	-1.22	-5.61	21.70	20.76	-0.95	-4.35
15 or more	80	10	24.53	24.43	25.68	-0.09	-0.38	24.53	23.81	-0.72	-2.92
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁶						(Effect size=‡)				(Effect size=‡)	
1–7,423	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
7,424–13,538	80	10	24.81	24.45	29.34	-0.37	-1.48	24.81	23.87	-0.95	-3.82
13,539–22,148	80	10	24.80	24.73	25.68	-0.07	-0.29	24.80	24.61	-0.19	-0.76
22,149 or more	80	10	24.80	24.73	25.68	-0.07	-0.29	24.80	24.31	-0.49	-1.98
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Male undergraduate enrollment ⁶						(Effect size=‡)				(Effect size=‡)	
1–3,161	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
3,162–6,182	80	10	24.92	23.88	37.64	-1.03	-4.15	24.92	23.18	-1.73*	-6.96
6,183–10,479	80	10	24.80	25.03	22.01	0.23	0.91	24.80	24.97	0.17	0.70
10,480 or more	80	10	24.80	24.73	25.68	-0.07	-0.29	24.80	24.33	-0.47	-1.91
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Female undergraduate enrollment ⁶						(Effect size=‡)				(Effect size=‡)	
1–4,301	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
4,302–7,184	80	10	24.81	24.45	29.34	-0.37	-1.48	24.81	24.09	-0.73	-2.94
7,185–11,856	80	10	24.80	24.73	25.68	-0.07	-0.29	24.80	24.43	-0.37	-1.48
11,857 or more	80	10	24.80	24.73	25.68	-0.07	-0.29	24.80	24.26	-0.54	-2.18
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total graduate enrollment ⁶						(Effect size=0.02)				(Effect size=0.03)	
1–1,576	90	10	25.52	26.11	18.34	0.58	2.29	25.52	27.01	1.49*	5.82
1,577–3,128	80	10	24.87	25.03	22.97	0.15	0.62	24.87	24.50	-0.38	-1.52
3,129–6,228	80	10	24.80	24.13	33.01	-0.67	-2.69	24.80	24.10	-0.70	-2.84
6,229 or more	80	10	24.80	24.73	25.68	-0.07	-0.29	24.80	24.40	-0.40	-1.63

See notes at end of table.

Table J-6. Institution-level nonresponse bias analysis for selected variables for public 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Male graduate enrollment ⁶						(Effect size=0.02)				(Effect size=0.04)	
1–571	90	10	25.52	26.11	18.34	0.58	2.29	25.52	27.06	1.54*	6.03
572–1,184	80	10	24.87	25.03	22.97	0.15	0.62	24.87	24.76	-0.12	-0.47
1,185–2,728	80	10	24.80	24.13	33.01	-0.67	-2.69	24.80	23.68	-1.12	-4.52
2,729 or more	80	10	24.80	24.73	25.68	-0.07	-0.29	24.80	24.50	-0.30	-1.21
Female graduate enrollment ⁶						(Effect size=0.02)				(Effect size=0.04)	
1–977	90	10	25.51	26.09	18.34	0.58	2.28	25.51	26.96	1.45	5.69
978–1,952	80	10	24.89	25.04	22.97	0.16	0.62	24.89	24.64	-0.24	-0.98
1,953–3,588	80	10	24.80	24.73	25.68	-0.07	-0.29	24.80	24.81	0.01	0.03
3,589 or more	80	10	24.80	24.13	33.01	-0.67	-2.69	24.80	23.58	-1.22	-4.91
Number of bachelor's degrees awarded ⁶						(Effect size=‡)				(Effect size=‡)	
0–2,554	80	10	24.19	24.29	22.97	0.10	0.41	24.19	24.39	0.20	0.81
2,555–4,501	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
4,502–8,696	80	10	23.70	23.54	25.68	-0.16	-0.68	23.70	23.23	-0.47	-1.99
8,697 or more	80	10	23.70	23.54	25.68	-0.16	-0.68	23.70	23.35	-0.34	-1.45
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁶						(Effect size=‡)				(Effect size=‡)	
1–64	70	10	23.19	22.10	36.68	-1.10	-4.72	23.19	22.24	-0.95	-4.11
65–76	80	10	23.14	23.15	22.97	0.01	0.06	23.14	23.22	0.08	0.34
77–86	80	10	22.32	22.64	18.34	0.32	1.45	22.32	22.00	-0.32	-1.45
87 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students living on campus ⁶						(Effect size=‡)				(Effect size=‡)	
0–458	80	10	22.44	22.77	18.34	0.33	1.48	22.44	22.75	0.31	1.38
459–854	70	10	22.16	21.50	30.31	-0.66	-2.99	22.16	21.23	-0.93	-4.19
855–1,568	80	10	22.05	22.35	18.34	0.30	1.37	22.05	22.05	#	#
1,569 or more	70	10	21.77	22.05	18.34	0.28	1.28	21.77	21.54	-0.23	-1.08
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-6. Institution-level nonresponse bias analysis for selected variables for public 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Average amount of grant and scholarship aid received ⁶						(Effect size=‡)				(Effect size=‡)	
\$0–\$6,275	80	10	22.91	22.90	22.97	-0.01	-0.02	22.91	23.04	0.13	0.56
\$6,276–\$7,493	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$7,494–\$8,791	70	10	22.79	22.26	29.34	-0.53	-2.34	22.79	21.89	-0.90	-3.95
\$8,792 or more	70	10	22.60	22.05	29.34	-0.55	-2.43	22.60	21.53	-1.07	-4.73
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁶						(Effect size=‡)				(Effect size=‡)	
0–194	80	10	23.35	23.68	19.30	0.33	1.41	23.35	23.84	0.49	2.11
195–338	70	10	22.35	21.78	29.34	-0.57	-2.54	22.35	21.63	-0.72	-3.22
339–547	80	10	22.60	22.64	22.01	0.05	0.21	22.60	22.26	-0.34	-1.51
548 or more	80	10	22.60	22.64	22.01	0.05	0.21	22.60	21.94	-0.66	-2.91
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than five unweighted 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 calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Institution base weight, adjusted for nonresponse.⁴ 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).⁵ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.⁶ Categories were defined by quartiles.

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. "Base weight" refers to the institution sampling weight adjusted for field test sampling. Sample sizes rounded to the nearest 10 and, therefore, may not sum to total.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-7. Institution-level nonresponse bias analysis for selected variables for private nonprofit less-than-4-year institutions: 2015–16

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Degree of urbanization						(Effect size=†)				(Effect size=†)	
Large city	†	†	†	†	†	†	†	†	†	†	†
Mid-size city	†	†	†	†	†	†	†	†	†	†	†
Small city	†	†	†	†	†	†	†	†	†	†	†
Large suburb	†	†	†	†	†	†	†	†	†	†	†
Mid-size 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 or remote from town	†	†	†	†	†	†	†	†	†	†	†
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ⁵						(Effect size=†)				(Effect size=†)	
New England	†	†	†	†	†	†	†	†	†	†	†
Mid East	†	†	†	†	†	†	†	†	†	†	†
Great Lakes	†	†	†	†	†	†	†	†	†	†	†
Plains	†	†	†	†	†	†	†	†	†	†	†
Southeast	†	†	†	†	†	†	†	†	†	†	†
Southwest	†	†	†	†	†	†	†	†	†	†	†
Rocky Mountains	†	†	†	†	†	†	†	†	†	†	†
Far West	†	†	†	†	†	†	†	†	†	†	†
Outlying areas	†	†	†	†	†	†	†	†	†	†	†
Hispanic Serving Institution						(Effect size=†)				(Effect size=†)	
Yes	†	†	†	†	†	†	†	†	†	†	†
No	†	†	†	†	†	†	†	†	†	†	†

See notes at end of table.

Table J-7. Institution-level nonresponse bias analysis for selected variables for private nonprofit less-than-4-year institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Percentage of full-time, first-time degree/certificate-seeking students receiving state or local grant aid ⁶						(Effect size=†)				(Effect size=†)	
1–6	†	†	†	†	†	†	†	†	†	†	†
7–46	†	†	†	†	†	†	†	†	†	†	†
47 or more	†	†	†	†	†	†	†	†	†	†	†
None or unknown	†	†	†	†	†	†	†	†	†	†	†
Percentage of full-time, first-time degree/certificate-seeking students receiving institutional grant aid ⁶						(Effect size=†)				(Effect size=†)	
1–3	†	†	†	†	†	†	†	†	†	†	†
4–14	†	†	†	†	†	†	†	†	†	†	†
15 or more	†	†	†	†	†	†	†	†	†	†	†
None or unknown	†	†	†	†	†	†	†	†	†	†	†
Percentage of full-time, first-time degree/certificate-seeking students receiving student loan aid ⁶						(Effect size=†)				(Effect size=†)	
1–59	†	†	†	†	†	†	†	†	†	†	†
60–75	†	†	†	†	†	†	†	†	†	†	†
76–90	†	†	†	†	†	†	†	†	†	†	†
91 or more	†	†	†	†	†	†	†	†	†	†	†
None or unknown	†	†	†	†	†	†	†	†	†	†	†
Average net price among full-time, first-time degree/certificate-seeking students receiving grant or scholarship aid ⁶						(Effect size=†)				(Effect size=†)	
\$1–\$16,521	†	†	†	†	†	†	†	†	†	†	†
\$16,522–\$20,629	†	†	†	†	†	†	†	†	†	†	†
\$20,630–\$22,577	†	†	†	†	†	†	†	†	†	†	†
\$22,578 or more	†	†	†	†	†	†	†	†	†	†	†
None or unknown	†	†	†	†	†	†	†	†	†	†	†

See notes at end of table.

Table J-7. Institution-level nonresponse bias analysis for selected variables for private nonprofit less-than-4-year institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Percentage of students enrolled who were Black, non-Hispanic ⁶						(Effect size=†)				(Effect size=†)	
0–6	†	†	†	†	†	†	†	†	†	†	†
7–16	†	†	†	†	†	†	†	†	†	†	†
17–40	†	†	†	†	†	†	†	†	†	†	†
41 or more	†	†	†	†	†	†	†	†	†	†	†
Percentage of students enrolled who were Asian or Pacific Islander, non-Hispanic ⁶						(Effect size=†)				(Effect size=†)	
0–1	†	†	†	†	†	†	†	†	†	†	†
2	†	†	†	†	†	†	†	†	†	†	†
3	†	†	†	†	†	†	†	†	†	†	†
4 or more	†	†	†	†	†	†	†	†	†	†	†
Percentage of students enrolled who were Hispanic ⁶						(Effect size=†)				(Effect size=†)	
0–3	†	†	†	†	†	†	†	†	†	†	†
4–8	†	†	†	†	†	†	†	†	†	†	†
9–24	†	†	†	†	†	†	†	†	†	†	†
25 or more	†	†	†	†	†	†	†	†	†	†	†
Total undergraduate enrollment ⁶						(Effect size=†)				(Effect size=†)	
1–366	†	†	†	†	†	†	†	†	†	†	†
367–575	†	†	†	†	†	†	†	†	†	†	†
576–1,149	†	†	†	†	†	†	†	†	†	†	†
1,150 or more	†	†	†	†	†	†	†	†	†	†	†
Male undergraduate enrollment ⁶						(Effect size=†)				(Effect size=†)	
1–92	†	†	†	†	†	†	†	†	†	†	†
93–173	†	†	†	†	†	†	†	†	†	†	†
174–550	†	†	†	†	†	†	†	†	†	†	†
551 or more	†	†	†	†	†	†	†	†	†	†	†

See notes at end of table.

Table J-7. Institution-level nonresponse bias analysis for selected variables for private nonprofit less-than-4-year institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Female undergraduate enrollment ⁶						(Effect size=‡)				(Effect size=‡)	
1–163	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
164–312	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
313–534	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
535 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁶						(Effect size=‡)				(Effect size=‡)	
1–67	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
68–84	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
85–89	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
90 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students living on campus ⁶						(Effect size=‡)				(Effect size=‡)	
0–5	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
8–10	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-7. Institution-level nonresponse bias analysis for selected variables for private nonprofit less-than-4-year institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Average amount of grant and scholarship aid received ⁶						(Effect size=‡)				(Effect size=‡)	
\$0–\$4,587	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$4,588–\$4,671	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$4,672–\$5,684	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$5,685 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁶						(Effect size=‡)				(Effect size=‡)	
0–13	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
14–33	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
34–88	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
89 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

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

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 calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Institution base weight, adjusted for nonresponse.⁴ 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).⁵ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.⁶ Categories were defined by quartiles.

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. "Base weight" refers to the institution sampling weight adjusted for field test sampling. Sample sizes rounded to the nearest 10 and, therefore, may not sum to total.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-8. Institution-level nonresponse bias analysis for selected variables for private nonprofit 4-year non-doctorate-granting institutions: 2015–16

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
2015 Carnegie Basic classification code						(Effect size=‡)				(Effect size=‡)	
Associate's	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Research and doctoral	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Master's	90	10	14.28	14.96	11.22	0.68	4.75	14.28	13.44	-0.84	-5.90
Baccalaureate	150	20	45.28	48.88	29.01	3.60	7.96	45.28	47.07	1.79	3.96
Special focus and other	20	10	26.61	19.92	56.81	-6.69§	-25.14	26.61	21.59	-5.02	-18.87
Unavailable or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Degree of urbanization						(Effect size=‡)				(Effect size=‡)	
Large city	50	10	22.24	25.18	9.00	2.93§	13.19	22.24	25.98	3.74	16.80
Mid-size city	30	10	11.72	9.48	21.87	-2.25	-19.16	11.72	8.55	-3.18	-27.10
Small city	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Large suburb	60	10	18.01	18.63	15.22	0.62	3.43	18.01	17.75	-0.25	-1.42
Mid-size suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Urban area distant from town	40	10	9.80	9.52	11.08	-0.28	-2.89	9.80	8.50	-1.31	-13.34
Urban area remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area on fringe of town	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rural area distant or remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ⁵						(Effect size=‡)				(Effect size=‡)	
New England	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Mid East	50	10	20.30	15.24	43.12	-5.06	-24.92	20.30	16.16	-4.13	-20.37
Great Lakes	60	10	15.36	16.66	9.49	1.30	8.46	15.36	16.94	1.58	10.31
Plains	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southeast	60	10	30.89	32.23	24.86	1.34	4.33	30.89	33.34	2.45	7.93
Southwest	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Outlying areas	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-8. Institution-level nonresponse bias analysis for selected variables for private nonprofit 4-year non-doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Historically Black College or University						(Effect size=‡)				(Effect size=‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
No or Unavailable or unknown	270	40	97.05	96.39	100.00	-0.65§	-0.67	97.05	96.52	-0.53	-0.54
Hispanic Serving Institution						(Effect size=0.04)				(Effect size=0.03)	
Yes	20	10	12.15	13.51	5.99	1.36	11.24	12.15	13.23	1.08	8.91
No	260	40	87.85	86.49	94.01	-1.36	-1.55	87.85	86.77	-1.08	-1.23
Percentage of full-time, first-time degree/certificate-seeking students receiving federal grant aid ⁶						(Effect size=0.15)				(Effect size=0.14)	
1–25	60	10	18.82	15.37	34.37	-3.45	-18.31	18.82	15.96	-2.86	-15.20
26–38	70	10	14.31	16.19	5.80	1.88§	13.17	14.31	15.01	0.71	4.93
39–53	60	10	20.53	22.29	12.59	1.76	8.57	20.53	19.95	-0.58	-2.80
54 or more	60	10	33.46	36.49	19.78	3.03	9.06	33.46	38.83	5.38	16.07
None or unknown	20	10	12.89	9.66	27.46	-3.23	-25.04	12.89	10.25	-2.65	-20.52
Percentage of full-time, first-time degree/certificate-seeking students receiving state or local grant aid ⁶						(Effect size=0.15)				(Effect size=0.14)	
1–13	50	10	15.52	17.77	5.38	2.25§	14.48	15.52	19.67	4.15	26.71
14–29	60	10	16.63	18.75	7.04	2.12§	12.77	16.63	18.06	1.43	8.60
30–47	70	10	16.45	18.72	6.23	2.26§	13.76	16.45	17.09	0.64	3.89
48 or more	60	10	18.86	18.64	19.85	-0.22	-1.17	18.86	16.31	-2.54	-13.50
None or unknown	30	10	32.54	26.13	61.50	-6.41§	-19.71	32.54	28.87	-3.67	-11.28
Percentage of full-time, first-time degree/certificate-seeking students receiving institutional grant aid ⁶						(Effect size=0.11)				(Effect size=0.08)	
1–75	60	10	35.13	34.07	39.89	-1.05	-3.00	35.13	37.34	2.22	6.31
76–96	70	10	16.66	19.05	5.88	2.39§	14.34	16.66	17.41	0.75	4.51
97–99	70	10	16.73	17.50	13.30	0.76	4.55	16.73	16.17	-0.57	-3.39
100 or more	60	10	16.48	17.77	10.68	1.29	7.81	16.48	16.83	0.35	2.11
None or unknown	20	10	14.99	11.61	30.26	-3.38	-22.56	14.99	12.24	-2.75	-18.34

See notes at end of table.

Table J-8. Institution-level nonresponse bias analysis for selected variables for private nonprofit 4-year non-doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Percentage of full-time, first-time degree/certificate-seeking students receiving student loan aid ⁶						(Effect size=0.22)				(Effect size=0.26)	
1–57	60	10	20.35	23.21	7.45	2.86\$	14.04	20.35	28.40	8.05*	39.57
58–72	70	10	17.87	19.21	11.82	1.34	7.51	17.87	17.56	-0.31	-1.75
73–80	60	10	20.14	22.12	11.20	1.98	9.83	20.14	19.58	-0.56	-2.78
81 or more	70	10	21.83	24.36	10.39	2.53\$	11.61	21.83	23.00	1.17	5.35
None or unknown	20	10	19.81	11.10	59.13	-8.71\$	-43.98	19.81	11.46	-8.35	-42.14
Average net price among full-time, first-time degree/certificate-seeking students receiving grant or scholarship aid ⁶						(Effect size=0.12)				(Effect size=0.09)	
\$1–\$18,316	60	10	35.80	34.92	39.74	-0.87	-2.44	35.80	37.64	1.84	5.15
\$18,317–\$21,907	70	10	18.53	19.46	14.35	0.93	5.00	18.53	17.92	-0.62	-3.32
\$21,908–\$26,456	70	10	17.10	20.04	3.83	2.94*	17.19	17.10	18.38	1.28	7.50
\$26,457 or more	60	10	15.80	16.06	14.62	0.26	1.65	15.80	15.96	0.16	1.00
None or unknown	20	10	12.77	9.52	27.46	-3.25	-25.49	12.77	10.10	-2.67	-20.89
Percentage of students enrolled who were Black, non-Hispanic ⁶						(Effect size=‡)				(Effect size=‡)	
0–4	90	10	25.19	21.85	40.28	-3.34	-13.28	25.19	22.69	-2.50	-9.92
5–7	60	10	22.40	21.05	28.51	-1.35	-6.04	22.40	22.36	-0.04	-0.19
8–14	60	10	20.37	21.68	14.48	1.30	6.41	20.37	18.92	-1.45	-7.12
15 or more	60	10	30.82	33.94	16.72	3.12	10.13	30.82	34.63	3.81	12.38
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of students enrolled who were Asian or Pacific Islander, non-Hispanic ⁶						(Effect size=‡)				(Effect size=‡)	
0–1	100	10	41.91	39.79	51.49	-2.12	-5.06	41.91	39.07	-2.84	-6.78
2	60	10	13.82	14.93	8.80	1.11	8.04	13.82	14.14	0.32	2.32
3–4	70	10	17.18	18.68	10.42	1.50	8.72	17.18	20.58	3.40	19.78
5 or more	50	10	25.87	25.11	29.29	-0.76	-2.93	25.87	24.81	-1.05	-4.07
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-8. Institution-level nonresponse bias analysis for selected variables for private nonprofit 4-year non-doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Percentage of students enrolled who were Hispanic ⁶						(Effect size=‡)				(Effect size=‡)	
0–3	70	10	32.61	31.44	37.88	-1.17	-3.58	32.61	31.93	-0.68	-2.09
4–6	90	10	28.29	27.73	30.81	-0.56	-1.97	28.29	29.33	1.03	3.66
7–10	50	10	11.59	12.09	9.34	0.50	4.30	11.59	11.60	0.02	0.14
11 or more	60	10	26.29	27.25	21.97	0.96	3.64	26.29	25.75	-0.55	-2.08
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁶						(Effect size=‡)				(Effect size=‡)	
1–1,245	60	10	55.28	54.63	58.24	-0.65	-1.18	55.28	55.94	0.66	1.19
1,246–2,021	70	10	17.07	18.36	11.28	1.28	7.52	17.07	17.66	0.58	3.42
2,022–3,070	70	10	12.41	14.18	4.42	1.77§	14.26	12.41	13.27	0.86	6.96
3,071 or more	70	10	9.10	9.28	8.31	0.18	1.92	9.10	8.49	-0.62	-6.78
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Male undergraduate enrollment ⁶						(Effect size=‡)				(Effect size=‡)	
1–482	60	20	53.04	52.47	55.61	-0.57	-1.07	53.04	53.67	0.63	1.19
483–838	70	10	18.85	20.18	12.86	1.33	7.04	18.85	19.32	0.47	2.48
839–1,330	70	10	11.86	13.32	5.27	1.46§	12.32	11.86	12.70	0.84	7.07
1,331 or more	70	10	10.12	10.47	8.51	0.36	3.51	10.12	9.67	-0.45	-4.42
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Female undergraduate enrollment ⁶						(Effect size=‡)				(Effect size=‡)	
1–678	60	20	52.28	51.03	57.93	-1.25	-2.39	52.28	53.33	1.05	2.00
679–1,147	70	10	19.96	21.71	12.05	1.75	8.78	19.96	20.32	0.36	1.78
1,148–1,730	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
1,731 or more	70	10	9.75	9.92	8.98	0.17	1.75	9.75	8.96	-0.79	-8.08
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total graduate enrollment ⁶						(Effect size=0.03)				(Effect size=0.03)	
1–113	50	10	27.75	27.22	30.13	-0.53	-1.91	27.75	28.72	0.97	3.48
114–383	50	10	16.82	15.94	20.81	-0.88	-5.25	16.82	16.99	0.17	1.02
384–867	50	10	9.36	10.03	6.32	0.67	7.19	9.36	9.52	0.16	1.76
868 or more	50	10	6.40	6.39	6.47	-0.01	-0.23	6.40	5.85	-0.55	-8.64
None or unknown	70	10	39.67	40.42	36.26	0.75	1.90	39.67	38.92	-0.75	-1.89

See notes at end of table.

Table J-8. Institution-level nonresponse bias analysis for selected variables for private nonprofit 4-year non-doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Male graduate enrollment ⁶						(Effect size=0.03)				(Effect size=0.03)	
1–42	50	10	27.46	26.50	31.75	-0.95	-3.47	27.46	28.22	0.77	2.79
43–140	50	10	16.54	16.10	18.52	-0.44	-2.65	16.54	17.02	0.48	2.91
141–290	50	10	9.70	10.17	7.63	0.46	4.75	9.70	9.37	-0.33	-3.43
291 or more	50	10	6.63	6.80	5.84	0.18	2.65	6.63	6.46	-0.17	-2.50
None or unknown	70	10	39.67	40.42	36.26	0.75	1.90	39.67	38.92	-0.75	-1.89
Female graduate enrollment ⁶						(Effect size=0.11)				(Effect size=0.09)	
1–59	50	10	26.02	28.27	15.87	2.25	8.64	26.02	29.41	3.39	13.03
60–253	50	10	18.58	14.61	36.49	-3.97	-21.36	18.58	16.12	-2.46	-13.22
254–562	50	10	9.19	9.93	5.85	0.74	8.05	9.19	9.39	0.20	2.19
563 or more	50	10	6.54	6.77	5.53	0.22	3.44	6.54	6.16	-0.39	-5.92
None or unknown	70	10	39.67	40.42	36.26	0.75	1.90	39.67	38.92	-0.75	-1.89
Number of bachelor's degrees awarded ⁶						(Effect size=‡)				(Effect size=‡)	
0–426	70	10	56.00	56.28	54.71	0.29	0.51	56.00	58.16	2.16	3.85
427–796	70	10	17.16	18.34	11.85	1.18	6.86	17.16	16.90	-0.26	-1.52
797–1,207	70	10	11.04	11.69	8.09	0.65	5.91	11.04	10.93	-0.11	-0.97
1,208 or more	70	10	8.33	9.11	4.80	0.78	9.39	8.33	8.67	0.34	4.10
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁶						(Effect size=0.11)				(Effect size=0.10)	
1–91	70	10	32.97	32.32	35.90	-0.65	-1.97	32.97	36.35	3.38	10.27
92–98	70	10	18.84	19.88	14.19	1.03	5.48	18.84	17.99	-0.86	-4.55
99 or more	120	20	35.42	38.29	22.45	2.87	8.11	35.42	35.56	0.14	0.40
None or unknown	20	10	12.77	9.52	27.46	-3.25	-25.49	12.77	10.10	-2.67	-20.89
Number of first-time, full-time undergraduate students living on campus ⁶						(Effect size=0.07)				(Effect size=0.04)	
0–178	60	10	35.31	33.36	44.15	-1.96	-5.54	35.31	35.63	0.31	0.89
179–289	60	10	14.46	15.94	7.80	1.47	10.20	14.46	14.96	0.50	3.44
290–447	60	10	12.12	12.98	8.20	0.87	7.16	12.12	12.37	0.25	2.05
448 or more	60	10	8.35	9.41	3.58	1.06§	12.66	8.35	9.02	0.67	8.04
Unknown	40	10	29.76	28.32	36.27	-1.44	-4.84	29.76	28.03	-1.73	-5.81

See notes at end of table.

Table J-8. Institution-level nonresponse bias analysis for selected variables for private nonprofit 4-year non-doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Average amount of grant and scholarship aid received ⁶						(Effect size=0.12)				(Effect size=0.09)	
\$0–\$12,844	60	10	43.12	42.26	47.02	-0.86	-2.00	43.12	44.21	1.09	2.53
\$12,845–\$17,343	70	10	17.04	19.67	5.16	2.63§	15.44	17.04	18.12	1.08	6.37
\$17,344–\$22,901	60	10	13.23	12.99	14.30	-0.24	-1.81	13.23	12.52	-0.70	-5.33
\$22,902 or more	70	10	13.85	15.57	6.06	1.73§	12.46	13.85	15.04	1.20	8.66
Unknown	20	10	12.77	9.52	27.46	-3.25	-25.49	12.77	10.10	-2.67	-20.89
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁶						(Effect size=0.10)				(Effect size=0.10)	
0–35	70	10	42.47	42.48	42.42	0.01	0.03	42.47	46.12	3.65	8.59
36–50	60	10	15.89	17.29	9.56	1.40	8.82	15.89	15.84	-0.05	-0.31
51–84	70	10	14.21	14.68	12.08	0.47	3.33	14.21	12.98	-1.22	-8.61
85 or more	60	10	14.54	15.89	8.49	1.34	9.23	14.54	14.82	0.27	1.87
Unknown	20	10	12.89	9.66	27.46	-3.23	-25.04	12.89	10.25	-2.65	-20.52

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

* $p < 0.05$.§ $p < 0.05$ for difference between weighted respondent mean and weighted nonrespondent mean but not for estimated bias.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 calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Institution base weight, adjusted for nonresponse.⁴ 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).⁵ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.⁶ Categories were defined by quartiles.

NOTE: Sample sizes rounded to the nearest 10 and, therefore, may not sum to total. 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. "Base weight" refers to the institution sampling weight adjusted for field test sampling.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-9. Institution-level nonresponse bias analysis for selected variables for private nonprofit, 4-year, doctorate-granting institutions: 2015–16

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
2015 Carnegie Basic classification code						(Effect size=‡)				(Effect size=‡)	
Associate's	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Research and doctoral	80	10	15.45	16.43	10.58	0.98	6.34	15.45	16.29	0.84	5.44
Master's	130	10	37.28	41.48	16.36	4.21§	11.28	37.28	39.82	2.55	6.83
Baccalaureate	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Special focus and other	20	10	36.23	30.17	66.37	-6.06§	-16.73	36.23	32.00	-4.23	-11.68
Unavailable or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Degree of urbanization						(Effect size=‡)				(Effect size=‡)	
Large city	80	10	31.45	36.44	6.65	4.99*	15.86	31.45	36.96	5.51*	17.51
Mid-size city	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Small city	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Large suburb	60	10	27.15	20.17	61.88	-6.98§	-25.71	27.15	20.43	-6.72	-24.76
Mid-size 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 or remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ⁵						(Effect size=‡)				(Effect size=‡)	
New England	30	10	14.29	13.03	20.56	-1.26	-8.82	14.29	13.68	-0.61	-4.27
Mid East	60	10	26.31	19.60	59.64	-6.70§	-25.48	26.31	20.20	-6.10	-23.20
Great Lakes	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Plains	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southeast	40	10	17.90	19.44	10.24	1.54	8.60	17.90	20.80	2.90	16.22
Southwest	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Outlying areas	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-9. Institution-level nonresponse bias analysis for selected variables for private nonprofit, 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Historically Black College or University						(Effect size=‡)				(Effect size=‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
No or Unavailable or unknown	240	30	96.85	96.21	100.00	-0.63	-0.65	96.85	95.88	-0.96	-0.99
Hispanic Serving Institution						(Effect size=‡)				(Effect size=‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
No	220	30	92.52	91.39	98.17	-1.14§	-1.23	92.52	92.11	-0.41	-0.44
Percentage of full-time, first-time degree/certificate-seeking students receiving federal grant aid ⁶						(Effect size=‡)				(Effect size=‡)	
1–18	50	10	11.94	12.16	10.83	0.22	1.86	11.94	13.01	1.07	8.98
19–30	60	10	14.91	16.81	5.44	1.90§	12.76	14.91	16.40	1.49	10.01
31–42	60	10	21.33	23.57	10.20	2.24	10.49	21.33	23.46	2.13	9.96
43 or more	60	10	20.46	22.45	10.56	1.99	9.72	20.46	21.22	0.76	3.71
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking students receiving state or local grant aid ⁶						(Effect size=‡)				(Effect size=‡)	
1–11	60	10	13.83	15.26	6.73	1.43	10.33	13.83	16.32	2.49	17.99
12–25	50	10	17.25	17.75	14.75	0.50	2.92	17.25	18.42	1.17	6.78
26–41	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
42 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking students receiving institutional grant aid ⁶						(Effect size=‡)				(Effect size=‡)	
1–70	60	10	18.89	21.14	7.68	2.25§	11.93	18.89	24.48	5.60*	29.63
71–94	60	10	15.80	16.18	13.90	0.38	2.41	15.80	16.06	0.26	1.67
95–98	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
99 or more	60	10	19.42	20.97	11.76	1.54	7.93	19.42	19.05	-0.37	-1.91
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-9. Institution-level nonresponse bias analysis for selected variables for private nonprofit, 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Percentage of full-time, first-time degree/certificate-seeking students receiving student loan aid ⁶						(Effect size=‡)				(Effect size=‡)	
1–47	60	10	17.48	19.45	7.68	1.97	11.27	17.48	21.33	3.85	22.04
48–64	60	10	14.50	15.55	9.30	1.05	7.22	14.50	16.27	1.77	12.20
65–75	50	10	16.47	17.40	11.84	0.93	5.65	16.47	16.09	-0.38	-2.33
76 or more	60	10	20.74	23.25	8.22	2.52§	12.14	20.74	21.52	0.79	3.80
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Average net price among full-time, first-time degree/certificate-seeking students receiving grant or scholarship aid ⁶						(Effect size=‡)				(Effect size=‡)	
\$1–\$20,055	60	10	26.25	29.50	10.12	3.24§	12.36	26.25	30.27	4.02	15.29
\$20,056–\$24,723	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$24,724–\$30,521	60	10	14.82	16.63	5.81	1.81§	12.23	14.82	16.63	1.81	12.22
\$30,522 or more	50	10	12.07	12.20	11.44	0.13	1.05	12.07	12.56	0.49	4.06
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of students enrolled who were Black, non-Hispanic ⁶						(Effect size=‡)				(Effect size=‡)	
0–4	70	10	36.41	31.58	60.41	-4.83	-13.26	36.41	32.53	-3.88	-10.66
5–6	50	10	15.47	14.04	22.57	-1.43	-9.24	15.47	13.72	-1.74	-11.28
7–11	70	10	18.91	20.35	11.74	1.44	7.62	18.91	19.35	0.44	2.31
12 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of students enrolled who were Asian or Pacific Islander, non-Hispanic ⁶						(Effect size=‡)				(Effect size=‡)	
0–2	80	10	37.21	35.71	44.69	-1.50	-4.04	37.21	34.72	-2.49	-6.68
3–4	50	10	20.16	20.45	18.75	0.28	1.41	20.16	20.00	-0.16	-0.78
5–9	60	10	21.43	23.31	12.09	1.88	8.76	21.43	24.59	3.15	14.71
10 or more	50	10	20.97	20.27	24.47	-0.70	-3.35	20.97	20.44	-0.53	-2.52
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-9. Institution-level nonresponse bias analysis for selected variables for private nonprofit, 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Percentage of students enrolled who were Hispanic ⁶						(Effect size=‡)				(Effect size=‡)	
0–4	60	10	39.22	33.12	69.56	-6.10§	-15.55	39.22	33.89	-5.32	-13.58
5–7	60	10	20.59	20.47	21.18	-0.12	-0.58	20.59	20.51	-0.08	-0.39
8–11	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
12 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁶						(Effect size=‡)				(Effect size=‡)	
1–2,373	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
2,374–4,087	60	10	18.33	19.62	11.88	1.30	7.07	18.33	18.38	0.05	0.29
4,088–6,711	60	10	11.25	11.70	9.01	0.45	4.00	11.25	11.16	-0.09	-0.78
6,712 or more	60	10	10.49	11.31	6.40	0.82	7.84	10.49	10.80	0.31	2.91
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Male undergraduate enrollment ⁶						(Effect size=‡)				(Effect size=‡)	
1–906	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
907–1,690	60	10	18.78	19.50	15.20	0.72	3.83	18.78	18.45	-0.33	-1.75
1,691–3,048	60	10	11.59	12.15	8.80	0.56	4.85	11.59	11.71	0.12	1.01
3,049 or more	60	10	10.56	11.57	5.49	1.02	9.65	10.56	11.01	0.46	4.33
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Female undergraduate enrollment ⁶						(Effect size=‡)				(Effect size=‡)	
1–1,361	50	10	40.17	45.57	13.33	5.40§	13.43	40.17	47.32	7.14*	17.79
1,362–2,289	60	10	18.60	20.32	10.03	1.72	9.26	18.60	19.11	0.51	2.76
2,290–3,782	60	10	11.68	12.61	7.08	0.93	7.93	11.68	11.82	0.13	1.15
3,783 or more	60	10	10.65	11.28	7.52	0.63	5.91	10.65	10.84	0.19	1.78
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total graduate enrollment ⁶						(Effect size=0.07)				(Effect size=0.05)	
1–965	60	10	53.34	49.76	71.13	-3.58	-6.70	53.34	50.96	-2.38	-4.46
966–2,323	60	10	22.04	23.90	12.77	1.86	8.46	22.04	23.89	1.85	8.41
2,324–4,603	60	10	14.10	14.80	10.62	0.70	4.97	14.10	14.06	-0.04	-0.29
4,604 or more	60	10	10.52	11.53	5.49	1.01	9.62	10.52	11.09	0.57	5.42

See notes at end of table.

Table J-9. Institution-level nonresponse bias analysis for selected variables for private nonprofit, 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Male graduate enrollment ⁶						(Effect size=0.04)				(Effect size=0.05)	
1–362	60	10	51.66	51.91	50.44	0.25	0.48	51.66	52.94	1.27	2.47
363–866	60	10	23.23	22.16	28.55	-1.07	-4.61	23.23	21.37	-1.85	-7.98
867–1,819	60	10	13.87	13.54	15.53	-0.33	-2.40	13.87	13.40	-0.47	-3.40
1,820 or more	60	10	11.23	12.39	5.49	1.16	10.28	11.23	12.28	1.05	9.36
Female graduate enrollment ⁶						(Effect size=0.09)				(Effect size=0.04)	
1–589	60	10	52.27	47.86	74.25	-4.42§	-8.45	52.27	50.54	-1.74	-3.32
590–1,318	60	10	23.33	26.29	8.63	2.96§	12.67	23.33	24.76	1.43	6.13
1,319–2,753	60	10	13.46	14.55	8.02	1.09	8.12	13.46	13.69	0.23	1.72
2,754 or more	60	10	10.94	11.31	9.10	0.37	3.38	10.94	11.01	0.07	0.67
Number of bachelor's degrees awarded ⁶						(Effect size=‡)				(Effect size=‡)	
0–938	60	10	39.85	44.47	16.86	4.62§	11.60	39.85	46.29	6.44*	16.16
939–1,749	60	10	15.99	17.64	7.76	1.65	10.35	15.99	16.52	0.53	3.32
1,750–2,886	60	10	10.68	11.44	6.93	0.75	7.06	10.68	10.98	0.29	2.73
2,887 or more	60	10	9.95	10.66	6.40	0.71	7.17	9.95	10.23	0.28	2.78
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁶						(Effect size=‡)				(Effect size=‡)	
1–83	60	10	19.57	21.34	10.80	1.76	9.01	19.57	24.81	5.23*	26.74
84–96	70	10	17.97	19.41	10.78	1.45	8.04	17.97	18.86	0.89	4.95
97–99	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
100 or more	40	10	14.87	15.49	11.76	0.63	4.20	14.87	13.92	-0.94	-6.35
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students living on campus ⁶						(Effect size=‡)				(Effect size=‡)	
0–266	60	10	25.64	28.06	13.65	2.41	9.41	25.64	28.43	2.78	10.85
267–524	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
525–886	50	10	12.07	11.53	14.78	-0.55	-4.52	12.07	11.11	-0.96	-7.93
887 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	30	10	37.95	32.73	63.87	-5.21	-13.74	37.95	34.18	-3.77	-9.92

See notes at end of table.

Table J-9. Institution-level nonresponse bias analysis for selected variables for private nonprofit, 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Average amount of grant and scholarship aid received ⁶						(Effect size=‡)				(Effect size=‡)	
\$0–\$15,432	60	10	23.32	25.40	12.95	2.08	8.94	23.32	26.80	3.48	14.93
\$15,433–\$19,621	60	10	16.64	18.24	8.69	1.60	9.60	16.64	17.19	0.55	3.33
\$19,622–\$25,564	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$25,565 or more	50	10	13.48	13.73	12.23	0.25	1.87	13.48	13.90	0.42	3.13
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁶						(Effect size=‡)				(Effect size=‡)	
0–50	60	10	28.81	32.48	10.53	3.68§	12.76	28.81	34.51	5.70*	19.79
51–83	60	10	16.33	17.71	9.46	1.38	8.46	16.33	17.00	0.68	4.14
84–141	50	10	13.32	13.69	11.46	0.37	2.80	13.32	13.01	-0.31	-2.30
142 or more	60	10	11.19	12.31	5.60	1.12	10.05	11.19	11.44	0.25	2.25
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

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

* $p < 0.05$.§ $p < 0.05$ for difference between weighted respondent mean and weighted nonrespondent mean but not for estimated bias.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 calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Institution base weight, adjusted for nonresponse.⁴ 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).⁵ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.⁶ Categories were defined by quartiles.

NOTE: Sample sizes rounded to the nearest 10 and, therefore, may not sum to total. 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. "Base weight" refers to the institution sampling weight adjusted for field test sampling.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

**Table J-10. Institution-level nonresponse bias analysis for selected variables for private for-profit less-than-2-year institutions:
2015–16**

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Degree of urbanization						(Effect size=‡)				(Effect size=‡)	
Large city	20	10	20.70	16.63	30.91	-4.07	-19.65	20.70	15.25	-5.45	-26.33
Mid-size city	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Small city	10	10	10.04	5.95	20.33	-4.10	-40.77	10.04	5.12	-4.92	-49.03
Large suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Mid-size 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 or remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ⁵						(Effect size=‡)				(Effect size=‡)	
New England	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Mid East	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Great Lakes	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Plains	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southeast	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southwest	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Outlying areas	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Hispanic Serving Institution						(Effect size=0.04)				(Effect size=0.03)	
Yes	20	10	23.25	21.39	27.91	-1.86	-7.98	23.25	21.98	-1.27	-5.48
No	30	10	76.75	78.61	72.09	1.86	2.42	76.75	78.02	1.27	1.66

See notes at end of table.

**Table J-10. Institution-level nonresponse bias analysis for selected variables for private for-profit less-than-2-year institutions:
2015–16—Continued**

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents	Unweighted non- respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non- respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Percentage of full-time, first-time degree/certificate-seeking students receiving state or local grant aid ⁶						(Effect size=‡)				(Effect size=‡)	
1–6	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
7 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	30	10	57.23	47.92	80.61	-9.31§	-16.27	57.23	47.35	-9.88	-17.27
Percentage of full-time, first-time degree/certificate-seeking students receiving institutional grant aid ⁶						(Effect size=‡)				(Effect size=‡)	
1	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
2–16	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
17 or more	10	10	21.58	15.88	35.90	-5.70	-26.41	21.58	17.47	-4.11	-19.04
None or unknown	30	10	55.97	59.66	46.71	3.69	6.59	55.97	58.44	2.47	4.41
Percentage of full-time, first-time degree/certificate-seeking students receiving student loan aid ⁶						(Effect size=‡)				(Effect size=‡)	
1–56	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
57–76	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
77–88	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
89 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	10	10	18.15	9.80	39.11	-8.35	-46.00	18.15	11.07	-7.07	-38.98
Average net price among full-time, first-time degree/certificate-seeking students receiving grant or scholarship aid ⁶						(Effect size=‡)				(Effect size=‡)	
\$1–\$12,651	10	10	36.73	32.89	46.38	-3.84	-10.46	36.73	33.13	-3.60	-9.81
\$12,652–\$15,504	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$15,505–\$20,918	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$20,919 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

**Table J-10. Institution-level nonresponse bias analysis for selected variables for private for-profit less-than-2-year institutions:
2015–16—Continued**

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents	Unweighted non- respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non- respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Percentage of students enrolled who were Black, non-Hispanic ⁶						(Effect size=‡)				(Effect size=‡)	
0–5	10	10	35.79	30.04	50.24	-5.75	-16.07	35.79	28.60	-7.19	-20.09
6–17	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
18–35	10	10	18.70	15.35	27.11	-3.35	-17.90	18.70	14.50	-4.20	-22.46
36 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of students enrolled who were Asian or Pacific Islander, non-Hispanic ⁶						(Effect size=‡)				(Effect size=‡)	
0	10	10	47.34	44.52	54.42	-2.82	-5.96	47.34	45.44	-1.89	-4.00
1	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
2	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
3 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of students enrolled who were Hispanic ⁶						(Effect size=‡)				(Effect size=‡)	
0–4	20	10	35.18	40.35	22.22	5.16	14.67	35.18	40.54	5.36	15.22
5–17	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
18–49	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
50 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁶						(Effect size=‡)				(Effect size=‡)	
1–154	10	10	64.11	62.71	67.62	-1.40	-2.18	64.11	64.10	#	-0.01
155–393	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
394–900	10	10	10.80	10.22	12.24	-0.58	-5.34	10.80	9.77	-1.02	-9.47
901 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Male undergraduate enrollment ⁶						(Effect size=‡)				(Effect size=‡)	
1–11	10	10	64.20	58.49	78.55	-5.72	-8.90	64.20	60.52	-3.68	-5.74
12–60	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
61–200	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
201 or more	10	10	6.52	6.39	6.85	-0.13	-2.00	6.52	6.74	0.21	3.24

See notes at end of table.

**Table J-10. Institution-level nonresponse bias analysis for selected variables for private for-profit less-than-2-year institutions:
2015–16—Continued**

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non- respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non- respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Female undergraduate enrollment ⁶						(Effect size=‡)				(Effect size=‡)	
1–106	10	10	58.43	59.48	55.79	1.05	1.80	58.43	60.28	1.85	3.16
107–278	10	10	26.11	23.65	32.30	-2.46	-9.44	26.11	23.44	-2.68	-10.25
279–700	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
701 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁶						(Effect size=‡)				(Effect size=‡)	
1–67	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
68–79	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
80–89	10	10	20.87	24.89	10.77	4.02	19.27	20.87	23.70	2.83	13.58
90 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students living on campus ⁶						(Effect size=‡)				(Effect size=‡)	
0–111	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	50	20	99.15	100.00	97.00	0.85	0.86	99.15	100.00	0.85	0.86
Average amount of grant and scholarship aid received ⁶						(Effect size=‡)				(Effect size=‡)	
\$0–\$3,874	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$3,875–\$4,359	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$4,360–\$5,003	10	10	27.06	21.14	41.93	-5.92	-21.88	27.06	20.46	-6.60	-24.39
\$5,004 or more	10	10	24.26	22.85	27.79	-1.41	-5.80	24.26	25.07	0.81	3.34
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

**Table J-10. Institution-level nonresponse bias analysis for selected variables for private for-profit less-than-2-year institutions:
2015–16—Continued**

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁶						(Effect size=‡)				(Effect size=‡)	
0–24	10	10	40.22	36.06	50.66	-4.16	-10.34	40.22	35.62	-4.60	-11.45
25–49	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
50–170	10	10	12.82	9.15	22.03	-3.67	-28.62	12.82	8.59	-4.23	-33.02
171 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

Rounds to zero.

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

§ $p < 0.05$ for difference between weighted respondent mean and weighted nonrespondent mean but not for estimated bias.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 calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Institution base weight, adjusted for nonresponse.⁴ 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).⁵ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.⁶ Categories were defined by quartiles.

NOTE: Sample sizes rounded to the nearest 10 and, therefore, may not sum to total. 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. "Base weight" refers to the institution sampling weight adjusted for field test sampling.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-11. Institution-level nonresponse bias analysis for selected variables for private for-profit 2-year institutions: 2015–16

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Degree of urbanization						(Effect size=‡)				(Effect size=‡)	
Large city	40	10	30.03	32.81	23.77	2.79	9.28	30.03	29.80	-0.23	-0.77
Mid-size city	10	10	20.52	18.03	26.14	-2.50	-12.17	20.52	18.68	-1.85	-8.99
Small city	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Large suburb	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Mid-size 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 or remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ⁵						(Effect size=‡)				(Effect size=‡)	
New England	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Mid East	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Great Lakes	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Plains	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southeast	20	10	28.11	21.22	43.59	-6.89	-24.51	28.11	23.70	-4.41	-15.70
Southwest	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	20	10	19.00	16.48	24.67	-2.52	-13.28	19.00	15.83	-3.17	-16.69
Outlying areas	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Hispanic Serving Institution						(Effect size=0.12)				(Effect size=0.14)	
Yes	40	10	19.52	24.38	8.61	4.86	24.88	19.52	24.90	5.38	27.57
No	60	10	80.48	75.62	91.39	-4.86	-6.03	80.48	75.10	-5.38	-6.69

See notes at end of table.

Table J-11. Institution-level nonresponse bias analysis for selected variables for private for-profit 2-year institutions: 2015–16—
Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Percentage of full-time, first-time degree/certificate-seeking students receiving state or local grant aid ⁶						(Effect size=‡)				(Effect size=‡)	
1	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
2–5	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
6 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	40	10	55.98	40.33	91.13	-15.65*	-27.95	55.98	37.72	-18.26*	-32.62
Percentage of full-time, first-time degree/certificate-seeking students receiving institutional grant aid ⁶						(Effect size=‡)				(Effect size=‡)	
1–2	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
3–25	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
26 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	30	10	58.02	47.19	82.35	-10.83§	-18.67	58.02	48.71	-9.31	-16.04
Percentage of full-time, first-time degree/certificate-seeking students receiving student loan aid ⁶						(Effect size=‡)				(Effect size=‡)	
1–72	20	10	15.91	13.92	20.39	-1.99	-12.53	15.91	15.99	0.08	0.49
73–82	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
83–91	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
92 or more	20	10	29.76	28.67	32.20	-1.09	-3.65	29.76	29.22	-0.54	-1.81
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Average net price among full-time, first-time degree/certificate-seeking students receiving grant or scholarship aid ⁶						(Effect size=‡)				(Effect size=‡)	
\$1–\$16,523	20	10	35.75	23.30	63.71	-12.45§	-34.82	35.75	26.66	-9.09	-25.43
\$16,524–\$19,155	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$19,156–\$22,420	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$22,421 or more	20	10	24.14	20.53	32.25	-3.61	-14.96	24.14	20.37	-3.76	-15.59
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

**Table J-11. Institution-level nonresponse bias analysis for selected variables for private for-profit 2-year institutions: 2015–16—
Continued**

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Percentage of students enrolled who were Black, non-Hispanic ⁶						(Effect size=‡)				(Effect size=‡)	
0–4	20	10	34.49	30.63	43.17	-3.86	-11.20	34.49	34.12	-0.37	-1.09
5–15	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
16–40	20	10	27.80	24.74	34.68	-3.06	-11.01	27.80	23.18	-4.62	-16.62
41 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of students enrolled who were Asian or Pacific Islander, non-Hispanic ⁶						(Effect size=‡)				(Effect size=‡)	
0	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
1–2	30	10	25.74	24.98	27.45	-0.76	-2.96	25.74	23.10	-2.64	-10.25
3–4	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
5 or more	20	10	22.75	18.66	31.94	-4.09	-17.97	22.75	18.89	-3.87	-16.99
Percentage of students enrolled who were Hispanic ⁶						(Effect size=‡)				(Effect size=‡)	
0–5	20	10	44.15	39.99	53.49	-4.16	-9.41	44.15	39.61	-4.54	-10.28
6–14	20	10	24.97	25.55	23.65	0.59	2.35	24.97	25.28	0.31	1.25
15–37	20	10	17.64	17.35	18.30	-0.29	-1.66	17.64	17.30	-0.34	-1.92
38 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total undergraduate enrollment ⁶						(Effect size=‡)				(Effect size=‡)	
1–525	20	10	64.18	53.20	88.86	-10.98*	-17.11	64.18	54.52	-9.66	-15.05
526–891	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
892–1,460	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
1,461 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Male undergraduate enrollment ⁶						(Effect size=‡)				(Effect size=‡)	
1–107	20	10	48.21	42.82	60.34	-5.40	-11.19	48.21	44.51	-3.70	-7.67
108–234	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
235–602	20	10	22.32	17.68	32.73	-4.63	-20.76	22.32	18.90	-3.41	-15.30
603 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Female undergraduate enrollment ⁶						(Effect size=‡)				(Effect size=‡)	
1–188	20	10	49.50	39.21	72.61	-10.29§	-20.78	49.50	39.03	-10.47	-21.15
189–540	20	10	29.18	31.38	24.22	2.21	7.56	29.18	33.88	4.71	16.13
541–934	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
935 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-11. Institution-level nonresponse bias analysis for selected variables for private for-profit 2-year institutions: 2015–16—
Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Number of bachelor's degrees awarded ⁶						(Effect size=‡)				(Effect size=‡)	
0	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
3–4	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	90	20	99.60	99.43	100.00	-0.18	-0.18	99.60	99.46	-0.15	-0.15
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁶						(Effect size=‡)				(Effect size=‡)	
1–75	20	10	28.65	25.99	34.61	-2.65	-9.26	28.65	28.22	-0.42	-1.48
76–83	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
84–92	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
93 or more	20	10	31.17	24.92	45.19	-6.24	-20.03	31.17	26.20	-4.96	-15.92
Number of first-time, full-time undergraduate students living on campus ⁶						(Effect size=‡)				(Effect size=‡)	
0–39	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
68 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	100	20	98.15	97.49	99.64	-0.66	-0.67	98.15	97.55	-0.60	-0.61
Average amount of grant and scholarship aid received ⁶						(Effect size=‡)				(Effect size=‡)	
\$0–\$3,947	20	10	28.53	26.78	32.46	-1.75	-6.13	28.53	26.09	-2.44	-8.55
\$3,948–\$4,670	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$4,671–\$5,334	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$5,335 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

**Table J-11. Institution-level nonresponse bias analysis for selected variables for private for-profit 2-year institutions: 2015–16—
Continued**

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁶											
						(Effect size=‡)				(Effect size=‡)	
0–32	20	10	57.06	46.36	81.10	-10.70\$	-18.75	57.06	47.75	-9.31	-16.32
33–79	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
80–133	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
134 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

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

* $p < 0.05$.

§ $p < 0.05$ for difference between weighted respondent mean and weighted nonrespondent mean but not for estimated bias.

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

³ Institution base weight, adjusted for nonresponse.

⁴ 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).

⁵ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.

⁶ Categories were defined by quartiles.

NOTE: Sample sizes rounded to the nearest 10 and, therefore, may not sum to total. 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. "Base weight" refers to the institution sampling weight adjusted for field test sampling.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-12. Institution-level nonresponse bias analysis for selected variables for private for-profit 4-year institutions: 2015–16

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
2015 Carnegie Basic classification code						(Effect size=‡)				(Effect size=‡)	
Associate's	40	10	24.89	27.46	9.53	2.56§	10.30	24.89	26.39	1.50	6.03
Research and doctoral	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Master's	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Baccalaureate	30	10	12.40	9.64	28.92	-2.76*	-22.24	12.40	9.75	-2.65	-21.39
Special focus and other	80	10	29.57	27.59	41.43	-1.98	-6.69	29.57	27.55	-2.02	-6.83
Unavailable or unknown	60	10	25.76	27.06	17.98	1.30	5.04	25.76	28.45	2.69	10.44
Degree of urbanization						(Effect size=‡)				(Effect size=‡)	
Large city	90	10	32.77	30.55	46.07	-2.22	-6.77	32.77	29.65	-3.12	-9.52
Mid-size city	40	10	14.39	15.37	8.51	0.98	6.82	14.39	16.15	1.76	12.21
Small city	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Large suburb	70	20	38.83	40.70	27.67	1.86	4.80	38.83	40.97	2.13	5.50
Mid-size 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 or remote from town	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ⁵						(Effect size=‡)				(Effect size=‡)	
New England	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Mid East	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Great Lakes	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Plains	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southeast	60	20	25.91	25.09	30.80	-0.82	-3.15	25.91	27.60	1.70	6.54
Southwest	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	40	10	13.26	12.07	20.36	-1.19	-8.94	13.26	11.48	-1.78	-13.41
Outlying areas	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

**Table J-12. Institution-level nonresponse bias analysis for selected variables for private for-profit 4-year institutions: 2015–16—
Continued**

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Hispanic Serving Institution						(Effect size=#)				(Effect size=#)	
Yes	50	10	22.15	22.04	22.85	-0.12	-0.52	22.15	22.05	-0.10	-0.46
No	190	30	77.85	77.96	77.15	0.12	0.15	77.85	77.95	0.10	0.13
Percentage of full-time, first-time degree/certificate-seeking students receiving federal grant aid ⁶						(Effect size=‡)				(Effect size=‡)	
1–60	40	20	15.03	11.76	34.66	-3.28*	-21.80	15.03	12.18	-2.85*	-18.96
61–74	60	10	17.06	18.36	9.31	1.29	7.58	17.06	18.44	1.38	8.07
75–83	60	10	21.10	22.85	10.61	1.75	8.30	21.10	22.30	1.20	5.69
84 or more	60	10	30.53	32.67	17.70	2.14	7.02	30.53	32.04	1.51	4.94
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking students receiving state or local grant aid ⁶						(Effect size=‡)				(Effect size=‡)	
1–23	50	10	17.43	16.66	22.06	-0.77	-4.44	17.43	17.06	-0.37	-2.10
24 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	130	30	57.49	54.71	74.16	-2.78	-4.84	57.49	55.47	-2.03	-3.53
Percentage of full-time, first-time degree/certificate-seeking students receiving institutional grant aid ⁶						(Effect size=‡)				(Effect size=‡)	
1–23	40	20	25.46	24.87	28.99	-0.59	-2.32	25.46	23.87	-1.58	-6.22
24–67	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
68 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	80	20	42.92	40.48	57.56	-2.44	-5.69	42.92	42.26	-0.66	-1.54
Percentage of full-time, first-time degree/certificate-seeking students receiving student loan aid ⁶						(Effect size=‡)				(Effect size=‡)	
1–70	40	20	16.17	12.96	35.39	-3.21*	-19.84	16.17	14.22	-1.95	-12.08
71–82	60	10	26.18	29.01	9.27	2.82*	10.78	26.18	27.98	1.79	6.85
83–89	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
90 or more	50	10	24.56	25.37	19.70	0.81	3.30	24.56	24.52	-0.03	-0.13
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-12. Institution-level nonresponse bias analysis for selected variables for private for-profit 4-year institutions: 2015–16—
Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Average net price among full-time, first-time degree/certificate-seeking students receiving grant or scholarship aid ⁶						(Effect size=‡)				(Effect size=‡)	
\$1–\$18,736	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$18,737–\$22,925	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$22,926–\$25,540	50	10	21.20	21.14	21.52	-0.05	-0.25	21.20	21.34	0.15	0.68
\$25,541 or more	40	20	15.74	13.64	28.29	-2.10	-13.31	15.74	13.84	-1.90	-12.06
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of students enrolled who were Black, non-Hispanic ⁶						(Effect size=‡)				(Effect size=‡)	
0–9	60	10	25.20	25.26	24.87	0.06	0.22	25.20	24.35	-0.86	-3.40
10–19	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
20–37	70	10	27.58	30.77	8.45	3.19*	11.58	27.58	32.16	4.58*	16.60
38 or more	50	10	23.25	25.36	10.62	2.11§	9.07	23.25	25.93	2.67	11.49
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of students enrolled who were Asian or Pacific Islander, non-Hispanic ⁶						(Effect size=‡)				(Effect size=‡)	
0–1	70	10	37.86	40.36	22.90	2.50	6.60	37.86	41.78	3.92	10.36
2–3	80	10	28.17	31.45	8.53	3.28*	11.64	28.17	30.46	2.29	8.12
4–5	30	10	9.05	8.23	13.99	-0.82	-9.11	9.05	8.20	-0.85	-9.41
6 or more	60	10	18.55	19.96	10.06	1.42	7.64	18.55	19.56	1.01	5.44
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of students enrolled who were Hispanic ⁶						(Effect size=‡)				(Effect size=‡)	
0–4	60	10	28.93	30.30	20.74	1.37	4.73	28.93	30.83	1.90	6.57
5–9	60	10	21.02	22.71	10.91	1.69	8.03	21.02	22.54	1.52	7.23
10–21	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
22 or more	60	10	22.28	22.74	19.56	0.46	2.04	22.28	22.67	0.39	1.73
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-12. Institution-level nonresponse bias analysis for selected variables for private for-profit 4-year institutions: 2015–16—
Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Total undergraduate enrollment ⁶						(Effect size=‡)				(Effect size=‡)	
1–656	50	10	43.05	44.59	33.86	1.53	3.56	43.05	44.45	1.40	3.24
657–1,227	60	10	26.30	28.95	10.41	2.65§	10.08	26.30	28.83	2.52	9.59
1,228–2,474	60	10	14.48	14.36	15.15	-0.11	-0.78	14.48	14.48	#	0.03
2,475 or more	60	10	10.58	10.02	13.91	-0.56	-5.26	10.58	9.77	-0.81	-7.63
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Male undergraduate enrollment ⁶						(Effect size=‡)				(Effect size=‡)	
1–224	60	10	38.50	41.04	23.28	2.54	6.60	38.50	39.84	1.34	3.48
225–513	60	10	28.91	29.78	23.72	0.87	3.00	28.91	31.03	2.12	7.32
514–1,100	60	10	16.33	16.86	13.15	0.53	3.25	16.33	16.36	0.03	0.17
1,101 or more	60	10	10.66	10.24	13.19	-0.42	-3.96	10.66	10.29	-0.37	-3.45
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Female undergraduate enrollment ⁶						(Effect size=‡)				(Effect size=‡)	
1–312	50	10	39.69	41.74	27.43	2.05	5.16	39.69	42.20	2.51	6.32
313–699	60	10	26.62	27.84	19.31	1.22	4.58	26.62	27.31	0.70	2.62
700–1,503	60	10	17.39	18.41	11.31	1.02	5.84	17.39	18.29	0.90	5.15
1,504 or more	60	10	10.70	9.93	15.28	-0.77	-7.15	10.70	9.72	-0.98	-9.19
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Total graduate enrollment ⁶						(Effect size=‡)				(Effect size=‡)	
1–93	30	10	14.08	10.13	37.78	-3.96	-28.10	14.08	10.18	-3.91	-27.74
94–424	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
425–1,262	30	10	7.15	7.10	7.47	-0.05	-0.75	7.15	7.84	0.69	9.65
1,263 or more	30	10	5.55	5.41	6.37	-0.14	-2.46	5.55	5.49	-0.06	-1.00
None or unknown	110	20	64.77	68.75	40.95	3.98§	6.14	64.77	68.12	3.35	5.18
Male graduate enrollment ⁶						(Effect size=‡)				(Effect size=‡)	
1–36	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
37–167	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
168–532	30	10	6.72	6.60	7.43	-0.12	-1.77	6.72	7.16	0.44	6.52
533 or more	30	10	5.55	5.41	6.40	-0.14	-2.56	5.55	5.65	0.09	1.69
None or unknown	110	20	64.77	68.75	40.95	3.98§	6.14	64.77	68.12	3.35	5.18

See notes at end of table.

Table J-12. Institution-level nonresponse bias analysis for selected variables for private for-profit 4-year institutions: 2015–16—
Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Female graduate enrollment ⁶						(Effect size=‡)				(Effect size=‡)	
1–60	30	10	14.20	10.27	37.78	-3.94	-27.72	14.20	10.29	-3.91	-27.51
61–253	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
254–800	30	10	7.74	7.96	6.41	0.22	2.87	7.74	8.38	0.63	8.19
801 or more	30	10	5.55	5.23	7.43	-0.31	-5.66	5.55	5.33	-0.22	-3.95
None or unknown	110	20	64.77	68.75	40.95	3.98§	6.14	64.77	68.12	3.35	5.18
Number of bachelor's degrees awarded ⁶						(Effect size=‡)				(Effect size=‡)	
0–116	50	10	38.61	41.09	23.74	2.48	6.43	38.61	40.70	2.09	5.42
117–257	50	10	13.48	13.14	15.57	-0.35	-2.58	13.48	12.76	-0.72	-5.35
258–529	50	10	10.00	10.13	9.24	0.13	1.28	10.00	9.75	-0.25	-2.51
530 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	40	10	29.24	26.06	48.27	-3.18	-10.87	29.24	27.06	-2.18	-7.45
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁶						(Effect size=‡)				(Effect size=‡)	
1–75	40	20	17.07	13.89	36.11	-3.18*	-18.63	17.07	15.10	-1.97	-11.56
76–88	60	10	32.25	35.02	15.64	2.77§	8.60	32.25	33.94	1.70	5.26
89–95	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
96 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students living on campus ⁶						(Effect size=‡)				(Effect size=‡)	
0–32	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
33–50	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
51–99	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
100 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	200	40	91.02	90.83	92.14	-0.19	-0.21	91.02	91.35	0.34	0.37

See notes at end of table.

Table J-12. Institution-level nonresponse bias analysis for selected variables for private for-profit 4-year institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents	Unweighted non-respondents	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Average amount of grant and scholarship aid received ⁶						(Effect size=‡)				(Effect size=‡)	
\$0–\$4,371	40	20	27.50	26.60	32.90	-0.90	-3.28	27.50	26.86	-0.64	-2.34
\$4,372–\$5,234	50	10	19.52	20.41	14.23	0.88	4.52	19.52	20.35	0.82	4.22
\$5,235–\$6,392	60	10	21.40	22.63	14.00	1.23	5.77	21.40	22.03	0.63	2.97
\$6,393 or more	50	10	14.37	15.10	10.04	0.72	5.03	14.37	14.92	0.54	3.78
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁶						(Effect size=‡)				(Effect size=‡)	
0–12	50	10	20.98	20.30	25.09	-0.69	-3.27	20.98	20.90	-0.08	-0.40
13–33	50	20	27.04	26.19	32.16	-0.85	-3.16	27.04	25.63	-1.41	-5.23
34–91	50	10	25.28	27.72	10.67	2.44§	9.65	25.28	27.44	2.17	8.57
92 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

Rounds to zero.

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

* $p < 0.05$.

§ $p < 0.05$ for difference between weighted respondent mean and weighted nonrespondent mean but not for estimated bias.

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

³ Institution base weight, adjusted for nonresponse.

⁴ 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).

⁵ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.

⁶ Categories were defined by quartiles.

NOTE: Sample sizes rounded to the nearest 10 and, therefore, may not sum to total. 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. "Base weight" refers to the institution sampling weight adjusted for field test sampling.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-13. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for all institutions: 2015–16

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹	Full sample, base weighted	Respondents, adjusted for nonresponse and poststratification		
	(1)	(2)	(3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Control and level of institution					
Public less-than-2-year	‡	‡	‡	‡	‡
Public 2-year	15.08	15.03	15.74	-0.66*	-0.71
Public 4-year, non-doctorate-granting, primarily subbaccalaureate	1.43	1.41	1.65	-0.22*	-0.24*
Public 4-year, non-doctorate-granting, primarily baccalaureate	2.87	3.22	3.33	-0.46*	-0.11
Public 4-year doctorate-granting	5.19	4.97	5.46	-0.27*	-0.49*
Private nonprofit less-than-4-year	‡	‡	‡	‡	‡
Private nonprofit 4-year non-doctorate-granting	14.14	13.77	13.62	0.52	0.15
Private nonprofit 4-year doctorate-granting	8.94	8.94	8.68	0.26	0.26
Private for-profit less-than-2-year	25.52	24.90	21.74	3.78*	3.16
Private for-profit 2-year	11.05	12.44	12.64	-1.59*	-0.20
Private for-profit 4-year	8.99	9.02	9.35	-0.36*	-0.33
2015 Carnegie Basic classification code					
Associate's	24.67	24.48	26.18	-1.51*	-1.70
Research and doctoral	4.07	3.90	4.26	-0.19*	-0.36*
Master's	9.56	9.43	9.99	-0.43*	-0.56
Baccalaureate	10.19	9.80	10.57	-0.38	-0.77
Special focus and other	8.99	10.05	8.48	0.51*	1.57
Unavailable or unknown	42.52	42.34	40.52	2.00*	1.82
Degree of urbanization					
Large city	20.39	21.16	20.79	-0.40	0.37
Mid-size city	10.56	12.21	11.37	-0.81*	0.84
Small city	12.88	13.18	13.63	-0.75	-0.45
Large suburb	27.37	25.03	25.63	1.74	-0.60
Mid-size suburb	6.38	5.38	5.62	0.76	-0.24
Small suburb	‡	‡	‡	‡	‡
Urban area on fringe of town	1.43	1.43	1.50	-0.07	-0.07
Urban area distant from town	8.63	9.64	8.27	0.36	1.37
Urban area remote from town	4.41	4.10	4.69	-0.28*	-0.59
Rural area on fringe of town	4.73	4.60	5.07	-0.34*	-0.47
Rural area distant or remote from town	2.23	2.35	2.36	-0.13	-0.01

See notes at end of table.

Table J-13. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for all institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ²					
New England	5.43	5.49	5.00	0.43	0.49
Mid East	18.33	17.87	19.00	-0.67	-1.13
Great Lakes	11.80	12.81	11.93	-0.13	0.88
Plains	7.21	6.94	7.40	-0.19	-0.46
Southeast	25.29	24.66	24.19	1.10	0.47
Southwest	10.18	11.37	10.86	-0.68*	0.51
Rocky Mountains	6.95	6.99	6.54	0.41	0.45
Far West	13.15	12.46	13.31	-0.16	-0.85
Outlying areas	‡	‡	‡	‡	‡
Historically Black College or University					
Yes	‡	‡	‡	‡	‡
No or Unavailable or unknown	98.66	98.75	98.66	#	0.09
Hispanic Serving Institution					
Yes	17.26	17.68	17.38	-0.12	0.30
No	82.74	82.32	82.62	0.12	-0.30
Percentage of full-time, first-time degree/certificate-seeking students receiving federal grant aid ³					
1–33	12.03	12.97	12.56	-0.53*	0.41
34–49	18.25	18.06	17.48	0.77	0.58
50–68	25.02	23.23	25.00	0.02	-1.77
69 or more	34.70	35.53	35.33	-0.63	0.20
None or unknown	9.99	10.21	9.64	0.35	0.57
Percentage of full-time, first-time degree/certificate-seeking students receiving state or local grant aid ³					
1–6	16.37	13.61	15.89	0.48	-2.28*
7–25	22.06	18.64	21.97	0.09	-3.33*
26–47	15.34	15.22	16.22	-0.88*	-1.00
48 or more	14.46	14.96	15.44	-0.98*	-0.48
None or unknown	31.77	37.57	30.48	1.29	7.09*

See notes at end of table.

Table J-13. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for all institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹	Full sample, base weighted	Respondents, adjusted for nonresponse and poststratification		
	(1)	(2)	(3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of full-time, first-time degree/certificate-seeking students receiving institutional grant aid ²					
1–8	11.02	11.52	11.36	-0.34	0.16
9–42	23.72	23.66	24.07	-0.35	-0.41
43–81	17.16	15.54	16.88	0.28	-1.34
82 or more	13.67	13.21	14.00	-0.33	-0.79
None or unknown	34.42	36.07	33.68	0.74	2.39
Percentage of full-time, first-time degree/certificate-seeking students receiving student loan aid ³					
1–33	13.04	11.98	13.42	-0.38	-1.44*
34–59	16.37	16.00	16.66	-0.29	-0.66
60–77	19.76	19.07	19.48	0.28	-0.41
78 or more	35.61	33.13	35.11	0.50	-1.98
None or unknown	15.23	19.82	15.33	-0.10	4.49*
Average net price among full-time, first-time degree/certificate-seeking students receiving grant or scholarship aid ⁴					
\$1–\$9,193	20.99	24.22	21.55	-0.56	2.67
\$9,194–\$15,752	31.79	27.94	29.36	2.43*	-1.42
\$15,753–\$22,537	21.87	21.70	23.31	-1.44*	-1.61
\$22,538 or more	15.28	15.66	16.04	-0.76*	-0.38
None or unknown	10.07	10.49	9.74	0.33	0.75
Percentage of students enrolled who were Black, non-Hispanic ³					
0–4	30.38	33.36	30.93	-0.55	2.43
5–8	17.28	16.22	17.10	0.18	-0.88
9–18	23.07	22.91	22.63	0.44	0.28
19 or more	29.28	27.51	29.33	-0.05	-1.82
Percentage of students enrolled who were Asian or Pacific Islander, non-Hispanic ³					
0–1	45.33	45.00	44.47	0.86	0.53
2–3	29.20	27.19	29.54	-0.34	-2.35
4–6	9.91	11.43	10.22	-0.31	1.21
7 or more	15.56	16.37	15.77	-0.21	0.60

See notes at end of table.

Table J-13. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for all institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of students enrolled who were Hispanic ³					
0–4	37.80	38.23	37.51	0.29	0.72
5–8	18.12	18.37	18.30	-0.18	0.07
9–19	18.76	19.04	19.74	-0.98*	-0.70
20 or more	25.31	24.36	24.44	0.87	-0.08
Total undergraduate enrollment ³					
1–1,362	63.74	63.49	61.87	1.87*	1.62
1,363–4,169	15.34	14.86	16.38	-1.04*	-1.52*
4,170–12,767	11.25	11.00	11.89	-0.64*	-0.89*
12,768 or more	7.56	7.42	7.90	-0.34*	-0.48
None or unknown	2.12	3.24	1.96	0.16	1.28
Male undergraduate enrollment ³					
1–529	62.51	62.29	60.44	2.07*	1.85
530–1,798	16.25	15.72	17.51	-1.26*	-1.79*
1,799–5,551	11.49	11.26	12.11	-0.62*	-0.85
5,552 or more	7.64	7.49	7.98	-0.34*	-0.49
None or unknown	2.12	3.24	1.96	0.16	1.28
Female undergraduate enrollment ³					
1–795	62.62	62.41	60.75	1.87*	1.66
796–2,348	16.54	16.00	17.64	-1.10*	-1.64*
2,349–7,067	11.04	10.81	11.63	-0.59*	-0.82
7,068 or more	7.68	7.53	8.02	-0.34*	-0.49
None or unknown	2.12	3.24	1.96	0.16	1.28
Total graduate enrollment ³					
1–501	12.47	12.56	12.24	0.23	0.32
502–1,425	6.91	6.75	6.93	-0.02	-0.18
1,426–3,625	4.68	4.56	4.92	-0.24*	-0.36
3,626 or more	3.99	3.91	4.21	-0.22*	-0.30
None or unknown	71.96	72.22	71.69	0.27	0.53

See notes at end of table.

Table J-13. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for all institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹	Full sample, base weighted	Respondents, adjusted for nonresponse and poststratification		
	(1)	(2)	(3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Male graduate enrollment ³					
1–158	12.53	12.68	12.31	0.22	0.37
159–504	6.45	6.39	6.55	-0.10	-0.16
505–1,366	4.97	4.74	5.15	-0.18	-0.41
1,367 or more	4.08	3.97	4.30	-0.22*	-0.33
None or unknown	71.96	72.22	71.69	0.27	0.53
Female graduate enrollment ³					
1–285	12.51	12.79	12.29	0.22	0.50
286–882	7.02	6.65	7.05	-0.03	-0.40
883–2,153	4.46	4.40	4.69	-0.23*	-0.29
2,154 or more	4.06	3.94	4.28	-0.22*	-0.34*
None or unknown	71.96	72.22	71.69	0.27	0.53
Number of bachelor's degrees awarded ³					
0–472	18.16	17.01	17.68	0.48	-0.67
473–1,264	8.38	8.09	8.94	-0.56*	-0.85*
1,265–3,341	5.57	5.36	5.89	-0.32*	-0.53*
3,342 or more	4.62	4.47	4.84	-0.22*	-0.37*
Unknown	63.28	65.07	62.66	0.62	2.41
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ³					
1–67	22.71	23.95	21.61	1.10	2.34
68–83	23.25	21.97	23.98	-0.73	-2.01
84–95	27.03	25.06	27.02	0.01	-1.96
96 or more	17.45	19.12	18.17	-0.72	0.95
None or unknown	9.56	9.91	9.21	0.35	0.70
Number of first-time, full-time undergraduate students living on campus ³					
0–188	13.27	12.80	13.25	0.02	-0.45
189–424	7.13	6.76	7.47	-0.34*	-0.71*
425–819	4.56	4.49	4.86	-0.30*	-0.37
820 or more	3.80	3.66	3.99	-0.19*	-0.33*
Unknown	71.24	72.30	70.42	0.82	1.88

See notes at end of table.

Table J-13. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for all institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Average amount of grant and scholarship aid received ³					
\$0–\$4,744	33.75	33.90	33.55	0.20	0.35
\$4,745–\$6,192	28.17	28.85	28.15	0.02	0.70
\$6,193–\$11,968	15.84	15.24	16.06	-0.22	-0.82
\$11,969 or more	12.25	11.57	12.57	-0.32	-1.00*
Unknown	10.00	10.43	9.67	0.33	0.76
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ³					
0–47	48.76	49.60	46.54	2.22*	3.06
48–116	19.15	19.07	20.39	-1.24*	-1.32
117–308	14.09	13.25	14.94	-0.85*	-1.69*
309 or more	8.00	7.72	8.44	-0.44*	-0.72*
Unknown	10.00	10.38	9.68	0.32	0.70

Rounds to zero.

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

* $p < 0.05$.¹ Institution base weight, adjusted for nonresponse.

² New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.

³ Categories were defined by quartiles.

NOTE: Sample sizes rounded to the nearest 10 and, therefore, may not sum to total. "Base weight" refers to the institution sampling weight adjusted for field test sampling.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-14. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for public less-than-2-year institutions: 2015–16

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹	Full sample, base weighted	Respondents, adjusted for nonresponse and poststratification		
	(1)	(2)	(3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Degree of urbanization					
Large city	†	†	†	†	†
Mid-size city	†	†	†	†	†
Small city	†	†	†	†	†
Large suburb	†	†	†	†	†
Mid-size 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 or remote from town	†	†	†	†	†
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ²					
New England	†	†	†	†	†
Mid East	†	†	†	†	†
Great Lakes	†	†	†	†	†
Plains	†	†	†	†	†
Southeast	†	†	†	†	†
Southwest	†	†	†	†	†
Rocky Mountains	†	†	†	†	†
Far West	†	†	†	†	†
Outlying areas	†	†	†	†	†
Hispanic Serving Institution					
Yes	†	†	†	†	†
No	†	†	†	†	†

See notes at end of table.

Table J-14. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for public less-than-2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of full-time, first-time degree/certificate-seeking students receiving federal grant aid ³					
1–52	†	†	†	†	†
53–69	†	†	†	†	†
70–86	†	†	†	†	†
87 or more	†	†	†	†	†
None or unknown	†	†	†	†	†
Percentage of full-time, first-time degree/certificate-seeking students receiving state or local grant aid ³					
1–8	†	†	†	†	†
9–24	†	†	†	†	†
25–55	†	†	†	†	†
56 or more	†	†	†	†	†
None or unknown	†	†	†	†	†
Percentage of full-time, first-time degree/certificate-seeking students receiving institutional grant aid ³					
1–4	†	†	†	†	†
5–22	†	†	†	†	†
23 or more	†	†	†	†	†
None or unknown	†	†	†	†	†
Percentage of full-time, first-time degree/certificate-seeking students receiving student loan aid ³					
1–57	†	†	†	†	†
58 or more	†	†	†	†	†
None or unknown	†	†	†	†	†

See notes at end of table.

Table J-14. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for public less-than-2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹	Full sample, base weighted	Respondents, adjusted for nonresponse and poststratification		
	(1)	(2)	(3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Average net price among full-time, first-time degree/certificate-seeking students receiving grant or scholarship aid ³					
\$1–\$3,498	†	†	†	†	†
\$3,499–\$7,430	†	†	†	†	†
\$7,431–\$10,807	†	†	†	†	†
\$10,808 or more	†	†	†	†	†
None or unknown	†	†	†	†	†
Percentage of students enrolled who were Black, non-Hispanic ³					
0–3	†	†	†	†	†
4–5	†	†	†	†	†
6–13	†	†	†	†	†
14 or more	†	†	†	†	†
Percentage of students enrolled who were Asian or Pacific Islander, non-Hispanic ³					
0	†	†	†	†	†
1	†	†	†	†	†
2	†	†	†	†	†
3 or more	†	†	†	†	†
Percentage of students enrolled who were Hispanic ³					
0–2	†	†	†	†	†
3–5	†	†	†	†	†
6–9	†	†	†	†	†
10 or more	†	†	†	†	†
Total undergraduate enrollment ³					
1–292	†	†	†	†	†
293–734	†	†	†	†	†
735–1,035	†	†	†	†	†
1,036 or more	†	†	†	†	†

See notes at end of table.

Table J-14. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for public less-than-2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Male undergraduate enrollment ²					
1–118	†	†	†	†	†
119–256	†	†	†	†	†
257–691	†	†	†	†	†
692 or more	†	†	†	†	†
Female undergraduate enrollment ²					
1–167	†	†	†	†	†
168–302	†	†	†	†	†
303–552	†	†	†	†	†
553 or more	†	†	†	†	†
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ³					
1–60	†	†	†	†	†
61–82	†	†	†	†	†
83–91	†	†	†	†	†
92 or more	†	†	†	†	†
None or unknown	†	†	†	†	†
Number of first-time, full-time undergraduate students living on campus ³					
0–85	†	†	†	†	†
Unknown	†	†	†	†	†

See notes at end of table.

Table J-14. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for public less-than-2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Average amount of grant and scholarship aid received ³					
\$0–\$3,601	‡	‡	‡	‡	‡
\$3,602–\$4,071	‡	‡	‡	‡	‡
\$4,072–\$5,407	‡	‡	‡	‡	‡
\$5,408 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ³					
0–6	‡	‡	‡	‡	‡
7–22	‡	‡	‡	‡	‡
23–40	‡	‡	‡	‡	‡
41 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡

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

¹ Institution base weight, adjusted for nonresponse.

² New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.

³ Categories were defined by quartiles.

NOTE: Sample sizes rounded to the nearest 10 and, therefore, may not sum to total. "Base weight" refers to the institution sampling weight adjusted for field test sampling.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-15. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for public 2-year institutions: 2015–16

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹	Full sample, base weighted	Respondents, adjusted for nonresponse and poststratification		
	(1)	(2)	(3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Degree of urbanization					
Large city	8.47	8.24	8.48	-0.01*	-0.24
Mid-size city	7.56	7.37	7.56	#*	-0.19
Small city	‡	‡	‡	‡	‡
Large suburb	12.02	12.43	12.03	-0.01*	0.40
Mid-size suburb	5.02	4.17	5.02	#	-0.85
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 or remote from town	‡	‡	‡	‡	‡
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ²					
New England	‡	‡	‡	‡	‡
Mid East	9.76	8.68	9.76	#	-1.08
Great Lakes	10.11	9.90	10.12	-0.01*	-0.22
Plains	‡	‡	‡	‡	‡
Southeast	22.02	31.08	22.02	#	9.06*
Southwest	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡
Far West	13.53	13.39	13.53	#*	-0.14
Outlying areas	‡	‡	‡	‡	‡
Historically Black College or University					
Yes	‡	‡	‡	‡	‡
No or Unavailable or unknown	99.60	99.62	99.60	#	0.02

See notes at end of table.

Table J-15. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for public 2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Hispanic Serving Institution					
Yes	17.31	23.03	17.31	#*	5.72
No	82.69	76.97	82.69	#*	-5.72
Percentage of full-time, first-time degree/certificate-seeking students receiving federal grant aid ³					
1–46	21.69	23.54	21.69	#	1.85
47–55	23.35	21.77	23.35	#	-1.58
56–64	30.48	25.15	30.48	#	-5.33
65 or more	23.98	29.18	23.98	#	5.20
None or unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking students receiving state or local grant aid ³					
1–18	33.11	29.83	33.11	#	-3.28
19–32	21.00	25.16	21.00	#	4.16
33–58	25.50	25.60	25.50	#	0.10
59 or more	17.19	16.36	17.19	#*	-0.83
None or unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking students receiving institutional grant aid ³					
1–2	6.34	9.57	6.34	#*	3.23
3–7	15.68	14.64	15.68	#*	-1.04
8–18	17.64	22.20	17.64	#	4.56
19 or more	49.79	43.38	49.78	0.01*	-6.40
None or unknown	10.55	10.21	10.55	#*	-0.34
Percentage of full-time, first-time degree/certificate-seeking students receiving student loan aid ³					
1–3	9.73	9.58	9.74	-0.01*	-0.16
4–17	19.39	17.81	19.39	#*	-1.58
18–34	26.55	23.88	26.55	#	-2.67
35 or more	24.97	24.43	24.97	#	-0.54
None or unknown	19.36	24.30	19.36	#	4.94

See notes at end of table.

Table J-15. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for public 2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Average net price among full-time, first-time degree/certificate-seeking students receiving grant or scholarship aid ³					
\$1–\$5,931	16.54	21.51	16.54	#*	4.97
\$5,932–\$7,171	22.07	20.27	22.07	#	-1.80
\$7,172–\$8,586	26.47	26.13	26.47	#	-0.34
\$8,587 or more	34.42	31.72	34.42	#	-2.70
None or unknown	‡	‡	‡	‡	‡
Percentage of students enrolled who were Black, non-Hispanic ³					
0–4	28.22	26.40	28.22	#	-1.82
5–8	22.10	21.25	22.10	#	-0.85
9–17	14.64	21.60	14.65	-0.01*	6.95
18 or more	34.53	30.38	34.53	#	-4.15
Unknown	‡	‡	‡	‡	‡
Percentage of students enrolled who were Asian or Pacific Islander, non-Hispanic ³					
0–2	50.27	56.12	50.27	#	5.85
3	18.69	14.58	18.69	#	-4.11
4–7	13.50	13.87	13.50	#*	0.37
8 or more	17.04	15.06	17.04	#	-1.98
Unknown	‡	‡	‡	‡	‡
Percentage of students enrolled who were Hispanic ³					
0–6	33.42	35.66	33.42	#	2.24
7–14	‡	‡	‡	‡	‡
15–32	24.92	22.99	24.92	#	-1.93
33 or more	12.02	17.33	12.03	-0.01*	5.30
Unknown	‡	‡	‡	‡	‡
Total undergraduate enrollment ³					
1–8,053	62.78	63.32	62.77	0.01*	0.55
8,054–13,926	17.39	17.34	17.39	#*	-0.05
13,927–23,795	11.34	10.86	11.34	#*	-0.48
23,796 or more	8.49	8.49	8.49	#*	#

See notes at end of table.

Table J-15. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for public 2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Male undergraduate enrollment ³					
1–3,271	62.32	63.12	62.31	0.01*	0.81
3,272–6,162	17.83	17.25	17.83	#*	-0.58
6,163–10,660	11.10	11.06	11.11	-0.01*	-0.05
10,661 or more	8.75	8.56	8.75	#*	-0.19
Female undergraduate enrollment ³					
1–4,705	62.40	62.97	62.39	0.01*	0.58
4,706–7,675	17.96	17.54	17.96	#*	-0.42
7,676–13,227	10.93	11.01	10.94	-0.01*	0.07
13,228 or more	8.71	8.49	8.71	#*	-0.22
Number of bachelor's degrees awarded ³					
0	‡	‡	‡	‡	‡
1–36	‡	‡	‡	‡	‡
Unknown	99.47	99.54	99.47	#	0.07
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ³					
1–59	13.71	16.89	13.71	#*	3.18
60–70	18.44	16.83	18.45	-0.01*	-1.62
71–81	22.28	24.30	22.28	#	2.02
82 or more	45.07	41.62	45.07	#*	-3.45
None or unknown	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students living on campus ³					
0–34	‡	‡	‡	‡	‡
35–97	‡	‡	‡	‡	‡
98–182	‡	‡	‡	‡	‡
183 or more	‡	‡	‡	‡	‡
Unknown	70.64	73.13	70.64	#	2.49

See notes at end of table.

Table J-15. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for public 2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Average amount of grant and scholarship aid received ²					
\$0–\$4,382	32.43	30.19	32.42	0.01	-2.23
\$4,383–\$4,761	16.35	17.04	16.35	#*	0.69
\$4,762–\$5,147	21.01	24.52	21.01	#	3.51
\$5,148 or more	29.72	27.88	29.72	#	-1.84
Unknown	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ³					
0–148	54.05	56.39	54.04	0.01*	2.35
149–277	21.78	19.86	21.79	-0.01*	-1.93
278–505	12.55	12.89	12.55	#*	0.34
506 or more	11.12	10.48	11.12	#*	-0.64

Rounds to zero.

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

* $p < 0.05$.¹ Institution base weight, adjusted for nonresponse.

² New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.

³ Categories were defined by quartiles.

NOTE: Sample sizes rounded to the nearest 10 and, therefore, may not sum to total. "Base weight" refers to the institution sampling weight adjusted for field test sampling.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-16. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2015–16

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹	Full sample, base weighted	Respondents, adjusted for nonresponse and poststratification		
	(1)	(2)	(3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
2015 Carnegie Basic classification code					
Associate's	†	†	†	†	†
Research and doctoral	†	†	†	†	†
Master's	†	†	†	†	†
Baccalaureate	†	†	†	†	†
Special focus and other	†	†	†	†	†
Unavailable or unknown	†	†	†	†	†
Degree of urbanization					
Large city	†	†	†	†	†
Mid-size city	†	†	†	†	†
Small city	†	†	†	†	†
Large suburb	†	†	†	†	†
Mid-size 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 or remote from town	†	†	†	†	†
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ²					
New England	†	†	†	†	†
Mid East	†	†	†	†	†
Great Lakes	†	†	†	†	†
Plains	†	†	†	†	†
Southeast	†	†	†	†	†
Southwest	†	†	†	†	†
Rocky Mountains	†	†	†	†	†
Far West	†	†	†	†	†
Outlying areas	†	†	†	†	†

See notes at end of table.

Table J-16. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Hispanic Serving Institution					
Yes	‡	‡	‡	‡	‡
No	83.94	85.70	84.79	-0.85	0.91
Percentage of full-time, first-time degree/certificate-seeking students receiving federal grant aid ³					
1–44	‡	‡	‡	‡	‡
45–56	‡	‡	‡	‡	‡
57–64	‡	‡	‡	‡	‡
65 or more	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking students receiving state or local grant aid ³					
1–14	‡	‡	‡	‡	‡
15–29	‡	‡	‡	‡	‡
30–44	‡	‡	‡	‡	‡
45 or more	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking students receiving institutional grant aid ³					
1–12	‡	‡	‡	‡	‡
13–21	‡	‡	‡	‡	‡
22–38	‡	‡	‡	‡	‡
39 or more	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking students receiving student loan aid ³					
1–13	‡	‡	‡	‡	‡
14–26	‡	‡	‡	‡	‡
27–59	‡	‡	‡	‡	‡
60 or more	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table J-16. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Average net price among full-time, first-time degree/certificate-seeking students receiving grant or scholarship aid ³					
\$1–\$6,842	†	†	†	†	†
\$6,843–\$8,622	†	†	†	†	†
\$8,623–\$10,622	†	†	†	†	†
\$10,623 or more	†	†	†	†	†
Percentage of students enrolled who were Black, non-Hispanic ³					
0–3	†	†	†	†	†
4–7	†	†	†	†	†
8–14	†	†	†	†	†
15 or more	†	†	†	†	†
Percentage of students enrolled who were Asian or Pacific Islander, non-Hispanic ³					
0–1	†	†	†	†	†
2	†	†	†	†	†
3	†	†	†	†	†
4 or more	†	†	†	†	†
Percentage of students enrolled who were Hispanic ³					
0–3	†	†	†	†	†
4–8	†	†	†	†	†
9–18	†	†	†	†	†
19 or more	†	†	†	†	†
Total undergraduate enrollment ³					
1–3,722	†	†	†	†	†
3,723–7,149	†	†	†	†	†
7,150–19,774	†	†	†	†	†
19,775 or more	†	†	†	†	†
Male undergraduate enrollment ³					
1–1,547	†	†	†	†	†
1,548–3,228	†	†	†	†	†
3,229–8,084	†	†	†	†	†
8,085 or more	†	†	†	†	†

See notes at end of table.

Table J-16. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Female undergraduate enrollment ²					
1–2,255	‡	‡	‡	‡	‡
2,256–4,416	‡	‡	‡	‡	‡
4,417–10,517	‡	‡	‡	‡	‡
10,518 or more	‡	‡	‡	‡	‡
Total graduate enrollment ²					
1–14	‡	‡	‡	‡	‡
15–38	‡	‡	‡	‡	‡
39–79	‡	‡	‡	‡	‡
80 or more	‡	‡	‡	‡	‡
None or unknown	78.20	79.34	76.22	1.98*	3.12
Male graduate enrollment ²					
1–3	‡	‡	‡	‡	‡
4–7	‡	‡	‡	‡	‡
8–31	‡	‡	‡	‡	‡
32 or more	‡	‡	‡	‡	‡
None or unknown	78.20	79.34	76.22	1.98*	3.12
Female graduate enrollment ²					
1–9	‡	‡	‡	‡	‡
10–31	‡	‡	‡	‡	‡
32–55	‡	‡	‡	‡	‡
56 or more	‡	‡	‡	‡	‡
None or unknown	78.20	79.34	76.22	1.98*	3.12
Number of bachelor's degrees awarded ³					
0–90	‡	‡	‡	‡	‡
91–230	‡	‡	‡	‡	‡
231–594	‡	‡	‡	‡	‡
595 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table J-16. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ²					
1–63	‡	‡	‡	‡	‡
64–73	‡	‡	‡	‡	‡
74–82	‡	‡	‡	‡	‡
83 or more	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students living on campus ²					
0–59	‡	‡	‡	‡	‡
60–193	‡	‡	‡	‡	‡
194–424	‡	‡	‡	‡	‡
425 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Average amount of grant and scholarship aid received ²					
\$0–\$4,381	‡	‡	‡	‡	‡
\$4,382–\$4,960	‡	‡	‡	‡	‡
\$4,961–\$5,727	‡	‡	‡	‡	‡
\$5,728 or more	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ²					
0–94	‡	‡	‡	‡	‡
95–234	‡	‡	‡	‡	‡
235–398	‡	‡	‡	‡	‡
399 or more	‡	‡	‡	‡	‡

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

* $p < 0.05$.¹ Institution base weight, adjusted for nonresponse.

² New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.

³ Categories were defined by quartiles.

NOTE: Sample sizes rounded to the nearest 10 and, therefore, may not sum to total. "Base weight" refers to the institution sampling weight adjusted for field test sampling.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-17. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2015–16

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹	Full sample, base weighted	Respondents, adjusted for nonresponse and poststratification		
	(1)	(2)	(3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
2015 Carnegie Basic classification code					
Associate's	†	†	†	†	†
Research and doctoral	†	†	†	†	†
Master's	52.81	49.51	49.40	3.41*	0.11
Baccalaureate	†	†	†	†	†
Special focus and other	†	†	†	†	†
Unavailable or unknown	†	†	†	†	†
Degree of urbanization					
Large city	†	†	†	†	†
Mid-size city	†	†	†	†	†
Small city	†	†	†	†	†
Large suburb	†	†	†	†	†
Mid-size 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 or remote from town	†	†	†	†	†
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ²					
New England	†	†	†	†	†
Mid East	†	†	†	†	†
Great Lakes	†	†	†	†	†
Plains	†	†	†	†	†
Southeast	†	†	†	†	†
Southwest	†	†	†	†	†
Rocky Mountains	†	†	†	†	†
Far West	†	†	†	†	†
Outlying areas	†	†	†	†	†

See notes at end of table.

Table J-17. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Historically Black College or University					
Yes	‡	‡	‡	‡	‡
No or Unavailable or unknown	96.58	94.02	95.91	0.67	-1.89
Hispanic Serving Institution					
Yes	‡	‡	‡	‡	‡
No	84.90	87.49	85.17	-0.27	2.32
Percentage of full-time, first-time degree/certificate-seeking students receiving federal grant aid ³					
1–34	‡	‡	‡	‡	‡
35–41	‡	‡	‡	‡	‡
42–52	‡	‡	‡	‡	‡
53 or more	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking students receiving state or local grant aid ³					
1–32	20.84	35.82	19.01	1.83*	16.81
33–49	‡	‡	‡	‡	‡
50–63	‡	‡	‡	‡	‡
64 or more	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking students receiving institutional grant aid ³					
1–34	‡	‡	‡	‡	‡
35–47	‡	‡	‡	‡	‡
48–63	‡	‡	‡	‡	‡
64 or more	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table J-17. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of full-time, first-time degree/certificate-seeking students receiving student loan aid ³					
1–40	‡	‡	‡	‡	‡
41–55	‡	‡	‡	‡	‡
56–67	‡	‡	‡	‡	‡
68 or more	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡
Average net price among full-time, first-time degree/certificate-seeking students receiving grant or scholarship aid ³					
\$1–\$9,053	‡	‡	‡	‡	‡
\$9,054–\$12,833	‡	‡	‡	‡	‡
\$12,834–\$15,313	‡	‡	‡	‡	‡
\$15,314 or more	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡
Percentage of students enrolled who were Black, non-Hispanic ³					
0–3	‡	‡	‡	‡	‡
4–6	23.73	35.86	23.96	-0.23	11.90
7–10	‡	‡	‡	‡	‡
11 or more	‡	‡	‡	‡	‡
Percentage of students enrolled who were Asian or Pacific Islander, non-Hispanic ³					
0–1	‡	‡	‡	‡	‡
2–3	‡	‡	‡	‡	‡
4–5	‡	‡	‡	‡	‡
6 or more	‡	‡	‡	‡	‡
Percentage of students enrolled who were Hispanic ³					
0–5	‡	‡	‡	‡	‡
6–9	‡	‡	‡	‡	‡
10–17	‡	‡	‡	‡	‡
18 or more	‡	‡	‡	‡	‡

See notes at end of table.

Table J-17. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹	Full sample, base weighted	Respondents, adjusted for nonresponse and poststratification		
	(1)	(2)	(3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Total undergraduate enrollment ³					
1–5,169	†	†	†	†	†
5,170–7,471	†	†	†	†	†
7,472–12,353	†	†	†	†	†
12,354 or more	†	†	†	†	†
Male undergraduate enrollment ³					
1–2,235	†	†	†	†	†
2,236–3,017	†	†	†	†	†
3,018–5,384	†	†	†	†	†
5,385 or more	†	†	†	†	†
Female undergraduate enrollment ³					
1–2,934	†	†	†	†	†
2,935–4,323	†	†	†	†	†
4,324–7,024	†	†	†	†	†
7,025 or more	†	†	†	†	†
Total graduate enrollment ³					
1–435	†	†	†	†	†
436–1,138	†	†	†	†	†
1,139–2,217	†	†	†	†	†
2,218 or more	†	†	†	†	†
None or unknown	†	†	†	†	†
Male graduate enrollment ³					
1–128	†	†	†	†	†
129–366	†	†	†	†	†
367–645	†	†	†	†	†
646 or more	†	†	†	†	†
None or unknown	†	†	†	†	†

See notes at end of table.

Table J-17. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Female graduate enrollment ²					
1–292	†	†	†	†	†
293–716	†	†	†	†	†
717–1,534	†	†	†	†	†
1,535 or more	†	†	†	†	†
None or unknown	†	†	†	†	†
Number of bachelor's degrees awarded ³					
0–1,590	†	†	†	†	†
1,591–2,608	†	†	†	†	†
2,609–3,970	†	†	†	†	†
3,971 or more	†	†	†	†	†
Unknown	†	†	†	†	†
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ³					
1–66	†	†	†	†	†
67–77	†	†	†	†	†
78–87	†	†	†	†	†
88 or more	†	†	†	†	†
None or unknown	†	†	†	†	†
Number of first-time, full-time undergraduate students living on campus ³					
0–237	†	†	†	†	†
238–482	†	†	†	†	†
483–710	†	†	†	†	†
711 or more	†	†	†	†	†
Unknown	†	†	†	†	†

See notes at end of table.

Table J-17. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Average amount of grant and scholarship aid received ³					
\$0–\$5,547	‡	‡	‡	‡	‡
\$5,548–\$6,971	‡	‡	‡	‡	‡
\$6,972–\$7,744	‡	‡	‡	‡	‡
\$7,745 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ³					
0–107	‡	‡	‡	‡	‡
108–193	‡	‡	‡	‡	‡
194–321	‡	‡	‡	‡	‡
322 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡

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

* $p < 0.05$.¹ Institution base weight, adjusted for nonresponse.

² New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.

³ Categories were defined by quartiles.

NOTE: Sample sizes rounded to the nearest 10 and, therefore, may not sum to total. "Base weight" refers to the institution sampling weight adjusted for field test sampling.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-18. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for public 4-year, doctorate-granting institutions: 2015–16

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹	Full sample, base weighted	Respondents, adjusted for nonresponse and poststratification		
	(1)	(2)	(3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
2015 Carnegie Basic classification code					
Associate's	‡	‡	‡	‡	‡
Research and doctoral	47.97	48.50	47.84	0.13*	0.66
Master's	38.20	39.17	38.27	-0.07*	0.90
Baccalaureate	‡	‡	‡	‡	‡
Special focus and other	‡	‡	‡	‡	‡
Unavailable or unknown	‡	‡	‡	‡	‡
Degree of urbanization					
Large city	23.03	23.97	23.01	0.02	0.96
Mid-size city	18.78	18.74	18.78	#	-0.04
Small city	19.09	19.57	19.07	0.02	0.50
Large suburb	‡	‡	‡	‡	‡
Mid-size 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 or remote from town	‡	‡	‡	‡	‡
Bureau of Economic Analysis Code (Office of Business Economics [OBE])					
Region ²					
New England	‡	‡	‡	‡	‡
Mid East	14.72	14.37	14.75	-0.03*	-0.38
Great Lakes	‡	‡	‡	‡	‡
Plains	‡	‡	‡	‡	‡
Southeast	‡	‡	‡	‡	‡
Southwest	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡
Far West	‡	‡	‡	‡	‡
Outlying areas	‡	‡	‡	‡	‡

See notes at end of table.

Table J-18. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for public 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Historically Black College or University					
Yes	‡	‡	‡	‡	‡
No or Unavailable or unknown	93.70	93.66	93.67	0.03*	-0.01
Hispanic Serving Institution					
Yes	‡	‡	‡	‡	‡
No	88.61	88.15	88.62	-0.01	-0.47
Percentage of full-time, first-time degree/certificate-seeking students receiving federal grant aid ³					
1–28	24.85	25.00	24.79	0.06*	0.21
29–39	24.53	24.09	24.51	0.02*	-0.42
40–49	18.16	19.01	18.16	#	0.85
50 or more	22.13	22.79	22.17	-0.04*	0.62
None or unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking students receiving state or local grant aid ³					
1–21	23.37	23.61	23.36	0.01	0.25
22–36	21.82	21.49	21.81	0.01	-0.32
37–58	23.12	23.74	23.12	#	0.62
59 or more	20.81	21.49	20.79	0.02	0.70
None or unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking students receiving institutional grant aid ³					
1–37	21.44	22.35	21.45	-0.01	0.90
38–52	23.11	23.44	23.08	0.03*	0.36
53–64	21.14	21.84	21.12	0.02	0.72
65 or more	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table J-18. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for public 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of full-time, first-time degree/certificate-seeking students receiving student loan aid ³					
1–43	23.02	24.37	22.97	0.05*	1.40
44–54	‡	‡	‡	‡	‡
55–66	22.60	22.67	22.61	-0.01	0.06
67 or more	21.97	22.09	22.01	-0.04*	0.08
None or unknown	‡	‡	‡	‡	‡
Average net price among full-time, first-time degree/certificate-seeking students receiving grant or scholarship aid ³					
\$1–\$11,388	20.93	22.79	20.93	#	1.86*
\$11,389–\$13,472	‡	‡	‡	‡	‡
\$13,473–\$15,708	22.03	22.60	22.01	0.02	0.59
\$15,709 or more	23.07	22.64	23.04	0.03*	-0.40
None or unknown	‡	‡	‡	‡	‡
Percentage of students enrolled who were Black, non-Hispanic ³					
0–4	34.01	33.62	34.00	0.01	-0.38
5–7	19.41	19.57	19.38	0.03*	0.19
8–14	‡	‡	‡	‡	‡
15 or more	24.06	24.17	24.10	-0.04*	0.07
Unknown	‡	‡	‡	‡	‡
Percentage of students enrolled who were Asian or Pacific Islander, non-Hispanic ³					
0–2	39.20	39.63	39.25	-0.05*	0.38
3	‡	‡	‡	‡	‡
4–8	27.11	27.02	27.08	0.03*	-0.06
9 or more	20.90	21.22	20.88	0.02	0.34
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table J-18. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for public 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of students enrolled who were Hispanic ³					
0–4	38.76	37.15	38.80	-0.04*	-1.65*
5–6	‡	‡	‡	‡	‡
7–14	20.76	21.70	20.74	0.02	0.96
15 or more	23.81	24.53	23.79	0.02	0.74
Unknown	‡	‡	‡	‡	‡
Total undergraduate enrollment ³					
1–7,423	‡	‡	‡	‡	‡
7,424–13,538	23.87	24.81	23.95	-0.08*	0.86
13,539–22,148	24.61	24.80	24.52	0.09*	0.28
22,149 or more	24.31	24.80	24.20	0.11*	0.60
None or unknown	‡	‡	‡	‡	‡
Male undergraduate enrollment ³					
1–3,161	‡	‡	‡	‡	‡
3,162–6,182	23.18	24.92	23.26	-0.08*	1.66*
6,183–10,479	24.97	24.80	24.89	0.08*	-0.09
10,480 or more	24.33	24.80	24.22	0.11*	0.58
None or unknown	‡	‡	‡	‡	‡
Female undergraduate enrollment ³					
1–4,301	‡	‡	‡	‡	‡
4,302–7,184	24.09	24.81	24.16	-0.07*	0.65
7,185–11,856	24.43	24.80	24.35	0.08*	0.45
11,857 or more	24.26	24.80	24.15	0.11*	0.65
None or unknown	‡	‡	‡	‡	‡
Total graduate enrollment ³					
1–1,576	27.01	25.52	27.12	-0.11*	-1.60*
1,577–3,128	24.50	24.87	24.55	-0.05*	0.32
3,129–6,228	24.10	24.80	24.04	0.06*	0.76
6,229 or more	24.40	24.80	24.29	0.11*	0.51

See notes at end of table.

Table J-18. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for public 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Male graduate enrollment ³					
1–571	27.06	25.52	27.17	-0.11*	-1.65*
572–1,184	24.76	24.87	24.80	-0.04*	0.07
1,185–2,728	23.68	24.80	23.63	0.05*	1.17
2,729 or more	24.50	24.80	24.39	0.11*	0.41
Female graduate enrollment ³					
1–977	26.96	25.51	27.07	-0.11*	-1.56*
978–1,952	24.64	24.89	24.69	-0.05*	0.20
1,953–3,588	24.81	24.80	24.75	0.06*	0.05
3,589 or more	23.58	24.80	23.48	0.10*	1.32
Number of bachelor's degrees awarded ³					
0–2,554	24.39	24.19	24.49	-0.10*	-0.30
2,555–4,501	‡	‡	‡	‡	‡
4,502–8,696	23.23	23.70	23.15	0.08*	0.55
8,697 or more	23.35	23.70	23.25	0.10*	0.45
Unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ³					
1–64	22.24	23.19	22.20	0.04*	0.99
65–76	23.22	23.14	23.20	0.02	-0.06
77–86	22.00	22.32	21.99	0.01	0.33
87 or more	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students living on campus ³					
0–458	22.75	22.44	22.81	-0.06*	-0.37
459–854	21.23	22.16	21.25	-0.02	0.91
855–1,568	22.05	22.05	22.02	0.03*	0.03
1,569 or more	21.54	21.77	21.44	0.10*	0.33
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table J-18. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for public 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Average amount of grant and scholarship aid received ²					
\$0–\$6,275	23.04	22.91	23.04	#	-0.13
\$6,276–\$7,493	‡	‡	‡	‡	‡
\$7,494–\$8,791	21.89	22.79	21.86	0.03*	0.93
\$8,792 or more	21.53	22.60	21.50	0.03*	1.10
Unknown	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ³					
0–194	23.84	23.35	23.90	-0.06*	-0.55
195–338	21.63	22.35	21.64	-0.01	0.71
339–547	22.26	22.60	22.22	0.04*	0.38
548 or more	21.94	22.60	21.86	0.08*	0.74
Unknown	‡	‡	‡	‡	‡

Rounds to zero.

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

* $p < 0.05$.¹ Institution base weight, adjusted for nonresponse.

² New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.

³ Categories were defined by quartiles.

NOTE: Sample sizes rounded to the nearest 10 and, therefore, may not sum to total. "Base weight" refers to the institution sampling weight adjusted for field test sampling.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-19. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for private nonprofit less-than-4-year institutions: 2015–16

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹	Full sample, base weighted	Respondents, adjusted for nonresponse and poststratification		
	(1)	(2)	(3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Degree of urbanization					
Large city	†	†	†	†	†
Mid-size city	†	†	†	†	†
Small city	†	†	†	†	†
Large suburb	†	†	†	†	†
Mid-size 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 or remote from town	†	†	†	†	†
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ²					
New England	†	†	†	†	†
Mid East	†	†	†	†	†
Great Lakes	†	†	†	†	†
Plains	†	†	†	†	†
Southeast	†	†	†	†	†
Southwest	†	†	†	†	†
Rocky Mountains	†	†	†	†	†
Far West	†	†	†	†	†
Outlying areas	†	†	†	†	†
Hispanic Serving Institution					
Yes	†	†	†	†	†
No	†	†	†	†	†
Percentage of full-time, first-time degree/certificate-seeking students receiving state or local grant aid ³					
1–6	†	†	†	†	†
7–46	†	†	†	†	†
47 or more	†	†	†	†	†
None or unknown	†	†	†	†	†

See notes at end of table.

Table J-19. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for private nonprofit less-than-4-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of full-time, first-time degree/certificate-seeking students receiving institutional grant aid ³					
1–3	†	†	†	†	†
4–14	†	†	†	†	†
15 or more	†	†	†	†	†
None or unknown	†	†	†	†	†
Percentage of full-time, first-time degree/certificate-seeking students receiving student loan aid ³					
1–59	†	†	†	†	†
60–75	†	†	†	†	†
76–90	†	†	†	†	†
91 or more	†	†	†	†	†
None or unknown	†	†	†	†	†
Average net price among full-time, first-time degree/certificate-seeking students receiving grant or scholarship aid ³					
\$1–\$16,521	†	†	†	†	†
\$16,522–\$20,629	†	†	†	†	†
\$20,630–\$22,577	†	†	†	†	†
\$22,578 or more	†	†	†	†	†
None or unknown	†	†	†	†	†
Percentage of students enrolled who were Black, non-Hispanic ³					
0–6	†	†	†	†	†
7–16	†	†	†	†	†
17–40	†	†	†	†	†
41 or more	†	†	†	†	†
Percentage of students enrolled who were Asian or Pacific Islander, non-Hispanic ³					
0–1	†	†	†	†	†
2	†	†	†	†	†
3	†	†	†	†	†
4 or more	†	†	†	†	†

See notes at end of table.

Table J-19. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for private nonprofit less-than-4-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of students enrolled who were Hispanic ³					
0–3	†	†	†	†	†
4–8	†	†	†	†	†
9–24	†	†	†	†	†
25 or more	†	†	†	†	†
Total undergraduate enrollment ³					
1–366	†	†	†	†	†
367–575	†	†	†	†	†
576–1,149	†	†	†	†	†
1,150 or more	†	†	†	†	†
Male undergraduate enrollment ³					
1–92	†	†	†	†	†
93–173	†	†	†	†	†
174–550	†	†	†	†	†
551 or more	†	†	†	†	†
Female undergraduate enrollment ³					
1–163	†	†	†	†	†
164–312	†	†	†	†	†
313–534	†	†	†	†	†
535 or more	†	†	†	†	†
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ³					
1–67	†	†	†	†	†
68–84	†	†	†	†	†
85–89	†	†	†	†	†
90 or more	†	†	†	†	†
None or unknown	†	†	†	†	†
Number of first-time, full-time undergraduate students living on campus ³					
0–5	†	†	†	†	†
8–10	†	†	†	†	†
Unknown	†	†	†	†	†

See notes at end of table.

Table J-19. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for private nonprofit less-than-4-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Average amount of grant and scholarship aid received ³					
\$0–\$4,587	‡	‡	‡	‡	‡
\$4,588–\$4,671	‡	‡	‡	‡	‡
\$4,672–\$5,684	‡	‡	‡	‡	‡
\$5,685 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ³					
0–13	‡	‡	‡	‡	‡
14–33	‡	‡	‡	‡	‡
34–88	‡	‡	‡	‡	‡
89 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡

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

¹ Institution base weight, adjusted for nonresponse.

² New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.

³ Categories were defined by quartiles.

NOTE: Sample sizes rounded to the nearest 10 and, therefore, may not sum to total. "Base weight" refers to the institution sampling weight adjusted for field test sampling.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-20. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for private nonprofit 4-year non-doctorate-granting institutions: 2015–16

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
2015 Carnegie Basic classification code					
Associate's	‡	‡	‡	‡	‡
Research and doctoral	‡	‡	‡	‡	‡
Master's	13.44	14.28	14.75	-1.31*	-0.47
Baccalaureate	47.07	45.28	48.78	-1.71*	-3.50
Special focus and other	21.59	26.61	19.86	1.73*	6.75
Unavailable or unknown	‡	‡	‡	‡	‡
Degree of urbanization					
Large city	25.98	22.24	25.19	0.79	-2.95
Mid-size city	8.55	11.72	8.47	0.08	3.25
Small city	‡	‡	‡	‡	‡
Large suburb	17.75	18.01	18.00	-0.25	0.01
Mid-size suburb	‡	‡	‡	‡	‡
Small suburb	‡	‡	‡	‡	‡
Urban area on fringe of town	‡	‡	‡	‡	‡
Urban area distant from town	8.50	9.80	9.02	-0.52*	0.78
Urban area remote from town	‡	‡	‡	‡	‡
Rural area on fringe of town	‡	‡	‡	‡	‡
Rural area distant or remote from town	‡	‡	‡	‡	‡
Bureau of Economic Analysis Code (Office of Business Economics [OBE])					
Region ²					
New England	‡	‡	‡	‡	‡
Mid East	16.16	20.30	16.56	-0.40	3.74
Great Lakes	16.94	15.36	17.08	-0.14	-1.72
Plains	‡	‡	‡	‡	‡
Southeast	33.34	30.89	32.40	0.94	-1.51
Southwest	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡
Far West	‡	‡	‡	‡	‡
Outlying areas	‡	‡	‡	‡	‡

See notes at end of table.

Table J-20. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for private nonprofit 4-year non-doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Historically Black College or University					
Yes	‡	‡	‡	‡	‡
No or Unavailable or unknown	96.52	97.05	96.48	0.04	0.57
Hispanic Serving Institution					
Yes	13.23	12.15	12.57	0.66	-0.42
No	86.77	87.85	87.43	-0.66	0.42
Percentage of full-time, first-time degree/certificate-seeking students receiving federal grant aid ³					
1–25	15.96	18.82	16.53	-0.57	2.29
26–38	15.01	14.31	16.00	-0.99*	-1.69
39–53	19.95	20.53	20.41	-0.46	0.12
54 or more	38.83	33.46	37.34	1.49*	-3.88
None or unknown	10.25	12.89	9.72	0.53	3.17
Percentage of full-time, first-time degree/certificate-seeking students receiving state or local grant aid ³					
1–13	19.67	15.52	19.75	-0.08	-4.23*
14–29	18.06	16.63	18.60	-0.54	-1.97
30–47	17.09	16.45	18.01	-0.92*	-1.56
48 or more	16.31	18.86	17.01	-0.70*	1.85
None or unknown	28.87	32.54	26.63	2.24*	5.91
Percentage of full-time, first-time degree/certificate-seeking students receiving institutional grant aid ³					
1–75	37.34	35.13	35.87	1.47*	-0.74
76–96	17.41	16.66	18.46	-1.05*	-1.80
97–99	16.17	16.73	17.06	-0.89*	-0.33
100 or more	16.83	16.48	17.08	-0.25	-0.60
None or unknown	12.24	14.99	11.53	0.71	3.46

See notes at end of table.

Table J-20. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for private nonprofit 4-year non-doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of full-time, first-time degree/certificate-seeking students receiving student loan aid ³					
1–57	28.40	20.35	27.71	0.69	-7.36*
58–72	17.56	17.87	18.08	-0.52	-0.21
73–80	19.58	20.14	19.86	-0.28	0.28
81 or more	23.00	21.83	23.51	-0.51	-1.68
None or unknown	11.46	19.81	10.84	0.62	8.97
Average net price among full-time, first-time degree/certificate-seeking students receiving grant or scholarship aid ³					
\$1–\$18,316	37.64	35.80	36.12	1.52*	-0.32
\$18,317–\$21,907	17.92	18.53	18.65	-0.73*	-0.12
\$21,908–\$26,456	18.38	17.10	19.04	-0.66	-1.94
\$26,457 or more	15.96	15.80	16.62	-0.66*	-0.82
None or unknown	10.10	12.77	9.56	0.54	3.21
Percentage of students enrolled who were Black, non-Hispanic ³					
0–4	22.69	25.19	23.35	-0.66	1.84
5–7	22.36	22.40	22.09	0.27	0.31
8–14	18.92	20.37	19.21	-0.29	1.16
15 or more	34.63	30.82	33.80	0.83	-2.98
Unknown	‡	‡	‡	‡	‡
Percentage of students enrolled who were Asian or Pacific Islander, non-Hispanic ³					
0–1	39.07	41.91	39.22	-0.15	2.69
2	14.14	13.82	14.60	-0.46	-0.78
3–4	20.58	17.18	20.67	-0.09	-3.49
5 or more	24.81	25.87	23.97	0.84	1.90
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table J-20. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for private nonprofit 4-year non-doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of students enrolled who were Hispanic ³					
0–3	31.93	32.61	31.55	0.38	1.06
4–6	29.33	28.29	29.18	0.15	-0.89
7–10	11.60	11.59	12.32	-0.72*	-0.73
11 or more	25.75	26.29	25.40	0.35	0.89
Unknown	‡	‡	‡	‡	‡
Total undergraduate enrollment ³					
1–1,245	55.94	55.28	52.22	3.72*	3.06
1,246–2,021	17.66	17.07	19.53	-1.87*	-2.46
2,022–3,070	13.27	12.41	14.68	-1.41*	-2.27*
3,071 or more	8.49	9.10	9.39	-0.90*	-0.29
None or unknown	‡	‡	‡	‡	‡
Male undergraduate enrollment ³					
1–482	53.67	53.04	49.88	3.79*	3.16
483–838	19.32	18.85	21.20	-1.88*	-2.35
839–1,330	12.70	11.86	14.05	-1.35*	-2.19
1,331 or more	9.67	10.12	10.70	-1.03*	-0.58
None or unknown	‡	‡	‡	‡	‡
Female undergraduate enrollment ³					
1–678	53.33	52.28	49.84	3.49*	2.44
679–1,147	20.32	19.96	21.97	-1.65*	-2.01
1,148–1,730	‡	‡	‡	‡	‡
1,731 or more	8.96	9.75	9.91	-0.95*	-0.16
None or unknown	‡	‡	‡	‡	‡
Total graduate enrollment ³					
1–113	28.72	27.75	28.01	0.71	-0.26
114–383	16.99	16.82	17.29	-0.30	-0.47
384–867	9.52	9.36	10.21	-0.69*	-0.85
868 or more	5.85	6.40	6.47	-0.62*	-0.07
None or unknown	38.92	39.67	38.01	0.91	1.66

See notes at end of table.

Table J-20. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for private nonprofit 4-year non-doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Male graduate enrollment ³					
1–42	28.22	27.46	27.61	0.61	-0.15
43–140	17.02	16.54	17.39	-0.37	-0.85
141–290	9.37	9.70	9.99	-0.62*	-0.29
291 or more	6.46	6.63	7.01	-0.55*	-0.38
None or unknown	38.92	39.67	38.01	0.91	1.66
Female graduate enrollment ³					
1–59	29.41	26.02	28.46	0.95	-2.44
60–253	16.12	18.58	16.65	-0.53	1.93
254–562	9.39	9.19	10.07	-0.68*	-0.88
563 or more	6.16	6.54	6.81	-0.65*	-0.27
None or unknown	38.92	39.67	38.01	0.91	1.66
Number of bachelor's degrees awarded ³					
0–426	58.16	56.00	54.81	3.35*	1.19
427–796	16.90	17.16	18.41	-1.51*	-1.25
797–1,207	10.93	11.04	12.09	-1.16*	-1.05
1,208 or more	8.67	8.33	9.59	-0.92*	-1.26
Unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ³					
1–91	36.35	32.97	34.93	1.42*	-1.96
92–98	17.99	18.84	19.12	-1.13*	-0.28
99 or more	35.56	35.42	36.39	-0.83	-0.97
None or unknown	10.10	12.77	9.56	0.54	3.21
Number of first-time, full-time undergraduate students living on campus ³					
0–178	35.63	35.31	33.88	1.75*	1.43
179–289	14.96	14.46	15.75	-0.79*	-1.29
290–447	12.37	12.12	13.68	-1.31*	-1.56
448 or more	9.02	8.35	9.98	-0.96*	-1.63*
Unknown	28.03	29.76	26.71	1.32*	3.05

See notes at end of table.

Table J-20. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for private nonprofit 4-year non-doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Average amount of grant and scholarship aid received ³					
\$0–\$12,844	44.21	43.12	41.93	2.28*	1.19
\$12,845–\$17,343	18.12	17.04	19.06	-0.94*	-2.02
\$17,344–\$22,901	12.52	13.23	13.32	-0.80*	-0.09
\$22,902 or more	15.04	13.85	16.12	-1.08*	-2.27
Unknown	10.10	12.77	9.56	0.54	3.21
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ³					
0–35	46.12	42.47	43.74	2.38*	-1.27
36–50	15.84	15.89	16.60	-0.76*	-0.71
51–84	12.98	14.21	13.93	-0.95*	0.28
85 or more	14.82	14.54	16.01	-1.19*	-1.47
Unknown	10.25	12.89	9.72	0.53	3.17

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

* $p < 0.05$.

¹ Institution base weight, adjusted for nonresponse.

² New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.

³ Categories were defined by quartiles.

NOTE: Sample sizes rounded to the nearest 10 and, therefore, may not sum to total. "Base weight" refers to the institution sampling weight adjusted for field test sampling.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-21. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for private nonprofit, 4-year, doctorate-granting institutions: 2015–16

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹	Full sample, base weighted	Respondents, adjusted for nonresponse and poststratification		
	(1)	(2)	(3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
2015 Carnegie Basic classification code					
Associate's	‡	‡	‡	‡	‡
Research and doctoral	16.29	15.45	17.55	-1.26*	-2.10
Master's	39.82	37.28	41.74	-1.92*	-4.46
Baccalaureate	‡	‡	‡	‡	‡
Special focus and other	32.00	36.23	29.17	2.83*	7.06
Unavailable or unknown	‡	‡	‡	‡	‡
Degree of urbanization					
Large city	36.96	31.45	36.39	0.57	-4.94*
Mid-size city	‡	‡	‡	‡	‡
Small city	‡	‡	‡	‡	‡
Large suburb	20.43	27.15	20.85	-0.42	6.30
Mid-size 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 or remote from town	‡	‡	‡	‡	‡
Bureau of Economic Analysis Code (Office of Business Economics [OBE])					
Region ²					
New England	13.68	14.29	13.57	0.11	0.72
Mid East	20.20	26.31	20.79	-0.59	5.52
Great Lakes	‡	‡	‡	‡	‡
Plains	‡	‡	‡	‡	‡
Southeast	20.80	17.90	20.38	0.42	-2.48
Southwest	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡
Far West	‡	‡	‡	‡	‡
Outlying areas	‡	‡	‡	‡	‡

See notes at end of table.

Table J-21. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for private nonprofit, 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹	Full sample, base weighted	Respondents, adjusted for nonresponse and poststratification		
	(1)	(2)	(3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Historically Black College or University					
Yes	‡	‡	‡	‡	‡
No or Unavailable or unknown	95.88	96.85	96.30	-0.42	0.55
Hispanic Serving Institution					
Yes	‡	‡	‡	‡	‡
No	92.11	92.52	92.00	0.11	0.52
Percentage of full-time, first-time degree/certificate-seeking students receiving federal grant aid ³					
1–18	13.01	11.94	13.53	-0.52	-1.59
19–30	16.40	14.91	17.54	-1.14*	-2.63*
31–42	23.46	21.33	23.61	-0.15	-2.28
43 or more	21.22	20.46	21.31	-0.09	-0.85
None or unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking students receiving state or local grant aid ³					
1–11	16.32	13.83	17.03	-0.71*	-3.20*
12–25	18.42	17.25	18.63	-0.21	-1.38
26–41	‡	‡	‡	‡	‡
42 or more	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking students receiving institutional grant aid ³					
1–70	24.48	18.89	23.85	0.63	-4.96*
71–94	16.06	15.80	16.76	-0.70*	-0.96
95–98	‡	‡	‡	‡	‡
99 or more	19.05	19.42	20.08	-1.03*	-0.66
None or unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table J-21. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for private nonprofit, 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of full-time, first-time degree/certificate-seeking students receiving student loan aid ³					
1–47	21.33	17.48	21.29	0.04	-3.81*
48–64	16.27	14.50	17.02	-0.75*	-2.52
65–75	16.09	16.47	16.95	-0.86*	-0.48
76 or more	21.52	20.74	21.97	-0.45	-1.23
None or unknown	‡	‡	‡	‡	‡
Average net price among full-time, first-time degree/certificate-seeking students receiving grant or scholarship aid ³					
\$1–\$20,055	30.27	26.25	29.45	0.82	-3.20
\$20,056–\$24,723	‡	‡	‡	‡	‡
\$24,724–\$30,521	16.63	14.82	17.65	-1.02*	-2.83*
\$30,522 or more	12.56	12.07	13.27	-0.71*	-1.20
None or unknown	‡	‡	‡	‡	‡
Percentage of students enrolled who were Black, non-Hispanic ³					
0–4	32.53	36.41	32.01	0.52	4.40
5–6	13.72	15.47	14.61	-0.89*	0.86
7–11	19.35	18.91	20.21	-0.86*	-1.30
12 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Percentage of students enrolled who were Asian or Pacific Islander, non-Hispanic ³					
0–2	34.72	37.21	35.02	-0.30	2.19
3–4	20.00	20.16	20.13	-0.13	0.03
5–9	24.59	21.43	24.27	0.32	-2.84
10 or more	20.44	20.97	20.32	0.12	0.65
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table J-21. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for private nonprofit, 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹	Full sample, base weighted	Respondents, adjusted for nonresponse and poststratification		
	(1)	(2)	(3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of students enrolled who were Hispanic ³					
0–4	33.89	39.22	33.47	0.42	5.75
5–7	20.51	20.59	21.31	-0.80	-0.72
8–11	‡	‡	‡	‡	‡
12 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Total undergraduate enrollment ³					
1–2,373	‡	‡	‡	‡	‡
2,374–4,087	18.38	18.33	20.18	-1.80*	-1.85
4,088–6,711	11.16	11.25	12.25	-1.09*	-1.00
6,712 or more	10.80	10.49	11.85	-1.05*	-1.36
None or unknown	‡	‡	‡	‡	‡
Male undergraduate enrollment ³					
1–906	‡	‡	‡	‡	‡
907–1,690	18.45	18.78	20.03	-1.58*	-1.25
1,691–3,048	11.71	11.59	12.85	-1.14*	-1.26
3,049 or more	11.01	10.56	12.09	-1.08*	-1.53
None or unknown	‡	‡	‡	‡	‡
Female undergraduate enrollment ³					
1–1,361	47.32	40.17	44.02	3.30*	-3.85
1,362–2,289	19.11	18.60	20.98	-1.87*	-2.38
2,290–3,782	11.82	11.68	12.98	-1.16*	-1.30
3,783 or more	10.84	10.65	11.90	-1.06*	-1.25
None or unknown	‡	‡	‡	‡	‡
Total graduate enrollment ³					
1–965	50.96	53.34	47.97	2.99*	5.37
966–2,323	23.89	22.04	24.56	-0.67	-2.52
2,324–4,603	14.06	14.10	15.30	-1.24*	-1.20
4,604 or more	11.09	10.52	12.17	-1.08*	-1.65

See notes at end of table.

Table J-21. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for private nonprofit, 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹	Full sample, base weighted	Respondents, adjusted for nonresponse and poststratification		
	(1)	(2)	(3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Male graduate enrollment ³					
1–362	52.94	51.66	49.69	3.25*	1.97
363–866	21.37	23.23	22.47	-1.10*	0.76
867–1,819	13.40	13.87	14.35	-0.95*	-0.48
1,820 or more	12.28	11.23	13.49	-1.21*	-2.26*
Female graduate enrollment ³					
1–589	50.54	52.27	47.67	2.87*	4.60
590–1,318	24.76	23.33	25.21	-0.45	-1.88
1,319–2,753	13.69	13.46	15.03	-1.34*	-1.57
2,754 or more	11.01	10.94	12.09	-1.08*	-1.15
Number of bachelor's degrees awarded ³					
0–938	46.29	39.85	44.07	2.22*	-4.22
939–1,749	16.52	15.99	17.91	-1.39*	-1.92
1,750–2,886	10.98	10.68	12.05	-1.07*	-1.37
2,887 or more	10.23	9.95	11.23	-1.00*	-1.28
Unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ³					
1–83	24.81	19.57	24.27	0.54	-4.70*
84–96	18.86	17.97	19.64	-0.78*	-1.67
97–99	‡	‡	‡	‡	‡
100 or more	13.92	14.87	14.31	-0.39	0.56
None or unknown	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students living on campus ³					
0–266	28.43	25.64	28.07	0.36	-2.43
267–524	‡	‡	‡	‡	‡
525–886	11.11	12.07	12.20	-1.09*	-0.13
887 or more	‡	‡	‡	‡	‡
Unknown	34.18	37.95	31.46	2.72*	6.49

See notes at end of table.

Table J-21. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for private nonprofit, 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹	Full sample, base weighted	Respondents, adjusted for nonresponse and poststratification		
	(1)	(2)	(3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Average amount of grant and scholarship aid received ³					
\$0–\$15,432	26.80	23.32	26.36	0.44	-3.04
\$15,433–\$19,621	17.19	16.64	18.43	-1.24*	-1.79
\$19,622–\$25,564	‡	‡	‡	‡	‡
\$25,565 or more	13.90	13.48	14.49	-0.59*	-1.01
Unknown	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ³					
0–50	34.51	28.81	33.11	1.40*	-4.30
51–83	17.00	16.33	18.06	-1.06*	-1.73
84–141	13.01	13.32	14.09	-1.08*	-0.77
142 or more	11.44	11.19	12.41	-0.97*	-1.22
Unknown	‡	‡	‡	‡	‡

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

* $p < 0.05$.¹ Institution base weight, adjusted for nonresponse.

² New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.

³ Categories were defined by quartiles.

NOTE: Sample sizes rounded to the nearest 10 and, therefore, may not sum to total. "Base weight" refers to the institution sampling weight adjusted for field test sampling.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-22. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for private for-profit less-than-2-year institutions: 2015–16

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹	Full sample, base weighted	Respondents, adjusted for nonresponse and poststratification		
	(1)	(2)	(3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Degree of urbanization					
Large city	15.25	20.70	18.52	-3.27*	2.18
Mid-size city	†	†	†	†	†
Small city	5.12	10.04	5.45	-0.33	4.59
Large suburb	†	†	†	†	†
Mid-size 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 or remote from town	†	†	†	†	†
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ²					
New England	†	†	†	†	†
Mid East	†	†	†	†	†
Great Lakes	†	†	†	†	†
Plains	†	†	†	†	†
Southeast	†	†	†	†	†
Southwest	†	†	†	†	†
Rocky Mountains	†	†	†	†	†
Far West	†	†	†	†	†
Outlying areas	†	†	†	†	†
Hispanic Serving Institution					
Yes	21.98	23.25	24.48	-2.50	-1.23
No	78.02	76.75	75.52	2.50	1.23

See notes at end of table.

Table J-22. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for private for-profit less-than-2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of full-time, first-time degree/certificate-seeking students receiving state or local grant aid ³					
1–6	‡	‡	‡	‡	‡
7 or more	‡	‡	‡	‡	‡
None or unknown	47.35	57.23	47.54	-0.19	9.69
Percentage of full-time, first-time degree/certificate-seeking students receiving institutional grant aid ³					
1	‡	‡	‡	‡	‡
2–16	‡	‡	‡	‡	‡
17 or more	17.47	21.58	16.81	0.66	4.77
None or unknown	58.44	55.97	58.56	-0.12	-2.59
Percentage of full-time, first-time degree/certificate-seeking students receiving student loan aid ³					
1–56	‡	‡	‡	‡	‡
57–76	‡	‡	‡	‡	‡
77–88	‡	‡	‡	‡	‡
89 or more	‡	‡	‡	‡	‡
None or unknown	11.07	18.15	11.63	-0.56	6.52
Average net price among full-time, first-time degree/certificate-seeking students receiving grant or scholarship aid ³					
\$1–\$12,651	33.13	36.73	29.63	3.50	7.10
\$12,652–\$15,504	‡	‡	‡	‡	‡
\$15,505–\$20,918	‡	‡	‡	‡	‡
\$20,919 or more	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table J-22. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for private for-profit less-than-2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of students enrolled who were Black, non-Hispanic ³					
0–5	28.60	35.79	27.72	0.88	8.07
6–17	‡	‡	‡	‡	‡
18–35	14.50	18.70	16.92	-2.42*	1.78
36 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Percentage of students enrolled who were Asian or Pacific Islander, non-Hispanic ³					
0	45.44	47.34	39.85	5.59*	7.49
1	‡	‡	‡	‡	‡
2	‡	‡	‡	‡	‡
3 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Percentage of students enrolled who were Hispanic ³					
0–4	40.54	35.18	37.15	3.39	-1.97
5–17	‡	‡	‡	‡	‡
18–49	‡	‡	‡	‡	‡
50 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Total undergraduate enrollment ³					
1–154	64.10	64.11	53.08	11.02*	11.03*
155–393	‡	‡	‡	‡	‡
394–900	9.77	10.80	12.77	-3.00*	-1.97
901 or more	‡	‡	‡	‡	‡
Male undergraduate enrollment ³					
1–11	60.52	64.20	50.88	9.64*	13.32*
12–60	‡	‡	‡	‡	‡
61–200	‡	‡	‡	‡	‡
201 or more	6.74	6.52	8.80	-2.06*	-2.28

See notes at end of table.

Table J-22. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for private for-profit less-than-2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Female undergraduate enrollment ²					
1–106	60.28	58.43	52.30	7.98*	6.13
107–278	23.44	26.11	26.41	-2.97*	-0.30
279–700	‡	‡	‡	‡	‡
701 or more	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ³					
1–67	‡	‡	‡	‡	‡
68–79	‡	‡	‡	‡	‡
80–89	23.70	20.87	24.32	-0.62	-3.45
90 or more	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students living on campus ³					
0–111	‡	‡	‡	‡	‡
Unknown	100.00	99.15	100.00	#	-0.85
Average amount of grant and scholarship aid received ³					
\$0–\$3,874	‡	‡	‡	‡	‡
\$3,875–\$4,359	‡	‡	‡	‡	‡
\$4,360–\$5,003	20.46	27.06	21.17	-0.71	5.89
\$5,004 or more	25.07	24.26	24.59	0.48	-0.33
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table J-22. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for private for-profit less-than-2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ³					
0–24	35.62	40.22	33.37	2.25	6.85
25–49	‡	‡	‡	‡	‡
50–170	8.59	12.82	11.22	-2.63*	1.60
171 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡

Rounds to zero.

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

* $p < 0.05$.¹ Institution base weight, adjusted for nonresponse.

² New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.

³ Categories were defined by quartiles.

NOTE: Sample sizes rounded to the nearest 10 and, therefore, may not sum to total. "Base weight" refers to the institution sampling weight adjusted for field test sampling.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-23. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for private for-profit 2-year institutions: 2015–16

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹	Full sample, base weighted	Respondents, adjusted for nonresponse and poststratification		
	(1)	(2)	(3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Degree of urbanization					
Large city	29.80	30.03	28.39	1.41*	1.64
Mid-size city	18.68	20.52	19.89	-1.21	0.63
Small city	‡	‡	‡	‡	‡
Large suburb	‡	‡	‡	‡	‡
Mid-size 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 or remote from town	‡	‡	‡	‡	‡
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ²					
New England	‡	‡	‡	‡	‡
Mid East	‡	‡	‡	‡	‡
Great Lakes	‡	‡	‡	‡	‡
Plains	‡	‡	‡	‡	‡
Southeast	23.70	28.11	22.73	0.97	5.38
Southwest	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡
Far West	15.83	19.00	16.04	-0.21	2.96
Outlying areas	‡	‡	‡	‡	‡
Hispanic Serving Institution					
Yes	24.90	19.52	23.28	1.62*	-3.76
No	75.10	80.48	76.72	-1.62*	3.76

See notes at end of table.

Table J-23. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for private for-profit 2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of full-time, first-time degree/certificate-seeking students receiving state or local grant aid ³					
1	‡	‡	‡	‡	‡
2–5	‡	‡	‡	‡	‡
6 or more	‡	‡	‡	‡	‡
None or unknown	37.72	55.98	36.46	1.26	19.52*
Percentage of full-time, first-time degree/certificate-seeking students receiving institutional grant aid ³					
1–2	‡	‡	‡	‡	‡
3–25	‡	‡	‡	‡	‡
26 or more	‡	‡	‡	‡	‡
None or unknown	48.71	58.02	50.34	-1.63	7.68
Percentage of full-time, first-time degree/certificate-seeking students receiving student loan aid ³					
1–72	15.99	15.91	15.52	0.47	0.39
73–82	‡	‡	‡	‡	‡
83–91	‡	‡	‡	‡	‡
92 or more	29.22	29.76	29.17	0.05	0.59
None or unknown	‡	‡	‡	‡	‡
Average net price among full-time, first-time degree/certificate-seeking students receiving grant or scholarship aid ³					
\$1–\$16,523	26.66	35.75	27.66	-1.00	8.09
\$16,524–\$19,155	‡	‡	‡	‡	‡
\$19,156–\$22,420	‡	‡	‡	‡	‡
\$22,421 or more	20.37	24.14	20.43	-0.06	3.71
None or unknown	‡	‡	‡	‡	‡
Percentage of students enrolled who were Black, non-Hispanic ³					
0–4	34.12	34.49	35.39	-1.27	-0.90
5–15	‡	‡	‡	‡	‡
16–40	23.18	27.80	22.58	0.60	5.22
41 or more	‡	‡	‡	‡	‡

See notes at end of table.

Table J-23. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for private for-profit 2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of students enrolled who were Asian or Pacific Islander, non-Hispanic ³					
0	‡	‡	‡	‡	‡
1–2	23.10	25.74	21.93	1.17*	3.81
3–4	‡	‡	‡	‡	‡
5 or more	18.89	22.75	18.81	0.08	3.94
Percentage of students enrolled who were Hispanic ³					
0–5	39.61	44.15	41.86	-2.25*	2.29
6–14	25.28	24.97	25.07	0.21	-0.10
15–37	17.30	17.64	16.21	1.09*	1.43
38 or more	‡	‡	‡	‡	‡
Total undergraduate enrollment ³					
1–525	54.52	64.18	58.80	-4.28*	5.38
526–891	‡	‡	‡	‡	‡
892–1,460	‡	‡	‡	‡	‡
1,461 or more	‡	‡	‡	‡	‡
Male undergraduate enrollment ³					
1–107	44.51	48.21	47.34	-2.83*	0.87
108–234	‡	‡	‡	‡	‡
235–602	18.90	22.32	17.12	1.78*	5.20
603 or more	‡	‡	‡	‡	‡
Female undergraduate enrollment ³					
1–188	39.03	49.50	41.75	-2.72*	7.75
189–540	33.88	29.18	33.72	0.16	-4.54
541–934	‡	‡	‡	‡	‡
935 or more	‡	‡	‡	‡	‡
Number of bachelor's degrees awarded ³					
0	‡	‡	‡	‡	‡
3–4	‡	‡	‡	‡	‡
Unknown	99.46	99.60	99.51	-0.05	0.09

See notes at end of table.

Table J-23. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for private for-profit 2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ²					
1–75	28.22	28.65	29.08	-0.86	-0.43
76–83	‡	‡	‡	‡	‡
84–92	‡	‡	‡	‡	‡
93 or more	26.20	31.17	26.50	-0.30	4.67
Number of first-time, full-time undergraduate students living on campus ³					
0–39	‡	‡	‡	‡	‡
68 or more	‡	‡	‡	‡	‡
Unknown	97.55	98.15	97.25	0.30	0.90
Average amount of grant and scholarship aid received ³					
\$0–\$3,947	26.09	28.53	26.61	-0.52	1.92
\$3,948–\$4,670	‡	‡	‡	‡	‡
\$4,671–\$5,334	‡	‡	‡	‡	‡
\$5,335 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ³					
0–32	47.75	57.06	51.94	-4.19*	5.12
33–79	‡	‡	‡	‡	‡
80–133	‡	‡	‡	‡	‡
134 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡

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

* $p < 0.05$.¹ Institution base weight, adjusted for nonresponse.

² New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.

³ Categories were defined by quartiles.

NOTE: Sample sizes rounded to the nearest 10 and, therefore, may not sum to total. "Base weight" refers to the institution sampling weight adjusted for field test sampling.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-24. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for private for-profit 4-year institutions: 2015–16

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹	Full sample, base weighted	Respondents, adjusted for nonresponse and poststratification		
	(1)	(2)	(3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
2015 Carnegie Basic classification code					
Associate's	26.39	24.89	26.33	0.06	-1.44
Research and doctoral	‡	‡	‡	‡	‡
Master's	‡	‡	‡	‡	‡
Baccalaureate	9.75	12.40	9.83	-0.08	2.57
Special focus and other	27.55	29.57	27.70	-0.15	1.87
Unavailable or unknown	28.45	25.76	28.21	0.24	-2.45
Degree of urbanization					
Large city	29.65	32.77	29.86	-0.21	2.91
Mid-size city	16.15	14.39	16.16	-0.01	-1.77
Small city	‡	‡	‡	‡	‡
Large suburb	40.97	38.83	40.76	0.21	-1.93
Mid-size 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 or remote from town	‡	‡	‡	‡	‡
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ²					
New England	‡	‡	‡	‡	‡
Mid East	‡	‡	‡	‡	‡
Great Lakes	‡	‡	‡	‡	‡
Plains	‡	‡	‡	‡	‡
Southeast	27.60	25.91	27.65	-0.05	-1.74
Southwest	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡
Far West	11.48	13.26	11.64	-0.16*	1.62
Outlying areas	‡	‡	‡	‡	‡

See notes at end of table.

Table J-24. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for private for-profit 4-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Hispanic Serving Institution					
Yes	22.05	22.15	22.13	-0.08	0.02
No	77.95	77.85	77.87	0.08	-0.02
Percentage of full-time, first-time degree/certificate-seeking students receiving federal grant aid ³					
1–60	12.18	15.03	12.14	0.04	2.89*
61–74	18.44	17.06	18.50	-0.06	-1.44
75–83	22.30	21.10	22.48	-0.18	-1.38
84 or more	32.04	30.53	32.09	-0.05	-1.56
None or unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking students receiving state or local grant aid ³					
1–23	17.06	17.43	17.31	-0.25*	0.12
24 or more	‡	‡	‡	‡	‡
None or unknown	55.47	57.49	55.29	0.18	2.20
Percentage of full-time, first-time degree/certificate-seeking students receiving institutional grant aid ³					
1–23	23.87	25.46	23.80	0.07	1.66
24–67	‡	‡	‡	‡	‡
68 or more	‡	‡	‡	‡	‡
None or unknown	42.26	42.92	41.97	0.29*	0.95
Percentage of full-time, first-time degree/certificate-seeking students receiving student loan aid ³					
1–70	14.22	16.17	14.22	#	1.95
71–82	27.98	26.18	28.03	-0.05	-1.85
83–89	‡	‡	‡	‡	‡
90 or more	24.52	24.56	24.29	0.23	0.27
None or unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table J-24. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for private for-profit 4-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Average net price among full-time, first-time degree/certificate-seeking students receiving grant or scholarship aid ³					
\$1–\$18,736	‡	‡	‡	‡	‡
\$18,737–\$22,925	‡	‡	‡	‡	‡
\$22,926–\$25,540	21.34	21.20	21.48	-0.14	-0.28
\$25,541 or more	13.84	15.74	13.89	-0.05	1.85
None or unknown	‡	‡	‡	‡	‡
Percentage of students enrolled who were Black, non-Hispanic ³					
0–9	24.35	25.20	24.31	0.04	0.89
10–19	‡	‡	‡	‡	‡
20–37	32.16	27.58	32.05	0.11	-4.47*
38 or more	25.93	23.25	25.89	0.04	-2.64
Unknown	‡	‡	‡	‡	‡
Percentage of students enrolled who were Asian or Pacific Islander, non-Hispanic ³					
0–1	41.78	37.86	41.56	0.22	-3.70
2–3	30.46	28.17	30.53	-0.07	-2.36
4–5	8.20	9.05	8.34	-0.14*	0.71
6 or more	19.56	18.55	19.56	#	-1.01
Unknown	‡	‡	‡	‡	‡
Percentage of students enrolled who were Hispanic ³					
0–4	30.83	28.93	30.71	0.12	-1.78
5–9	22.54	21.02	22.69	-0.15	-1.67
10–21	‡	‡	‡	‡	‡
22 or more	22.67	22.28	22.76	-0.09	-0.48
Unknown	‡	‡	‡	‡	‡
Total undergraduate enrollment ³					
1–656	44.45	43.05	43.35	1.10*	-0.30
657–1,227	28.83	26.30	29.23	-0.40*	-2.93
1,228–2,474	14.48	14.48	14.87	-0.39*	-0.39
2,475 or more	9.77	10.58	10.03	-0.26*	0.55
None or unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table J-24. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for private for-profit 4-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Male undergraduate enrollment ²					
1–224	39.84	38.50	39.28	0.56*	-0.78
225–513	31.03	28.91	30.90	0.13	-1.99
514–1,100	16.36	16.33	16.75	-0.39*	-0.42
1,101 or more	10.29	10.66	10.57	-0.28*	0.09
None or unknown	‡	‡	‡	‡	‡
Female undergraduate enrollment ²					
1–312	42.20	39.69	41.45	0.75*	-1.76
313–699	27.31	26.62	27.28	0.03	-0.66
700–1,503	18.29	17.39	18.79	-0.50*	-1.40
1,504 or more	9.72	10.70	9.98	-0.26*	0.72
None or unknown	‡	‡	‡	‡	‡
Total graduate enrollment ²					
1–93	10.18	14.08	10.17	0.01	3.91
94–424	‡	‡	‡	‡	‡
425–1,262	7.84	7.15	7.99	-0.15*	-0.84
1,263 or more	5.49	5.55	5.64	-0.15*	-0.09
None or unknown	68.12	64.77	67.73	0.39*	-2.96
Male graduate enrollment ²					
1–36	‡	‡	‡	‡	‡
37–167	‡	‡	‡	‡	‡
168–532	7.16	6.72	7.31	-0.15*	-0.59
533 or more	5.65	5.55	5.80	-0.15*	-0.25
None or unknown	68.12	64.77	67.73	0.39*	-2.96
Female graduate enrollment ²					
1–60	10.29	14.20	10.29	#	3.91
61–253	‡	‡	‡	‡	‡
254–800	8.38	7.74	8.51	-0.13*	-0.77
801 or more	5.33	5.55	5.47	-0.14*	0.08
None or unknown	68.12	64.77	67.73	0.39*	-2.96

See notes at end of table.

Table J-24. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for private for-profit 4-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹	Full sample, base weighted	Respondents, adjusted for nonresponse and poststratification		
	(1)	(2)	(3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Number of bachelor's degrees awarded ³					
0–116	40.70	38.61	40.27	0.43*	-1.66
117–257	12.76	13.48	12.89	-0.13*	0.59
258–529	9.75	10.00	9.96	-0.21*	0.04
530 or more	‡	‡	‡	‡	‡
Unknown	27.06	29.24	26.90	0.16	2.34
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ³					
1–75	15.10	17.07	15.01	0.09	2.06
76–88	33.94	32.25	33.82	0.12	-1.57
89–95	‡	‡	‡	‡	‡
96 or more	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students living on campus ³					
0–32	‡	‡	‡	‡	‡
33–50	‡	‡	‡	‡	‡
51–99	‡	‡	‡	‡	‡
100 or more	‡	‡	‡	‡	‡
Unknown	91.35	91.02	91.17	0.18*	-0.15
Average amount of grant and scholarship aid received ³					
\$0–\$4,371	26.86	27.50	26.70	0.16	0.80
\$4,372–\$5,234	20.35	19.52	20.46	-0.11	-0.94
\$5,235–\$6,392	22.03	21.40	22.13	-0.10	-0.73
\$6,393 or more	14.92	14.37	15.10	-0.18*	-0.73
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table J-24. Institution-level analysis after nonresponse and poststratification adjustments for selected variables for private for-profit 4-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ³					
0–12	20.90	20.98	20.80	0.10	0.18
13–33	25.63	27.04	25.58	0.05	1.46
34–91	27.44	25.28	27.48	-0.04	-2.20
92 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡

Rounds to zero.

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

* $p < 0.05$.¹ Institution base weight, adjusted for nonresponse.

² New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.

³ Categories were defined by quartiles.

NOTE: Sample sizes rounded to the nearest 10 and, therefore, may not sum to total. "Base weight" refers to the institution sampling weight adjusted for field test sampling.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-25. Student-level (study member) nonresponse bias analysis for selected variables for students in all institutions: 2015–16

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted nonrespondents (study members)	Unweighted non- respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non- respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Control and level of institution						(Effect size=‡)				(Effect size=‡)	
Public less-than-2-year	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Public 2-year	15,650	1,670	29.36	28.82	36.64	-0.54*	-1.85	29.36	29.36	#	#
Public 4-year, non-doctorate-granting, primarily subbaccalaureate	5,090	450	3.85	3.80	4.55	-0.05	-1.36	3.85	3.85	#	#
Public 4-year, non-doctorate-granting, primarily baccalaureate	6,000	420	6.03	6.09	5.23	0.06	1.00	6.03	6.03	#	#
Public 4-year doctorate-granting	25,620	1,580	29.69	29.73	29.19	0.04	0.12	29.69	29.69	#	#
Private nonprofit less-than-4-year	1,130	30	0.38	0.40	0.05	0.02*	6.39	0.38	0.38	#	#
Private nonprofit 4-year non-doctorate-granting	10,430	350	6.90	7.16	3.49	0.25*	3.69	6.90	6.90	#	#
Private nonprofit 4-year doctorate-granting	13,720	510	13.77	14.01	10.46	0.25*	1.79	13.77	13.77	#	#
Private for-profit less-than-2-year	2,440	90	1.35	1.39	0.71	0.05*	3.54	1.35	1.35	#	#
Private for-profit 2-year	5,860	260	1.77	1.84	0.84	0.07*	3.94	1.77	1.77	#	#
Private for-profit 4-year	26,520	1,350	6.73	6.58	8.78	-0.15	-2.27	6.73	6.73	#	#
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ⁵						(Effect size=‡)				(Effect size=‡)	
New England	4,400	320	5.21	5.18	5.71	-0.04	-0.71	5.21	5.21	#	#
Mid East	17,870	1,050	15.38	15.49	13.92	0.11	0.71	15.38	15.38	#	#
Great Lakes	15,600	760	13.92	14.13	11.13	0.21*	1.50	13.92	13.92	#	#
Plains	8,270	630	7.76	7.74	8.03	-0.02	-0.26	7.76	7.76	#	#
Southeast	28,740	1,630	22.79	22.86	21.81	0.07	0.32	22.79	22.78	-0.01	-0.05
Southwest	13,740	710	12.19	12.32	10.40	0.13	1.10	12.19	12.19	#	#
Rocky Mountains	5,730	240	4.40	4.44	3.77	0.05	1.06	4.40	4.40	#	#
Far West	16,720	1,370	17.23	16.65	24.99	-0.58*	-3.36	17.23	17.23	#	#
Outlying areas	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Student type						(Effect size=0.01)				(Effect size=#)	
Undergraduate student	89,220	5,800	84.41	84.03	89.57	-0.38*	-0.46	84.41	84.41	#	#
Graduate student	21,080	860	13.86	14.17	9.68	0.31*	2.25	13.86	13.86	#	#
First professional student	2,520	60	1.72	1.80	0.75	0.07*	4.21	1.72	1.72	#	#

See notes at end of table.

Table J-25. Student-level (study member) nonresponse bias analysis for selected variables for students in all institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted non-respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Federal aid status						(Effect size=0.09)				(Effect size=#)	
Received	69,540	630	54.38	57.88	7.44	3.50*	6.44	54.38	54.38	#	#
Did not receive	35,800	3,130	36.29	34.97	53.94	-1.32*	-3.63	36.29	36.29	#	#
Unknown	7,490	2,970	9.34	7.15	38.61	-2.18*	-23.39	9.34	9.34	#	#
Pell Grant status						(Effect size=0.06)				(Effect size=#)	
Received	39,980	110	38.09	41.01	1.35	2.75*	7.23	38.09	38.09	#	#
Did not receive	49,240	5,690	61.91	58.99	98.65	-2.75*	-4.45	61.91	61.91	#	#
Total Pell amount received ⁶						(Effect size=‡)				(Effect size=‡)	
None	49,240	5,690	61.91	58.99	98.65	-2.75*	-4.45	61.91	61.91	#	#
\$1–\$2,888	13,310	40	12.00	12.92	0.44	0.87*	7.22	12.00	12.01	0.01	0.05
\$2,889–\$5,774	15,740	50	15.44	16.62	0.63	1.11*	7.19	15.44	15.43	-0.01	-0.04
\$5,775	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Stafford Loan status						(Effect size=0.05)				(Effect size=#)	
Received	49,840	170	37.01	39.65	1.67	2.64*	7.12	37.01	37.01	#	#
Did not receive	62,980	6,560	62.99	60.35	98.33	-2.64*	-4.18	62.99	62.99	#	#
Total Stafford amount received ⁷						(Effect size=‡)				(Effect size=‡)	
None	62,980	6,560	62.99	60.35	98.33	-2.64*	-4.18	62.99	62.99	#	#
\$1–\$4,750	12,630	40	9.16	9.82	0.32	0.66*	7.20	9.16	9.17	#	0.03
\$4,751–\$7,500	16,610	60	14.60	15.64	0.65	1.04*	7.13	14.60	14.59	#	-0.01
\$7,501–\$11,000	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$11,001 or more	12,420	50	7.66	8.21	0.37	0.54*	7.10	7.66	7.66	#	-0.03
Institution total enrollment ⁸						(Effect size=0.02)				(Effect size=#)	
None	28,950	1,080	10.78	11.20	5.16	0.42*	3.89	10.78	10.78	#	#
1–2,557	28,270	1,430	22.54	23.14	14.47	0.60*	2.67	22.54	22.54	#	#
2,558–10,412	28,000	1,930	32.11	32.02	33.38	-0.09	-0.29	32.11	32.11	#	#
10,413–27,004	27,610	2,290	34.57	33.64	46.99	-0.93*	-2.68	34.57	34.57	#	#

See notes at end of table.

Table J-25. Student-level (study member) nonresponse bias analysis for selected variables for students in all institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted non-respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Sampled baccalaureate recipient						(Effect size=0.01)				(Effect size=#)	
Baccalaureate recipient	36,170	1,350	8.06	8.31	4.66	0.25*	3.14	8.06	8.06	#	#
Not baccalaureate recipient	76,660	5,370	91.94	91.69	95.34	-0.25*	-0.28	91.94	91.94	#	#
Age as of Dec 31, 2015						(Effect size=‡)				(Effect size=‡)	
15–23	49,280	2,330	53.58	54.30	44.00	0.71*	1.33	53.58	53.95	0.37*	0.69
24–29	27,030	1,300	20.42	20.58	18.29	0.16*	0.78	20.42	20.58	0.16	0.77
30 or older	36,510	2,160	25.28	25.12	27.50	-0.17	-0.65	25.28	25.46	0.18	0.71
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Institutional aid status						(Effect size=0.05)				(Effect size=#)	
Received	32,660	620	24.37	25.56	8.51	1.18*	4.86	24.37	24.37	#	#
Did not receive	62,500	3,080	59.47	59.99	52.60	0.51*	0.86	59.47	59.47	#	#
Unknown	17,660	3,030	16.15	14.46	38.89	-1.70*	-10.50	16.15	16.15	#	#
State aid status						(Effect size=0.05)				(Effect size=#)	
Received	14,860	110	16.27	17.32	2.16	1.05*	6.47	16.27	16.27	#	#
Did not receive	79,950	3,580	68.07	68.72	59.35	0.65*	0.96	68.07	68.07	#	#
Unknown	18,020	3,040	15.66	13.95	38.49	-1.70*	-10.88	15.66	15.66	#	#
Parent's highest level of education						(Effect size=‡)				(Effect size=‡)	
Middle school/junior high	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
High school	24,150	90	29.43	29.43	28.39	0.07	0.24	29.43	29.14	-0.29	-0.97
College or beyond	42,090	150	54.34	54.35	52.41	0.13	0.25	54.34	54.73	0.39*	0.72
Unknown	10,790	40	12.65	12.63	16.60	-0.28	-2.18	12.65	12.52	-0.12	-0.97
Marital status						(Effect size=‡)				(Effect size=‡)	
Unmarried-single/divorce/widow	60,490	200	80.21	80.22	77.46	0.19	0.24	80.21	80.40	0.19*	0.23
Married/remarried	14,360	70	14.76	14.75	17.20	-0.17	-1.15	14.76	14.62	-0.14	-0.97
Separated	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Divorced or widowed	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-25. Student-level (study member) nonresponse bias analysis for selected variables for students in all institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted non-respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Support children						(Effect size=‡)				(Effect size=‡)	
Has dependents	22,260	70	22.38	22.38	20.35	0.14	0.63	22.38	22.16	-0.22	-0.97
Does not have dependents	57,770	210	77.62	77.61	79.65	-0.14	-0.18	77.62	77.84	0.22*	0.28
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Income ⁷						(Effect size=‡)				(Effect size=‡)	
\$0 or less	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$1–\$11,400	13,230	50	14.74	14.74	15.63	-0.06	-0.42	14.74	14.65	-0.09	-0.61
\$11,401–\$29,232	19,880	50	23.59	23.61	18.46	0.36	1.52	23.59	23.50	-0.10	-0.41
\$29,233–\$66,687	19,870	70	25.67	25.68	21.57	0.29	1.11	25.67	25.63	-0.04*	-0.16
\$66,688 or more	19,870	70	27.56	27.55	30.07	-0.18	-0.64	27.56	27.80	0.24*	0.89
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Major						(Effect size=‡)				(Effect size=‡)	
Undecided	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Humanities	11,980	930	16.88	16.56	21.42	-0.34*	-2.00	16.88	16.67	-0.22	-1.28
Social/behavioral sciences	5,690	220	7.17	7.29	5.51	0.12*	1.72	7.17	7.25	0.08*	1.10
Life sciences	6,290	310	8.01	8.09	6.97	0.08	0.97	8.01	8.00	-0.02	-0.20
Physical sciences/math	1,360	80	1.81	1.81	1.77	#	0.15	1.81	1.84	0.03	1.69
Computer/information science	5,510	290	4.32	4.34	4.09	0.02	0.41	4.32	4.43	0.11*	2.53
Engineering	4,900	290	6.17	6.20	5.79	0.03	0.46	6.17	6.24	0.07*	1.09
Education	5,260	130	4.38	4.56	1.82	0.19*	4.35	4.38	4.43	0.05*	1.25
Business/Management	11,890	750	15.68	15.63	16.43	-0.06	-0.35	15.68	15.89	0.21*	1.32
Health	18,200	500	16.68	17.34	7.56	0.68*	4.07	16.68	16.95	0.27*	1.63
Vocational/technical	2,660	270	2.84	2.75	4.07	-0.09*	-3.23	2.84	2.76	-0.08	-2.75
Other technical/professional	11,300	480	11.89	12.10	9.05	0.21*	1.78	11.89	11.94	0.05	0.42
Unknown	2,610	960	3.84	2.99	15.52	-0.87*	-22.67	3.84	3.19	-0.65*	-16.86

See notes at end of table.

Table J-25. Student-level (study member) nonresponse bias analysis for selected variables for students in all institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted non-respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Degree program (undergraduate only)						(Effect size=0.09)				(Effect size=0.08)	
Postsecondary award, certificate or diploma of less than two academic years	9,340	620	7.54	7.44	8.86	-0.10	-1.31	7.54	7.47	-0.07	-0.95
Associate's degree	22,720	1,320	36.65	37.22	29.53	0.53*	1.46	36.65	37.33	0.68*	1.86
Postsecondary award, certificate, diploma, or degree program	55,690	2,630	52.12	53.02	40.84	0.85*	1.62	52.12	52.51	0.38	0.74
Bachelor's degree or equivalent	1,400	590	2.89	2.22	11.41	-0.64*	-22.05	2.89	2.58	-0.32*	-11.00
Unknown	70	640	0.79	0.11	9.36	-0.64*	-81.49	0.79	0.11	-0.68*	-85.87
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ^a						(Effect size=0.02)				(Effect size=0.01)	
1–67	28,280	2,140	33.81	33.06	43.92	-0.75*	-2.23	33.81	33.84	0.02	0.07
68–83	31,140	2,130	30.37	30.40	29.97	0.03	0.10	30.37	30.50	0.13	0.42
84–95	29,400	1,580	21.55	21.92	16.54	0.37*	1.73	21.55	21.59	0.04	0.20
96 or more	18,290	560	11.75	12.12	6.78	0.37*	3.16	11.75	11.62	-0.13	-1.11
None or Unknown	5,710	310	2.52	2.50	2.79	-0.02	-0.78	2.52	2.46	-0.06	-2.54
Number of first-time, full-time undergraduate students living on campus ^a						(Effect size=0.02)				(Effect size=#)	
0–188	12,980	650	9.52	9.66	7.59	0.14§	1.51	9.52	9.50	-0.01	-0.14
189–424	10,100	550	8.70	8.89	6.12	0.19*	2.21	8.70	8.70	#	0.01
425–819	12,000	460	11.56	11.85	7.76	0.28*	2.45	11.56	11.64	0.08	0.69
820 or more	24,230	1,330	26.68	26.73	25.95	0.05	0.20	26.68	26.65	-0.03	-0.12
Unknown	53,520	3,730	43.54	42.86	52.58	-0.67*	-1.55	43.54	43.50	-0.03	-0.08
Average amount of grant and scholarship aid received ^a						(Effect size=0.01)				(Effect size=0.01)	
\$0–\$4,744	22,160	1,710	21.48	21.11	26.42	-0.37*	-1.72	21.48	21.52	0.04	0.19
\$4,745–\$6,192	30,350	1,790	28.22	28.26	27.65	0.04	0.15	28.22	28.11	-0.11	-0.37
\$6,193–\$11,968	34,420	2,000	31.31	31.57	27.84	0.26	0.83	31.31	31.54	0.23	0.75
\$11,969 or more	19,380	870	16.40	16.48	15.23	0.09	0.53	16.40	16.30	-0.10	-0.62
Unknown	6,510	370	2.60	2.58	2.86	-0.02	-0.75	2.60	2.53	-0.07	-2.58

Table J-25. Student-level (study member) nonresponse bias analysis for selected variables for students in all institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted non-respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ^a						(Effect size=0.01)				(Effect size=#)	
0–47	21,530	1,210	10.41	10.45	9.90	0.04	0.37	10.41	10.51	0.09	0.91
48–116	20,940	970	15.08	15.33	11.73	0.25*	1.65	15.08	15.11	0.03	0.22
117–308	25,190	1,520	25.75	25.53	28.58	-0.21	-0.82	25.75	25.69	-0.06	-0.23
309 or more	38,830	2,660	46.05	45.98	46.92	-0.07	-0.14	46.05	46.04	-0.01	-0.01
Unknown	6,330	370	2.71	2.70	2.86	-0.01	-0.40	2.71	2.65	-0.06	-2.29
Veteran status						(Effect size=#)				(Effect size=#)	
Yes	9,880	650	5.10	5.02	6.19	-0.08§	-1.58	5.10	5.10	#	#
No	102,940	6,080	94.90	94.98	93.81	0.08§	0.09	94.90	94.90	#	#
Race						(Effect size=0.08)				(Effect size=0.07)	
White	57,660	2,450	52.59	53.52	40.07	0.93*	1.78	52.59	53.24	0.65*	1.24
Black or African American	18,530	460	13.65	14.16	6.93	0.50*	3.67	13.65	13.81	0.16	1.16
Hispanic	18,270	970	17.39	17.40	17.26	0.01	0.06	17.39	17.46	0.07	0.40
Asian	9,110	400	7.69	7.80	6.14	0.12*	1.50	7.69	8.17	0.48*	6.24
American Indian or Alaska Native	760	40	0.70	0.71	0.47	0.02	2.46	0.70	0.71	0.01	1.18
Native Hawaiian or other Pacific Islander	480	40	0.35	0.35	0.28	0.01	1.47	0.35	0.35	#	1.35
More than one race	3,270	60	3.03	3.17	1.09	0.14*	4.77	3.03	3.09	0.07*	2.26
Unknown	4,730	2,310	4.61	2.88	27.76	-1.73*	-37.47	4.61	3.17	-1.44*	-31.29

See notes at end of table.

Table J-25. Student-level (study member) nonresponse bias analysis for selected variables for students in all institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non- respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non- respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Sex						(Effect size=‡)				(Effect size=‡)	
Male	47,820	3,260	43.66	43.14	50.61	-0.52*	-1.19	43.66	43.94	0.28*	0.64
Female	65,000	2,660	55.72	56.86	40.41	1.14*	2.05	55.72	56.06	0.34	0.61
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than 30 unweighted nonrespondents).

* $p < 0.05$ § $p < 0.05$ for difference between weighted respondent mean and weighted nonrespondent mean but not for estimated bias.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 calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Student base weight, adjusted for nonresponse.⁴ 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).⁵ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.⁶ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.⁷ Categories were defined by quartiles.⁸ Categories were defined by quartiles computed at the institution level.

NOTE: Sample sizes rounded to the nearest 10 and, therefore, may not sum to total. 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. "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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-26. Student-level (study member) nonresponse bias analysis for selected variables for students in public less-than-2-year institutions: 2015–16

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ⁵						(Effect size=†)				(Effect size=†)	
New England	†	†	†	†	†	†	†	†	†	†	†
Mid East	†	†	†	†	†	†	†	†	†	†	†
Great Lakes	†	†	†	†	†	†	†	†	†	†	†
Plains	†	†	†	†	†	†	†	†	†	†	†
Southeast	†	†	†	†	†	†	†	†	†	†	†
Southwest	†	†	†	†	†	†	†	†	†	†	†
Rocky Mountains	†	†	†	†	†	†	†	†	†	†	†
Far West	†	†	†	†	†	†	†	†	†	†	†
Outlying areas	†	†	†	†	†	†	†	†	†	†	†
Federal aid status						(Effect size=†)				(Effect size=†)	
Received	†	†	†	†	†	†	†	†	†	†	†
Did not receive	†	†	†	†	†	†	†	†	†	†	†
Unknown	†	†	†	†	†	†	†	†	†	†	†
Pell Grant status						(Effect size=†)				(Effect size=†)	
Received	†	†	†	†	†	†	†	†	†	†	†
Did not receive	†	†	†	†	†	†	†	†	†	†	†
Total Pell amount received ⁶						(Effect size=†)				(Effect size=†)	
None	†	†	†	†	†	†	†	†	†	†	†
\$1–\$2,888	†	†	†	†	†	†	†	†	†	†	†
\$2,889–\$5,774	†	†	†	†	†	†	†	†	†	†	†
\$5,775	†	†	†	†	†	†	†	†	†	†	†
Stafford Loan status						(Effect size=†)				(Effect size=†)	
Received	†	†	†	†	†	†	†	†	†	†	†
Did not receive	†	†	†	†	†	†	†	†	†	†	†

See notes at end of table.

Table J-26. Student-level (study member) nonresponse bias analysis for selected variables for students in public less-than-2-year institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Total Stafford amount received ⁷						(Effect size=†)				(Effect size=†)	
None	†	†	†	†	†	†	†	†	†	†	†
\$1–\$3,336	†	†	†	†	†	†	†	†	†	†	†
\$3,337–\$4,750	†	†	†	†	†	†	†	†	†	†	†
\$4,751–\$7,272	†	†	†	†	†	†	†	†	†	†	†
\$7,273 or more	†	†	†	†	†	†	†	†	†	†	†
Institution total enrollment ⁸						(Effect size=†)				(Effect size=†)	
1–242	†	†	†	†	†	†	†	†	†	†	†
243–422	†	†	†	†	†	†	†	†	†	†	†
423–734	†	†	†	†	†	†	†	†	†	†	†
735 or more	†	†	†	†	†	†	†	†	†	†	†
Sampled baccalaureate recipient						(Effect size=†)				(Effect size=†)	
Baccalaureate recipient	†	†	†	†	†	†	†	†	†	†	†
Not baccalaureate recipient	†	†	†	†	†	†	†	†	†	†	†
Age as of Dec 31, 2015						(Effect size=†)				(Effect size=†)	
15–23	†	†	†	†	†	†	†	†	†	†	†
24–29	†	†	†	†	†	†	†	†	†	†	†
30 or older	†	†	†	†	†	†	†	†	†	†	†
Unknown	†	†	†	†	†	†	†	†	†	†	†
Institutional aid status						(Effect size=†)				(Effect size=†)	
Received	†	†	†	†	†	†	†	†	†	†	†
Did not receive	†	†	†	†	†	†	†	†	†	†	†
Unknown	†	†	†	†	†	†	†	†	†	†	†
State aid status						(Effect size=†)				(Effect size=†)	
Received	†	†	†	†	†	†	†	†	†	†	†
Did not receive	†	†	†	†	†	†	†	†	†	†	†
Unknown	†	†	†	†	†	†	†	†	†	†	†

See notes at end of table.

Table J-26. Student-level (study member) nonresponse bias analysis for selected variables for students in public less-than-2-year institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted non-respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted		Respondents vs. Full sample		Means		Full sample vs. Respondents		
			Full sample	Respondent	Non- respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Parent's highest level of education						(Effect size=†)				(Effect size=†)	
Middle school/junior high	†	†	†	†	†	†	†	†	†	†	†
High school	†	†	†	†	†	†	†	†	†	†	†
College or beyond	†	†	†	†	†	†	†	†	†	†	†
Unknown	†	†	†	†	†	†	†	†	†	†	†
Marital status						(Effect size=†)				(Effect size=†)	
Unmarried-single/divorce/widow	†	†	†	†	†	†	†	†	†	†	†
Married/remarried	†	†	†	†	†	†	†	†	†	†	†
Separated	†	†	†	†	†	†	†	†	†	†	†
Divorced or widowed	†	†	†	†	†	†	†	†	†	†	†
Support children						(Effect size=†)				(Effect size=†)	
Has dependents	†	†	†	†	†	†	†	†	†	†	†
Does not have dependents	†	†	†	†	†	†	†	†	†	†	†
Unknown	†	†	†	†	†	†	†	†	†	†	†
Income ⁷						(Effect size=†)				(Effect size=†)	
\$0 or less	†	†	†	†	†	†	†	†	†	†	†
\$1–\$9,200	†	†	†	†	†	†	†	†	†	†	†
\$9,201–\$20,396	†	†	†	†	†	†	†	†	†	†	†
\$20,397–\$38,490	†	†	†	†	†	†	†	†	†	†	†
\$38,491 or more	†	†	†	†	†	†	†	†	†	†	†
Unknown	†	†	†	†	†	†	†	†	†	†	†

See notes at end of table.

Table J-26. Student-level (study member) nonresponse bias analysis for selected variables for students in public less-than-2-year institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Major						(Effect size=†)				(Effect size=†)	
Undecided	†	†	†	†	†	†	†	†	†	†	†
Humanities	†	†	†	†	†	†	†	†	†	†	†
Social/behavioral sciences	†	†	†	†	†	†	†	†	†	†	†
Life sciences	†	†	†	†	†	†	†	†	†	†	†
Physical sciences/math	†	†	†	†	†	†	†	†	†	†	†
Computer/information science	†	†	†	†	†	†	†	†	†	†	†
Engineering	†	†	†	†	†	†	†	†	†	†	†
Education	†	†	†	†	†	†	†	†	†	†	†
Business/Management	†	†	†	†	†	†	†	†	†	†	†
Health	†	†	†	†	†	†	†	†	†	†	†
Vocational/technical	†	†	†	†	†	†	†	†	†	†	†
Other technical/professional	†	†	†	†	†	†	†	†	†	†	†
Unknown	†	†	†	†	†	†	†	†	†	†	†
Degree program (undergraduate only)						(Effect size=†)				(Effect size=†)	
Postsecondary award, certificate or diploma of less than two academic years	†	†	†	†	†	†	†	†	†	†	†
Associate's degree	†	†	†	†	†	†	†	†	†	†	†
Postsecondary award, certificate, diploma, or degree program	†	†	†	†	†	†	†	†	†	†	†
Bachelor's degree or equivalent	†	†	†	†	†	†	†	†	†	†	†
Unknown	†	†	†	†	†	†	†	†	†	†	†
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ^a						(Effect size=†)				(Effect size=†)	
1–60	†	†	†	†	†	†	†	†	†	†	†
61–82	†	†	†	†	†	†	†	†	†	†	†
83–91	†	†	†	†	†	†	†	†	†	†	†
92 or more	†	†	†	†	†	†	†	†	†	†	†
None or unknown	†	†	†	†	†	†	†	†	†	†	†

See notes at end of table.

Table J-26. Student-level (study member) nonresponse bias analysis for selected variables for students in public less-than-2-year institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Number of first-time, full-time undergraduate students living on campus ^a						(Effect size=‡)				(Effect size=‡)	
0–85	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Average amount of grant and scholarship aid received ^a						(Effect size=‡)				(Effect size=‡)	
\$0–\$3,601	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$3,602–\$4,071	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$4,072–\$5,407	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$5,408 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ^a						(Effect size=‡)				(Effect size=‡)	
0–6	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
7–22	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
23–40	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
41 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Veteran status						(Effect size=‡)				(Effect size=‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
No	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-26. Student-level (study member) nonresponse bias analysis for selected variables for students in public less-than-2-year institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted non-respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted		Respondents vs. Full sample		Means		Full sample vs. Respondents		
			Full sample	Respondent	Non- respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Race						(Effect size=‡)				(Effect size=‡)	
White	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Black or African American	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Hispanic	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Asian	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
American Indian or Alaska Native	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
More than one race	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Sex						(Effect size=‡)				(Effect size=‡)	
Male	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Female	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

‡ Reporting standards not met (fewer than 30 unweighted 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 calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.

³ Student base weight, adjusted for nonresponse.

⁴ 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).

⁵ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.

⁶ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.

⁷ Categories were defined by quartiles.

⁸ Categories were defined by quartiles computed at the institution level.

NOTE: Sample sizes rounded to the nearest 10 and, therefore, may not sum to total. 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. "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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-27. Student-level (study member) nonresponse bias analysis for selected variables for students in public 2-year institutions: 2015–16

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ⁵						(Effect size=‡)				(Effect size=‡)	
New England	510	50	3.83	3.85	3.60	0.02	0.56	3.83	3.86	0.03	0.72
Mid East	2,030	160	12.24	12.59	8.50	0.35*	2.89	12.24	12.24	0.01	0.05
Great Lakes	1,900	160	13.53	13.66	12.18	0.13	0.95	13.53	13.50	-0.04	-0.27
Plains	1,180	100	6.85	6.96	5.62	0.12	1.69	6.85	6.59	-0.25*	-3.70
Southeast	3,030	410	18.09	18.11	17.82	0.03	0.14	18.09	17.72	-0.36	-2.02
Southwest	2,730	200	16.66	16.98	13.30	0.32	1.91	16.66	16.82	0.16	0.94
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	3,750	550	25.83	24.73	37.46	-1.10*	-4.27	25.83	26.20	0.37	1.44
Outlying areas	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Federal aid status						(Effect size=0.10)				(Effect size=0.01)	
Received	8,260	80	47.08	51.08	4.90	4.00*	8.50	47.08	47.08	#	-0.01
Did not receive	5,800	810	40.87	39.58	54.44	-1.29*	-3.15	40.87	41.11	0.25	0.60
Unknown	1,590	790	12.05	9.34	40.66	-2.71*	-22.52	12.05	11.81	-0.24	-2.02
Pell Grant status						(Effect size=‡)				(Effect size=‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	9,050	1,650	62.03	58.54	98.83	-3.49*	-5.63	62.03	62.02	-0.01	-0.01
Total Pell amount received ⁶						(Effect size=‡)				(Effect size=‡)	
None	9,050	1,650	62.03	58.54	98.83	-3.49*	-5.63	62.03	62.02	-0.01	-0.01
\$1–\$2,888	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$2,889–\$5,774	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$5,775	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Stafford Loan status						(Effect size=‡)				(Effect size=‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	12,180	1,660	81.28	79.57	99.27	-1.71*	-2.10	81.28	81.29	0.01	0.02

See notes at end of table.

Table J-27. Student-level (study member) nonresponse bias analysis for selected variables for students in public 2-year institutions: 2015–16—Continued

Variable	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Before weight adjustments					After nonresponse weight adjustment				
			Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents		
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²	
Total Stafford amount received ⁷						(Effect size=‡)				(Effect size=‡)		
None	12,180	1,660	81.28	79.57	99.27	-1.71*	-2.10	81.28	81.29	0.01	0.02	
\$1–\$3,250	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	
\$3,251–\$5,250	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	
\$5,251–\$7,500	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	
\$7,501 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	
Institution total enrollment ⁸						(Effect size=0.02)				(Effect size=0.01)		
1–9,515	3,780	340	24.35	25.13	16.07	0.79*	3.22	24.35	24.28	-0.07	-0.28	
9,516–17,048	3,800	390	25.66	25.62	26.15	-0.05	-0.18	25.66	25.35	-0.32	-1.23	
17,049–29,306	3,930	390	23.96	24.05	23.07	0.08	0.35	23.96	24.13	0.17	0.69	
29,307 or more	4,130	550	26.03	25.20	34.71	-0.82*	-3.16	26.03	26.25	0.22	0.84	
Sampled baccalaureate recipient						(Effect size=‡)				(Effect size=‡)		
Baccalaureate recipient	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	
Not baccalaureate recipient	15,600	1,670	99.88	99.89	99.82	0.01	0.01	99.88	99.89	0.01	0.01	
Age as of Dec 31, 2015						(Effect size=‡)				(Effect size=‡)		
15–23	8,600	720	53.84	54.66	45.16	0.82*	1.53	53.84	54.11	0.27	0.50	
24–29	3,140	320	19.89	19.93	19.46	0.04	0.20	19.89	19.92	0.03	0.14	
30 or older	3,910	560	26.03	25.41	32.54	-0.62*	-2.37	26.03	25.98	-0.05	-0.19	
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	
Institutional aid status						(Effect size=‡)				(Effect size=‡)		
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	
Did not receive	11,410	870	74.79	76.33	58.58	1.54*	2.06	74.79	74.97	0.18	0.24	
Unknown	3,320	780	19.18	17.22	39.87	-1.96*	-10.23	19.18	19.02	-0.16	-0.86	
State aid status						(Effect size=0.06)				(Effect size=0.01)		
Received	3,190	50	20.38	21.97	3.55	1.60*	7.83	20.38	20.31	-0.07	-0.32	
Did not receive	9,680	880	63.46	63.93	58.42	0.48	0.75	63.46	63.73	0.27	0.43	
Unknown	2,780	730	16.17	14.09	38.02	-2.07*	-12.82	16.17	15.96	-0.21	-1.28	

See notes at end of table.

Table J-27. Student-level (study member) nonresponse bias analysis for selected variables for students in public 2-year institutions: 2015–16—Continued

Variable	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Before weight adjustments					After nonresponse weight adjustment				
			Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents		
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²	
Parent's highest level of education						(Effect size=†)				(Effect size=†)		
Middle school/junior high	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
High school	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
College or beyond	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Marital status						(Effect size=†)				(Effect size=†)		
Unmarried-single/divorce/widow	8,980	30	79.89	79.88	80.91	-0.09	-0.11	79.89	80.14	0.26*	0.32	
Married/remarried	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Separated	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Divorced or widowed	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Support children						(Effect size=†)				(Effect size=†)		
Has dependents	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Does not have dependents	8,310	30	73.92	73.90	79.75	-0.51	-0.69	73.92	74.27	0.35*	0.47	
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Income ⁷						(Effect size=†)				(Effect size=†)		
\$0 or less	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$1–\$11,452	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$11,453–\$25,712	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$25,713–\$53,968	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$53,969 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-27. Student-level (study member) nonresponse bias analysis for selected variables for students in public 2-year institutions: 2015–16—Continued

Variable	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Before weight adjustments					After nonresponse weight adjustment				
			Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents		
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²	
Major						(Effect size=‡)				(Effect size=‡)		
Undecided	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Humanities	3,710	380	25.41	24.95	31.21	-0.54*	-2.13	25.41	25.01	-0.40	-1.58	
Social/behavioral sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Life sciences	690	60	4.63	4.56	5.57	-0.09	-1.88	4.63	4.56	-0.07	-1.52	
Physical sciences/math	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Computer/information science	610	40	4.19	4.26	3.40	0.07	1.76	4.19	4.40	0.20*	4.88	
Engineering	700	60	4.70	4.79	3.56	0.11	2.26	4.70	4.86	0.16*	3.41	
Education	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Business/Management	1,860	120	12.47	12.66	10.10	0.22*	1.78	12.47	12.86	0.39*	3.15	
Health	2,820	120	19.15	19.93	9.33	0.92*	4.80	19.15	19.33	0.17*	0.90	
Vocational/technical	610	160	4.58	4.27	8.46	-0.36*	-7.92	4.58	4.35	-0.23	-4.94	
Other technical/professional	1,600	130	11.30	11.30	11.33	#	-0.02	11.30	11.21	-0.09	-0.80	
Unknown	680	190	4.10	3.49	11.73	-0.71*	-17.44	4.10	3.61	-0.48*	-11.78	
Degree program (undergraduate only)						(Effect size=‡)				(Effect size=‡)		
Postsecondary award, certificate or diploma of less than two academic years	1,390	250	9.18	8.90	12.08	-0.28*	-3.00	9.18	9.16	-0.02	-0.21	
Associate's degree	13,270	950	83.73	86.00	59.82	2.27*	2.71	83.73	85.22	1.49*	1.77	
Postsecondary award, certificate, diploma, or degree program	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bachelor's degree or equivalent	940	340	6.19	4.85	20.30	-1.34*	-21.61	6.19	5.37	-0.82*	-13.25	
Unknown	50	130	0.90	0.24	7.80	-0.65*	-72.89	0.90	0.25	-0.65*	-71.86	
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ^a						(Effect size=‡)				(Effect size=‡)		
1–59	4,300	480	28.56	28.20	32.38	-0.36	-1.27	28.56	28.91	0.34	1.20	
60–70	3,770	470	25.00	24.49	30.38	-0.51	-2.04	25.00	24.78	-0.22	-0.88	
71–81	3,920	370	25.41	25.65	22.93	0.24	0.93	25.41	25.26	-0.15	-0.60	
82 or more	3,620	350	20.79	21.42	14.20	0.62*	3.01	20.79	20.83	0.03	0.15	
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-27. Student-level (study member) nonresponse bias analysis for selected variables for students in public 2-year institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Number of first-time, full-time undergraduate students living on campus ^a						(Effect size=‡)				(Effect size=‡)	
0–34	600	50	3.93	3.99	3.32	0.06	1.47	3.93	3.91	-0.02	-0.47
35–97	430	60	2.91	2.86	3.37	-0.04	-1.51	2.91	2.73	-0.17*	-6.01
98–182	630	30	3.86	4.02	2.16	0.16*	4.16	3.86	3.83	-0.03	-0.81
183 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	13,370	1,510	85.69	85.28	89.96	-0.41*	-0.47	85.69	85.89	0.20	0.23
Average amount of grant and scholarship aid received ^a						(Effect size=‡)				(Effect size=‡)	
\$0–\$4,382	3,620	530	23.49	23.12	27.37	-0.37	-1.56	23.49	23.52	0.03	0.13
\$4,383–\$4,761	3,730	330	23.85	24.00	22.27	0.15	0.63	23.85	24.40	0.55	2.29
\$4,762–\$5,147	3,930	410	25.20	25.08	26.52	-0.12	-0.50	25.20	24.84	-0.36	-1.45
\$5,148 or more	4,330	400	27.22	27.55	23.74	0.33	1.21	27.22	27.01	-0.21	-0.76
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ^a						(Effect size=‡)				(Effect size=‡)	
0–148	3,000	370	18.88	19.04	17.14	0.17	0.87	18.88	18.89	0.01	0.07
149–277	3,220	400	22.71	22.14	28.71	-0.57	-2.51	22.71	22.23	-0.48	-2.11
278–505	3,690	350	23.96	24.02	23.35	0.06	0.24	23.96	24.32	0.35	1.48
506 or more	5,700	550	34.22	34.55	30.69	0.33	0.98	34.22	34.33	0.11	0.33
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Veteran status						(Effect size=0.01)				(Effect size=#)	
Yes	910	120	5.12	4.98	6.59	-0.14*	-2.72	5.12	5.06	-0.06	-1.08
No	14,740	1,550	94.88	95.02	93.41	0.14*	0.15	94.88	94.94	0.06	0.06

See notes at end of table.

Table J-27. Student-level (study member) nonresponse bias analysis for selected variables for students in public 2-year institutions: 2015–16—Continued

Variable	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Before weight adjustments					After nonresponse weight adjustment				
			Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents		
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²	
Race						(Effect size=‡)				(Effect size=‡)		
White	7,480	770	49.02	49.20	47.14	0.18	0.36	49.02	49.11	0.09	0.18	
Black or African American	2,460	150	14.35	14.99	7.62	0.64*	4.45	14.35	14.44	0.08	0.58	
Hispanic	3,570	410	23.10	22.82	26.04	-0.28	-1.21	23.10	23.06	-0.03	-0.14	
Asian	1,080	90	6.24	6.35	5.18	0.10	1.62	6.24	6.67	0.43*	6.82	
American Indian or Alaska Native	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	
More than one race	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	
Unknown	320	210	2.59	1.71	11.87	-0.88*	-34.02	2.59	1.94	-0.65*	-25.13	
Sex						(Effect size=‡)				(Effect size=‡)		
Male	6,750	920	44.10	43.10	54.58	-0.99*	-2.25	44.10	44.33	0.23	0.52	
Female	8,900	630	55.43	56.90	40.02	1.46*	2.64	55.43	55.67	0.24	0.43	
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	

Rounds to zero.

‡ Reporting standards not met (fewer than 30 unweighted 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 calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Student base weight, adjusted for nonresponse.⁴ 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).⁵ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.⁶ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.⁷ Categories were defined by quartiles.⁸ Categories were defined by quartiles computed at the institution level.

NOTE: Sample sizes rounded to the nearest 10 and, therefore, may not sum to total. 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. "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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-28. Student-level (study member) nonresponse bias analysis for selected variables for students in public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2015–16

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non- respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non- respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ⁵						(Effect size=‡)				(Effect size=‡)	
New England	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Mid East	870	100	5.07	5.36	1.89	0.28	5.60	5.07	5.12	0.05	0.93
Great Lakes	920	60	11.76	11.99	9.19	0.23	1.95	11.76	11.49	-0.27	-2.30
Plains	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southeast	2,220	200	52.72	52.97	49.99	0.24	0.46	52.72	52.77	0.04	0.08
Southwest	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	520	60	19.80	18.78	31.23	-1.02	-5.16	19.80	20.01	0.21	1.06
Outlying areas	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Student type						(Effect size=‡)				(Effect size=‡)	
Undergraduate student	5,030	450	99.44	99.43	99.60	-0.01	-0.01	99.44	99.45	0.01	0.01
Graduate student	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
First professional student	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Federal aid status						(Effect size=‡)				(Effect size=‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	1,790	240	40.09	38.74	55.23	-1.35	-3.37	40.09	40.77	0.68	1.69
Unknown	370	190	9.07	6.27	40.39	-2.80§	-30.87	9.07	8.31	-0.76	-8.37
Pell Grant status						(Effect size=‡)				(Effect size=‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	2,990	440	60.62	57.21	98.78	-3.41*	-5.63	60.62	60.62	-0.01	-0.01
Total Pell amount received ⁶						(Effect size=‡)				(Effect size=‡)	
None	2,990	440	60.62	57.21	98.78	-3.41*	-5.63	60.62	60.62	-0.01	-0.01
\$1–\$2,888	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$2,889–\$5,774	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$5,775	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-28. Student-level (study member) nonresponse bias analysis for selected variables for students in public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non- respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non- respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Stafford Loan status						(Effect size=‡)				(Effect size=‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	3,280	440	75.89	73.83	98.92	-2.06*	-2.71	75.89	75.91	0.02	0.02
Total Stafford amount received ⁷						(Effect size=‡)				(Effect size=‡)	
None	3,280	440	75.89	73.83	98.92	-2.06*	-2.71	75.89	75.91	0.02	0.02
\$1–\$3,837	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$3,838–\$6,000	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$6,001–\$8,500	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$8,501 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Institution total enrollment ⁸						(Effect size=0.03)				(Effect size=0.03)	
1–4,827	1,290	160	12.19	12.64	7.13	0.45§	3.70	12.19	12.01	-0.18	-1.48
4,828–10,941	1,320	100	21.84	21.48	25.87	-0.36	-1.65	21.84	21.70	-0.14	-0.65
10,942–41,815	1,290	70	28.63	29.50	18.88	0.87	3.04	28.63	29.93	1.31*	4.56
41,816 or more	1,190	120	37.35	36.39	48.12	-0.96	-2.58	37.35	36.36	-0.98*	-2.63
Sampled baccalaureate recipient						(Effect size=#)				(Effect size=0.01)	
Baccalaureate recipient	2,410	190	3.10	3.09	3.25	-0.01	-0.42	3.10	2.97	-0.14	-4.45
Not baccalaureate recipient	2,680	260	96.90	96.91	96.75	0.01	0.01	96.90	97.03	0.14	0.14
Age as of Dec 31, 2015						(Effect size=‡)				(Effect size=‡)	
15–23	2,470	190	53.23	54.52	38.81	1.29§	2.42	53.23	54.12	0.89	1.68
24–29	1,160	100	20.53	20.03	26.12	-0.50	-2.43	20.53	19.95	-0.58	-2.81
30 or older	1,460	100	25.25	25.45	22.98	0.20	0.80	25.25	25.93	0.68*	2.68
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Institutional aid status						(Effect size=‡)				(Effect size=‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	3,630	250	75.52	77.20	56.74	1.68	2.22	75.52	76.32	0.80	1.05
Unknown	730	190	14.44	12.06	41.17	-2.39§	-16.53	14.44	13.66	-0.78	-5.41

See notes at end of table.

Table J-28. Student-level (study member) nonresponse bias analysis for selected variables for students in public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted non-respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
State aid status						(Effect size=†)				(Effect size=†)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	3,540	250	70.86	72.03	57.83	1.16	1.64	70.86	71.56	0.69	0.98
Unknown	720	190	14.05	11.63	41.17	-2.42§	-17.25	14.05	13.26	-0.79	-5.64
Parent's highest level of education						(Effect size=†)				(Effect size=†)	
Middle school/junior high	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
High school	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
College or beyond	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Marital status						(Effect size=†)				(Effect size=†)	
Unmarried-single/divorce/widow	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Married/remarried	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Separated	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Divorced or widowed	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Support children						(Effect size=†)				(Effect size=†)	
Has dependents	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Does not have dependents	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Income ⁷						(Effect size=†)				(Effect size=†)	
\$0 or less	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$1–\$13,300	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$13,301–\$29,898	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$29,899–\$63,435	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$63,436 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-28. Student-level (study member) nonresponse bias analysis for selected variables for students in public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted non-respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Major						(Effect size=‡)				(Effect size=‡)	
Undecided	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Humanities	920	110	26.12	25.14	37.77	-1.04	-3.97	26.12	25.12	-1.00	-3.84
Social/behavioral sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Life sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Physical sciences/math	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Computer/information science	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Engineering	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Education	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Business/Management	690	30	12.11	12.56	6.74	0.48*	3.94	12.11	12.34	0.23	1.93
Health	880	30	18.11	19.02	7.29	0.96*	5.31	18.11	18.83	0.72*	3.97
Vocational/technical	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other technical/professional	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	350	80	10.88	9.72	24.63	-1.22*	-11.24	10.88	10.28	-0.60	-5.53
Degree program (undergraduate only)						(Effect size=‡)				(Effect size=‡)	
Postsecondary award, certificate or diploma of less than two academic years	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Associate's degree	1,980	160	68.36	69.01	61.09	0.65	0.95	68.36	68.82	0.45	0.67
Postsecondary award, certificate, diploma, or degree program	2,760	130	22.30	23.34	10.74	1.03*	4.63	22.30	22.85	0.55	2.48
Bachelor's degree or equivalent	130	110	2.37	1.85	8.15	-0.52	-21.85	2.37	2.11	-0.25	-10.66
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ^a						(Effect size=0.01)				(Effect size=0.03)	
1–63	1,230	70	25.49	25.51	25.25	0.02	0.08	25.49	26.52	1.03*	4.05
64–73	1,550	110	34.78	35.15	30.60	0.37	1.07	34.78	34.66	-0.12	-0.35
74–82	1,310	130	28.35	27.89	33.53	-0.46	-1.63	28.35	27.78	-0.58	-2.03
83 or more	1,000	140	11.38	11.45	10.62	0.07	0.60	11.38	11.05	-0.33	-2.93

See notes at end of table.

Table J-28. Student-level (study member) nonresponse bias analysis for selected variables for students in public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non- respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non- respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Number of first-time, full-time undergraduate students living on campus ^a						(Effect size=‡)				(Effect size=‡)	
0–59	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
60–193	260	30	1.83	1.87	1.47	0.03	1.79	1.83	1.79	-0.04	-2.41
194–424	770	120	5.17	5.12	5.68	-0.05	-0.89	5.17	5.02	-0.15	-2.86
425 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	3,200	280	83.82	83.49	87.53	-0.33	-0.40	83.82	83.90	0.08	0.10
Average amount of grant and scholarship aid received ^a						(Effect size=0.02)				(Effect size=0.02)	
\$0–\$4,381	1,160	70	24.56	24.60	24.14	0.04	0.15	24.56	24.14	-0.41	-1.69
\$4,382–\$4,960	1,240	90	22.86	23.84	11.89	0.98	4.29	22.86	23.48	0.62	2.72
\$4,961–\$5,727	1,580	160	40.48	39.64	49.87	-0.84	-2.07	40.48	40.26	-0.22	-0.55
\$5,728 or more	1,110	130	12.11	11.93	14.11	-0.18	-1.48	12.11	12.12	0.02	0.13
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ^a						(Effect size=0.02)				(Effect size=0.02)	
0–94	650	60	12.47	12.35	13.82	-0.12	-0.97	12.47	12.85	0.37	3.00
95–234	1,230	60	15.15	15.56	10.57	0.41	2.70	15.15	15.35	0.20	1.30
235–398	1,400	150	18.49	19.10	11.70	0.61	3.28	18.49	19.10	0.61	3.32
399 or more	1,810	180	53.89	52.99	63.91	-0.90	-1.66	53.89	52.70	-1.18*	-2.20
Veteran status						(Effect size=0.01)				(Effect size=0.01)	
Yes	390	30	5.19	5.04	6.92	-0.15	-2.98	5.19	5.08	-0.11	-2.18
No	4,700	420	94.81	94.96	93.08	0.15	0.16	94.81	94.92	0.11	0.12

See notes at end of table.

Table J-28. Student-level (study member) nonresponse bias analysis for selected variables for students in public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted non-respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non- respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Race						(Effect size=‡)				(Effect size=‡)	
White	3,110	180	49.05	49.57	43.20	0.52	1.07	49.05	49.50	0.45	0.92
Black or African American	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Hispanic	800	70	27.10	27.01	28.16	-0.09	-0.35	27.10	26.71	-0.39	-1.42
Asian	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
American Indian or Alaska Native	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
More than one race	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	180	150	3.67	2.62	15.38	-1.05*	-28.54	3.67	2.72	-0.95*	-25.79
Sex						(Effect size=‡)				(Effect size=‡)	
Male	2,120	210	44.18	43.48	52.03	-0.70	-1.59	44.18	44.28	0.10	0.23
Female	2,970	190	55.19	56.52	40.32	1.33*	2.41	55.19	55.72	0.53	0.95
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than 30 unweighted nonrespondents).

* $p < 0.05$ § $p < 0.05$ for difference between weighted respondent mean and weighted nonrespondent mean but not for estimated bias.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 calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Student base weight, adjusted for nonresponse.⁴ 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).⁵ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.⁶ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.⁷ Categories were defined by quartiles.⁸ Categories were defined by quartiles computed at the institution level.

NOTE: Sample sizes rounded to the nearest 10 and, therefore, may not sum to total. 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. "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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-29. Student-level (study member) nonresponse bias analysis for selected variables for students in public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2015–16

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ⁵						(Effect size=‡)				(Effect size=‡)	
New England	380	60	6.79	6.45	12.26	-0.35	-5.15	6.79	6.51	-0.29	-4.25
Mid East	1,900	210	30.87	29.88	46.40	-0.99*	-3.22	30.87	30.09	-0.78*	-2.53
Great Lakes	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Plains	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southeast	750	40	13.68	13.87	10.65	0.19	1.42	13.68	13.82	0.14	1.01
Southwest	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	900	60	12.89	12.83	13.79	-0.06	-0.45	12.89	13.02	0.13	1.01
Outlying areas	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Student type						(Effect size=‡)				(Effect size=‡)	
Undergraduate student	4,650	330	89.91	90.00	88.54	0.09	0.10	89.91	90.06	0.15	0.17
Graduate student	1,350	90	10.09	10.00	11.46	-0.09	-0.87	10.09	9.94	-0.15	-1.47
First professional student	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Federal aid status						(Effect size=‡)				(Effect size=‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	1,760	120	27.96	27.18	40.06	-0.77	-2.77	27.96	28.13	0.17	0.61
Unknown	670	270	11.86	9.04	55.88	-2.82*	-23.76	11.86	11.53	-0.32	-2.74
Pell Grant status						(Effect size=‡)				(Effect size=‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	2,720	330	61.07	58.62	99.98	-2.49*	-4.07	61.07	61.03	-0.04	-0.07
Total Pell amount received ⁶						(Effect size=‡)				(Effect size=‡)	
None	2,720	330	61.07	58.62	99.98	-2.49*	-4.07	61.07	61.03	-0.04	-0.07
\$1–\$2,888	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$2,889–\$574	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$5,775	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-29. Student-level (study member) nonresponse bias analysis for selected variables for students in public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non- respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non- respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Stafford Loan status						(Effect size=‡)				(Effect size=‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	3,520	410	57.53	54.93	98.26	-2.61*	-4.53	57.53	57.50	-0.03	-0.06
Total Stafford amount received ⁷						(Effect size=‡)				(Effect size=‡)	
None	3,520	410	57.53	54.93	98.26	-2.61*	-4.53	57.53	57.50	-0.03	-0.06
\$1–\$4,744	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$4,745–\$6,500	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$6,501–\$10,000	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$10,001 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Institution total enrollment ⁸						(Effect size=0.03)				(Effect size=0.02)	
1–6,708	1,380	50	33.10	34.26	14.98	1.16*	3.50	33.10	33.59	0.49	1.49
6,709–10,351	1,570	60	22.18	22.61	15.39	0.43	1.96	22.18	22.17	-0.01	-0.03
10,352–16,870	1,550	120	23.39	22.92	30.88	-0.48	-2.05	23.39	23.57	0.18	0.75
16,871 or more	1,500	180	21.33	20.21	38.75	-1.12*	-5.23	21.33	20.67	-0.66	-3.10
Sampled baccalaureate recipient						(Effect size=0.01)				(Effect size=#)	
Baccalaureate recipient	2,350	100	13.45	13.73	9.09	0.28*	2.08	13.45	13.37	-0.09	-0.64
Not baccalaureate recipient	3,650	320	86.55	86.27	90.91	-0.28*	-0.32	86.55	86.63	0.09	0.10
Age as of Dec 31, 2015						(Effect size=‡)				(Effect size=‡)	
15–23	3,040	150	62.51	63.54	46.34	1.03*	1.66	62.51	62.45	-0.06	-0.10
24–29	1,420	90	17.93	17.87	18.88	-0.06	-0.34	17.93	18.49	0.56*	3.10
30 or older	1,550	140	19.09	18.59	26.93	-0.50	-2.63	19.09	19.07	-0.02	-0.11
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Institutional aid status						(Effect size=‡)				(Effect size=‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	3,370	130	54.95	55.96	39.22	1.01*	1.83	54.95	55.18	0.23	0.42
Unknown	1,780	290	28.69	26.83	57.71	-1.86*	-6.48	28.69	28.37	-0.32	-1.10

See notes at end of table.

Table J-29. Student-level (study member) nonresponse bias analysis for selected variables for students in public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2015–16—Continued

Variable	Unweighted respondents (study members)	Unweighted non- respondents (non-study members)	Before weight adjustments				After nonresponse weight adjustment				
			Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non- respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
State aid status						(Effect size=†)				(Effect size=†)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	3,290	140	52.66	53.36	41.64	0.70	1.34	52.66	52.91	0.25	0.48
Unknown	1,730	290	27.59	25.67	57.71	-1.93*	-6.99	27.59	27.28	-0.31	-1.14
Parent's highest level of education						(Effect size=†)				(Effect size=†)	
Middle school/junior high	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
High school	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
College or beyond	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Marital status						(Effect size=†)				(Effect size=†)	
Unmarried-single/divorce/widow	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Married/remarried	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Separated	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Divorced or widowed	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Support children						(Effect size=†)				(Effect size=†)	
Has dependents	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Does not have dependents	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Income ⁷						(Effect size=†)				(Effect size=†)	
\$0 or less	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$1–\$13,463	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$13,464–\$33,912	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$33,913–\$75,000	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$75,001 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-29. Student-level (study member) nonresponse bias analysis for selected variables for students in public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non- respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non- respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ⁵
Major						(Effect size=‡)				(Effect size=‡)	
Undecided	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Humanities	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Social/behavioral sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Life sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Physical sciences/math	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Computer/information science	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Engineering	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Education	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Business/Management	670	40	18.11	18.04	19.33	-0.08	-0.43	18.11	18.45	0.34	1.86
Health	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Vocational/technical	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other technical/professional	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	290	120	7.26	5.74	33.58	-1.67*	-23.06	7.26	5.97	-1.29*	-17.74
Degree program (undergraduate only)						(Effect size=‡)				(Effect size=‡)	
Postsecondary award, certificate or diploma of less than two academic years	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Associate's degree	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Postsecondary award, certificate, diploma, or degree program	4,430	270	93.45	94.13	82.64	0.69	0.74	93.45	93.52	0.06	0.07
Bachelor's degree or equivalent	60	40	1.92	1.43	9.78	-0.50	-26.13	1.92	2.05	0.13	6.51
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ^a						(Effect size=‡)				(Effect size=‡)	
1–66	1,340	50	22.05	22.82	10.11	0.76*	3.47	22.05	22.54	0.49*	2.20
67–77	1,480	110	26.82	26.52	31.60	-0.31	-1.14	26.82	26.54	-0.29	-1.06
78–87	1,650	170	24.56	24.18	30.47	-0.38	-1.54	24.56	24.59	0.03	0.13
88 or more	1,330	70	23.14	23.15	23.09	#	0.02	23.14	23.01	-0.14	-0.59
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-29. Student-level (study member) nonresponse bias analysis for selected variables for students in public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Number of first-time, full-time undergraduate students living on campus ^a						(Effect size=0.02)				(Effect size=0.01)	
0–237	1,660	200	25.68	24.98	36.54	-0.69	-2.71	25.68	25.19	-0.48	-1.88
238–482	850	60	18.81	18.82	18.58	0.01	0.08	18.81	18.68	-0.13	-0.70
483–710	1,170	60	14.48	14.57	13.06	0.09	0.63	14.48	14.82	0.34	2.33
711 or more	1,260	30	17.64	18.17	9.27	0.54*	3.04	17.64	17.83	0.20	1.11
Unknown	1,070	70	23.40	23.45	22.55	0.05	0.23	23.40	23.48	0.08	0.34
Average amount of grant and scholarship aid received ^a						(Effect size=‡)				(Effect size=‡)	
\$0–\$5,547	1,450	50	23.26	24.00	11.56	0.75*	3.22	23.26	23.91	0.65*	2.81
\$5,548–\$6,971	1,330	110	24.69	24.45	28.44	-0.24	-0.97	24.69	24.49	-0.21	-0.84
\$6,972–\$7,744	1,520	130	25.07	24.98	26.53	-0.09	-0.37	25.07	25.12	0.05	0.21
\$7,745 or more	1,500	120	23.56	23.23	28.73	-0.33	-1.40	23.56	23.16	-0.40	-1.71
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ^a						(Effect size=‡)				(Effect size=‡)	
0–107	1,120	70	25.04	25.58	16.61	0.54	2.16	25.04	25.17	0.13	0.51
108–193	1,090	80	19.61	19.53	20.89	-0.08	-0.42	19.61	19.35	-0.26	-1.35
194–321	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
322 or more	1,980	230	30.33	29.25	47.09	-1.07*	-3.54	30.33	30.06	-0.26	-0.86
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Veteran status						(Effect size=0.01)				(Effect size=0.01)	
Yes	570	40	3.85	3.71	5.99	-0.14	-3.56	3.85	3.73	-0.12	-3.16
No	5,440	380	96.15	96.29	94.01	0.14	0.14	96.15	96.27	0.12	0.13

See notes at end of table.

Table J-29. Student-level (study member) nonresponse bias analysis for selected variables for students in public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2015–16—Continued

Variable	Unweighted respondents (study members)	Unweighted non- respondents (non-study members)	Before weight adjustments					After nonresponse weight adjustment			
			Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non- respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Race						(Effect size=‡)				(Effect size=‡)	
White	3,480	190	54.47	55.41	39.74	0.94*	1.73	54.47	54.96	0.49	0.90
Black or African American	710	40	12.48	12.58	10.94	0.10	0.79	12.48	12.60	0.12	0.98
Hispanic	930	60	17.24	17.47	13.74	0.22	1.30	17.24	17.57	0.32	1.88
Asian	460	30	7.09	6.86	10.59	-0.22	-3.16	7.09	7.10	0.01	0.18
American Indian or Alaska Native	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
More than one race	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	170	90	4.12	2.88	23.53	-1.24*	-30.15	4.12	3.08	-1.04*	-25.33
Sex						(Effect size=‡)				(Effect size=‡)	
Male	2,620	170	44.42	44.67	40.51	0.25	0.56	44.42	45.29	0.87*	1.96
Female	3,390	200	54.79	55.33	46.42	0.54§	0.98	54.79	54.71	-0.09	-0.16
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than 30 unweighted nonrespondents).

* $p < 0.05$ § $p < 0.05$ for difference between weighted respondent mean and weighted nonrespondent mean but not for estimated bias.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 calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Student base weight, adjusted for nonresponse.⁴ 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).⁵ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.⁶ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.⁷ Categories were defined by quartiles.⁸ Categories were defined by quartiles computed at the institution level.

NOTE: Sample sizes rounded to the nearest 10 and, therefore, may not sum to total. 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. "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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-30. Student-level (study member) nonresponse bias analysis for selected variables for students in public 4-year, doctorate-granting institutions: 2015–16

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ⁵						(Effect size=‡)				(Effect size=‡)	
New England	710	40	2.86	2.88	2.52	0.02	0.85	2.86	2.85	-0.01	-0.36
Mid East	2,830	200	12.12	12.04	13.25	-0.08	-0.69	12.12	12.39	0.27	2.24
Great Lakes	4,510	250	17.08	17.29	14.12	0.22	1.27	17.08	17.11	0.04	0.22
Plains	1,660	40	6.83	7.06	3.64	0.23*	3.42	6.83	6.83	#	-0.02
Southeast	8,090	530	28.29	28.35	27.51	0.06	0.20	28.29	28.64	0.35	1.25
Southwest	3,520	180	13.52	13.60	12.40	0.08	0.60	13.52	13.39	-0.13	-0.93
Rocky Mountains	890	90	4.72	4.44	8.49	-0.28	-5.86	4.72	4.46	-0.25	-5.39
Far West	3,350	260	14.35	14.08	18.06	-0.27	-1.90	14.35	14.07	-0.28	-1.97
Outlying areas	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Student type						(Effect size=‡)				(Effect size=‡)	
Undergraduate student	18,950	1,320	77.80	77.28	84.91	-0.52*	-0.67	77.80	77.63	-0.17	-0.22
Graduate student	5,980	250	19.58	20.02	13.60	0.44*	2.24	19.58	19.76	0.18	0.91
First professional student	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Federal aid status						(Effect size=0.08)				(Effect size=0.01)	
Received	13,810	100	52.43	55.82	6.13	3.39*	6.47	52.43	52.49	0.06	0.12
Did not receive	9,870	820	38.98	37.34	61.48	-1.65*	-4.23	38.98	38.56	-0.42	-1.08
Unknown	1,940	650	8.59	6.85	32.39	-1.74*	-20.30	8.59	8.95	0.36	4.20
Pell Grant status						(Effect size=‡)				(Effect size=‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	12,250	1,290	67.04	64.52	98.45	-2.32*	-3.45	67.04	66.99	-0.05	-0.07
Total Pell amount received ⁶						(Effect size=‡)				(Effect size=‡)	
None	12,250	1,290	67.04	64.52	98.45	-2.32*	-3.45	67.04	66.99	-0.05	-0.07
\$1–\$2,888	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$2,889–\$5,774	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$5,775	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-30. Student-level (study member) nonresponse bias analysis for selected variables for students in public 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted non-respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Stafford Loan status						(Effect size=0.06)				(Effect size=#)	
Received	10,780	40	41.94	44.82	2.69	2.88*	6.86	41.94	41.91	-0.03	-0.07
Did not receive	14,840	1,540	58.06	55.18	97.31	-2.88*	-4.95	58.06	58.09	0.03	0.05
Total Stafford amount received ⁷						(Effect size=‡)				(Effect size=‡)	
None	14,840	1,540	58.06	55.18	97.31	-2.88*	-4.95	58.06	58.09	0.03	0.05
\$1–\$5,500	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$5,501–\$7,358	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$7,359–\$10,500	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$10,501 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Institution total enrollment ⁸						(Effect size=0.02)				(Effect size=0.01)	
1–16,504	5,900	260	20.83	21.40	13.08	0.57*	2.72	20.83	21.02	0.19	0.92
16,505–27,396	6,320	350	24.60	24.93	20.12	0.33	1.33	24.60	24.79	0.19	0.78
27,397–38,488	6,790	470	26.99	26.60	32.28	-0.39	-1.44	26.99	26.74	-0.25	-0.91
38,489 or more	6,610	500	27.58	27.08	34.52	-0.51	-1.84	27.58	27.45	-0.14	-0.50
Sampled baccalaureate recipient						(Effect size=0.01)				(Effect size=#)	
Baccalaureate recipient	9,030	360	13.65	13.98	9.14	0.33*	2.42	13.65	13.65	#	#
Not baccalaureate recipient	16,590	1,220	86.35	86.02	90.86	-0.33*	-0.38	86.35	86.35	#	#
Age as of Dec 31, 2015						(Effect size=‡)				(Effect size=‡)	
15–23	14,510	740	63.32	63.99	54.18	0.67*	1.06	63.32	63.88	0.56	0.89
24–29	5,750	280	19.59	19.73	17.76	0.13	0.68	19.59	19.66	0.06	0.31
30 or older	5,360	260	16.20	16.28	15.04	0.08	0.52	16.20	16.46	0.27*	1.64
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Institutional aid status						(Effect size=0.05)				(Effect size=0.01)	
Received	8,360	140	31.02	32.66	8.64	1.64*	5.29	31.02	31.26	0.24	0.77
Did not receive	13,350	760	54.43	54.27	56.69	-0.17	-0.30	54.43	53.95	-0.48*	-0.89
Unknown	3,920	680	14.55	13.08	34.67	-1.47*	-10.13	14.55	14.80	0.25	1.69

See notes at end of table.

Table J-30. Student-level (study member) nonresponse bias analysis for selected variables for students in public 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted non-respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non- respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
State aid status						(Effect size=0.05)				(Effect size=0.01)	
Received	4,550	30	18.62	19.83	2.10	1.21*	6.50	18.62	18.65	0.03	0.16
Did not receive	17,090	870	66.79	67.03	63.49	0.24	0.36	66.79	66.49	-0.29	-0.44
Unknown	3,990	690	14.59	13.14	34.41	-1.45*	-9.95	14.59	14.85	0.26	1.80
Parent's highest level of education						(Effect size=‡)				(Effect size=‡)	
Middle school/junior high	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
High school	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
College or beyond	10,330	40	63.76	63.78	58.81	0.34	0.53	63.76	64.19	0.43*	0.68
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Marital status						(Effect size=‡)				(Effect size=‡)	
Unmarried-single/divorce/widow	13,920	60	88.15	88.16	87.65	0.03	0.04	88.15	88.29	0.13*	0.15
Married/remarried	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Separated	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Divorced or widowed	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Support children						(Effect size=‡)				(Effect size=‡)	
Has dependents	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Does not have dependents	14,280	60	89.74	89.74	90.05	-0.02	-0.02	89.74	89.87	0.12*	0.14
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Income ⁷						(Effect size=‡)				(Effect size=‡)	
\$0 or less	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$1–\$15,046	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$15,047–\$41,502	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$41,503–\$94,062	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$94,063 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-30. Student-level (study member) nonresponse bias analysis for selected variables for students in public 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted non-respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Major						(Effect size=‡)				(Effect size=‡)	
Undecided	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Humanities	1,860	190	10.88	10.53	15.42	-0.33*	-3.07	10.88	10.58	-0.30*	-2.79
Social/behavioral sciences	2,180	120	10.80	10.90	9.57	0.09	0.84	10.80	10.89	0.09	0.79
Life sciences	2,630	140	13.54	13.77	10.46	0.23*	1.67	13.54	13.58	0.04	0.32
Physical sciences/math	540	50	2.98	2.97	3.12	-0.01	-0.34	2.98	3.04	0.06	2.01
Computer/information science	720	60	4.08	4.02	4.82	-0.05	-1.34	4.08	4.14	0.06	1.53
Engineering	1,790	130	10.27	10.25	10.57	-0.02	-0.21	10.27	10.28	#	0.04
Education	1,550	50	4.98	5.17	2.46	0.18*	3.71	4.98	5.06	0.08	1.61
Business/Management	2,690	210	17.32	17.00	21.59	-0.31*	-1.81	17.32	17.50	0.18	1.02
Health	2,050	70	9.99	10.36	5.14	0.36*	3.57	9.99	10.14	0.15	1.50
Vocational/technical	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other technical/professional	2,380	100	12.21	12.56	7.59	0.34*	2.78	12.21	12.31	0.10	0.82
Unknown	290	140	2.05	1.54	8.73	-0.49*	-23.92	2.05	1.60	-0.45*	-21.90
Degree program (undergraduate only)						(Effect size=‡)				(Effect size=‡)	
Postsecondary award, certificate or diploma of less than two academic years	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Associate's degree	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Postsecondary award, certificate, diploma, or degree program	18,570	1,150	96.58	97.51	85.05	0.85*	0.88	96.58	97.24	0.66	0.68
Bachelor's degree or equivalent	110	60	1.13	0.79	5.32	-0.31*	-27.28	1.13	1.03	-0.10	-9.14
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ^a						(Effect size=0.02)				(Effect size=0.01)	
1–64	7,230	570	32.47	31.85	40.98	-0.62§	-1.92	32.47	32.09	-0.38	-1.16
65–76	6,360	400	25.81	25.74	26.80	-0.07	-0.28	25.81	25.83	0.02	0.08
77–86	6,410	360	23.54	23.80	19.98	0.26	1.11	23.54	23.72	0.19	0.79
87 or more	4,900	210	16.55	17.01	10.29	0.46*	2.77	16.55	16.72	0.17	1.02
None or unknown	730	40	1.63	1.61	1.96	-0.02	-1.45	1.63	1.63	#	0.08

See notes at end of table.

Table J-30. Student-level (study member) nonresponse bias analysis for selected variables for students in public 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted non-respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Number of first-time, full-time undergraduate students living on campus ^a						(Effect size=0.01)				(Effect size=#)	
0–458	3,180	200	11.98	12.07	10.79	0.09	0.73	11.98	12.06	0.09	0.71
459–854	4,520	240	18.60	18.81	15.69	0.21	1.15	18.60	18.68	0.09	0.46
855–1,568	6,640	360	25.16	25.24	24.03	0.08	0.33	25.16	25.20	0.04	0.18
1,569 or more	10,090	680	39.98	39.74	43.18	-0.23	-0.59	39.98	39.75	-0.23	-0.57
Unknown	1,190	90	4.29	4.14	6.32	-0.15	-3.46	4.29	4.30	0.01	0.29
Average amount of grant and scholarship aid received ^a						(Effect size=0.01)				(Effect size=0.01)	
\$0–\$6,275	5,540	350	21.85	21.86	21.69	0.01	0.05	21.85	21.74	-0.11	-0.50
\$6,276–\$7,493	5,950	320	22.53	22.52	22.60	-0.01	-0.02	22.53	22.43	-0.10	-0.45
\$7,494–\$8,791	6,510	330	25.33	25.71	20.15	0.38	1.50	25.33	25.65	0.32	1.25
\$8,792 or more	6,900	540	28.66	28.29	33.60	-0.36	-1.26	28.66	28.55	-0.11	-0.38
Unknown	730	40	1.63	1.61	1.96	-0.02	-1.45	1.63	1.63	#	0.08
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ^a						(Effect size=0.01)				(Effect size=0.01)	
0–194	3,560	230	14.41	14.46	13.72	0.05	0.35	14.41	14.64	0.24*	1.66
195–338	5,040	250	21.01	21.17	18.81	0.16	0.77	21.01	21.09	0.08	0.39
339–547	7,260	420	26.85	26.87	26.52	0.02	0.09	26.85	26.67	-0.17	-0.64
548 or more	9,040	650	36.11	35.89	38.99	-0.21	-0.59	36.11	35.95	-0.15	-0.42
Unknown	730	40	1.63	1.61	1.96	-0.02	-1.45	1.63	1.63	#	0.08
Veteran status						(Effect size=#)				(Effect size=#)	
Yes	1,700	80	3.18	3.19	3.02	0.01	0.36	3.18	3.26	0.08*	2.56
No	23,930	1,500	96.82	96.81	96.98	-0.01	-0.01	96.82	96.74	-0.08*	-0.08

See notes at end of table.

Table J-30. Student-level (study member) nonresponse bias analysis for selected variables for students in public 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	Unweighted respondents (study members)	Unweighted non- respondents (non-study members)	Before weight adjustments					After nonresponse weight adjustment			
			Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non- respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Race						(Effect size=‡)				(Effect size=‡)	
White	14,830	620	56.67	57.93	39.39	1.27*	2.23	56.67	57.55	0.88*	1.56
Black or African American	2,780	70	10.39	10.80	4.72	0.41*	3.99	10.39	10.49	0.11	1.02
Hispanic	3,130	120	13.16	13.52	8.36	0.35*	2.68	13.16	13.39	0.23*	1.75
Asian	2,770	110	10.34	10.53	7.67	0.20*	1.89	10.34	11.08	0.74*	7.17
American Indian or Alaska Native	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
More than one race	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	1,100	640	5.56	3.15	38.40	-2.41*	-43.31	5.56	3.50	-2.06*	-37.04
Sex						(Effect size=‡)				(Effect size=‡)	
Male	11,840	750	46.69	46.39	50.78	-0.30	-0.64	46.69	47.12	0.43*	0.92
Female	13,790	610	52.67	53.61	39.86	0.94*	1.78	52.67	52.88	0.21	0.40
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than 30 unweighted nonrespondents).

* $p < 0.05$ § $p < 0.05$ for difference between weighted respondent mean and weighted nonrespondent mean but not for estimated bias.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 calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Student base weight, adjusted for nonresponse.⁴ 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).⁵ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.⁶ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.⁷ Categories were defined by quartiles.⁸ Categories were defined by quartiles computed at the institution level.

NOTE: Sample sizes rounded to the nearest 10 and, therefore, may not sum to total. 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. "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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-31. Student-level (study member) nonresponse bias analysis for selected variables for students in private nonprofit less-than-4-year institutions: 2015–16

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ⁵						(Effect size=‡)				(Effect size=‡)	
New England	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Mid East	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Great Lakes	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Plains	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southeast	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southwest	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Outlying areas	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Federal aid status						(Effect size=‡)				(Effect size=‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Pell Grant status						(Effect size=‡)				(Effect size=‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	450	30	40.27	39.79	89.02	-0.49\$	-1.21	40.27	40.36	0.08	0.20
Total Pell amount received ⁶						(Effect size=‡)				(Effect size=‡)	
None	450	30	40.27	39.79	89.02	-0.49\$	-1.21	40.27	40.36	0.08	0.20
\$1–\$2,888	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$2,889–\$5,774	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$5,775	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Stafford Loan status						(Effect size=‡)				(Effect size=‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	410	30	31.78	31.20	89.02	-0.57\$	-1.81	31.78	31.84	0.06	0.20

See notes at end of table.

Table J-31. Student-level (study member) nonresponse bias analysis for selected variables for students in private nonprofit less-than-4-year institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Total Stafford amount received ⁷						(Effect size=†)				(Effect size=†)	
None	410	30	31.78	31.20	89.02	-0.57§	-1.81	31.78	31.84	0.06	0.20
\$1–\$3,500	†	†	†	†	†	†	†	†	†	†	†
\$3,501–\$6,458	†	†	†	†	†	†	†	†	†	†	†
\$6,459–\$9,500	†	†	†	†	†	†	†	†	†	†	†
\$9,501 or more	†	†	†	†	†	†	†	†	†	†	†
Institution total enrollment ⁸						(Effect size=†)				(Effect size=†)	
1–498	†	†	†	†	†	†	†	†	†	†	†
499–716	†	†	†	†	†	†	†	†	†	†	†
717–1,277	†	†	†	†	†	†	†	†	†	†	†
1,278 or more	†	†	†	†	†	†	†	†	†	†	†
Sampled baccalaureate recipient						(Effect size=†)				(Effect size=†)	
Baccalaureate recipient	†	†	†	†	†	†	†	†	†	†	†
Not baccalaureate recipient	1,130	30	100.00	100.00	100.00	#	#	100.00	100.00	#	#
Age as of Dec 31, 2015						(Effect size=†)				(Effect size=†)	
15–23	†	†	†	†	†	†	†	†	†	†	†
24–29	†	†	†	†	†	†	†	†	†	†	†
30 or older	†	†	†	†	†	†	†	†	†	†	†
Unknown	†	†	†	†	†	†	†	†	†	†	†
Institutional aid status						(Effect size=†)				(Effect size=†)	
Received	†	†	†	†	†	†	†	†	†	†	†
Did not receive	730	30	60.28	60.13	75.58	-0.15	-0.25	60.28	60.09	-0.19	-0.32
Unknown	†	†	†	†	†	†	†	†	†	†	†
State aid status						(Effect size=†)				(Effect size=†)	
Received	†	†	†	†	†	†	†	†	†	†	†
Did not receive	770	30	60.94	60.79	75.58	-0.15	-0.24	60.94	60.79	-0.14	-0.24
Unknown	†	†	†	†	†	†	†	†	†	†	†

See notes at end of table.

Table J-31. Student-level (study member) nonresponse bias analysis for selected variables for students in private nonprofit less-than-4-year institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted non-respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non- respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Parent's highest level of education						(Effect size=†)				(Effect size=†)	
Middle school/junior high	†	†	†	†	†	†	†	†	†	†	†
High school	†	†	†	†	†	†	†	†	†	†	†
College or beyond	†	†	†	†	†	†	†	†	†	†	†
Unknown	†	†	†	†	†	†	†	†	†	†	†
Marital status						(Effect size=†)				(Effect size=†)	
Unmarried-single/divorce/widow	†	†	†	†	†	†	†	†	†	†	†
Married/remarried	†	†	†	†	†	†	†	†	†	†	†
Separated	†	†	†	†	†	†	†	†	†	†	†
Divorced or widowed	†	†	†	†	†	†	†	†	†	†	†
Support children						(Effect size=†)				(Effect size=†)	
Has dependents	†	†	†	†	†	†	†	†	†	†	†
Does not have dependents	†	†	†	†	†	†	†	†	†	†	†
Unknown	†	†	†	†	†	†	†	†	†	†	†
Income ⁷						(Effect size=†)				(Effect size=†)	
\$0 or less	†	†	†	†	†	†	†	†	†	†	†
\$1–\$6,568	†	†	†	†	†	†	†	†	†	†	†
\$6,569–\$18,940	†	†	†	†	†	†	†	†	†	†	†
\$18,941–\$36,402	†	†	†	†	†	†	†	†	†	†	†
\$36,403 or more	†	†	†	†	†	†	†	†	†	†	†
Unknown	†	†	†	†	†	†	†	†	†	†	†

See notes at end of table.

Table J-31. Student-level (study member) nonresponse bias analysis for selected variables for students in private nonprofit less-than-4-year institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non- respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non- respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Major						(Effect size=‡)				(Effect size=‡)	
Undecided	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Humanities	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Social/behavioral sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Life sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Physical sciences/math	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Computer/information science	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Engineering	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Education	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Business/Management	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Health	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Vocational/technical	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other technical/professional	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Degree program (undergraduate only)						(Effect size=‡)				(Effect size=‡)	
Postsecondary award, certificate or diploma of less than two academic years	690	30	52.02	51.55	98.92	-0.47§	-0.90	52.02	51.49	-0.54*	-1.03
Associate's degree	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Postsecondary award, certificate, diploma, or degree program	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bachelor's degree or equivalent	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ^a						(Effect size=‡)				(Effect size=‡)	
1–67	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
68–84	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
85–89	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
90 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-31. Student-level (study member) nonresponse bias analysis for selected variables for students in private nonprofit less-than-4-year institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non- respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non- respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Number of first-time, full-time undergraduate students living on campus ^a						(Effect size=‡)				(Effect size=‡)	
8–10	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	1,050	30	98.57	98.56	98.92	#	#	98.57	98.57	0.01	0.01
Average amount of grant and scholarship aid received ^a						(Effect size=‡)				(Effect size=‡)	
\$0–\$4,587	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$4,588–\$4,671	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$4,672–\$5,684	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$5,685 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ^a						(Effect size=‡)				(Effect size=‡)	
0–13	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
14–33	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
34–88	360	30	16.74	16.17	73.17	-0.57§	-3.38	16.74	16.35	-0.39	-2.32
89 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Veteran status						(Effect size=‡)				(Effect size=‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
No	1,050	30	93.17	93.15	94.86	-0.02	-0.02	93.17	93.15	-0.02	-0.02

See notes at end of table.

Table J-31. Student-level (study member) nonresponse bias analysis for selected variables for students in private nonprofit less-than-4-year institutions: 2015–16—Continued

Variable	Unweighted respondents (study members)	Unweighted non- respondents (non-study members)	Before weight adjustments				After nonresponse weight adjustment				
			Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non- respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Race						(Effect size=‡)				(Effect size=‡)	
White	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Black or African American	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Hispanic	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Asian	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
American Indian or Alaska Native	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
More than one race	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Sex						(Effect size=‡)				(Effect size=‡)	
Male	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Female	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than 30 unweighted nonrespondents).

* $p < 0.05$ § $p < 0.05$ for difference between weighted respondent mean and weighted nonrespondent mean but not for estimated bias.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 calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Student base weight, adjusted for nonresponse.⁴ 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).⁵ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.⁶ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.⁷ Categories were defined by quartiles.⁸ Categories were defined by quartiles computed at the institution level.

NOTE: Sample sizes rounded to the nearest 10 and, therefore, may not sum to total. 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. "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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-32. Student-level (study member) nonresponse bias analysis for selected variables for students in private nonprofit 4-year non-doctorate-granting institutions: 2015–16

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ⁵											
						(Effect size=‡)				(Effect size=‡)	
New England	960	60	10.72	10.32	21.74	-0.40*	-3.74	10.72	10.51	-0.21	-1.93
Mid East	2,020	100	18.04	17.56	31.09	-0.47	-2.63	18.04	17.66	-0.38	-2.09
Great Lakes	2,000	70	17.54	17.54	17.52	#	#	17.54	17.58	0.04	0.23
Plains	1,230	50	11.66	11.61	13.07	-0.05	-0.44	11.66	11.58	-0.08	-0.68
Southeast	2,350	40	19.13	19.59	6.47	0.46*	2.41	19.13	19.31	0.19	0.98
Southwest	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Outlying areas	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Student type											
						(Effect size=‡)				(Effect size=‡)	
Undergraduate student	8,000	240	87.54	87.59	86.09	0.05	0.06	87.54	87.65	0.11	0.13
Graduate student	2,430	110	12.43	12.37	13.91	-0.05	-0.44	12.43	12.31	-0.12	-0.95
First professional student	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Federal aid status											
						(Effect size=0.06)				(Effect size=0.02)	
Received	6,720	40	64.51	66.58	7.71	2.07*	3.20	64.51	64.68	0.17	0.26
Did not receive	3,370	190	31.75	30.62	62.84	-1.13*	-3.56	31.75	32.04	0.28	0.90
Unknown	340	130	3.73	2.80	29.45	-0.94*	-25.06	3.73	3.28	-0.45	-12.12
Pell Grant status											
						(Effect size=‡)				(Effect size=‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	4,780	240	61.49	60.18	98.21	-1.34*	-2.17	61.49	61.50	0.01	0.02
Total Pell amount received ⁶											
						(Effect size=‡)				(Effect size=‡)	
None	4,780	240	61.49	60.18	98.21	-1.34*	-2.17	61.49	61.50	0.01	0.02
\$1–\$2,888	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$2,889–\$5,774	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$5,775	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-32. Student-level (study member) nonresponse bias analysis for selected variables for students in private nonprofit 4-year non-doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted non-respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Stafford Loan status						(Effect size=‡)				(Effect size=‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	4,980	340	46.10	44.21	98.04	-1.89*	-4.10	46.10	45.99	-0.11	-0.24
Total Stafford amount received ⁷						(Effect size=‡)				(Effect size=‡)	
None	4,980	340	46.10	44.21	98.04	-1.89*	-4.10	46.10	45.99	-0.11	-0.24
\$1–\$5,500	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$5,501–\$7,500	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$7,501–\$10,250	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$10,251 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Institution total enrollment ⁸						(Effect size=0.02)				(Effect size=0.01)	
1–1,639	2,460	50	24.74	25.11	14.65	0.37	1.48	24.74	24.83	0.09	0.35
1,640–2,618	2,480	60	22.53	22.87	13.13	0.34	1.52	22.53	22.64	0.12	0.52
2,619–5,157	2,840	110	25.35	25.27	27.51	-0.08	-0.31	25.35	25.36	0.01	0.06
5,158 or more	2,650	140	27.38	26.75	44.72	-0.63	-2.30	27.38	27.17	-0.22	-0.80
Sampled baccalaureate recipient						(Effect size=0.01)				(Effect size=#)	
Baccalaureate recipient	4,530	70	14.51	14.78	7.27	0.26*	1.81	14.51	14.61	0.09	0.64
Not baccalaureate recipient	5,900	280	85.49	85.22	92.73	-0.26*	-0.31	85.49	85.39	-0.09	-0.11
Age as of Dec 31, 2015						(Effect size=‡)				(Effect size=‡)	
15–23	5,360	90	58.06	58.94	33.66	0.89*	1.53	58.06	58.57	0.52	0.89
24–29	1,960	80	15.50	15.39	18.36	-0.10	-0.67	15.50	15.41	-0.09	-0.59
30 or older	3,110	150	26.21	25.66	41.29	-0.55§	-2.09	26.21	26.02	-0.19	-0.73
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Institutional aid status						(Effect size=0.04)				(Effect size=0.02)	
Received	5,010	40	48.88	50.16	13.89	1.27*	2.60	48.88	49.16	0.27	0.56
Did not receive	4,770	180	44.50	44.08	56.16	-0.42	-0.95	44.50	44.69	0.19	0.42
Unknown	640	140	6.62	5.77	29.95	-0.85*	-12.83	6.62	6.15	-0.46	-6.98

See notes at end of table.

Table J-32. Student-level (study member) nonresponse bias analysis for selected variables for students in private nonprofit 4-year non-doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted non-respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
State aid status						(Effect size=‡)				(Effect size=‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	8,110	220	76.68	76.93	69.85	0.25	0.32	76.68	77.02	0.34	0.44
Unknown	700	130	7.19	6.42	28.17	-0.76*	-10.63	7.19	6.82	-0.36	-5.04
Parent's highest level of education						(Effect size=‡)				(Effect size=‡)	
Middle school/junior high	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
High school	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
College or beyond	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Marital status						(Effect size=‡)				(Effect size=‡)	
Unmarried-single/divorce/widow	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Married/remarried	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Separated	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Divorced or widowed	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Support children						(Effect size=‡)				(Effect size=‡)	
Has dependents	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Does not have dependents	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Income ⁷						(Effect size=‡)				(Effect size=‡)	
\$0 or less	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$1–\$15,926	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$15,927–\$41,826	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$41,827–\$89,471	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$89,472 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-32. Student-level (study member) nonresponse bias analysis for selected variables for students in private nonprofit 4-year non-doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted non-respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Major						(Effect size=‡)				(Effect size=‡)	
Undecided	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Humanities	1,150	50	16.74	16.52	22.96	-0.23	-1.35	16.74	16.66	-0.08	-0.49
Social/behavioral sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Life sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Physical sciences/math	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Computer/information science	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Engineering	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Education	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Business/Management	1,300	50	19.42	19.28	23.49	-0.15	-0.76	19.42	19.45	0.03	0.16
Health	1,070	30	15.54	15.64	12.87	0.10	0.62	15.54	15.61	0.07	0.45
Vocational/technical	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other technical/professional	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Degree program (undergraduate only)						(Effect size=‡)				(Effect size=‡)	
Postsecondary award, certificate or diploma of less than two academic years	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Associate's degree	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Postsecondary award, certificate, diploma, or degree program	7,060	170	85.67	85.94	78.10	0.28*	0.32	85.67	85.78	0.12	0.14
Bachelor's degree or equivalent	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ^a						(Effect size=0.02)				(Effect size=0.02)	
1–91	3,200	130	35.94	35.98	34.83	0.04	0.11	35.94	36.29	0.35	0.97
92–98	2,400	70	21.98	22.09	19.03	0.11	0.49	21.98	21.93	-0.05	-0.23
99 or more	4,010	80	34.02	34.50	20.92	0.48§	1.40	34.02	34.16	0.14	0.41
None or unknown	810	70	8.06	7.44	25.22	-0.62	-7.74	8.06	7.62	-0.44	-5.44

See notes at end of table.

Table J-32. Student-level (study member) nonresponse bias analysis for selected variables for students in private nonprofit 4-year non-doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non- respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non- respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Number of first-time, full-time undergraduate students living on campus ^a						(Effect size=0.01)				(Effect size=0.01)	
0–178	2,200	70	21.25	21.22	22.04	-0.03	-0.14	21.25	21.34	0.09	0.43
179–289	1,930	60	16.66	16.74	14.48	0.08	0.48	16.66	16.66	#	-0.01
290–447	1,860	40	17.26	17.60	7.82	0.34*	1.99	17.26	17.62	0.36*	2.11
448 or more	2,060	70	18.80	18.65	22.99	-0.15	-0.81	18.80	18.55	-0.25	-1.34
Unknown	2,380	110	26.03	25.79	32.67	-0.24	-0.93	26.03	25.83	-0.20	-0.77
Average amount of grant and scholarship aid received ^a						(Effect size=0.02)				(Effect size=0.02)	
\$0–\$12,844	3,250	110	36.18	36.50	27.28	0.32	0.89	36.18	36.45	0.27	0.74
\$12,845–\$17,343	2,380	60	20.95	21.08	17.49	0.13	0.60	20.95	20.97	0.02	0.10
\$17,344–\$22,901	2,000	60	17.05	17.06	16.67	0.01	0.08	17.05	17.02	-0.03	-0.15
\$22,902 or more	1,990	70	17.76	17.92	13.34	0.16	0.91	17.76	17.93	0.18	0.99
Unknown	810	70	8.06	7.44	25.22	-0.62	-7.74	8.06	7.62	-0.44	-5.44
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ^a						(Effect size=0.03)				(Effect size=0.02)	
0–35	2,350	60	26.42	26.87	14.05	0.45	1.70	26.42	26.86	0.44	1.68
36–50	2,050	90	17.61	17.33	25.28	-0.28	-1.58	17.61	17.42	-0.19	-1.08
51–84	2,160	70	18.44	18.47	17.41	0.04	0.20	18.44	18.43	#	-0.01
85 or more	3,030	70	29.22	29.63	18.04	0.41§	1.39	29.22	29.40	0.18	0.62
Unknown	840	70	8.31	7.70	25.22	-0.62	-7.40	8.31	7.88	-0.43	-5.20
Veteran status						(Effect size=0.01)				(Effect size=0.01)	
Yes	1,160	60	5.27	5.01	12.60	-0.27§	-5.05	5.27	5.15	-0.12	-2.34
No	9,270	300	94.73	94.99	87.40	0.27§	0.28	94.73	94.85	0.12	0.13

See notes at end of table.

Table J-32. Student-level (study member) nonresponse bias analysis for selected variables for students in private nonprofit 4-year non-doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted non-respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non- respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Race						(Effect size=‡)				(Effect size=‡)	
White	6,460	170	61.55	62.15	44.96	0.60*	0.98	61.55	62.08	0.53*	0.86
Black or African American	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Hispanic	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Asian	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
American Indian or Alaska Native	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
More than one race	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	240	120	3.20	1.95	37.57	-1.25*	-39.13	3.20	2.11	-1.08*	-33.90
Sex						(Effect size=‡)				(Effect size=‡)	
Male	4,300	200	41.72	41.14	57.83	-0.59*	-1.40	41.72	41.58	-0.14	-0.34
Female	6,130	150	58.25	58.86	41.36	0.61*	1.06	58.25	58.42	0.17	0.29
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than 30 unweighted nonrespondents).

* $p < 0.05$ § $p < 0.05$ for difference between weighted respondent mean and weighted nonrespondent mean but not for estimated bias.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 calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Student base weight, adjusted for nonresponse.⁴ 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).⁵ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.⁶ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.⁷ Categories were defined by quartiles.⁸ Categories were defined by quartiles computed at the institution level.

NOTE: Sample sizes rounded to the nearest 10 and, therefore, may not sum to total. 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. "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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-33. Student-level (study member) nonresponse bias analysis for selected variables for students in private nonprofit, 4-year, doctorate-granting institutions: 2015–16

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non- respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ⁵						(Effect size=‡)				(Effect size=‡)	
New England	1,460	90	14.54	14.18	21.15	-0.37	-2.53	14.54	14.74	0.19	1.34
Mid East	3,670	140	27.01	26.98	27.59	-0.03	-0.12	27.01	26.87	-0.14	-0.54
Great Lakes	1,720	50	11.46	11.65	7.90	0.20	1.73	11.46	11.49	0.04	0.31
Plains	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southeast	2,710	50	18.61	18.90	13.47	0.29	1.54	18.61	18.93	0.32	1.72
Southwest	1,000	50	4.23	4.34	2.26	0.11	2.59	4.23	4.31	0.08	1.92
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	1,500	110	12.62	12.04	22.98	-0.58	-4.57	12.62	12.06	-0.56*	-4.41
Outlying areas	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Student type						(Effect size=‡)				(Effect size=‡)	
Undergraduate student	7,540	310	57.56	57.30	62.16	-0.26	-0.44	57.56	57.83	0.27	0.46
Graduate student	5,540	190	36.17	36.24	35.04	0.06	0.17	36.17	35.89	-0.28	-0.77
First professional student	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Federal aid status						(Effect size=0.07)				(Effect size=0.01)	
Received	7,270	60	53.15	55.72	6.96	2.57*	4.84	53.15	53.28	0.14	0.25
Did not receive	5,490	250	38.27	37.42	53.50	-0.85*	-2.21	38.27	38.43	0.16	0.42
Unknown	960	200	8.58	6.86	39.54	-1.72*	-20.08	8.58	8.29	-0.30	-3.44
Pell Grant status						(Effect size=‡)				(Effect size=‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	5,180	310	69.50	67.73	98.74	-1.64*	-2.35	69.50	69.64	0.14	0.20
Total Pell amount received ⁶						(Effect size=‡)				(Effect size=‡)	
None	5,180	310	69.50	67.73	98.74	-1.64*	-2.35	69.50	69.64	0.14	0.20
\$1–\$2,888	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$2,889–\$5,774	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$5,775	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-33. Student-level (study member) nonresponse bias analysis for selected variables for students in private nonprofit, 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted non-respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Stafford Loan status						(Effect size=‡)				(Effect size=‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	7,790	490	54.64	52.23	97.90	-2.41*	-4.41	54.64	54.61	-0.03	-0.06
Total Stafford amount received ⁷						(Effect size=‡)				(Effect size=‡)	
None	7,790	490	54.64	52.23	97.90	-2.41*	-4.41	54.64	54.61	-0.03	-0.06
\$1–\$6,000	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$6,001–\$7,500	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$7,501–\$14,000	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$14,001 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Institution total enrollment ⁸						(Effect size=0.03)				(Effect size=0.01)	
1–4,125	3,030	90	21.51	22.14	10.20	0.63*	2.93	21.51	21.63	0.12	0.54
4,126–8,734	3,050	90	19.46	19.94	10.81	0.48*	2.47	19.46	19.46	#	0.02
8,735–17,448	3,780	130	25.78	25.94	22.91	0.16	0.62	25.78	26.15	0.37	1.42
17,449 or more	3,860	200	33.25	31.98	56.07	-1.27*	-3.82	33.25	32.77	-0.49	-1.46
Sampled baccalaureate recipient						(Effect size=0.01)				(Effect size=#)	
Baccalaureate recipient	5,350	150	11.23	11.46	6.94	0.24*	2.12	11.23	11.26	0.04	0.33
Not baccalaureate recipient	8,380	360	88.77	88.54	93.06	-0.24*	-0.27	88.77	88.74	-0.04	-0.04
Age as of Dec 31, 2015						(Effect size=‡)				(Effect size=‡)	
15–23	5,860	180	46.45	46.85	39.16	0.41	0.87	46.45	47.11	0.66	1.43
24–29	3,580	110	23.53	23.91	16.57	0.39*	1.65	23.53	23.68	0.16	0.67
30 or older	4,280	170	29.39	29.23	32.22	-0.16	-0.54	29.39	29.21	-0.18	-0.62
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Institutional aid status						(Effect size=0.05)				(Effect size=0.01)	
Received	7,260	100	44.82	46.20	19.95	1.38*	3.09	44.82	44.79	-0.03	-0.06
Did not receive	5,130	220	44.50	44.54	43.93	0.03	0.07	44.50	44.73	0.23	0.51
Unknown	1,340	200	10.68	9.26	36.12	-1.42*	-13.27	10.68	10.48	-0.20	-1.90

See notes at end of table.

Table J-33. Student-level (study member) nonresponse bias analysis for selected variables for students in private nonprofit, 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted non-respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
State aid status						(Effect size=‡)				(Effect size=‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	10,410	290	77.31	78.25	60.34	0.94*	1.22	77.31	77.47	0.16	0.20
Unknown	1,900	220	13.15	11.72	38.91	-1.43*	-10.90	13.15	12.99	-0.16	-1.25
Parent's highest level of education						(Effect size=‡)				(Effect size=‡)	
Middle school/junior high	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
High school	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
College or beyond	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Marital status						(Effect size=‡)				(Effect size=‡)	
Unmarried-single/divorce/widow	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Married/remarried	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Separated	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Divorced or widowed	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Support children						(Effect size=‡)				(Effect size=‡)	
Has dependents	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Does not have dependents	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Income ⁷						(Effect size=‡)				(Effect size=‡)	
\$0 or less	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$1–\$15,796	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$15,797–\$45,963	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$45,964–\$100,530	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$100,531 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-33. Student-level (study member) nonresponse bias analysis for selected variables for students in private nonprofit, 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted non-respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Major						(Effect size=‡)				(Effect size=‡)	
Undecided	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Humanities	900	50	15.08	14.87	18.79	-0.21	-1.37	15.08	15.12	0.04	0.28
Social/behavioral sciences	980	30	12.26	12.10	14.90	-0.15	-1.20	12.26	11.98	-0.27	-2.24
Life sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Physical sciences/math	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Computer/information science	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Engineering	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Education	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Business/Management	1,150	80	20.33	19.71	31.37	-0.62	-3.02	20.33	20.31	-0.03	-0.13
Health	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Vocational/technical	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other technical/professional	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Degree program (undergraduate only)						(Effect size=‡)				(Effect size=‡)	
Postsecondary award, certificate or diploma of less than two academic years	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Associate's degree	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Postsecondary award, certificate, diploma, or degree program	7,260	240	92.74	93.98	72.21	1.15*	1.24	92.74	93.90	1.17*	1.26
Bachelor's degree or equivalent	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ^a						(Effect size=‡)				(Effect size=‡)	
1–83	4,910	240	36.77	35.90	52.28	-0.86§	-2.35	36.77	37.16	0.40	1.08
84–96	3,480	110	26.68	27.08	19.43	0.40	1.51	26.68	26.69	0.01	0.05
97–99	3,180	120	21.65	21.83	18.51	0.18	0.81	21.65	21.36	-0.29	-1.35
100 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-33. Student-level (study member) nonresponse bias analysis for selected variables for students in private nonprofit, 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted non-respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Number of first-time, full-time undergraduate students living on campus ^a						(Effect size=0.01)				(Effect size=0.01)	
0–266	2,250	90	15.20	15.67	6.77	0.47*	3.09	15.20	15.34	0.13	0.89
267–524	2,400	80	17.10	17.09	17.18	#	-0.03	17.10	16.89	-0.21	-1.23
525–886	2,790	120	22.43	22.27	25.45	-0.17	-0.75	22.43	22.39	-0.04	-0.20
887 or more	4,920	170	33.21	33.10	35.20	-0.11	-0.33	33.21	33.65	0.44	1.32
Unknown	1,370	70	12.05	11.86	15.40	-0.19	-1.55	12.05	11.73	-0.32	-2.66
Average amount of grant and scholarship aid received ^a						(Effect size=‡)				(Effect size=‡)	
\$0–\$15,432	3,450	100	27.58	28.39	13.07	0.81*	2.93	27.58	27.99	0.42	1.51
\$15,433–\$19,621	2,550	60	18.84	19.08	14.53	0.24	1.27	18.84	18.72	-0.12	-0.64
\$19,622–\$25,564	2,610	130	18.94	18.93	19.16	-0.01	-0.06	18.94	18.54	-0.41	-2.15
\$25,565 or more	4,310	190	28.37	27.39	45.97	-0.98*	-3.45	28.37	28.68	0.31	1.08
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ^a						(Effect size=‡)				(Effect size=‡)	
0–50	2,780	110	18.85	18.79	19.84	-0.06	-0.29	18.85	18.97	0.12	0.63
51–83	2,870	130	18.57	18.49	20.07	-0.08	-0.45	18.57	18.32	-0.25	-1.36
84–141	2,760	110	19.95	19.66	25.16	-0.29	-1.46	19.95	19.64	-0.31	-1.56
142 or more	4,460	130	35.49	35.92	27.67	0.44	1.23	35.49	36.09	0.60	1.70
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Veteran status						(Effect size=#)				(Effect size=#)	
Yes	1,280	60	4.86	4.84	5.15	-0.02	-0.33	4.86	4.95	0.09	1.90
No	12,440	450	95.14	95.16	94.85	0.02	0.02	95.14	95.05	-0.09	-0.10

See notes at end of table.

Table J-33. Student-level (study member) nonresponse bias analysis for selected variables for students in private nonprofit, 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted non-respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Race						(Effect size=‡)				(Effect size=‡)	
White	7,970	190	56.48	57.87	31.48	1.39*	2.46	56.48	57.29	0.81*	1.43
Black or African American	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Hispanic	1,610	50	12.70	12.87	9.78	0.16	1.28	12.70	12.94	0.24	1.85
Asian	1,700	50	10.89	11.01	8.78	0.12	1.08	10.89	11.39	0.49*	4.54
American Indian or Alaska Native	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
More than one race	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	420	190	5.29	3.21	42.71	-2.08*	-39.36	5.29	3.76	-1.53*	-28.90
Sex						(Effect size=‡)				(Effect size=‡)	
Male	6,260	270	43.11	42.62	51.91	-0.49*	-1.14	43.11	43.17	0.06	0.14
Female	7,470	230	56.81	57.38	46.65	0.57*	1.00	56.81	56.83	0.01	0.03
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than 30 unweighted nonrespondents).

* $p < 0.05$ § $p < 0.05$ for difference between weighted respondent mean and weighted nonrespondent mean but not for estimated bias.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 calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Student base weight, adjusted for nonresponse.⁴ 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).⁵ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.⁶ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.⁷ Categories were defined by quartiles.⁸ Categories were defined by quartiles computed at the institution level.

NOTE: Sample sizes rounded to the nearest 10 and, therefore, may not sum to total. 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. "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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-34. Student-level (study member) nonresponse bias analysis for selected variables for students in private for-profit less-than-2-year institutions: 2015–16

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ⁵						(Effect size=‡)				(Effect size=‡)	
New England	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Mid East	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Great Lakes	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Plains	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southeast	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southwest	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	520	40	25.36	24.45	49.37	-0.91	-3.58	25.36	25.48	0.12	0.48
Outlying areas	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Federal aid status						(Effect size=‡)				(Effect size=‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	110	70	6.24	3.87	69.05	-2.37*	-38.04	6.24	5.18	-1.07	-17.08
Pell Grant status						(Effect size=‡)				(Effect size=‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	810	90	34.94	32.68	94.62	-2.26*	-6.46	34.94	35.05	0.11	0.31
Total Pell amount received ⁶						(Effect size=‡)				(Effect size=‡)	
None	810	90	34.94	32.68	94.62	-2.26*	-6.46	34.94	35.05	0.11	0.31
\$1–\$2,888	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$2,889–\$5,774	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$5,775	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Stafford Loan status						(Effect size=‡)				(Effect size=‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	1,080	90	47.16	45.32	95.83	-1.84*	-3.90	47.16	47.23	0.07	0.14

See notes at end of table.

Table J-34. Student-level (study member) nonresponse bias analysis for selected variables for students in private for-profit less-than-2-year institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non- respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non- respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Total Stafford amount received ⁷						(Effect size=‡)				(Effect size=‡)	
None	1,080	90	47.16	45.32	95.83	-1.84*	-3.90	47.16	47.23	0.07	0.14
\$1–\$3,959	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$3,960–\$6,333	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$6,334–\$9,500	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$9,501 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Institution total enrollment ⁸						(Effect size=‡)				(Effect size=‡)	
1–213	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
214–421	660	50	30.01	29.52	42.88	-0.49	-1.62	30.01	29.91	-0.10	-0.33
422–900	580	30	25.78	25.28	39.00	-0.50	-1.94	25.78	25.54	-0.23	-0.91
901 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Sampled baccalaureate recipient						(Effect size=‡)				(Effect size=‡)	
Baccalaureate recipient	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not baccalaureate recipient	2,440	90	99.97	99.97	100.00	#	#	99.97	99.97	#	#
Age as of Dec 31, 2015						(Effect size=‡)				(Effect size=‡)	
15–23	1,100	30	44.99	45.45	32.85	0.46§	1.02	44.99	44.84	-0.14	-0.32
24–29	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
30 or older	670	30	27.58	27.26	35.92	-0.32	-1.14	27.58	27.58	#	0.01
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Institutional aid status						(Effect size=‡)				(Effect size=‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	510	70	18.85	16.94	69.60	-1.92*	-10.18	18.85	17.88	-0.97	-5.16
State aid status						(Effect size=‡)				(Effect size=‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	560	80	20.73	18.60	77.32	-2.14*	-10.32	20.73	19.68	-1.06*	-5.09

See notes at end of table.

Table J-34. Student-level (study member) nonresponse bias analysis for selected variables for students in private for-profit less-than-2-year institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted non-respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Parent's highest level of education						(Effect size=†)				(Effect size=†)	
Middle school/junior high	†	†	†	†	†	†	†	†	†	†	†
High school	†	†	†	†	†	†	†	†	†	†	†
College or beyond	†	†	†	†	†	†	†	†	†	†	†
Unknown	†	†	†	†	†	†	†	†	†	†	†
Marital status						(Effect size=†)				(Effect size=†)	
Unmarried-single/divorce/widow	†	†	†	†	†	†	†	†	†	†	†
Married/remarried	†	†	†	†	†	†	†	†	†	†	†
Separated	†	†	†	†	†	†	†	†	†	†	†
Divorced or widowed	†	†	†	†	†	†	†	†	†	†	†
Support children						(Effect size=†)				(Effect size=†)	
Has dependents	†	†	†	†	†	†	†	†	†	†	†
Does not have dependents	†	†	†	†	†	†	†	†	†	†	†
Unknown	†	†	†	†	†	†	†	†	†	†	†
Income ⁷						(Effect size=†)				(Effect size=†)	
\$0 or less	†	†	†	†	†	†	†	†	†	†	†
\$1–\$3,670	†	†	†	†	†	†	†	†	†	†	†
\$3,671–\$14,535	†	†	†	†	†	†	†	†	†	†	†
\$14,536–\$30,242	†	†	†	†	†	†	†	†	†	†	†
\$30,243 or more	†	†	†	†	†	†	†	†	†	†	†
Unknown	†	†	†	†	†	†	†	†	†	†	†

See notes at end of table.

Table J-34. Student-level (study member) nonresponse bias analysis for selected variables for students in private for-profit less-than-2-year institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted nonrespondents (study members)	Unweighted non- respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non- respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Major						(Effect size=‡)				(Effect size=‡)	
Undecided	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Humanities	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Social/behavioral sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Life sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Physical sciences/math	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Computer/information science	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Engineering	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Education	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Business/Management	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Health	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Vocational/technical	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other technical/professional	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	250	50	9.30	7.91	45.69	-1.38§	-14.80	9.30	8.10	-1.20	-12.87
Degree program (undergraduate only)						(Effect size=‡)				(Effect size=‡)	
Postsecondary award, certificate or diploma of less than two academic years	2,390	70	98.01	98.75	78.57	0.74	0.75	98.01	98.75	0.74	0.75
Associate's degree	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Postsecondary award, certificate, diploma, or degree program	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bachelor's degree or equivalent	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ^a						(Effect size=‡)				(Effect size=‡)	
1–67	690	30	27.30	27.23	29.07	-0.07	-0.25	27.30	27.93	0.63	2.30
68–79	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
80–89	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
90 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-34. Student-level (study member) nonresponse bias analysis for selected variables for students in private for-profit less-than-2-year institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted non-respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Number of first-time, full-time undergraduate students living on campus ^a						(Effect size=#)				(Effect size=#)	
Unknown	2,440	90	100.00	100.00	100.00	#	#	100.00	100.00	#	#
Average amount of grant and scholarship aid received ^a						(Effect size=†)				(Effect size=†)	
\$0–\$3,874	†	†	†	†	†	†	†	†	†	†	†
\$3,875–\$4,359	590	40	23.59	23.04	37.92	-0.54	-2.30	23.59	23.85	0.26	1.11
\$4,360–\$5,003	†	†	†	†	†	†	†	†	†	†	†
\$5,004 or more	†	†	†	†	†	†	†	†	†	†	†
Unknown	†	†	†	†	†	†	†	†	†	†	†
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ^a						(Effect size=†)				(Effect size=†)	
0–24	450	50	18.28	17.19	47.03	-1.09	-5.95	18.28	17.93	-0.34	-1.88
25–49	†	†	†	†	†	†	†	†	†	†	†
50–170	†	†	†	†	†	†	†	†	†	†	†
171 or more	†	†	†	†	†	†	†	†	†	†	†
Unknown	†	†	†	†	†	†	†	†	†	†	†
Veteran status						(Effect size=†)				(Effect size=†)	
Yes	†	†	†	†	†	†	†	†	†	†	†
No	2,230	90	94.65	94.53	97.76	-0.12	-0.12	94.65	94.44	-0.21	-0.22

See notes at end of table.

Table J-34. Student-level (study member) nonresponse bias analysis for selected variables for students in private for-profit less-than-2-year institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted non-respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Race						(Effect size=‡)				(Effect size=‡)	
White	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Black or African American	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Hispanic	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Asian	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
American Indian or Alaska Native	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
More than one race	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Sex						(Effect size=‡)				(Effect size=‡)	
Male	690	40	27.82	27.46	37.33	-0.36	-1.29	27.82	27.95	0.13	0.47
Female	1,750	60	72.18	72.54	62.67	0.36	0.50	72.18	72.05	-0.13	-0.18
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than 30 unweighted nonrespondents).

* $p < 0.05$ § $p < 0.05$ for difference between weighted respondent mean and weighted nonrespondent mean but not for estimated bias.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 calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Student base weight, adjusted for nonresponse.⁴ 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).⁵ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.⁶ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.⁷ Categories were defined by quartiles.⁸ Categories were defined by quartiles computed at the institution level.

NOTE: Sample sizes rounded to the nearest 10 and, therefore, may not sum to total. 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. "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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-35. Student-level (study member) nonresponse bias analysis for selected variables for students in private for-profit 2-year institutions: 2015–16

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted non-respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ⁵						(Effect size=‡)				(Effect size=‡)	
New England	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Mid East	890	30	15.74	15.88	11.68	0.14	0.87	15.74	15.88	0.14	0.92
Great Lakes	530	70	9.53	8.85	29.81	-0.69	-7.21	9.53	8.76	-0.77	-8.06
Plains	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southeast	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southwest	1,120	60	15.24	15.13	18.70	-0.12	-0.77	15.24	14.93	-0.31	-2.04
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	1,160	50	20.68	20.60	23.03	-0.08	-0.39	20.68	21.10	0.42	2.03
Outlying areas	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Federal aid status						(Effect size=0.08)				(Effect size=0.04)	
Received	4,950	30	82.24	84.51	15.27	2.27*	2.76	82.24	82.22	-0.02	-0.03
Did not receive	630	80	12.12	11.55	29.16	-0.58*	-4.76	12.12	12.95	0.83	6.83
Unknown	280	150	5.63	3.94	55.57	-1.69*	-30.04	5.63	4.83	-0.80	-14.28
Pell Grant status						(Effect size=‡)				(Effect size=‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	1,600	250	29.16	26.91	95.42	-2.25*	-7.70	29.16	29.15	-0.01	-0.02
Total Pell amount received ⁶						(Effect size=‡)				(Effect size=‡)	
None	1,600	250	29.16	26.91	95.42	-2.25*	-7.70	29.16	29.15	-0.01	-0.02
\$1–\$2,888	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$2,889–\$5,774	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$5,775	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Stafford Loan status						(Effect size=‡)				(Effect size=‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	2,310	250	42.57	40.78	95.13	-1.78*	-4.18	42.57	42.57	0.01	0.02

See notes at end of table.

Table J-35. Student-level (study member) nonresponse bias analysis for selected variables for students in private for-profit 2-year institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted non-respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Total Stafford amount received ⁷						(Effect size=‡)				(Effect size=‡)	
None	2,310	250	42.57	40.78	95.13	-1.78*	-4.18	42.57	42.57	0.01	0.02
\$1–\$4,750	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$4,751–\$7,719	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$7,720–\$9,500	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$9,501 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Institution total enrollment ⁸						(Effect size=0.01)				(Effect size=0.02)	
1–652	1,510	110	30.25	29.77	44.42	-0.48	-1.59	30.25	29.69	-0.56	-1.87
653–971	1,480	70	22.52	22.59	20.54	0.07	0.30	22.52	23.22	0.70	3.11
972–2,194	1,500	50	21.68	21.70	21.05	0.02	0.10	21.68	21.59	-0.10	-0.44
2,195 or more	1,360	30	25.55	25.94	13.99	0.39§	1.53	25.55	25.51	-0.04	-0.16
Sampled baccalaureate recipient						(Effect size=‡)				(Effect size=‡)	
Baccalaureate recipient	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not baccalaureate recipient	5,860	260	99.61	99.60	100.00	-0.01	-0.01	99.61	99.61	#	#
Age as of Dec 31, 2015						(Effect size=‡)				(Effect size=‡)	
15–23	2,600	110	43.20	43.40	37.29	0.20	0.46	43.20	43.21	#	0.01
24–29	1,500	50	24.97	25.10	21.08	0.13	0.53	24.97	25.10	0.13	0.51
30 or older	1,760	80	31.64	31.49	35.85	-0.14	-0.45	31.64	31.69	0.06	0.18
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Institutional aid status						(Effect size=‡)				(Effect size=‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	3,840	120	66.59	67.44	41.52	0.85§	1.28	66.59	67.29	0.70	1.05
Unknown	1,570	130	23.54	22.44	56.02	-1.10*	-4.68	23.54	22.82	-0.72	-3.05
State aid status						(Effect size=‡)				(Effect size=‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	3,880	130	66.96	67.76	43.48	0.80§	1.19	66.96	67.65	0.68	1.02
Unknown	1,640	130	25.08	24.03	56.00	-1.05*	-4.18	25.08	24.37	-0.71	-2.82

See notes at end of table.

Table J-35. Student-level (study member) nonresponse bias analysis for selected variables for students in private for-profit 2-year institutions: 2015–16—Continued

Variable	Unweighted respondents (study members)	Unweighted non- respondents (non-study members)	Before weight adjustments					After nonresponse weight adjustment			
			Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non- respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Parent's highest level of education						(Effect size=†)				(Effect size=†)	
Middle school/junior high	†	†	†	†	†	†	†	†	†	†	†
High school	†	†	†	†	†	†	†	†	†	†	†
College or beyond	†	†	†	†	†	†	†	†	†	†	†
Unknown	†	†	†	†	†	†	†	†	†	†	†
Marital status						(Effect size=†)				(Effect size=†)	
Unmarried-single/divorce/widow	†	†	†	†	†	†	†	†	†	†	†
Married/remarried	†	†	†	†	†	†	†	†	†	†	†
Separated	†	†	†	†	†	†	†	†	†	†	†
Divorced or widowed	†	†	†	†	†	†	†	†	†	†	†
Support children						(Effect size=†)				(Effect size=†)	
Has dependents	†	†	†	†	†	†	†	†	†	†	†
Does not have dependents	†	†	†	†	†	†	†	†	†	†	†
Unknown	†	†	†	†	†	†	†	†	†	†	†
Income ⁷						(Effect size=†)				(Effect size=†)	
\$0 or less	†	†	†	†	†	†	†	†	†	†	†
\$1–\$5,696	†	†	†	†	†	†	†	†	†	†	†
\$5,697–\$15,940	†	†	†	†	†	†	†	†	†	†	†
\$15,941–\$32,511	†	†	†	†	†	†	†	†	†	†	†
\$32,512 or more	†	†	†	†	†	†	†	†	†	†	†
Unknown	†	†	†	†	†	†	†	†	†	†	†

See notes at end of table.

Table J-35. Student-level (study member) nonresponse bias analysis for selected variables for students in private for-profit 2-year institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Major						(Effect size=‡)				(Effect size=‡)	
Undecided	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Humanities	170	40	5.67	5.17	21.33	-0.53	-9.34	5.67	5.77	0.10	1.78
Social/behavioral sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Life sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Physical sciences/math	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Computer/information science	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Engineering	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Education	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Business/Management	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Health	3,270	100	51.54	51.94	38.97	0.43	0.82	51.54	51.56	0.02	0.04
Vocational/technical	980	50	17.97	17.83	22.38	-0.15	-0.83	17.97	17.72	-0.25	-1.39
Other technical/professional	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Degree program (undergraduate only)						(Effect size=‡)				(Effect size=‡)	
Postsecondary award, certificate or diploma of less than two academic years	3,550	170	61.90	61.72	67.03	-0.17	-0.28	61.90	61.68	-0.22	-0.35
Associate's degree	2,280	60	37.20	37.72	21.62	0.53*	1.42	37.20	37.55	0.35	0.95
Postsecondary award, certificate, diploma, or degree program	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bachelor's degree or equivalent	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ^a						(Effect size=0.01)				(Effect size=0.02)	
1–75	1,280	60	24.85	24.91	23.08	0.06	0.24	24.85	25.68	0.83	3.36
76–83	1,820	90	26.47	26.39	28.70	-0.08	-0.29	26.47	26.19	-0.28	-1.05
84–92	1,570	40	23.24	23.54	14.29	0.30	1.30	23.24	23.30	0.06	0.27
93 or more	1,190	70	25.45	25.16	33.93	-0.29	-1.13	25.45	24.83	-0.62	-2.43

See notes at end of table.

Table J-35. Student-level (study member) nonresponse bias analysis for selected variables for students in private for-profit 2-year institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Number of first-time, full-time undergraduate students living on campus ^a						(Effect size=‡)				(Effect size=‡)	
0–39	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	5,810	260	98.68	98.64	100.00	-0.04	-0.05	98.68	98.52	-0.16	-0.16
Average amount of grant and scholarship aid received ^a						(Effect size=‡)				(Effect size=‡)	
\$0–\$3,947	1,300	50	17.48	17.45	18.40	-0.03	-0.18	17.48	17.92	0.44	2.52
\$3,948–\$4,670	1,320	50	22.60	22.62	22.05	0.02	0.08	22.60	22.29	-0.31	-1.38
\$4,671–\$5,334	1,540	40	30.64	31.23	13.32	0.59*	1.92	30.64	31.23	0.59	1.92
\$5,335 or more	1,430	100	26.00	25.48	41.54	-0.53	-2.02	26.00	25.35	-0.65	-2.50
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ^a						(Effect size=‡)				(Effect size=‡)	
0–32	900	30	22.51	22.69	17.17	0.18	0.80	22.51	23.06	0.55	2.47
33–79	1,460	120	22.34	21.68	41.73	-0.66	-2.94	22.34	21.56	-0.78	-3.50
80–133	1,550	40	23.82	24.05	17.04	0.23	0.96	23.82	23.75	-0.07	-0.29
134 or more	1,690	50	28.06	28.35	19.38	0.29	1.05	28.06	28.42	0.36	1.29
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Veteran status						(Effect size=‡)				(Effect size=‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
No	5,440	230	92.21	92.35	87.95	0.14	0.16	92.21	92.34	0.14	0.15

See notes at end of table.

Table J-35. Student-level (study member) nonresponse bias analysis for selected variables for students in private for-profit 2-year institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Race						(Effect size=‡)				(Effect size=‡)	
White	1,810	60	32.93	33.21	24.72	0.28	0.84	32.93	33.19	0.26	0.78
Black or African American	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Hispanic	1,700	40	29.82	30.30	15.61	0.48§	1.61	29.82	30.19	0.37	1.24
Asian	220	50	5.04	4.46	22.09	-0.58	-11.46	5.04	4.88	-0.16	-3.19
American Indian or Alaska Native	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
More than one race	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	400	90	5.45	4.85	23.17	-0.60*	-11.02	5.45	4.95	-0.50*	-9.13
Sex						(Effect size=‡)				(Effect size=‡)	
Male	2,130	130	39.92	39.48	53.02	-0.44§	-1.11	39.92	39.76	-0.16	-0.41
Female	3,730	110	59.90	60.52	41.41	0.63*	1.05	59.90	60.24	0.34	0.58
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than 30 unweighted nonrespondents).

* $p < 0.05$ § $p < 0.05$ for difference between weighted respondent mean and weighted nonrespondent mean but not for estimated bias.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 calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Student base weight, adjusted for nonresponse.⁴ 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).⁵ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.⁶ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.⁷ Categories were defined by quartiles.⁸ Categories were defined by quartiles computed at the institution level.

NOTE: Sample sizes rounded to the nearest 10 and, therefore, may not sum to total. 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. "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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-36. Student-level (study member) nonresponse bias analysis for selected variables for students in private for-profit 4-year institutions: 2015–16

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted non-respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ⁵						(Effect size=‡)				(Effect size=‡)	
New England	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Mid East	2,650	90	6.35	6.69	2.96	0.34	5.32	6.35	6.43	0.08	1.27
Great Lakes	3,090	70	11.39	12.25	2.71	0.86*	7.59	11.39	11.50	0.11	0.98
Plains	2,390	410	18.43	15.91	43.71	-2.52	-13.66	18.43	19.34	0.91	4.91
Southeast	7,410	330	22.89	22.18	30.05	-0.71	-3.11	22.89	21.59	-1.30	-5.67
Southwest	3,950	150	20.14	21.24	9.05	1.10§	5.48	20.14	19.98	-0.16	-0.81
Rocky Mountains	2,080	80	4.73	5.01	1.98	0.27	5.78	4.73	4.75	0.02	0.45
Far West	4,330	220	14.80	15.37	8.98	0.58	3.92	14.80	15.15	0.36	2.42
Outlying areas	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Student type						(Effect size=‡)				(Effect size=‡)	
Undergraduate student	19,620	1,090	75.30	73.93	89.02	-1.37§	-1.82	75.30	75.25	-0.05	-0.07
Graduate student	5,720	230	23.54	24.81	10.72	1.28§	5.42	23.54	23.58	0.05	0.20
First professional student	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Federal aid status						(Effect size=0.12)				(Effect size=0.06)	
Received	18,940	250	70.09	74.56	25.23	4.47*	6.37	70.09	69.19	-0.90	-1.28
Did not receive	6,440	570	22.07	20.65	36.32	-1.42	-6.43	22.07	21.32	-0.75	-3.40
Unknown	1,150	530	7.84	4.79	38.45	-3.05	-38.89	7.84	9.49	1.65	21.06
Pell Grant status						(Effect size=0.12)				(Effect size=#)	
Received	10,360	40	50.66	56.54	1.56	4.98*	9.83	50.66	50.62	-0.03	-0.06
Did not receive	9,270	1,050	49.34	43.46	98.44	-4.98*	-10.09	49.34	49.38	0.03	0.06
Total Pell amount received ⁶						(Effect size=‡)				(Effect size=‡)	
None	9,270	1,050	49.34	43.46	98.44	-4.98*	-10.09	49.34	49.38	0.03	0.06
\$1–\$2,888	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$2,889–\$5,774	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$5,775	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-36. Student-level (study member) nonresponse bias analysis for selected variables for students in private for-profit 4-year institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted non-respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Stafford Loan status						(Effect size=0.10)				(Effect size=#)	
Received	14,160	40	52.98	58.13	1.23	5.15*	9.73	52.98	52.99	0.01	0.02
Did not receive	12,370	1,300	47.02	41.87	98.77	-5.15*	-10.96	47.02	47.01	-0.01	-0.02
Total Stafford amount received ⁷						(Effect size=‡)				(Effect size=‡)	
None	12,370	1,300	47.02	41.87	98.77	-5.15*	-10.96	47.02	47.01	-0.01	-0.02
\$1–\$4,611	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$4,612–\$8,547	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$8,548–\$13,404	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$13,405 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Institution total enrollment ⁸						(Effect size=0.04)				(Effect size=#)	
1–1,206	6,480	240	13.18	14.02	4.68	0.85§	6.42	13.18	13.23	0.05	0.38
1,207–2,414	5,990	220	9.53	10.07	4.13	0.54§	5.65	9.53	9.56	0.03	0.31
2,415–10,368	6,970	310	12.71	13.30	6.75	0.59	4.67	12.71	12.57	-0.14	-1.07
10,369 or more	7,090	580	64.59	62.61	84.44	-1.98§	-3.06	64.59	64.64	0.06	0.09
Sampled baccalaureate recipient						(Effect size=0.01)				(Effect size=#)	
Baccalaureate recipient	12,450	480	7.26	7.61	3.72	0.35§	4.85	7.26	7.27	0.02	0.27
Not baccalaureate recipient	14,070	870	92.74	92.39	96.28	-0.35§	-0.38	92.74	92.73	-0.02	-0.02
Age as of Dec 31, 2015						(Effect size=‡)				(Effect size=‡)	
15–23	5,120	100	17.20	17.10	18.23	-0.10	-0.60	17.20	16.75	-0.45	-2.64
24–29	7,470	230	24.27	25.58	11.15	1.31*	5.38	24.27	25.80	1.53	6.30
30 or older	13,940	660	55.57	57.32	37.96	1.75	3.16	55.57	57.45	1.88	3.39
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Institutional aid status						(Effect size=0.06)				(Effect size=0.04)	
Received	8,680	280	31.37	31.67	28.43	0.29	0.93	31.37	30.12	-1.26	-4.01
Did not receive	14,260	500	50.76	52.62	32.03	1.87§	3.67	50.76	50.41	-0.35	-0.69
Unknown	3,580	560	17.87	15.71	39.54	-2.16	-12.08	17.87	19.48	1.61	9.01

See notes at end of table.

Table J-36. Student-level (study member) nonresponse bias analysis for selected variables for students in private for-profit 4-year institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
State aid status						(Effect size=‡)				(Effect size=‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	21,120	760	77.31	79.08	59.62	1.76	2.28	77.31	75.75	-1.56	-2.02
Unknown	3,700	580	18.11	15.90	40.31	-2.21	-12.20	18.11	19.67	1.55	8.58
Parent's highest level of education						(Effect size=‡)				(Effect size=‡)	
Middle school/junior high	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
High school	6,830	30	38.00	38.01	34.22	0.34	0.90	38.00	37.84	-0.16	-0.42
College or beyond	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Marital status						(Effect size=‡)				(Effect size=‡)	
Unmarried-single/divorce/widow	13,000	40	56.37	56.41	45.94	0.95	1.68	56.37	56.56	0.19	0.33
Married/remarried	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Separated	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Divorced or widowed	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Support children						(Effect size=‡)				(Effect size=‡)	
Has dependents	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Does not have dependents	11,850	50	46.25	46.25	48.39	-0.19	-0.42	46.25	46.48	0.22	0.48
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Income ⁷						(Effect size=‡)				(Effect size=‡)	
\$0 or less	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$1–\$9,717	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$9,718–\$24,925	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$24,926–\$50,769	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$50,770 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-36. Student-level (study member) nonresponse bias analysis for selected variables for students in private for-profit 4-year institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Major						(Effect size=‡)				(Effect size=‡)	
Undecided	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Humanities	2,790	80	9.30	9.94	3.94	0.54\$	5.84	9.30	9.65	0.35	3.75
Social/behavioral sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Life sciences	300	40	2.46	2.25	4.21	-0.18	-7.23	2.46	2.27	-0.19	-7.81
Physical sciences/math	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Computer/information science	2,750	120	8.68	9.00	6.04	0.27	3.08	8.68	8.87	0.19	2.17
Engineering	880	40	3.89	3.95	3.36	0.05	1.36	3.89	4.02	0.14	3.56
Education	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Business/Management	3,220	220	23.66	24.45	17.07	0.67	2.83	23.66	23.67	0.01	0.03
Health	5,040	90	23.55	25.68	5.75	1.81*	7.67	23.55	24.88	1.33	5.65
Vocational/technical	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other technical/professional	2,980	130	13.79	14.16	10.69	0.31	2.28	13.79	14.45	0.66	4.81
Unknown	430	350	7.07	2.35	46.53	-4.00\$	-56.59	7.07	3.66	-3.41	-48.26
Degree program (undergraduate only)						(Effect size=‡)				(Effect size=‡)	
Postsecondary award, certificate or diploma of less than two academic years	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Associate's degree	3,460	80	27.63	30.00	7.81	2.01*	7.27	27.63	29.76	2.14	7.74
Postsecondary award, certificate, diploma, or degree program	15,620	690	64.13	65.46	53.07	1.12	1.75	64.13	65.10	0.97	1.51
Bachelor's degree or equivalent	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ^a						(Effect size=0.06)				(Effect size=0.04)	
1–75	4,460	410	17.44	15.39	38.04	-2.05	-11.76	17.44	18.89	1.45	8.29
76–88	7,150	390	28.06	29.46	14.02	1.40\$	4.98	28.06	28.00	-0.06	-0.23
89–95	7,140	280	30.88	30.80	31.72	-0.08	-0.27	30.88	30.09	-0.79	-2.56
96 or more	4,860	120	20.08	20.76	13.29	0.68	3.37	20.08	19.50	-0.58	-2.91
None or unknown	2,920	150	3.53	3.59	2.94	0.06	1.67	3.53	3.52	-0.01	-0.20

See notes at end of table.

Table J-36. Student-level (study member) nonresponse bias analysis for selected variables for students in private for-profit 4-year institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Number of first-time, full-time undergraduate students living on campus ^a						(Effect size=‡)				(Effect size=‡)	
0–32	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
33–50	900	40	1.19	1.25	0.58	0.06	5.11	1.19	1.15	-0.04	-3.23
51–99	1,380	50	7.87	8.54	1.12	0.67	8.54	7.87	8.37	0.51	6.45
100 or more	2,030	30	9.63	10.14	4.48	0.51	5.32	9.63	9.80	0.18	1.83
Unknown	21,310	1,210	79.99	78.66	93.35	-1.33§	-1.66	79.99	79.35	-0.65	-0.81
Average amount of grant and scholarship aid received ^a						(Effect size=0.05)				(Effect size=0.04)	
\$0–\$4,371	3,850	290	24.26	22.88	38.14	-1.38	-5.70	24.26	22.63	-1.63	-6.73
\$4,372–\$5,234	5,250	270	16.44	17.15	9.26	0.71	4.35	16.44	16.25	-0.19	-1.13
\$5,235–\$6,392	7,210	450	30.54	29.53	40.64	-1.01	-3.29	30.54	31.78	1.24	4.07
\$6,393 or more	6,770	160	24.97	26.59	8.62	1.63§	6.52	24.97	25.58	0.61	2.44
Unknown	3,440	180	3.80	3.84	3.33	0.05	1.21	3.80	3.76	-0.04	-0.95
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ^a						(Effect size=0.05)				(Effect size=0.02)	
0–12	5,190	430	22.87	20.61	45.57	-2.26	-9.88	22.87	23.54	0.67	2.94
13–33	3,750	210	7.91	8.20	4.95	0.29	3.73	7.91	7.83	-0.08	-1.02
34–91	4,110	140	8.50	9.02	3.31	0.52§	6.08	8.50	8.40	-0.10	-1.22
92 or more	10,290	400	57.28	58.71	42.84	1.44	2.51	57.28	56.83	-0.45	-0.78
Unknown	3,190	180	3.45	3.46	3.33	0.01	0.33	3.45	3.41	-0.04	-1.17
Veteran status						(Effect size=#)				(Effect size=#)	
Yes	3,130	230	14.03	14.11	13.13	0.09	0.63	14.03	14.02	-0.01	-0.04
No	23,390	1,120	85.97	85.89	86.87	-0.09	-0.10	85.97	85.98	0.01	0.01

See notes at end of table.

Table J-36. Student-level (study member) nonresponse bias analysis for selected variables for students in private for-profit 4-year institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Race						(Effect size=‡)				(Effect size=‡)	
White	10,840	230	41.89	43.84	22.32	1.95§	4.65	41.89	44.28	2.39	5.69
Black or African American	6,510	80	25.78	27.52	8.36	1.73*	6.73	25.78	27.12	1.33	5.18
Hispanic	4,380	160	14.50	14.05	18.95	-0.44	-3.06	14.50	13.84	-0.65	-4.51
Asian	1,940	40	3.73	3.95	1.51	0.22§	5.92	3.73	4.12	0.40*	10.61
American Indian or Alaska Native	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
More than one race	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	1,780	800	10.32	6.68	46.89	-3.64§	-35.29	10.32	6.76	-3.56	-34.48
Sex						(Effect size=‡)				(Effect size=‡)	
Male	10,570	550	35.37	35.41	34.95	0.04	0.12	35.37	35.85	0.48	1.36
Female	15,960	460	61.53	64.59	30.78	3.06§	4.98	61.53	64.15	2.62	4.26
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than 30 unweighted nonrespondents).

* $p < 0.05$ § $p < 0.05$ for difference between weighted respondent mean and weighted nonrespondent mean but not for estimated bias.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 calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Student base weight, adjusted for nonresponse.⁴ 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).⁵ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.⁶ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.⁷ Categories were defined by quartiles.⁸ Categories were defined by quartiles computed at the institution level.

NOTE: Sample sizes rounded to the nearest 10 and, therefore, may not sum to total. 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. "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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-37. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in all institutions: 2015–16

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Control and level of institution					
Public less-than-2-year	‡	‡	‡	‡	‡
Public 2-year	29.36	29.36	33.06	-3.70*	-3.70*
Public 4-year, non-doctorate-granting, primarily subbaccalaureate	3.85	3.85	4.32	-0.47*	-0.47*
Public 4-year, non-doctorate-granting, primarily baccalaureate	6.03	6.03	5.71	0.32*	0.32*
Public 4-year doctorate-granting	29.69	29.69	26.79	2.90*	2.90*
Private nonprofit less-than-4-year	0.38	0.38	0.43	-0.05	-0.05
Private nonprofit 4-year non-doctorate-granting	6.90	6.90	6.48	0.42*	0.42*
Private nonprofit 4-year doctorate-granting	13.77	13.77	12.94	0.83*	0.83*
Private for-profit less-than-2-year	1.35	1.35	1.58	-0.23*	-0.23*
Private for-profit 2-year	1.77	1.77	1.95	-0.18*	-0.18*
Private for-profit 4-year	6.73	6.73	6.45	0.28	0.28
Bureau of Economic Analysis Code (Office of Business Economics [OBE])					
Region ²					
New England	5.21	5.21	5.05	0.16	0.16
Mid East	15.38	15.38	15.21	0.17	0.17
Great Lakes	13.92	13.92	13.96	-0.04	-0.04
Plains	7.76	7.76	7.18	0.58	0.58
Southeast	22.78	22.79	22.98	-0.20	-0.19
Southwest	12.19	12.19	12.25	-0.06	-0.06
Rocky Mountains	4.40	4.40	4.52	-0.12	-0.12
Far West	17.23	17.23	17.76	-0.53	-0.53
Outlying areas	‡	‡	‡	‡	‡
Student type					
Undergraduate student	84.41	84.41	84.54	-0.13	-0.13
Graduate student	13.86	13.86	13.72	0.14	0.14
First professional student	1.72	1.72	1.74	-0.02	-0.02

See notes at end of table.

Table J-37. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in all institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Federal aid status					
Received	54.38	54.38	54.09	0.29	0.29
Did not receive	36.29	36.29	36.83	-0.54*	-0.54
Unknown	9.34	9.34	9.08	0.26	0.26
Pell Grant status					
Received	38.09	38.09	39.14	-1.05*	-1.05*
Did not receive	61.91	61.91	60.86	1.05*	1.05*
Total Pell amount received ³					
None	61.91	61.91	60.86	1.05*	1.05*
\$1–\$2,888	12.01	12.00	13.03	-1.02*	-1.03*
\$2,889–\$5,774	15.43	15.44	15.62	-0.19	-0.18
\$5,775	‡	‡	‡	‡	‡
Stafford Loan status					
Received	37.01	37.01	36.82	0.19	0.19
Did not receive	62.99	62.99	63.18	-0.19	-0.19
Total Stafford amount received ⁴					
None	62.99	62.99	63.18	-0.19	-0.19
\$1–\$4,750	9.17	9.16	9.34	-0.17	-0.18
\$4,751–\$7,500	14.59	14.60	14.16	0.43*	0.44*
\$7,501–\$11,000	‡	‡	‡	‡	‡
\$11,001 or more	7.66	7.66	7.70	-0.04	-0.04
Institution total enrollment ⁵					
None	10.78	10.78	11.80	-1.02*	-1.02*
1–2,557	22.54	22.54	23.24	-0.70*	-0.70*
2,558–10,412	32.11	32.11	32.64	-0.53	-0.53
10,413–27,004	34.57	34.57	32.32	2.25*	2.25*
Sampled baccalaureate recipient					
Baccalaureate recipient	8.06	8.06	7.40	0.66*	0.66*
Not baccalaureate recipient	91.94	91.94	92.60	-0.66*	-0.66*

See notes at end of table.

Table J-37. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in all institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Age as of Dec 31, 2015					
15–23	53.95	53.58	51.87	2.08*	1.71*
24–29	20.58	20.42	21.51	-0.93*	-1.09*
30 or older	25.46	25.28	26.62	-1.16*	-1.34*
Unknown	‡	‡	‡	‡	‡
Institutional aid status					
Received	24.37	24.37	22.17	2.20*	2.20*
Did not receive	59.47	59.47	61.77	-2.30*	-2.30*
Unknown	16.15	16.15	16.07	0.08	0.08
State aid status					
Received	16.27	16.27	16.13	0.14	0.14
Did not receive	68.07	68.07	68.46	-0.39	-0.39
Unknown	15.66	15.66	15.41	0.25	0.25
Parent's highest level of education					
Middle school/junior high	‡	‡	‡	‡	‡
High school	29.14	29.43	29.59	-0.45*	-0.16*
College or beyond	54.73	54.34	53.41	1.32*	0.93
Unknown	12.52	12.65	13.31	-0.79*	-0.66*
Marital status					
Unmarried-single/divorce/widow	80.40	80.21	80.07	0.33	0.14*
Married/remarried	14.62	14.76	14.77	-0.15	-0.01
Separated	‡	‡	‡	‡	‡
Divorced or widowed	‡	‡	‡	‡	‡
Support children					
Has dependents	22.16	22.38	23.16	-1.00*	-0.78*
Does not have dependents	77.84	77.62	76.83	1.01	0.79
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table J-37. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in all institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹	Full sample, base weighted	Respondents, adjusted for nonresponse and poststratification		
	(1)	(2)	(3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Income ⁴					
\$0 or less	‡	‡	‡	‡	‡
\$1–\$11,400	14.65	14.74	15.56	-0.91*	-0.82*
\$11,401–\$29,232	23.50	23.59	24.78	-1.28*	-1.19*
\$29,233–\$66,687	25.63	25.67	25.30	0.33	0.37
\$66,688 or more	27.80	27.56	25.21	2.59*	2.35*
Unknown	‡	‡	‡	‡	‡
Major					
Undecided	‡	‡	‡	‡	‡
Humanities	16.67	16.88	17.18	-0.51*	-0.30
Social/behavioral sciences	7.25	7.17	6.84	0.41*	0.33*
Life sciences	8.00	8.01	7.33	0.67*	0.68*
Physical sciences/math	1.84	1.81	1.69	0.15*	0.12*
Computer/information science	4.43	4.32	4.41	0.02	-0.09
Engineering	6.24	6.17	5.94	0.30*	0.23*
Education	4.43	4.38	4.31	0.12*	0.07
Business/Management	15.89	15.68	15.32	0.57*	0.36*
Health	16.95	16.68	17.93	-0.98*	-1.25*
Vocational/technical	2.76	2.84	3.09	-0.33*	-0.25*
Other technical/professional	11.94	11.89	12.15	-0.21	-0.26*
Unknown	3.19	3.84	3.40	-0.21	0.44
Degree program (undergraduate only)					
Postsecondary award, certificate or diploma of less than two academic years	7.47	7.54	8.90	-1.43*	-1.36*
Associate's degree	37.33	36.65	41.28	-3.95*	-4.63*
Postsecondary award, certificate, diploma, or degree program	52.51	52.12	46.67	5.84*	5.45*
Bachelor's degree or equivalent	2.58	2.89	3.03	-0.45*	-0.14
Unknown	0.11	0.79	0.12	-0.01	0.67*

See notes at end of table.

Table J-37. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in all institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					
1–67	33.84	33.81	33.76	0.08	0.05
68–83	30.50	30.37	31.11	-0.61	-0.74*
84–95	21.59	21.55	21.52	0.07	0.03
96 or more	11.62	11.75	11.03	0.59	0.72
None or Unknown	2.46	2.52	2.58	-0.12	-0.06
Number of first-time, full-time undergraduate students living on campus ⁵					
0–188	9.50	9.52	9.55	-0.05	-0.03
189–424	8.70	8.70	8.28	0.42*	0.42*
425–819	11.64	11.56	10.90	0.74*	0.66*
820 or more	26.65	26.68	23.47	3.18*	3.21*
Unknown	43.50	43.54	47.80	-4.30*	-4.26*
Average amount of grant and scholarship aid received ⁵					
\$0–\$4,744	21.52	21.48	23.20	-1.68*	-1.72*
\$4,745–\$6,192	28.11	28.22	30.48	-2.37*	-2.26*
\$6,193–\$11,968	31.54	31.31	28.73	2.81*	2.58*
\$11,969 or more	16.30	16.40	14.91	1.39*	1.49*
Unknown	2.53	2.60	2.68	-0.15	-0.08
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁵					
0–47	10.51	10.41	10.34	0.17	0.07
48–116	15.11	15.08	15.51	-0.40*	-0.43*
117–308	25.69	25.75	25.64	0.05	0.11
309 or more	46.04	46.05	45.72	0.32	0.33
Unknown	2.65	2.71	2.78	-0.13	-0.07
Veteran status					
Yes	5.10	5.10	4.92	0.18	0.18
No	94.90	94.90	95.08	-0.18	-0.18

See notes at end of table.

Table J-37. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in all institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹	Full sample, base weighted	Respondents, adjusted for nonresponse and poststratification		
	(1)	(2)	(3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race					
White	53.24	52.59	51.97	1.27*	0.62*
Black or African American	13.81	13.65	14.74	-0.93*	-1.09*
Hispanic	17.46	17.39	18.08	-0.62*	-0.69*
Asian	8.17	7.69	7.86	0.31*	-0.17
American Indian or Alaska Native	0.71	0.70	0.74	-0.03	-0.04
Native Hawaiian or other Pacific Islander	0.35	0.35	0.37	-0.02	-0.02
More than one race	3.09	3.03	3.11	-0.02	-0.08
Unknown	3.17	4.61	3.13	0.04	1.48*
Sex					
Male	43.94	43.66	43.08	0.86*	0.58*
Female	56.06	55.72	56.92	-0.86*	-1.20*
Unknown	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than 30 unweighted nonrespondents).

* $p < 0.05$.¹ Student base weight, adjusted for nonresponse.

² New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.

³ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.⁴ Categories were defined by quartiles.⁵ Categories were defined by quartiles computed at the institution level.

NOTE: Sample sizes rounded to the nearest 10 and, therefore, may not sum to total. "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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-38. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in public less-than-2-year institutions: 2015–16

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ²					
New England	†	†	†	†	†
Mid East	†	†	†	†	†
Great Lakes	†	†	†	†	†
Plains	†	†	†	†	†
Southeast	†	†	†	†	†
Southwest	†	†	†	†	†
Rocky Mountains	†	†	†	†	†
Far West	†	†	†	†	†
Outlying areas	†	†	†	†	†
Federal aid status					
Received	†	†	†	†	†
Did not receive	†	†	†	†	†
Unknown	†	†	†	†	†
Pell Grant status					
Received	†	†	†	†	†
Did not receive	†	†	†	†	†
Total Pell amount received ³					
None	†	†	†	†	†
\$1–\$2,888	†	†	†	†	†
\$2,889–\$5,774	†	†	†	†	†
\$5,775	†	†	†	†	†
Stafford Loan status					
Received	†	†	†	†	†
Did not receive	†	†	†	†	†

See notes at end of table.

Table J-38. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in public less-than-2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Total Stafford amount received ⁴					
None	†	†	†	†	†
\$1–\$3,336	†	†	†	†	†
\$3,337–\$4,750	†	†	†	†	†
\$4,751–\$7,272	†	†	†	†	†
\$7,273 or more	†	†	†	†	†
Institution total enrollment ⁵					
1–242	†	†	†	†	†
243–422	†	†	†	†	†
423–734	†	†	†	†	†
735 or more	†	†	†	†	†
Sampled baccalaureate recipient					
Baccalaureate recipient	†	†	†	†	†
Not baccalaureate recipient	†	†	†	†	†
Age as of Dec 31, 2015					
15–23	†	†	†	†	†
24–29	†	†	†	†	†
30 or older	†	†	†	†	†
Unknown	†	†	†	†	†
Institutional aid status					
Received	†	†	†	†	†
Did not receive	†	†	†	†	†
Unknown	†	†	†	†	†
State aid status					
Received	†	†	†	†	†
Did not receive	†	†	†	†	†
Unknown	†	†	†	†	†

See notes at end of table.

Table J-38. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in public less-than-2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Parent's highest level of education					
Middle school/junior high	†	†	†	†	†
High school	†	†	†	†	†
College or beyond	†	†	†	†	†
Unknown	†	†	†	†	†
Marital status					
Unmarried-single/divorce/widow	†	†	†	†	†
Married/remarried	†	†	†	†	†
Separated	†	†	†	†	†
Divorced or widowed	†	†	†	†	†
Support children					
Has dependents	†	†	†	†	†
Does not have dependents	†	†	†	†	†
Unknown	†	†	†	†	†
Income ⁴					
\$0 or less	†	†	†	†	†
\$1–\$9,200	†	†	†	†	†
\$9,201–\$20,396	†	†	†	†	†
\$20,397–\$38,490	†	†	†	†	†
\$38,491 or more	†	†	†	†	†
Unknown	†	†	†	†	†

See notes at end of table.

Table J-38. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in public less-than-2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Major					
Undecided	†	†	†	†	†
Humanities	†	†	†	†	†
Social/behavioral sciences	†	†	†	†	†
Life sciences	†	†	†	†	†
Physical sciences/math	†	†	†	†	†
Computer/information science	†	†	†	†	†
Engineering	†	†	†	†	†
Education	†	†	†	†	†
Business/Management	†	†	†	†	†
Health	†	†	†	†	†
Vocational/technical	†	†	†	†	†
Other technical/professional	†	†	†	†	†
Unknown	†	†	†	†	†
Degree program (undergraduate only)					
Postsecondary award, certificate or diploma of less than two academic years	†	†	†	†	†
Associate's degree	†	†	†	†	†
Postsecondary award, certificate, diploma, or degree program	†	†	†	†	†
Bachelor's degree or equivalent	†	†	†	†	†
Unknown	†	†	†	†	†
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					
1–60	†	†	†	†	†
61–82	†	†	†	†	†
83–91	†	†	†	†	†
92 or more	†	†	†	†	†
None or unknown	†	†	†	†	†

See notes at end of table.

Table J-38. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in public less-than-2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Number of first-time, full-time undergraduate students living on campus ⁵					
0–85	†	†	†	†	†
Unknown	†	†	†	†	†
Average amount of grant and scholarship aid received ⁵					
\$0–\$3,601	†	†	†	†	†
\$3,602–\$4,071	†	†	†	†	†
\$4,072–\$5,407	†	†	†	†	†
\$5,408 or more	†	†	†	†	†
Unknown	†	†	†	†	†
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁵					
0–6	†	†	†	†	†
7–22	†	†	†	†	†
23–40	†	†	†	†	†
41 or more	†	†	†	†	†
Unknown	†	†	†	†	†
Veteran status					
Yes	†	†	†	†	†
No	†	†	†	†	†

See notes at end of table.

Table J-38. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in public less-than-2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹	Full sample, base weighted	Respondents, adjusted for nonresponse and poststratification		
	(1)	(2)	(3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race					
White	‡	‡	‡	‡	‡
Black or African American	‡	‡	‡	‡	‡
Hispanic	‡	‡	‡	‡	‡
Asian	‡	‡	‡	‡	‡
American Indian or Alaska Native	‡	‡	‡	‡	‡
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡
More than one race	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Sex					
Male	‡	‡	‡	‡	‡
Female	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡

‡ Reporting standards not met (fewer than 30 unweighted nonrespondents).

¹ Student base weight, adjusted for nonresponse.

² New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.

³ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.

⁴ Categories were defined by quartiles.

⁵ Categories were defined by quartiles computed at the institution level.

NOTE: Sample sizes rounded to the nearest 10 and, therefore, may not sum to total. "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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-39. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in public 2-year institutions: 2015–16

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ²					
New England	3.86	3.83	3.79	0.07	0.04
Mid East	12.24	12.24	11.85	0.39*	0.39
Great Lakes	13.50	13.53	13.53	-0.03	#
Plains	6.59	6.85	6.31	0.28*	0.54*
Southeast	17.72	18.09	17.72	#	0.37
Southwest	16.82	16.66	16.96	-0.14	-0.30
Rocky Mountains	‡	‡	‡	‡	‡
Far West	26.20	25.83	26.75	-0.55*	-0.92
Outlying areas	‡	‡	‡	‡	‡
Federal aid status					
Received	47.08	47.08	41.65	5.43*	5.43*
Did not receive	41.11	40.87	45.82	-4.71*	-4.95*
Unknown	11.81	12.05	12.52	-0.71*	-0.47
Pell Grant status					
Received	‡	‡	‡	‡	‡
Did not receive	62.02	62.03	66.15	-4.13*	-4.12*
Total Pell amount received ³					
None	62.02	62.03	66.15	-4.13*	-4.12*
\$1–\$2,888	‡	‡	‡	‡	‡
\$2,889–\$5,774	‡	‡	‡	‡	‡
\$5,775	‡	‡	‡	‡	‡
Stafford Loan status					
Received	‡	‡	‡	‡	‡
Did not receive	81.29	81.28	85.60	-4.31*	-4.32*

See notes at end of table.

Table J-39. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in public 2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹	Full sample, base weighted	Respondents, adjusted for nonresponse and poststratification		
	(1)	(2)	(3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Total Stafford amount received ⁴					
None	81.29	81.28	85.60	-4.31*	-4.32*
\$1–\$3,250	‡	‡	‡	‡	‡
\$3,251–\$5,250	‡	‡	‡	‡	‡
\$5,251–\$7,500	‡	‡	‡	‡	‡
\$7,501 or more	‡	‡	‡	‡	‡
Institution total enrollment ⁵					
1–9,515	24.28	24.35	23.92	0.36	0.43
9,516–17,048	25.35	25.66	25.13	0.22	0.53
17,049–29,306	24.13	23.96	24.04	0.09	-0.08
29,307 or more	26.25	26.03	26.91	-0.66*	-0.88
Sampled baccalaureate recipient					
Baccalaureate recipient	‡	‡	‡	‡	‡
Not baccalaureate recipient	99.89	99.88	99.90	-0.01	-0.02
Age as of Dec 31, 2015					
15–23	54.11	53.84	52.05	2.06*	1.79*
24–29	19.92	19.89	20.54	-0.62*	-0.65*
30 or older	25.98	26.03	27.41	-1.43*	-1.38*
Unknown	‡	‡	‡	‡	‡
Institutional aid status					
Received	‡	‡	‡	‡	‡
Did not receive	74.97	74.79	75.99	-1.02*	-1.20*
Unknown	19.02	19.18	18.79	0.23	0.39
State aid status					
Received	20.31	20.38	18.83	1.48*	1.55*
Did not receive	63.73	63.46	65.49	-1.76*	-2.03*
Unknown	15.96	16.17	15.67	0.29	0.50

See notes at end of table.

Table J-39. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in public 2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Parent's highest level of education					
Middle school/junior high	‡	‡	‡	‡	‡
High school	‡	‡	‡	‡	‡
College or beyond	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Marital status					
Unmarried-single/divorce/widow	80.14	79.89	79.67	0.47*	0.22*
Married/remarried	‡	‡	‡	‡	‡
Separated	‡	‡	‡	‡	‡
Divorced or widowed	‡	‡	‡	‡	‡
Support children					
Has dependents	‡	‡	‡	‡	‡
Does not have dependents	74.27	73.92	73.76	0.51*	0.16*
Unknown	‡	‡	‡	‡	‡
Income ⁴					
\$0 or less	‡	‡	‡	‡	‡
\$1–\$11,452	‡	‡	‡	‡	‡
\$11,453–\$25,712	‡	‡	‡	‡	‡
\$25,713–\$53,968	‡	‡	‡	‡	‡
\$53,969 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table J-39. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in public 2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Major					
Undecided	‡	‡	‡	‡	‡
Humanities	25.01	25.41	24.99	0.02	0.42
Social/behavioral sciences	‡	‡	‡	‡	‡
Life sciences	4.56	4.63	4.33	0.23*	0.30*
Physical sciences/math	‡	‡	‡	‡	‡
Computer/information science	4.40	4.19	4.34	0.06	-0.15
Engineering	4.86	4.70	4.98	-0.12	-0.28*
Education	‡	‡	‡	‡	‡
Business/Management	12.86	12.47	12.75	0.11	-0.28
Health	19.33	19.15	19.28	0.05	-0.13
Vocational/technical	4.35	4.58	4.50	-0.15	0.08
Other technical/professional	11.21	11.30	11.31	-0.10	-0.01
Unknown	3.61	4.10	3.76	-0.15	0.34
Degree program (undergraduate only)					
Postsecondary award, certificate or diploma of less than two academic years	9.16	9.18	9.77	-0.61*	-0.59*
Associate's degree	85.22	83.73	84.01	1.21*	-0.28
Postsecondary award, certificate, diploma, or degree program	‡	‡	‡	‡	‡
Bachelor's degree or equivalent	5.37	6.19	5.99	-0.62*	0.20
Unknown	0.25	0.90	0.24	0.01	0.66*
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					
1–59	28.91	28.56	28.90	0.01	-0.34
60–70	24.78	25.00	24.71	0.07	0.29
71–81	25.26	25.41	25.62	-0.36	-0.21
82 or more	20.83	20.79	20.57	0.26	0.22
None or unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table J-39. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in public 2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Number of first-time, full-time undergraduate students living on campus ⁵					
0–34	3.91	3.93	4.10	-0.19	-0.17
35–97	2.73	2.91	2.71	0.02	0.20
98–182	3.83	3.86	3.58	0.25*	0.28
183 or more	‡	‡	‡	‡	‡
Unknown	85.89	85.69	86.24	-0.35	-0.55
Average amount of grant and scholarship aid received ⁵					
\$0–\$4,382	23.52	23.49	23.49	0.03	#
\$4,383–\$4,761	24.40	23.85	24.45	-0.05	-0.60
\$4,762–\$5,147	24.84	25.20	24.70	0.14	0.50
\$5,148 or more	27.01	27.22	27.16	-0.15	0.06
Unknown	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁵					
0–148	18.89	18.88	18.84	0.05	0.04
149–277	22.23	22.71	22.38	-0.15	0.33
278–505	24.32	23.96	23.81	0.51*	0.15
506 or more	34.33	34.22	34.77	-0.44	-0.55
Unknown	‡	‡	‡	‡	‡
Veteran status					
Yes	5.06	5.12	5.33	-0.27*	-0.21
No	94.94	94.88	94.67	0.27*	0.21

See notes at end of table.

Table J-39. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in public 2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹	Full sample, base weighted	Respondents, adjusted for nonresponse and poststratification		
	(1)	(2)	(3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race					
White	49.11	49.02	48.90	0.21	0.12
Black or African American	14.44	14.35	14.51	-0.07	-0.16
Hispanic	23.06	23.10	23.10	-0.04	#
Asian	6.67	6.24	6.78	-0.11	-0.54*
American Indian or Alaska Native	‡	‡	‡	‡	‡
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡
More than one race	‡	‡	‡	‡	‡
Unknown	1.94	2.59	1.93	0.01	0.66*
Sex					
Male	44.33	44.10	44.42	-0.09	-0.32
Female	55.67	55.43	55.58	0.09	-0.15
Unknown	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than 30 unweighted nonrespondents).

* $p < 0.05$.¹ Student base weight, adjusted for nonresponse.

² New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.

³ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.

⁴ Categories were defined by quartiles.

⁵ Categories were defined by quartiles computed at the institution level.

NOTE: Sample sizes rounded to the nearest 10 and, therefore, may not sum to total. "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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-40. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2015–16

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ²					
New England	‡	‡	‡	‡	‡
Mid East	5.12	5.07	3.57	1.55*	1.50*
Great Lakes	11.49	11.76	9.96	1.53*	1.80*
Plains	‡	‡	‡	‡	‡
Southeast	52.77	52.72	54.27	-1.50*	-1.55
Southwest	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡
Far West	20.01	19.80	20.93	-0.92	-1.13
Outlying areas	‡	‡	‡	‡	‡
Student type					
Undergraduate student	99.45	99.44	99.92	-0.47*	-0.48*
Graduate student	‡	‡	‡	‡	‡
First professional student	‡	‡	‡	‡	‡
Federal aid status					
Received	‡	‡	‡	‡	‡
Did not receive	40.77	40.09	45.92	-5.15*	-5.83*
Unknown	8.31	9.07	8.96	-0.65	0.11
Pell Grant status					
Received	‡	‡	‡	‡	‡
Did not receive	60.62	60.62	64.75	-4.13*	-4.13*
Total Pell amount received ³					
None	60.62	60.62	64.75	-4.13*	-4.13*
\$1–\$2,888	‡	‡	‡	‡	‡
\$2,889–\$5,774	‡	‡	‡	‡	‡
\$5,775	‡	‡	‡	‡	‡

See notes at end of table.

Table J-40. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Stafford Loan status					
Received	‡	‡	‡	‡	‡
Did not receive	75.91	75.89	82.51	-6.60*	-6.62*
Total Stafford amount received ⁴					
None	75.91	75.89	82.51	-6.60*	-6.62*
\$1–\$3,837	‡	‡	‡	‡	‡
\$3,838–\$6,000	‡	‡	‡	‡	‡
\$6,001–\$8,500	‡	‡	‡	‡	‡
\$8,501 or more	‡	‡	‡	‡	‡
Institution total enrollment ⁵					
1–4,827	12.01	12.19	10.21	1.80*	1.98*
4,828–10,941	21.70	21.84	22.33	-0.63	-0.49
10,942–41,815	29.93	28.63	30.42	-0.49	-1.79
41,816 or more	36.36	37.35	37.04	-0.68	0.31
Sampled baccalaureate recipient					
Baccalaureate recipient	2.97	3.10	2.86	0.11	0.24
Not baccalaureate recipient	97.03	96.90	97.14	-0.11	-0.24
Age as of Dec 31, 2015					
15–23	54.12	53.23	53.47	0.65	-0.24
24–29	19.95	20.53	20.07	-0.12	0.46
30 or older	25.93	25.25	26.46	-0.53	-1.21
Unknown	‡	‡	‡	‡	‡
Institutional aid status					
Received	‡	‡	‡	‡	‡
Did not receive	76.32	75.52	77.38	-1.06*	-1.86*
Unknown	13.66	14.44	13.80	-0.14	0.64
State aid status					
Received	‡	‡	‡	‡	‡
Did not receive	71.56	70.86	73.26	-1.70*	-2.40*
Unknown	13.26	14.05	13.32	-0.06	0.73

See notes at end of table.

Table J-40. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Parent's highest level of education					
Middle school/junior high	†	†	†	†	†
High school	†	†	†	†	†
College or beyond	†	†	†	†	†
Unknown	†	†	†	†	†
Marital status					
Unmarried-single/divorce/widow	†	†	†	†	†
Married/remarried	†	†	†	†	†
Separated	†	†	†	†	†
Divorced or widowed	†	†	†	†	†
Support children					
Has dependents	†	†	†	†	†
Does not have dependents	†	†	†	†	†
Unknown	†	†	†	†	†
Income ⁴					
\$0 or less	†	†	†	†	†
\$1–\$13,300	†	†	†	†	†
\$13,301–\$29,898	†	†	†	†	†
\$29,899–\$63,435	†	†	†	†	†
\$63,436 or more	†	†	†	†	†
Unknown	†	†	†	†	†

See notes at end of table.

Table J-40. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹	Full sample, base weighted	Respondents, adjusted for nonresponse and poststratification		
	(1)	(2)	(3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Major					
Undecided	‡	‡	‡	‡	‡
Humanities	25.12	26.12	24.87	0.25	1.25
Social/behavioral sciences	‡	‡	‡	‡	‡
Life sciences	‡	‡	‡	‡	‡
Physical sciences/math	‡	‡	‡	‡	‡
Computer/information science	‡	‡	‡	‡	‡
Engineering	‡	‡	‡	‡	‡
Education	‡	‡	‡	‡	‡
Business/Management	12.34	12.11	12.10	0.24	0.01
Health	18.83	18.11	18.61	0.22	-0.50
Vocational/technical	‡	‡	‡	‡	‡
Other technical/professional	‡	‡	‡	‡	‡
Unknown	10.28	10.88	11.17	-0.89*	-0.29
Degree program (undergraduate only)					
Postsecondary award, certificate or diploma of less than two academic years	‡	‡	‡	‡	‡
Associate's degree	68.82	68.36	69.40	-0.58	-1.04
Postsecondary award, certificate, diploma, or degree program	22.85	22.30	20.23	2.62*	2.07*
Bachelor's degree or equivalent	2.11	2.37	3.11	-1.00*	-0.74
Unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					
1–63	26.52	25.49	27.38	-0.86	-1.89
64–73	34.66	34.78	33.95	0.71	0.83
74–82	27.78	28.35	28.22	-0.44	0.13
83 or more	11.05	11.38	10.45	0.60	0.93

See notes at end of table.

Table J-40. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Number of first-time, full-time undergraduate students living on campus ⁵					
0–59	‡	‡	‡	‡	‡
60–193	1.79	1.83	1.58	0.21	0.25
194–424	5.02	5.17	4.26	0.76*	0.91*
425 or more	‡	‡	‡	‡	‡
Unknown	83.90	83.82	84.94	-1.04*	-1.12*
Average amount of grant and scholarship aid received ⁵					
\$0–\$4,381	24.14	24.56	23.43	0.71	1.13
\$4,382–\$4,960	23.48	22.86	23.84	-0.36	-0.98
\$4,961–\$5,727	40.26	40.48	41.38	-1.12	-0.90
\$5,728 or more	12.12	12.11	11.36	0.76	0.75
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁵					
0–94	12.85	12.47	12.78	0.07	-0.31
95–234	15.35	15.15	14.60	0.75	0.55
235–398	19.10	18.49	18.93	0.17	-0.44
399 or more	52.70	53.89	53.69	-0.99	0.20
Veteran status					
Yes	5.08	5.19	5.06	0.02	0.13
No	94.92	94.81	94.94	-0.02	-0.13

See notes at end of table.

Table J-40. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race					
White	49.50	49.05	48.46	1.04	0.59
Black or African American	‡	‡	‡	‡	‡
Hispanic	26.71	27.10	27.18	-0.47	-0.08
Asian	‡	‡	‡	‡	‡
American Indian or Alaska Native	‡	‡	‡	‡	‡
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡
More than one race	‡	‡	‡	‡	‡
Unknown	2.72	3.67	2.77	-0.05	0.90*
Sex					
Male	44.28	44.18	42.68	1.60*	1.50*
Female	55.72	55.19	57.32	-1.60*	-2.13*
Unknown	‡	‡	‡	‡	‡

‡ Reporting standards not met (fewer than 30 unweighted nonrespondents).

* $p < 0.05$.¹ Student base weight, adjusted for nonresponse.

² New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.

³ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.

⁴ Categories were defined by quartiles.

⁵ Categories were defined by quartiles computed at the institution level.

NOTE: Sample sizes rounded to the nearest 10 and, therefore, may not sum to total. "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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-41. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2015–16

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ²					
New England	6.51	6.79	6.59	-0.08	0.20
Mid East	30.09	30.87	30.55	-0.46	0.32
Great Lakes	‡	‡	‡	‡	‡
Plains	‡	‡	‡	‡	‡
Southeast	13.82	13.68	12.94	0.88	0.74
Southwest	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡
Far West	13.02	12.89	12.56	0.46	0.33
Outlying areas	‡	‡	‡	‡	‡
Student type					
Undergraduate student	90.06	89.91	87.62	2.44*	2.29*
Graduate student	9.94	10.09	12.38	-2.44*	-2.29*
First professional student	‡	‡	‡	‡	‡
Federal aid status					
Received	‡	‡	‡	‡	‡
Did not receive	28.13	27.96	28.37	-0.24	-0.41
Unknown	11.53	11.86	12.19	-0.66	-0.33
Pell Grant status					
Received	‡	‡	‡	‡	‡
Did not receive	61.03	61.07	59.72	1.31*	1.35*
Total Pell amount received ³					
None	61.03	61.07	59.72	1.31*	1.35*
\$1–\$2,888	‡	‡	‡	‡	‡
\$2,889–\$574	‡	‡	‡	‡	‡
\$5,775	‡	‡	‡	‡	‡

See notes at end of table.

Table J-41. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Stafford Loan status					
Received	‡	‡	‡	‡	‡
Did not receive	57.50	57.53	57.89	-0.39	-0.36
Total Stafford amount received ⁴					
None	57.50	57.53	57.89	-0.39	-0.36
\$1–\$4,744	‡	‡	‡	‡	‡
\$4,745–\$6,500	‡	‡	‡	‡	‡
\$6,501–\$10,000	‡	‡	‡	‡	‡
\$10,001 or more	‡	‡	‡	‡	‡
Institution total enrollment ⁵					
1–6,708	33.59	33.10	31.62	1.97*	1.48*
6,709–10,351	22.17	22.18	22.33	-0.16	-0.15
10,352–16,870	23.57	23.39	25.00	-1.43*	-1.61*
16,871 or more	20.67	21.33	21.06	-0.39	0.27
Sampled baccalaureate recipient					
Baccalaureate recipient	13.37	13.45	12.95	0.42	0.50
Not baccalaureate recipient	86.63	86.55	87.05	-0.42	-0.50
Age as of Dec 31, 2015					
15–23	62.45	62.51	59.63	2.82*	2.88*
24–29	18.49	17.93	19.10	-0.61*	-1.17*
30 or older	19.07	19.09	21.26	-2.19*	-2.17*
Unknown	‡	‡	‡	‡	‡
Institutional aid status					
Received	‡	‡	‡	‡	‡
Did not receive	55.18	54.95	55.43	-0.25	-0.48
Unknown	28.37	28.69	29.05	-0.68	-0.36

See notes at end of table.

Table J-41. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
State aid status					
Received	†	†	†	†	†
Did not receive	52.91	52.66	52.75	0.16	-0.09
Unknown	27.28	27.59	28.03	-0.75	-0.44
Parent's highest level of education					
Middle school/junior high	†	†	†	†	†
High school	†	†	†	†	†
College or beyond	†	†	†	†	†
Unknown	†	†	†	†	†
Marital status					
Unmarried-single/divorce/widow	†	†	†	†	†
Married/remarried	†	†	†	†	†
Separated	†	†	†	†	†
Divorced or widowed	†	†	†	†	†
Support children					
Has dependents	†	†	†	†	†
Does not have dependents	†	†	†	†	†
Unknown	†	†	†	†	†
Income ⁴					
\$0 or less	†	†	†	†	†
\$1–\$13,463	†	†	†	†	†
\$13,464–\$33,912	†	†	†	†	†
\$33,913–\$75,000	†	†	†	†	†
\$75,001 or more	†	†	†	†	†
Unknown	†	†	†	†	†

See notes at end of table.

Table J-41. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Major					
Undecided	‡	‡	‡	‡	‡
Humanities	‡	‡	‡	‡	‡
Social/behavioral sciences	‡	‡	‡	‡	‡
Life sciences	‡	‡	‡	‡	‡
Physical sciences/math	‡	‡	‡	‡	‡
Computer/information science	‡	‡	‡	‡	‡
Engineering	‡	‡	‡	‡	‡
Education	‡	‡	‡	‡	‡
Business/Management	18.45	18.11	18.72	-0.27	-0.61
Health	‡	‡	‡	‡	‡
Vocational/technical	‡	‡	‡	‡	‡
Other technical/professional	‡	‡	‡	‡	‡
Unknown	5.97	7.26	6.53	-0.56*	0.73
Degree program (undergraduate only)					
Postsecondary award, certificate or diploma of less than two academic years	‡	‡	‡	‡	‡
Associate's degree	‡	‡	‡	‡	‡
Postsecondary award, certificate, diploma, or degree program	93.52	93.45	93.43	0.09*	0.02*
Bachelor's degree or equivalent	2.05	1.92	1.90	0.15	0.02
Unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					
1–66	22.54	22.05	21.77	0.77	0.28
67–77	26.54	26.82	26.50	0.04	0.32
78–87	24.59	24.56	24.26	0.33	0.30
88 or more	23.01	23.14	23.56	-0.55	-0.42
None or unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table J-41. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Number of first-time, full-time undergraduate students living on campus ⁵					
0–237	25.19	25.68	25.18	0.01	0.50
238–482	18.68	18.81	17.76	0.92	1.05
483–710	14.82	14.48	14.92	-0.10	-0.44
711 or more	17.83	17.64	17.27	0.56	0.37
Unknown	23.48	23.40	24.87	-1.39*	-1.47*
Average amount of grant and scholarship aid received ⁵					
\$0–\$5,547	23.91	23.26	24.33	-0.42	-1.07*
\$5,548–\$6,971	24.49	24.69	23.28	1.21	1.41*
\$6,972–\$7,744	25.12	25.07	25.65	-0.53	-0.58
\$7,745 or more	23.16	23.56	22.85	0.31	0.71
Unknown	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁵					
0–107	25.17	25.04	24.10	1.07	0.94
108–193	19.35	19.61	19.22	0.13	0.39
194–321	‡	‡	‡	‡	‡
322 or more	30.06	30.33	30.31	-0.25	0.02
Unknown	‡	‡	‡	‡	‡
Veteran status					
Yes	3.73	3.85	3.66	0.07	0.19
No	96.27	96.15	96.34	-0.07	-0.19

See notes at end of table.

Table J-41. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹	Full sample, base weighted	Respondents, adjusted for nonresponse and poststratification		
	(1)	(2)	(3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race					
White	54.96	54.47	54.67	0.29	-0.20
Black or African American	12.60	12.48	13.22	-0.62*	-0.74*
Hispanic	17.57	17.24	17.53	0.04	-0.29
Asian	7.10	7.09	7.36	-0.26	-0.27
American Indian or Alaska Native	‡	‡	‡	‡	‡
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡
More than one race	‡	‡	‡	‡	‡
Unknown	3.08	4.12	2.58	0.50*	1.54*
Sex					
Male	45.29	44.42	41.96	3.33*	2.46*
Female	54.71	54.79	58.04	-3.33*	-3.25*
Unknown	‡	‡	‡	‡	‡

‡ Reporting standards not met (fewer than 30 unweighted nonrespondents).

* $p < 0.05$.¹ Student base weight, adjusted for nonresponse.

² New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.

³ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.

⁴ Categories were defined by quartiles.

⁵ Categories were defined by quartiles computed at the institution level.

NOTE: Sample sizes rounded to the nearest 10 and, therefore, may not sum to total. "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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-42. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in public 4-year, doctorate-granting institutions: 2015–16

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹	Full sample, base weighted	Respondents, adjusted for nonresponse and poststratification		
	(1)	(2)	(3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ²					
New England	2.85	2.86	2.94	-0.09*	-0.08
Mid East	12.39	12.12	12.31	0.08	-0.19
Great Lakes	17.11	17.08	17.14	-0.03	-0.06
Plains	6.83	6.83	6.83	#	#
Southeast	28.64	28.29	29.15	-0.51	-0.86
Southwest	13.39	13.52	13.46	-0.07	0.06
Rocky Mountains	4.46	4.72	4.60	-0.14	0.12
Far West	14.07	14.35	13.32	0.75*	1.03*
Outlying areas	‡	‡	‡	‡	‡
Student type					
Undergraduate student	77.63	77.80	75.70	1.93*	2.10*
Graduate student	19.76	19.58	21.50	-1.74*	-1.92*
First professional student	‡	‡	‡	‡	‡
Federal aid status					
Received	52.49	52.43	57.19	-4.70*	-4.76*
Did not receive	38.56	38.98	35.17	3.39*	3.81*
Unknown	8.95	8.59	7.64	1.31*	0.95*
Pell Grant status					
Received	‡	‡	‡	‡	‡
Did not receive	66.99	67.04	61.49	5.50*	5.55*
Total Pell amount received ³					
None	66.99	67.04	61.49	5.50*	5.55*
\$1–\$2,888	‡	‡	‡	‡	‡
\$2,889–\$5,774	‡	‡	‡	‡	‡
\$5,775	‡	‡	‡	‡	‡

See notes at end of table.

Table J-42. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in public 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹	Full sample, base weighted	Respondents, adjusted for nonresponse and poststratification		
	(1)	(2)	(3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Stafford Loan status					
Received	41.91	41.94	47.33	-5.42*	-5.39*
Did not receive	58.09	58.06	52.67	5.42*	5.39*
Total Stafford amount received ⁴					
None	58.09	58.06	52.67	5.42*	5.39*
\$1–\$5,500	‡	‡	‡	‡	‡
\$5,501–\$7,358	‡	‡	‡	‡	‡
\$7,359–\$10,500	‡	‡	‡	‡	‡
\$10,501 or more	‡	‡	‡	‡	‡
Institution total enrollment ⁵					
1–16,504	21.02	20.83	22.02	-1.00*	-1.19*
16,505–27,396	24.79	24.60	24.92	-0.13	-0.32
27,397–38,488	26.74	26.99	26.56	0.18	0.43
38,489 or more	27.45	27.58	26.50	0.95	1.08*
Sampled baccalaureate recipient					
Baccalaureate recipient	13.65	13.65	13.32	0.33*	0.33*
Not baccalaureate recipient	86.35	86.35	86.68	-0.33*	-0.33*
Age as of Dec 31, 2015					
15–23	63.88	63.32	61.49	2.39*	1.83*
24–29	19.66	19.59	20.89	-1.23*	-1.30*
30 or older	16.46	16.20	17.62	-1.16*	-1.42*
Unknown	‡	‡	‡	‡	‡
Institutional aid status					
Received	31.26	31.02	30.78	0.48*	0.24
Did not receive	53.95	54.43	54.98	-1.03*	-0.55
Unknown	14.80	14.55	14.24	0.56	0.31

See notes at end of table.

Table J-42. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in public 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
State aid status					
Received	18.65	18.62	19.66	-1.01*	-1.04*
Did not receive	66.49	66.79	66.07	0.42	0.72*
Unknown	14.85	14.59	14.27	0.58	0.32
Parent's highest level of education					
Middle school/junior high	‡	‡	‡	‡	‡
High school	‡	‡	‡	‡	‡
College or beyond	64.19	63.76	62.85	1.34*	0.91*
Unknown	‡	‡	‡	‡	‡
Marital status					
Unmarried-single/divorce/widow	88.29	88.15	87.48	0.81*	0.67*
Married/remarried	‡	‡	‡	‡	‡
Separated	‡	‡	‡	‡	‡
Divorced or widowed	‡	‡	‡	‡	‡
Support children					
Has dependents	‡	‡	‡	‡	‡
Does not have dependents	89.87	89.74	88.73	1.14*	1.01*
Unknown	‡	‡	‡	‡	‡
Income ⁴					
\$0 or less	‡	‡	‡	‡	‡
\$1–\$15,046	‡	‡	‡	‡	‡
\$15,047–\$41,502	‡	‡	‡	‡	‡
\$41,503–\$94,062	‡	‡	‡	‡	‡
\$94,063 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table J-42. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in public 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Major					
Undecided	‡	‡	‡	‡	‡
Humanities	10.58	10.88	10.78	-0.20	0.10*
Social/behavioral sciences	10.89	10.80	11.14	-0.25	-0.34
Life sciences	13.58	13.54	13.52	0.06*	0.02*
Physical sciences/math	3.04	2.98	2.85	0.19*	0.13*
Computer/information science	4.14	4.08	4.04	0.10*	0.04
Engineering	10.28	10.27	9.84	0.44*	0.43*
Education	5.06	4.98	5.07	-0.01*	-0.09
Business/Management	17.50	17.32	16.94	0.56*	0.38*
Health	10.14	9.99	10.63	-0.49*	-0.64*
Vocational/technical	‡	‡	‡	‡	‡
Other technical/professional	12.31	12.21	12.66	-0.35	-0.45
Unknown	1.60	2.05	1.57	0.03*	0.48*
Degree program (undergraduate only)					
Postsecondary award, certificate or diploma of less than two academic years	‡	‡	‡	‡	‡
Associate's degree	‡	‡	‡	‡	‡
Postsecondary award, certificate, diploma, or degree program	97.24	96.58	97.15	0.09*	-0.57*
Bachelor's degree or equivalent	1.03	1.13	1.00	0.03	0.13
Unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					
1–64	32.09	32.47	31.07	1.02*	1.40*
65–76	25.83	25.81	25.31	0.52	0.50
77–86	23.72	23.54	23.85	-0.13	-0.31
87 or more	16.72	16.55	18.03	-1.31*	-1.48*
None or unknown	1.63	1.63	1.74	-0.11*	-0.11*

See notes at end of table.

Table J-42. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in public 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Number of first-time, full-time undergraduate students living on campus ⁵					
0–458	12.06	11.98	12.34	-0.28*	-0.36*
459–854	18.68	18.60	19.16	-0.48*	-0.56*
855–1,568	25.20	25.16	24.95	0.25	0.21
1,569 or more	39.75	39.98	38.83	0.92*	1.15*
Unknown	4.30	4.29	4.71	-0.41*	-0.42*
Average amount of grant and scholarship aid received ⁵					
\$0–\$6,275	21.74	21.85	22.67	-0.93*	-0.82
\$6,276–\$7,493	22.43	22.53	22.74	-0.31	-0.21
\$7,494–\$8,791	25.65	25.33	25.61	0.04	-0.28
\$8,792 or more	28.55	28.66	27.24	1.31*	1.42*
Unknown	1.63	1.63	1.74	-0.11*	-0.11*
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁵					
0–194	14.64	14.41	14.45	0.19	-0.04
195–338	21.09	21.01	20.94	0.15	0.07
339–547	26.67	26.85	27.44	-0.77	-0.59
548 or more	35.95	36.11	35.43	0.52	0.68
Unknown	1.63	1.63	1.74	-0.11*	-0.11*
Veteran status					
Yes	3.26	3.18	3.30	-0.04	-0.12
No	96.74	96.82	96.70	0.04	0.12

See notes at end of table.

Table J-42. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in public 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹	Full sample, base weighted	Respondents, adjusted for nonresponse and poststratification		
	(1)	(2)	(3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race					
White	57.55	56.67	56.56	0.99*	0.11
Black or African American	10.49	10.39	11.94	-1.45*	-1.55*
Hispanic	13.39	13.16	13.54	-0.15	-0.38*
Asian	11.08	10.34	10.41	0.67*	-0.07
American Indian or Alaska Native	‡	‡	‡	‡	‡
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡
More than one race	‡	‡	‡	‡	‡
Unknown	3.50	5.56	3.50	#	2.06*
Sex					
Male	47.12	46.69	45.89	1.23*	0.80*
Female	52.88	52.67	54.11	-1.23*	-1.44*
Unknown	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than 30 unweighted nonrespondents).

* $p < 0.05$.¹ Student base weight, adjusted for nonresponse.

² New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.

³ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.

⁴ Categories were defined by quartiles.

⁵ Categories were defined by quartiles computed at the institution level.

NOTE: Sample sizes rounded to the nearest 10 and, therefore, may not sum to total. "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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-43. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in private nonprofit less-than-4-year institutions: 2015–16

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ²					
New England	†	†	†	†	†
Mid East	†	†	†	†	†
Great Lakes	†	†	†	†	†
Plains	†	†	†	†	†
Southeast	†	†	†	†	†
Southwest	†	†	†	†	†
Rocky Mountains	†	†	†	†	†
Far West	†	†	†	†	†
Outlying areas	†	†	†	†	†
Federal aid status					
Received	†	†	†	†	†
Did not receive	†	†	†	†	†
Unknown	†	†	†	†	†
Pell Grant status					
Received	†	†	†	†	†
Did not receive	40.36	40.27	37.23	3.13	3.04
Total Pell amount received ³					
None	40.36	40.27	37.23	3.13	3.04
\$1–\$2,888	†	†	†	†	†
\$2,889–\$5,774	†	†	†	†	†
\$5,775	†	†	†	†	†

See notes at end of table.

Table J-43. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in private nonprofit less-than-4-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Stafford Loan status					
Received	‡	‡	‡	‡	‡
Did not receive	31.84	31.78	39.95	-8.11*	-8.17*
Total Stafford amount received ⁴					
None	31.84	31.78	39.95	-8.11*	-8.17*
\$1–\$3,500	‡	‡	‡	‡	‡
\$3,501–\$6,458	‡	‡	‡	‡	‡
\$6,459–\$9,500	‡	‡	‡	‡	‡
\$9,501 or more	‡	‡	‡	‡	‡
Institution total enrollment ⁵					
1–498	‡	‡	‡	‡	‡
499–716	‡	‡	‡	‡	‡
717–1,277	‡	‡	‡	‡	‡
1,278 or more	‡	‡	‡	‡	‡
Sampled baccalaureate recipient					
Baccalaureate recipient	‡	‡	‡	‡	‡
Not baccalaureate recipient	100.00	100.00	100.00	#	#
Age as of Dec 31, 2015					
15–23	‡	‡	‡	‡	‡
24–29	‡	‡	‡	‡	‡
30 or older	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Institutional aid status					
Received	‡	‡	‡	‡	‡
Did not receive	60.09	60.28	65.09	-5.00	-4.81
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table J-43. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in private nonprofit less-than-4-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
State aid status					
Received	‡	‡	‡	‡	‡
Did not receive	60.79	60.94	64.62	-3.83	-3.68
Unknown	‡	‡	‡	‡	‡
Parent's highest level of education					
Middle school/junior high	‡	‡	‡	‡	‡
High school	‡	‡	‡	‡	‡
College or beyond	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Marital status					
Unmarried-single/divorce/widow	‡	‡	‡	‡	‡
Married/remarried	‡	‡	‡	‡	‡
Separated	‡	‡	‡	‡	‡
Divorced or widowed	‡	‡	‡	‡	‡
Support children					
Has dependents	‡	‡	‡	‡	‡
Does not have dependents	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Income ⁴					
\$0 or less	‡	‡	‡	‡	‡
\$1–\$6,568	‡	‡	‡	‡	‡
\$6,569–\$18,940	‡	‡	‡	‡	‡
\$18,941–\$36,402	‡	‡	‡	‡	‡
\$36,403 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table J-43. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in private nonprofit less-than-4-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Major					
Undecided	†	†	†	†	†
Humanities	†	†	†	†	†
Social/behavioral sciences	†	†	†	†	†
Life sciences	†	†	†	†	†
Physical sciences/math	†	†	†	†	†
Computer/information science	†	†	†	†	†
Engineering	†	†	†	†	†
Education	†	†	†	†	†
Business/Management	†	†	†	†	†
Health	†	†	†	†	†
Vocational/technical	†	†	†	†	†
Other technical/professional	†	†	†	†	†
Unknown	†	†	†	†	†
Degree program (undergraduate only)					
Postsecondary award, certificate or diploma of less than two academic years	51.49	52.02	57.47	-5.98*	-5.45*
Associate's degree	†	†	†	†	†
Postsecondary award, certificate, diploma, or degree program	†	†	†	†	†
Bachelor's degree or equivalent	†	†	†	†	†
Unknown	†	†	†	†	†
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					
1–67	†	†	†	†	†
68–84	†	†	†	†	†
85–89	†	†	†	†	†
90 or more	†	†	†	†	†
None or unknown	†	†	†	†	†

See notes at end of table.

Table J-43. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in private nonprofit less-than-4-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Number of first-time, full-time undergraduate students living on campus ⁵					
8–10	‡	‡	‡	‡	‡
Unknown	98.57	98.57	98.71	-0.14	-0.14
Average amount of grant and scholarship aid received ⁵					
\$0–\$4,587	‡	‡	‡	‡	‡
\$4,588–\$4,671	‡	‡	‡	‡	‡
\$4,672–\$5,684	‡	‡	‡	‡	‡
\$5,685 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁵					
0–13	‡	‡	‡	‡	‡
14–33	‡	‡	‡	‡	‡
34–88	16.35	16.74	18.91	-2.56	-2.17
89 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Veteran status					
Yes	‡	‡	‡	‡	‡
No	93.15	93.17	92.99	0.16	0.18

See notes at end of table.

Table J-43. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in private nonprofit less-than-4-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race					
White	‡	‡	‡	‡	‡
Black or African American	‡	‡	‡	‡	‡
Hispanic	‡	‡	‡	‡	‡
Asian	‡	‡	‡	‡	‡
American Indian or Alaska Native	‡	‡	‡	‡	‡
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡
More than one race	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Sex					
Male	‡	‡	‡	‡	‡
Female	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than 30 unweighted nonrespondents).

* $p < 0.05$.¹ Student base weight, adjusted for nonresponse.

² New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.

³ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.

⁴ Categories were defined by quartiles.

⁵ Categories were defined by quartiles computed at the institution level.

NOTE: Sample sizes rounded to the nearest 10 and, therefore, may not sum to total. "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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-44. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in private nonprofit 4-year non-doctorate-granting institutions: 2015–16

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹	Full sample, base weighted	Respondents, adjusted for nonresponse and poststratification		
	(1)	(2)	(3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ²					
New England	10.51	10.72	10.46	0.05	0.26
Mid East	17.66	18.04	17.06	0.60	0.98
Great Lakes	17.58	17.54	18.14	-0.56	-0.60
Plains	11.58	11.66	11.72	-0.14	-0.06
Southeast	19.31	19.13	19.52	-0.21	-0.39
Southwest	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡
Far West	‡	‡	‡	‡	‡
Outlying areas	‡	‡	‡	‡	‡
Student type					
Undergraduate student	87.65	87.54	85.09	2.56*	2.45*
Graduate student	12.31	12.43	14.87	-2.56*	-2.44*
First professional student	‡	‡	‡	‡	‡
Federal aid status					
Received	64.68	64.51	65.12	-0.44	-0.61
Did not receive	32.04	31.75	31.41	0.63	0.34
Unknown	3.28	3.73	3.47	-0.19	0.26
Pell Grant status					
Received	‡	‡	‡	‡	‡
Did not receive	61.50	61.49	58.43	3.07*	3.06*
Total Pell amount received ³					
None	61.50	61.49	58.43	3.07*	3.06*
\$1–\$2,888	‡	‡	‡	‡	‡
\$2,889–\$5,774	‡	‡	‡	‡	‡
\$5,775	‡	‡	‡	‡	‡

See notes at end of table.

Table J-44. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in private nonprofit 4-year non-doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹	Full sample, base weighted	Respondents, adjusted for nonresponse and poststratification		
	(1)	(2)	(3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Stafford Loan status					
Received	‡	‡	‡	‡	‡
Did not receive	45.99	46.10	45.34	0.65	0.76
Total Stafford amount received ⁴					
None	45.99	46.10	45.34	0.65	0.76
\$1–\$5,500	‡	‡	‡	‡	‡
\$5,501–\$7,500	‡	‡	‡	‡	‡
\$7,501–\$10,250	‡	‡	‡	‡	‡
\$10,251 or more	‡	‡	‡	‡	‡
Institution total enrollment ⁵					
1–1,639	24.83	24.74	24.87	-0.04	-0.13
1,640–2,618	22.64	22.53	21.90	0.74*	0.63
2,619–5,157	25.36	25.35	26.03	-0.67	-0.68
5,158 or more	27.17	27.38	27.21	-0.04	0.17
Sampled baccalaureate recipient					
Baccalaureate recipient	14.61	14.51	13.91	0.70*	0.60*
Not baccalaureate recipient	85.39	85.49	86.09	-0.70*	-0.60*
Age as of Dec 31, 2015					
15–23	58.57	58.06	56.63	1.94*	1.43*
24–29	15.41	15.50	16.64	-1.23*	-1.14*
30 or older	26.02	26.21	26.73	-0.71	-0.52
Unknown	‡	‡	‡	‡	‡
Institutional aid status					
Received	49.16	48.88	47.27	1.89*	1.61*
Did not receive	44.69	44.50	45.90	-1.21*	-1.40*
Unknown	6.15	6.62	6.83	-0.68*	-0.21

See notes at end of table.

Table J-44. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in private nonprofit 4-year non-doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
State aid status					
Received	†	†	†	†	†
Did not receive	77.02	76.68	76.76	0.26	-0.08
Unknown	6.82	7.19	7.36	-0.54*	-0.17
Parent's highest level of education					
Middle school/junior high	†	†	†	†	†
High school	†	†	†	†	†
College or beyond	†	†	†	†	†
Unknown	†	†	†	†	†
Marital status					
Unmarried-single/divorce/widow	†	†	†	†	†
Married/remarried	†	†	†	†	†
Separated	†	†	†	†	†
Divorced or widowed	†	†	†	†	†
Support children					
Has dependents	†	†	†	†	†
Does not have dependents	†	†	†	†	†
Unknown	†	†	†	†	†
Income ⁴					
\$0 or less	†	†	†	†	†
\$1–\$15,926	†	†	†	†	†
\$15,927–\$41,826	†	†	†	†	†
\$41,827–\$89,471	†	†	†	†	†
\$89,472 or more	†	†	†	†	†
Unknown	†	†	†	†	†

See notes at end of table.

Table J-44. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in private nonprofit 4-year non-doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹	Full sample, base weighted	Respondents, adjusted for nonresponse and poststratification		
	(1)	(2)	(3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Major					
Undecided	‡	‡	‡	‡	‡
Humanities	16.66	16.74	16.36	0.30*	0.38*
Social/behavioral sciences	‡	‡	‡	‡	‡
Life sciences	‡	‡	‡	‡	‡
Physical sciences/math	‡	‡	‡	‡	‡
Computer/information science	‡	‡	‡	‡	‡
Engineering	‡	‡	‡	‡	‡
Education	‡	‡	‡	‡	‡
Business/Management	19.45	19.42	19.95	-0.50	-0.53
Health	15.61	15.54	15.81	-0.20	-0.27
Vocational/technical	‡	‡	‡	‡	‡
Other technical/professional	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Degree program (undergraduate only)					
Postsecondary award, certificate or diploma of less than two academic years	‡	‡	‡	‡	‡
Associate's degree	‡	‡	‡	‡	‡
Postsecondary award, certificate, diploma, or degree program	85.78	85.67	85.01	0.77*	0.66*
Bachelor's degree or equivalent	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					
1–91	36.29	35.94	35.64	0.65	0.30
92–98	21.93	21.98	22.50	-0.57	-0.52
99 or more	34.16	34.02	34.38	-0.22	-0.36
None or unknown	7.62	8.06	7.48	0.14	0.58

See notes at end of table.

Table J-44. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in private nonprofit 4-year non-doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Number of first-time, full-time undergraduate students living on campus ⁵					
0–178	21.34	21.25	21.84	-0.50	-0.59
179–289	16.66	16.66	16.69	-0.03	-0.03
290–447	17.62	17.26	17.42	0.20	-0.16
448 or more	18.55	18.80	18.41	0.14	0.39
Unknown	25.83	26.03	25.65	0.18	0.38
Average amount of grant and scholarship aid received ⁵					
\$0–\$12,844	36.45	36.18	36.88	-0.43	-0.70
\$12,845–\$17,343	20.97	20.95	21.29	-0.32	-0.34
\$17,344–\$22,901	17.02	17.05	17.33	-0.31	-0.28
\$22,902 or more	17.93	17.76	17.01	0.92*	0.75*
Unknown	7.62	8.06	7.48	0.14	0.58
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁵					
0–35	26.86	26.42	25.59	1.27*	0.83
36–50	17.42	17.61	17.30	0.12	0.31
51–84	18.43	18.44	18.61	-0.18	-0.17
85 or more	29.40	29.22	30.80	-1.40*	-1.58*
Unknown	7.88	8.31	7.69	0.19	0.62
Veteran status					
Yes	5.15	5.27	4.28	0.87	0.99
No	94.85	94.73	95.72	-0.87	-0.99

See notes at end of table.

Table J-44. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in private nonprofit 4-year non-doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race					
White	62.08	61.55	60.80	1.28*	0.75
Black or African American	‡	‡	‡	‡	‡
Hispanic	‡	‡	‡	‡	‡
Asian	‡	‡	‡	‡	‡
American Indian or Alaska Native	‡	‡	‡	‡	‡
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡
More than one race	‡	‡	‡	‡	‡
Unknown	2.11	3.20	2.18	-0.07	1.02*
Sex					
Male	41.58	41.72	41.51	0.07	0.21
Female	58.42	58.25	58.49	-0.07	-0.24
Unknown	‡	‡	‡	‡	‡

‡ Reporting standards not met (fewer than 30 unweighted nonrespondents).

* $p < 0.05$.¹ Student base weight, adjusted for nonresponse.

² New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.

³ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.

⁴ Categories were defined by quartiles.

⁵ Categories were defined by quartiles computed at the institution level.

NOTE: Sample sizes rounded to the nearest 10 and, therefore, may not sum to total. "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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-45. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in private nonprofit, 4-year, doctorate-granting institutions: 2015–16

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹	Full sample, base weighted	Respondents, adjusted for nonresponse and poststratification		
	(1)	(2)	(3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ²					
New England	14.74	14.54	14.25	0.49	0.29
Mid East	26.87	27.01	27.25	-0.38	-0.24
Great Lakes	11.49	11.46	11.65	-0.16	-0.19
Plains	‡	‡	‡	‡	‡
Southeast	18.93	18.61	18.92	0.01	-0.31
Southwest	4.31	4.23	4.22	0.09	0.01
Rocky Mountains	‡	‡	‡	‡	‡
Far West	12.06	12.62	12.17	-0.11	0.45
Outlying areas	‡	‡	‡	‡	‡
Student type					
Undergraduate student	57.83	57.56	56.14	1.69*	1.42*
Graduate student	35.89	36.17	36.97	-1.08*	-0.80
First professional student	‡	‡	‡	‡	‡
Federal aid status					
Received	53.28	53.15	55.53	-2.25*	-2.38*
Did not receive	38.43	38.27	37.13	1.30*	1.14*
Unknown	8.29	8.58	7.34	0.95*	1.24*
Pell Grant status					
Received	‡	‡	‡	‡	‡
Did not receive	69.64	69.50	66.49	3.15*	3.01*
Total Pell amount received ³					
None	69.64	69.50	66.49	3.15*	3.01*
\$1–\$2,888	‡	‡	‡	‡	‡
\$2,889–\$5,774	‡	‡	‡	‡	‡
\$5,775	‡	‡	‡	‡	‡

See notes at end of table.

Table J-45. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in private nonprofit, 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Stafford Loan status					
Received	‡	‡	‡	‡	‡
Did not receive	54.61	54.64	51.60	3.01*	3.04*
Total Stafford amount received ⁴					
None	54.61	54.64	51.60	3.01*	3.04*
\$1–\$6,000	‡	‡	‡	‡	‡
\$6,001–\$7,500	‡	‡	‡	‡	‡
\$7,501–\$14,000	‡	‡	‡	‡	‡
\$14,001 or more	‡	‡	‡	‡	‡
Institution total enrollment ⁵					
1–4,125	21.63	21.51	21.85	-0.22	-0.34
4,126–8,734	19.46	19.46	19.88	-0.42	-0.42
8,735–17,448	26.15	25.78	25.71	0.44	0.07
17,449 or more	32.77	33.25	32.56	0.21	0.69
Sampled baccalaureate recipient					
Baccalaureate recipient	11.26	11.23	10.87	0.39*	0.36*
Not baccalaureate recipient	88.74	88.77	89.13	-0.39*	-0.36*
Age as of Dec 31, 2015					
15–23	47.11	46.45	44.65	2.46*	1.80*
24–29	23.68	23.53	24.75	-1.07*	-1.22*
30 or older	29.21	29.39	30.60	-1.39*	-1.21*
Unknown	‡	‡	‡	‡	‡
Institutional aid status					
Received	44.79	44.82	43.49	1.30*	1.33*
Did not receive	44.73	44.50	46.44	-1.71*	-1.94*
Unknown	10.48	10.68	10.07	0.41	0.61

See notes at end of table.

Table J-45. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in private nonprofit, 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
State aid status					
Received	†	†	†	†	†
Did not receive	77.47	77.31	77.67	-0.20	-0.36
Unknown	12.99	13.15	12.56	0.43	0.59
Parent's highest level of education					
Middle school/junior high	†	†	†	†	†
High school	†	†	†	†	†
College or beyond	†	†	†	†	†
Unknown	†	†	†	†	†
Marital status					
Unmarried-single/divorce/widow	†	†	†	†	†
Married/remarried	†	†	†	†	†
Separated	†	†	†	†	†
Divorced or widowed	†	†	†	†	†
Support children					
Has dependents	†	†	†	†	†
Does not have dependents	†	†	†	†	†
Unknown	†	†	†	†	†
Income ⁴					
\$0 or less	†	†	†	†	†
\$1–\$15,796	†	†	†	†	†
\$15,797–\$45,963	†	†	†	†	†
\$45,964–\$100,530	†	†	†	†	†
\$100,531 or more	†	†	†	†	†
Unknown	†	†	†	†	†

See notes at end of table.

Table J-45. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in private nonprofit, 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹	Full sample, base weighted	Respondents, adjusted for nonresponse and poststratification		
	(1)	(2)	(3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Major					
Undecided	‡	‡	‡	‡	‡
Humanities	15.12	15.08	14.93	0.19	0.15
Social/behavioral sciences	11.98	12.26	12.25	-0.27	0.01
Life sciences	‡	‡	‡	‡	‡
Physical sciences/math	‡	‡	‡	‡	‡
Computer/information science	‡	‡	‡	‡	‡
Engineering	‡	‡	‡	‡	‡
Education	‡	‡	‡	‡	‡
Business/Management	20.31	20.33	20.78	-0.47	-0.45
Health	‡	‡	‡	‡	‡
Vocational/technical	‡	‡	‡	‡	‡
Other technical/professional	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Degree program (undergraduate only)					
Postsecondary award, certificate or diploma of less than two academic years	‡	‡	‡	‡	‡
Associate's degree	‡	‡	‡	‡	‡
Postsecondary award, certificate, diploma, or degree program	93.90	92.74	92.82	1.08*	-0.08*
Bachelor's degree or equivalent	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					
1–83	37.16	36.77	35.89	1.27*	0.88
84–96	26.69	26.68	26.71	-0.02	-0.03
97–99	21.36	21.65	21.77	-0.41	-0.12
100 or more	‡	‡	‡	‡	‡
None or unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table J-45. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in private nonprofit, 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Number of first-time, full-time undergraduate students living on campus ⁵					
0–266	15.34	15.20	15.88	-0.54	-0.68*
267–524	16.89	17.10	17.14	-0.25	-0.04
525–886	22.39	22.43	22.27	0.12	0.16
887 or more	33.65	33.21	32.34	1.31*	0.87
Unknown	11.73	12.05	12.37	-0.64	-0.32
Average amount of grant and scholarship aid received ⁵					
\$0–\$15,432	27.99	27.58	28.75	-0.76	-1.17*
\$15,433–\$19,621	18.72	18.84	19.13	-0.41	-0.29
\$19,622–\$25,564	18.54	18.94	18.81	-0.27	0.13
\$25,565 or more	28.68	28.37	26.77	1.91*	1.60*
Unknown	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁵					
0–50	18.97	18.85	19.03	-0.06	-0.18
51–83	18.32	18.57	18.09	0.23	0.48
84–141	19.64	19.95	19.61	0.03	0.34
142 or more	36.09	35.49	35.81	0.28	-0.32
Unknown	‡	‡	‡	‡	‡
Veteran status					
Yes	4.95	4.86	4.10	0.85	0.76
No	95.05	95.14	95.90	-0.85	-0.76

See notes at end of table.

Table J-45. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in private nonprofit, 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹	Full sample, base weighted	Respondents, adjusted for nonresponse and poststratification		
	(1)	(2)	(3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race					
White	57.29	56.48	57.02	0.27	-0.54
Black or African American	‡	‡	‡	‡	‡
Hispanic	12.94	12.70	12.67	0.27	0.03
Asian	11.39	10.89	11.09	0.30	-0.20
American Indian or Alaska Native	‡	‡	‡	‡	‡
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡
More than one race	‡	‡	‡	‡	‡
Unknown	3.76	5.29	3.64	0.12	1.65*
Sex					
Male	43.17	43.11	42.51	0.66	0.60
Female	56.83	56.81	57.49	-0.66	-0.68
Unknown	‡	‡	‡	‡	‡

‡ Reporting standards not met (fewer than 30 unweighted nonrespondents).

* $p < 0.05$.¹ Student base weight, adjusted for nonresponse.

² New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.

³ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.

⁴ Categories were defined by quartiles.

⁵ Categories were defined by quartiles computed at the institution level.

NOTE: Sample sizes rounded to the nearest 10 and, therefore, may not sum to total. "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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-46. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in private for-profit less-than-2-year institutions: 2015–16

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ²					
New England	‡	‡	‡	‡	‡
Mid East	‡	‡	‡	‡	‡
Great Lakes	‡	‡	‡	‡	‡
Plains	‡	‡	‡	‡	‡
Southeast	‡	‡	‡	‡	‡
Southwest	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡
Far West	25.48	25.36	24.71	0.77	0.65
Outlying areas	‡	‡	‡	‡	‡
Federal aid status					
Received	‡	‡	‡	‡	‡
Did not receive	‡	‡	‡	‡	‡
Unknown	5.18	6.24	4.56	0.62*	1.68*
Pell Grant status					
Received	‡	‡	‡	‡	‡
Did not receive	35.05	34.94	32.00	3.05*	2.94*
Total Pell amount received ³					
None	35.05	34.94	32.00	3.05*	2.94*
\$1–\$2,888	‡	‡	‡	‡	‡
\$2,889–\$5,774	‡	‡	‡	‡	‡
\$5,775	‡	‡	‡	‡	‡

See notes at end of table.

Table J-46. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in private for-profit less-than-2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Stafford Loan status					
Received	‡	‡	‡	‡	‡
Did not receive	47.23	47.16	43.98	3.25*	3.18*
Total Stafford amount received ⁴					
None	47.23	47.16	43.98	3.25*	3.18*
\$1–\$3,959	‡	‡	‡	‡	‡
\$3,960–\$6,333	‡	‡	‡	‡	‡
\$6,334–\$9,500	‡	‡	‡	‡	‡
\$9,501 or more	‡	‡	‡	‡	‡
Institution total enrollment ⁵					
1–213	‡	‡	‡	‡	‡
214–421	29.91	30.01	29.07	0.84	0.94
422–900	25.54	25.78	25.73	-0.19	0.05
901 or more	‡	‡	‡	‡	‡
Sampled baccalaureate recipient					
Baccalaureate recipient	‡	‡	‡	‡	‡
Not baccalaureate recipient	99.97	99.97	99.97	#	#
Age as of Dec 31, 2015					
15–23	44.84	44.99	43.81	1.03*	1.18*
24–29	‡	‡	‡	‡	‡
30 or older	27.58	27.58	28.59	-1.01*	-1.01*
Unknown	‡	‡	‡	‡	‡
Institutional aid status					
Received	‡	‡	‡	‡	‡
Did not receive	‡	‡	‡	‡	‡
Unknown	17.88	18.85	17.96	-0.08	0.89

See notes at end of table.

Table J-46. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in private for-profit less-than-2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
State aid status					
Received	‡	‡	‡	‡	‡
Did not receive	‡	‡	‡	‡	‡
Unknown	19.68	20.73	19.53	0.15	1.20
Parent's highest level of education					
Middle school/junior high	‡	‡	‡	‡	‡
High school	‡	‡	‡	‡	‡
College or beyond	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Marital status					
Unmarried-single/divorce/widow	‡	‡	‡	‡	‡
Married/remarried	‡	‡	‡	‡	‡
Separated	‡	‡	‡	‡	‡
Divorced or widowed	‡	‡	‡	‡	‡
Support children					
Has dependents	‡	‡	‡	‡	‡
Does not have dependents	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Income ⁴					
\$0 or less	‡	‡	‡	‡	‡
\$1–\$3,670	‡	‡	‡	‡	‡
\$3,671–\$14,535	‡	‡	‡	‡	‡
\$14,536–\$30,242	‡	‡	‡	‡	‡
\$30,243 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table J-46. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in private for-profit less-than-2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Major					
Undecided	†	†	†	†	†
Humanities	†	†	†	†	†
Social/behavioral sciences	†	†	†	†	†
Life sciences	†	†	†	†	†
Physical sciences/math	†	†	†	†	†
Computer/information science	†	†	†	†	†
Engineering	†	†	†	†	†
Education	†	†	†	†	†
Business/Management	†	†	†	†	†
Health	†	†	†	†	†
Vocational/technical	†	†	†	†	†
Other technical/professional	†	†	†	†	†
Unknown	8.10	9.30	7.82	0.28	1.48
Degree program (undergraduate only)					
Postsecondary award, certificate or diploma of less than two academic years	98.75	98.01	98.81	-0.06	-0.80
Associate's degree	†	†	†	†	†
Postsecondary award, certificate, diploma, or degree program	†	†	†	†	†
Bachelor's degree or equivalent	†	†	†	†	†
Unknown	†	†	†	†	†
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					
1–67	27.93	27.30	26.79	1.14*	0.51
68–79	†	†	†	†	†
80–89	†	†	†	†	†
90 or more	†	†	†	†	†
None or unknown	†	†	†	†	†

See notes at end of table.

Table J-46. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in private for-profit less-than-2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Number of first-time, full-time undergraduate students living on campus ⁵					
Unknown	100.00	100.00	100.00	#	#
Average amount of grant and scholarship aid received ⁵					
\$0–\$3,874	‡	‡	‡	‡	‡
\$3,875–\$4,359	23.85	23.59	24.15	-0.30	-0.56
\$4,360–\$5,003	‡	‡	‡	‡	‡
\$5,004 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁵					
0–24	17.93	18.28	18.07	-0.14	0.21
25–49	‡	‡	‡	‡	‡
50–170	‡	‡	‡	‡	‡
171 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Veteran status					
Yes	‡	‡	‡	‡	‡
No	94.44	94.65	95.06	-0.62*	-0.41

See notes at end of table.

Table J-46. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in private for-profit less-than-2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race					
White	‡	‡	‡	‡	‡
Black or African American	‡	‡	‡	‡	‡
Hispanic	‡	‡	‡	‡	‡
Asian	‡	‡	‡	‡	‡
American Indian or Alaska Native	‡	‡	‡	‡	‡
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡
More than one race	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Sex					
Male	27.95	27.82	26.08	1.87*	1.74*
Female	72.05	72.18	73.92	-1.87*	-1.74*
Unknown	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than 30 unweighted nonrespondents).

* $p < 0.05$.¹ Student base weight, adjusted for nonresponse.

² New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.

³ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.⁴ Categories were defined by quartiles.⁵ Categories were defined by quartiles computed at the institution level.

NOTE: Sample sizes rounded to the nearest 10 and, therefore, may not sum to total. "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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-47. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in private for-profit 2-year institutions: 2015–16

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ²					
New England	‡	‡	‡	‡	‡
Mid East	15.88	15.74	15.17	0.71	0.57
Great Lakes	8.76	9.53	8.52	0.24	1.01
Plains	‡	‡	‡	‡	‡
Southeast	‡	‡	‡	‡	‡
Southwest	14.93	15.24	14.56	0.37	0.68
Rocky Mountains	‡	‡	‡	‡	‡
Far West	21.10	20.68	22.18	-1.08*	-1.50*
Outlying areas	‡	‡	‡	‡	‡
Federal aid status					
Received	82.22	82.24	77.74	4.48*	4.50*
Did not receive	12.95	12.12	16.26	-3.31*	-4.14*
Unknown	4.83	5.63	6.00	-1.17*	-0.37
Pell Grant status					
Received	‡	‡	‡	‡	‡
Did not receive	29.15	29.16	33.76	-4.61*	-4.60*
Total Pell amount received ³					
None	29.15	29.16	33.76	-4.61*	-4.60*
\$1–\$2,888	‡	‡	‡	‡	‡
\$2,889–\$5,774	‡	‡	‡	‡	‡
\$5,775	‡	‡	‡	‡	‡

See notes at end of table.

Table J-47. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in private for-profit 2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Stafford Loan status					
Received	‡	‡	‡	‡	‡
Did not receive	42.57	42.57	48.08	-5.51*	-5.51*
Total Stafford amount received ⁴					
None	42.57	42.57	48.08	-5.51*	-5.51*
\$1–\$4,750	‡	‡	‡	‡	‡
\$4,751–\$7,719	‡	‡	‡	‡	‡
\$7,720–\$9,500	‡	‡	‡	‡	‡
\$9,501 or more	‡	‡	‡	‡	‡
Institution total enrollment ⁵					
1–652	29.69	30.25	28.82	0.87	1.43
653–971	23.22	22.52	24.26	-1.04	-1.74*
972–2,194	21.59	21.68	21.49	0.10	0.19
2,195 or more	25.51	25.55	25.43	0.08	0.12
Sampled baccalaureate recipient					
Baccalaureate recipient	‡	‡	‡	‡	‡
Not baccalaureate recipient	99.61	99.61	99.68	-0.07	-0.07
Age as of Dec 31, 2015					
15–23	43.21	43.20	42.83	0.38	0.37
24–29	25.10	24.97	24.59	0.51	0.38
30 or older	31.69	31.64	32.58	-0.89*	-0.94
Unknown	‡	‡	‡	‡	‡
Institutional aid status					
Received	‡	‡	‡	‡	‡
Did not receive	67.29	66.59	68.10	-0.81	-1.51*
Unknown	22.82	23.54	22.65	0.17	0.89

See notes at end of table.

Table J-47. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in private for-profit 2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
State aid status					
Received	‡	‡	‡	‡	‡
Did not receive	67.65	66.96	68.99	-1.34*	-2.03*
Unknown	24.37	25.08	24.08	0.29	1.00
Parent's highest level of education					
Middle school/junior high	‡	‡	‡	‡	‡
High school	‡	‡	‡	‡	‡
College or beyond	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Marital status					
Unmarried-single/divorce/widow	‡	‡	‡	‡	‡
Married/remarried	‡	‡	‡	‡	‡
Separated	‡	‡	‡	‡	‡
Divorced or widowed	‡	‡	‡	‡	‡
Support children					
Has dependents	‡	‡	‡	‡	‡
Does not have dependents	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Income ⁴					
\$0 or less	‡	‡	‡	‡	‡
\$1–\$5,696	‡	‡	‡	‡	‡
\$5,697–\$15,940	‡	‡	‡	‡	‡
\$15,941–\$32,511	‡	‡	‡	‡	‡
\$32,512 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table J-47. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in private for-profit 2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Major					
Undecided	‡	‡	‡	‡	‡
Humanities	5.77	5.67	5.64	0.13	0.03
Social/behavioral sciences	‡	‡	‡	‡	‡
Life sciences	‡	‡	‡	‡	‡
Physical sciences/math	‡	‡	‡	‡	‡
Computer/information science	‡	‡	‡	‡	‡
Engineering	‡	‡	‡	‡	‡
Education	‡	‡	‡	‡	‡
Business/Management	‡	‡	‡	‡	‡
Health	51.56	51.54	53.43	-1.87*	-1.89*
Vocational/technical	17.72	17.97	16.16	1.56*	1.81*
Other technical/professional	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Degree program (undergraduate only)					
Postsecondary award, certificate or diploma of less than two academic years	61.68	61.90	62.55	-0.87	-0.65
Associate's degree	37.55	37.20	36.48	1.07*	0.72
Postsecondary award, certificate, diploma, or degree program	‡	‡	‡	‡	‡
Bachelor's degree or equivalent	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					
1–75	25.68	24.85	27.07	-1.39*	-2.22*
76–83	26.19	26.47	26.20	-0.01	0.27
84–92	23.30	23.24	23.14	0.16	0.10
93 or more	24.83	25.45	23.58	1.25*	1.87*

See notes at end of table.

Table J-47. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in private for-profit 2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Number of first-time, full-time undergraduate students living on campus ⁵					
0–39	‡	‡	‡	‡	‡
Unknown	98.52	98.68	98.91	-0.39	-0.23
Average amount of grant and scholarship aid received ⁵					
\$0–\$3,947	17.92	17.48	19.30	-1.38*	-1.82*
\$3,948–\$4,670	22.29	22.60	21.90	0.39	0.70
\$4,671–\$5,334	31.23	30.64	31.18	0.05	-0.54
\$5,335 or more	25.35	26.00	24.29	1.06	1.71*
Unknown	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁵					
0–32	23.06	22.51	22.67	0.39	-0.16
33–79	21.56	22.34	22.24	-0.68	0.10
80–133	23.75	23.82	23.14	0.61	0.68
134 or more	28.42	28.06	28.62	-0.20	-0.56
Unknown	‡	‡	‡	‡	‡
Veteran status					
Yes	‡	‡	‡	‡	‡
No	92.34	92.21	92.57	-0.23	-0.36

See notes at end of table.

Table J-47. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in private for-profit 2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race					
White	33.19	32.93	33.57	-0.38	-0.64
Black or African American	‡	‡	‡	‡	‡
Hispanic	30.19	29.82	29.76	0.43	0.06
Asian	4.88	5.04	5.24	-0.36*	-0.20
American Indian or Alaska Native	‡	‡	‡	‡	‡
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡
More than one race	‡	‡	‡	‡	‡
Unknown	4.95	5.45	4.63	0.32	0.82*
Sex					
Male	39.76	39.92	36.35	3.41*	3.57*
Female	60.24	59.90	63.65	-3.41*	-3.75*
Unknown	‡	‡	‡	‡	‡

‡ Reporting standards not met (fewer than 30 unweighted nonrespondents).

* $p < 0.05$.¹ Student base weight, adjusted for nonresponse.

² New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.

³ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.

⁴ Categories were defined by quartiles.

⁵ Categories were defined by quartiles computed at the institution level.

NOTE: Sample sizes rounded to the nearest 10 and, therefore, may not sum to total. "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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-48. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in private for-profit 4-year institutions: 2015–16

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ²					
New England	‡	‡	‡	‡	‡
Mid East	6.43	6.35	9.59	-3.16*	-3.24*
Great Lakes	11.50	11.39	13.29	-1.79	-1.90
Plains	19.34	18.43	12.93	6.41	5.50
Southeast	21.59	22.89	24.65	-3.06	-1.76
Southwest	19.98	20.14	17.16	2.82	2.98
Rocky Mountains	4.75	4.73	6.80	-2.05*	-2.07*
Far West	15.15	14.80	13.98	1.17	0.82
Outlying areas	‡	‡	‡	‡	‡
Student type					
Undergraduate student	75.25	75.30	75.23	0.02	0.07
Graduate student	23.58	23.54	23.27	0.31	0.27
First professional student	‡	‡	‡	‡	‡
Federal aid status					
Received	69.19	70.09	77.77	-8.58*	-7.68*
Did not receive	21.32	22.07	16.06	5.26*	6.01*
Unknown	9.49	7.84	6.16	3.33	1.68
Pell Grant status					
Received	50.62	50.66	63.56	-12.94*	-12.90*
Did not receive	49.38	49.34	36.44	12.94*	12.90*
Total Pell amount received ³					
None	49.38	49.34	36.44	12.94*	12.90*
\$1–\$2,888	‡	‡	‡	‡	‡
\$2,889–\$5,774	‡	‡	‡	‡	‡
\$5,775	‡	‡	‡	‡	‡

See notes at end of table.

Table J-48. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in private for-profit 4-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Stafford Loan status					
Received	52.99	52.98	65.27	-12.28*	-12.29*
Did not receive	47.01	47.02	34.73	12.28*	12.29*
Total Stafford amount received ⁴					
None	47.01	47.02	34.73	12.28*	12.29*
\$1–\$4,611	‡	‡	‡	‡	‡
\$4,612–\$8,547	‡	‡	‡	‡	‡
\$8,548–\$13,404	‡	‡	‡	‡	‡
\$13,405 or more	‡	‡	‡	‡	‡
Institution total enrollment ⁵					
1–1,206	13.23	13.18	19.91	-6.68*	-6.73*
1,207–2,414	9.56	9.53	15.01	-5.45*	-5.48*
2,415–10,368	12.57	12.71	19.46	-6.89*	-6.75*
10,369 or more	64.64	64.59	45.61	19.03*	18.98*
Sampled baccalaureate recipient					
Baccalaureate recipient	7.27	7.26	9.67	-2.40*	-2.41*
Not baccalaureate recipient	92.73	92.74	90.33	2.40*	2.41*
Age as of Dec 31, 2015					
15–23	16.75	17.20	18.43	-1.68	-1.23
24–29	25.80	24.27	27.89	-2.09*	-3.62*
30 or older	57.45	55.57	53.68	3.77*	1.89
Unknown	‡	‡	‡	‡	‡
Institutional aid status					
Received	30.12	31.37	28.25	1.87	3.12
Did not receive	50.41	50.76	53.44	-3.03	-2.68
Unknown	19.48	17.87	18.31	1.17	-0.44

See notes at end of table.

Table J-48. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in private for-profit 4-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
State aid status					
Received	‡	‡	‡	‡	‡
Did not receive	75.75	77.31	75.10	0.65	2.21
Unknown	19.67	18.11	18.69	0.98	-0.58
Parent's highest level of education					
Middle school/junior high	‡	‡	‡	‡	‡
High school	37.84	38.00	35.95	1.89	2.05*
College or beyond	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Marital status					
Unmarried-single/divorce/widow	56.56	56.37	61.30	-4.74*	-4.93*
Married/remarried	‡	‡	‡	‡	‡
Separated	‡	‡	‡	‡	‡
Divorced or widowed	‡	‡	‡	‡	‡
Support children					
Has dependents	‡	‡	‡	‡	‡
Does not have dependents	46.48	46.25	49.58	-3.10*	-3.33*
Unknown	‡	‡	‡	‡	‡
Income ⁴					
\$0 or less	‡	‡	‡	‡	‡
\$1–\$9,717	‡	‡	‡	‡	‡
\$9,718–\$24,925	‡	‡	‡	‡	‡
\$24,926–\$50,769	‡	‡	‡	‡	‡
\$50,770 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table J-48. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in private for-profit 4-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Major					
Undecided	‡	‡	‡	‡	‡
Humanities	9.65	9.30	9.61	0.04	-0.31
Social/behavioral sciences	‡	‡	‡	‡	‡
Life sciences	2.27	2.46	1.43	0.84	1.03
Physical sciences/math	‡	‡	‡	‡	‡
Computer/information science	8.87	8.68	10.26	-1.39	-1.58*
Engineering	4.02	3.89	4.03	-0.01	-0.14
Education	‡	‡	‡	‡	‡
Business/Management	23.67	23.66	22.02	1.65	1.64
Health	24.88	23.55	28.34	-3.46	-4.79*
Vocational/technical	‡	‡	‡	‡	‡
Other technical/professional	14.45	13.79	15.47	-1.02	-1.68
Unknown	3.66	7.07	2.82	0.84	4.25
Degree program (undergraduate only)					
Postsecondary award, certificate or diploma of less than two academic years	‡	‡	‡	‡	‡
Associate's degree	29.76	27.63	36.52	-6.76*	-8.89*
Postsecondary award, certificate, diploma, or degree program	65.10	64.13	57.13	7.97*	7.00
Bachelor's degree or equivalent	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					
1–75	18.89	17.44	16.88	2.01	0.56
76–88	28.00	28.06	34.08	-6.08*	-6.02*
89–95	30.09	30.88	27.99	2.10	2.89
96 or more	19.50	20.08	15.12	4.38	4.96
None or unknown	3.52	3.53	5.92	-2.40*	-2.39*

See notes at end of table.

Table J-48. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in private for-profit 4-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Number of first-time, full-time undergraduate students living on campus ⁵					
0–32	‡	‡	‡	‡	‡
33–50	1.15	1.19	1.92	-0.77*	-0.73*
51–99	8.37	7.87	4.68	3.69	3.19
100 or more	9.80	9.63	6.11	3.69	3.52
Unknown	79.35	79.99	85.10	-5.75	-5.11
Average amount of grant and scholarship aid received ⁵					
\$0–\$4,371	22.63	24.26	19.08	3.55	5.18
\$4,372–\$5,234	16.25	16.44	21.03	-4.78*	-4.59*
\$5,235–\$6,392	31.78	30.54	32.53	-0.75	-1.99
\$6,393 or more	25.58	24.97	20.94	4.64	4.03
Unknown	3.76	3.80	6.42	-2.66*	-2.62*
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁵					
0–12	23.54	22.87	17.73	5.81	5.14
13–33	7.83	7.91	11.52	-3.69*	-3.61*
34–91	8.40	8.50	12.59	-4.19*	-4.09*
92 or more	56.83	57.28	52.26	4.57	5.02
Unknown	3.41	3.45	5.90	-2.49*	-2.45*
Veteran status					
Yes	14.02	14.03	11.95	2.07*	2.08*
No	85.98	85.97	88.05	-2.07*	-2.08*

See notes at end of table.

Table J-48. Student-level (study member) analysis after nonresponse and poststratification adjustments for selected variables for students in private for-profit 4-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race					
White	44.28	41.89	39.49	4.79*	2.40
Black or African American	27.12	25.78	28.74	-1.62	-2.96*
Hispanic	13.84	14.50	15.31	-1.47	-0.81
Asian	4.12	3.73	4.40	-0.28	-0.67*
American Indian or Alaska Native	‡	‡	‡	‡	‡
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡
More than one race	‡	‡	‡	‡	‡
Unknown	6.76	10.32	7.81	-1.05	2.51
Sex					
Male	35.85	35.37	35.57	0.28	-0.20
Female	64.15	61.53	64.43	-0.28	-2.90
Unknown	‡	‡	‡	‡	‡

‡ Reporting standards not met (fewer than 30 unweighted nonrespondents).

* $p < 0.05$.¹ Student base weight, adjusted for nonresponse.

² New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.

³ Pell grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.

⁴ Categories were defined by quartiles.

⁵ Categories were defined by quartiles computed at the institution level.

NOTE: Sample sizes rounded to the nearest 10 and, therefore, may not sum to total. "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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

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Appendix J-II: Nonresponse Bias Analyses

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Table J-49. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in all institutions: 2015–16

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Control and level of institution						(Effect size=0.08)				(Effect size=0.07)	
Public less-than-2-year	210	160	0.18	0.15	0.22	-0.02*	-13.49	0.18	0.15	-0.03*	-17.06
Public 2-year	10,400	6,910	29.36	27.26	33.33	-2.11*	-7.17	29.36	27.63	-1.74*	-5.92
Public 4-year, non-doctorate-granting, primarily subbaccalaureate	3,500	2,040	3.85	3.55	4.41	-0.30*	-7.75	3.85	3.61	-0.24*	-6.36
Public 4-year, non-doctorate-granting, primarily baccalaureate	4,480	1,950	6.03	6.35	5.42	0.32*	5.34	6.03	6.30	0.27*	4.48
Public 4-year, doctorate-granting	19,120	8,080	29.69	31.25	26.75	1.56*	5.25	29.69	31.25	1.56*	5.26
Private nonprofit, less-than-4-year	690	470	0.38	0.38	0.37	#	1.28	0.38	0.36	-0.02	-4.37
Private nonprofit, 4-year, non-doctorate-granting	7,720	3,060	6.90	7.45	5.86	0.55*	8.02	6.90	7.18	0.28*	4.11
Private nonprofit, 4-year, doctorate-granting	10,410	3,830	13.77	14.70	12.01	0.93*	6.77	13.77	14.37	0.61*	4.42
Private for-profit, less-than-2-year	1,210	1,330	1.35	0.96	2.07	-0.38*	-28.53	1.35	0.94	-0.40*	-30.06
Private for-profit, 2-year	3,070	3,040	1.77	1.38	2.51	-0.39*	-22.09	1.77	1.33	-0.44*	-24.69
Private for-profit, 4-year	18,050	9,820	6.73	6.56	7.05	-0.17	-2.49	6.73	6.88	0.15	2.18
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ⁵						(Effect size=0.03)				(Effect size=0.03)	
New England	3,170	1,550	5.21	5.31	5.03	0.10	1.86	5.21	5.38	0.16	3.12
Mid East	12,410	6,510	15.38	15.38	15.38	#	0.01	15.38	15.29	-0.09	-0.61
Great Lakes	10,870	5,480	13.92	14.04	13.71	0.11	0.81	13.92	13.80	-0.12	-0.89
Plains	6,160	2,740	7.76	8.11	7.09	0.36*	4.59	7.76	8.22	0.47	6.02
Southeast	20,270	10,100	22.79	22.82	22.73	0.03	0.14	22.79	22.78	-0.01	-0.05
Southwest	9,380	5,060	12.19	12.12	12.32	-0.07	-0.57	12.19	11.93	-0.26	-2.14
Rocky Mountains	4,120	1,850	4.40	4.58	4.05	0.19	4.23	4.40	4.50	0.11	2.40
Far West	11,580	6,510	17.23	16.73	18.16	-0.50*	-2.89	17.23	17.24	0.01	0.06
Outlying areas	900	880	1.13	0.91	1.53	-0.22*	-19.30	1.13	0.87	-0.26*	-22.92
Student type						(Effect size=0.05)				(Effect size=0.03)	
Undergraduate student	60,840	34,170	84.41	82.77	87.50	-1.64*	-1.94	84.41	83.23	-1.18*	-1.40
Graduate student	16,030	5,920	13.86	15.21	11.33	1.34*	9.70	13.86	14.83	0.96*	6.96
First professional student	1,990	600	1.72	2.02	1.17	0.30*	17.24	1.72	1.94	0.22*	12.66
Federal aid status						(Effect size=0.09)				(Effect size=0.07)	
Received	48,710	21,460	54.38	58.84	45.98	4.46*	8.20	54.38	55.62	1.24*	2.28
Did not receive	24,330	14,600	36.29	33.09	42.31	-3.20*	-8.81	36.29	33.46	-2.82*	-7.78
Unknown	5,820	4,630	9.34	8.08	11.71	-1.26*	-13.51	9.34	10.92	1.58*	16.95

See notes at end of table.

Table J-49. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in all institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Pell Grant status						(Effect size=0.07)				(Effect size=0.02)	
Received	27,130	12,960	38.09	41.64	31.76	3.43*	9.00	38.09	38.89	0.80	2.09
Did not receive	33,720	21,220	61.91	58.36	68.24	-3.43*	-5.54	61.91	61.11	-0.80*	-1.29
Total Pell amount received ⁶						(Effect size=0.08)				(Effect size=0.04)	
None	33,720	21,220	61.91	58.36	68.24	-3.43*	-5.54	61.91	61.11	-0.80*	-1.29
\$1–\$2,888	8,470	4,880	12.00	12.17	11.71	0.16	1.31	12.00	11.37	-0.64*	-5.30
\$2,889–\$5,774	10,790	5,000	15.44	17.08	12.52	1.58*	10.25	15.44	15.95	0.51*	3.30
\$5,775	7,870	3,080	10.64	12.40	7.53	1.69*	15.87	10.64	11.57	0.92*	8.68
Stafford Loan status						(Effect size=0.08)				(Effect size=0.03)	
Received	35,470	14,540	37.01	40.83	29.82	3.82*	10.31	37.01	38.35	1.34*	3.62
Did not receive	43,390	26,150	62.99	59.17	70.18	-3.82*	-6.06	62.99	61.65	-1.34*	-2.13
Total Stafford amount received ⁷						(Effect size=0.08)				(Effect size=0.04)	
None	43,390	26,150	62.99	59.17	70.18	-3.82*	-6.06	62.99	61.65	-1.34*	-2.13
\$1–\$4,750	8,300	4,370	9.16	9.56	8.42	0.40*	4.34	9.16	8.98	-0.19*	-2.02
\$4,751–\$7,500	11,990	4,680	14.60	16.18	11.62	1.58*	10.82	14.60	15.19	0.60*	4.09
\$7,501–\$11,000	5,790	2,420	5.59	6.28	4.27	0.70*	12.48	5.59	5.91	0.32*	5.78
\$11,001 or more	9,390	3,070	7.66	8.80	5.51	1.14*	14.91	7.66	8.27	0.61*	7.92
Institution total enrollment ⁸						(Effect size=0.02)				(Effect size=0.03)	
None	18,760	11,270	10.78	10.52	11.27	-0.26*	-2.42	10.78	10.16	-0.62*	-5.75
1–2,557	19,940	9,760	22.54	23.04	21.60	0.50*	2.23	22.54	22.39	-0.15	-0.68
2,558–10,412	19,880	10,040	32.11	31.67	32.93	-0.44*	-1.36	32.11	31.67	-0.44	-1.37
10,413–27,004	20,280	9,620	34.57	34.76	34.20	0.19	0.56	34.57	35.78	1.21*	3.51
Sampled baccalaureate recipient						(Effect size=0.02)				(Effect size=0.01)	
Baccalaureate recipient	26,350	11,170	8.06	8.72	6.82	0.66*	8.18	8.06	8.42	0.36*	4.43
Not baccalaureate recipient	52,510	29,520	91.94	91.28	93.18	-0.66*	-0.72	91.94	91.58	-0.36*	-0.39
Age as of Dec 31, 2015						(Effect size=‡)				(Effect size=‡)	
15–23	34,000	17,610	53.58	54.01	52.77	0.43	0.81	53.58	53.66	0.07	0.14
24–29	18,710	9,620	20.42	20.49	20.29	0.07	0.34	20.42	20.46	0.04	0.19
30 or older	26,140	12,530	25.28	25.49	24.90	0.20	0.80	25.28	25.88	0.60*	2.36
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

**Table J-49. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in all institutions:
2015–16—Continued**

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non- respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non- respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Institutional aid status						(Effect size=0.08)				(Effect size=0.07)	
Received	24,550	8,720	24.37	27.64	18.22	3.27*	13.41	24.37	26.48	2.10*	8.62
Did not receive	41,800	23,790	59.47	57.21	63.73	-2.26*	-3.81	59.47	55.95	-3.53*	-5.93
Unknown	12,510	8,170	16.15	15.14	18.05	-1.01*	-6.23	16.15	17.58	1.43*	8.84
State aid status						(Effect size=0.06)				(Effect size=0.05)	
Received	11,030	3,940	16.27	18.25	12.55	1.97*	12.14	16.27	17.24	0.96*	5.93
Did not receive	54,950	28,580	68.07	67.00	70.09	-1.07*	-1.58	68.07	65.58	-2.49*	-3.66
Unknown	12,880	8,180	15.66	14.76	17.36	-0.90*	-5.76	15.66	17.18	1.53*	9.75
Parent's highest level of education						(Effect size=0.02)				(Effect size=0.02)	
Middle school/junior high	2,040	970	3.59	3.60	3.55	0.02	0.44	3.59	3.61	0.03	0.76
High school	16,480	7,760	29.43	28.82	30.86	-0.71*	-2.41	29.43	28.57	-0.86	-2.91
College or beyond	29,920	12,310	54.34	55.20	52.33	0.99*	1.83	54.34	55.52	1.18*	2.17
Unknown	7,120	3,710	12.65	12.39	13.26	-0.30*	-2.38	12.65	12.29	-0.35	-2.78
Marital status						(Effect size=0.02)				(Effect size=0.01)	
Unmarried-single/divorce/widow	41,690	18,990	80.21	79.68	81.46	-0.62*	-0.77	80.21	79.83	-0.38*	-0.47
Married/remarried	10,350	4,070	14.76	15.36	13.36	0.69*	4.70	14.76	15.24	0.48*	3.23
Separated	1,020	580	1.56	1.51	1.70	-0.07	-4.21	1.56	1.50	-0.07	-4.36
Divorced or widowed	2,500	1,120	3.46	3.46	3.48	-0.01	-0.22	3.46	3.43	-0.03	-0.88
Support children						(Effect size=‡)				(Effect size=‡)	
Has dependents	15,240	7,100	22.38	22.19	22.83	-0.22	-1.00	22.38	21.99	-0.38	-1.72
Does not have dependents	40,330	17,660	77.62	77.81	77.15	0.23	0.30	77.62	78.01	0.39*	0.50
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Income ⁷						(Effect size=0.03)				(Effect size=0.03)	
\$0 or less	4,290	2,370	7.36	6.96	8.30	-0.46*	-6.31	7.36	6.93	-0.43*	-5.91
\$1–\$11,400	8,980	4,300	14.74	14.57	15.13	-0.20	-1.33	14.74	14.49	-0.25	-1.69
\$11,401–\$29,232	13,660	6,270	23.59	23.51	23.78	-0.09	-0.40	23.59	23.42	-0.17	-0.74
\$29,233–\$66,687	14,100	5,830	25.67	26.13	24.57	0.54*	2.11	25.67	26.10	0.43*	1.67
\$66,688 or more	14,190	5,740	27.56	27.92	26.71	0.42*	1.51	27.56	28.14	0.58*	2.09
Unknown	340	250	1.08	0.90	1.50	-0.21*	-18.99	1.08	0.93	-0.15*	-13.76

See notes at end of table.

Table J-49. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in all institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Major						(Effect size=‡)				(Effect size=‡)	
Undecided	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Humanities	7,350	5,560	16.88	14.00	22.19	-2.84*	-16.83	16.88	14.01	-2.88*	-17.04
Social/behavioral sciences	4,420	1,490	7.17	8.12	5.42	0.94*	13.07	7.17	8.06	0.89*	12.36
Life sciences	4,680	1,910	8.01	8.61	6.91	0.59*	7.39	8.01	8.51	0.50*	6.24
Physical sciences/math	1,020	410	1.81	1.86	1.71	0.05	2.99	1.81	1.89	0.08	4.56
Computer/information science	3,900	1,900	4.32	4.67	3.68	0.35*	7.98	4.32	4.80	0.48*	11.01
Engineering	3,520	1,670	6.17	6.48	5.60	0.31*	4.94	6.17	6.52	0.35*	5.66
Education	4,080	1,310	4.38	5.21	2.85	0.82*	18.66	4.38	5.04	0.66*	15.17
Business/Management	8,410	4,240	15.68	16.00	15.10	0.31	2.01	15.68	16.26	0.58*	3.68
Health	12,470	6,230	16.68	18.36	13.59	1.65*	9.91	16.68	18.02	1.34*	8.05
Vocational/technical	1,440	1,490	2.84	2.34	3.76	-0.49*	-17.40	2.84	2.35	-0.49*	-17.39
Other technical/professional	7,650	4,130	11.89	12.28	11.17	0.39*	3.25	11.89	12.13	0.24	1.99
Unknown	940	2,630	3.84	1.57	8.00	-2.23*	-58.16	3.84	1.83	-2.00*	-52.24
Degree program (undergraduate only)						(Effect size=‡)				(Effect size=‡)	
Postsecondary award, certificate or diploma of less than two academic years	4,850	5,120	7.54	5.89	10.49	-1.60*	-21.17	7.54	5.97	-1.58*	-20.91
Associate's degree	14,860	9,180	36.65	36.03	37.76	-0.60*	-1.64	36.65	36.09	-0.56*	-1.54
Postsecondary award, certificate, diploma, or degree program	40,340	17,980	52.12	56.31	44.66	4.04*	7.75	52.12	55.98	3.85*	7.39
Bachelor's degree or equivalent	790	1,200	2.89	1.76	4.91	-1.09*	-37.76	2.89	1.96	-0.93*	-32.16
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁸						(Effect size=0.03)				(Effect size=0.02)	
1–67	20,090	10,330	33.81	33.13	35.11	-0.69*	-2.03	33.81	33.81	#	-0.01
68–83	21,480	11,800	30.37	29.98	31.09	-0.38	-1.27	30.37	30.15	-0.22	-0.72
84–95	20,020	10,970	21.55	21.47	21.69	-0.08	-0.35	21.55	21.17	-0.37	-1.74
96 or more	13,130	5,720	11.75	12.78	9.82	1.03*	8.73	11.75	12.27	0.52*	4.44
None or Unknown	4,140	1,880	2.52	2.64	2.29	0.12	4.79	2.52	2.60	0.08	3.03

See notes at end of table.

Table J-49. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in all institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Number of first-time, full-time undergraduate students living on campus ⁸						(Effect size=0.06)				(Effect size=0.05)	
0–188	9,080	4,550	9.52	9.46	9.63	-0.06	-0.63	9.52	9.29	-0.23	-2.38
189–424	7,510	3,140	8.70	9.38	7.43	0.68*	7.78	8.70	9.19	0.49*	5.62
425–819	9,090	3,370	11.56	12.54	9.73	0.97*	8.42	11.56	12.30	0.74*	6.37
820 or more	18,120	7,440	26.68	28.03	24.15	1.35*	5.05	26.68	27.89	1.21*	4.53
Unknown	35,060	22,190	43.54	40.60	49.07	-2.94*	-6.75	43.54	41.33	-2.21*	-5.07
Average amount of grant and scholarship aid received ⁸						(Effect size=0.06)				(Effect size=0.05)	
\$0–\$4,744	14,440	9,430	21.48	20.16	23.95	-1.31*	-6.12	21.48	20.56	-0.92*	-4.29
\$4,745–\$6,192	20,010	12,130	28.22	26.82	30.86	-1.40*	-4.97	28.22	26.57	-1.65*	-5.85
\$6,193–\$11,968	25,010	11,410	31.31	32.70	28.68	1.40*	4.46	31.31	32.83	1.52*	4.86
\$11,969 or more	14,740	5,510	16.40	17.61	14.11	1.22*	7.41	16.40	17.39	0.99*	6.05
Unknown	4,660	2,210	2.60	2.71	2.40	0.11	4.04	2.60	2.66	0.06	2.26
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁸						(Effect size=0.01)				(Effect size=0.01)	
0–47	14,780	7,950	10.41	10.47	10.31	0.06	0.54	10.41	10.65	0.24	2.30
48–116	14,380	7,530	15.08	15.27	14.71	0.20	1.30	15.08	14.98	-0.10	-0.63
117–308	17,480	9,240	25.75	25.38	26.44	-0.37	-1.43	25.75	25.55	-0.19	-0.75
309 or more	27,670	13,830	46.05	46.02	46.10	-0.03	-0.06	46.05	46.00	-0.05	-0.10
Unknown	4,550	2,150	2.71	2.86	2.44	0.15	5.34	2.71	2.81	0.09	3.46
Veteran status						(Effect size=0.01)				(Effect size=#)	
Yes	6,880	3,660	5.10	4.95	5.40	-0.16	-3.05	5.10	5.03	-0.07	-1.34
No	71,990	37,030	94.90	95.05	94.60	0.16	0.16	94.90	94.97	0.07	0.07

See notes at end of table.

Table J-49. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in all institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Race						(Effect size=0.21)				(Effect size=0.21)	
White	41,610	18,510	52.59	53.92	50.07	1.33*	2.54	52.59	53.62	1.04*	1.97
Black or African American	13,480	5,510	13.65	14.61	11.85	0.96*	7.03	13.65	14.39	0.74*	5.39
Hispanic	12,880	6,360	17.39	17.87	16.49	0.48*	2.75	17.39	18.06	0.67*	3.87
Asian	6,880	2,630	7.69	8.37	6.39	0.69*	8.93	7.69	8.73	1.05*	13.62
American Indian or Alaska Native	500	290	0.70	0.68	0.74	-0.02	-2.98	0.70	0.67	-0.03	-4.48
Native Hawaiian or other Pacific Islander	330	200	0.35	0.40	0.25	0.05*	15.61	0.35	0.40	0.05*	15.76
More than one race	2,880	460	3.03	3.78	1.61	0.75*	24.87	3.03	3.71	0.69*	22.72
Unknown	310	6,730	4.61	0.36	12.60	-4.24*	-92.09	4.61	0.41	-4.20*	-91.19
Sex						(Effect size=‡)				(Effect size=‡)	
Male	32,470	18,610	43.66	41.31	48.08	-2.35*	-5.38	43.66	42.00	-1.65*	-3.79
Female	46,390	21,260	55.72	58.69	50.13	2.97*	5.33	55.72	58.00	2.28*	4.09
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than 30 unweighted 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 calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Student base weight, adjusted for nonresponse.⁴ 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).⁵ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.⁶ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.⁷ Categories were defined by quartiles.⁸ Categories were defined by quartiles computed at the institution level.

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. "Base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Sample sizes rounded to the nearest 10 and, therefore, may not sum to total.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-50. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in public less-than-2-year institutions: 2015–16

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ⁵						(Effect size=‡)				(Effect size=‡)	
New England	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Mid East	40	40	20.92	20.01	22.11	-0.91	-4.37	20.92	19.63	-1.29	-6.17
Great Lakes	40	40	23.51	20.90	26.91	-2.61	-11.12	23.51	20.59	-2.92	-12.44
Plains	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southeast	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southwest	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Outlying areas	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Federal aid status						(Effect size=‡)				(Effect size=‡)	
Received	150	100	68.45	73.57	61.81	5.11	7.47	68.45	72.05	3.60	5.25
Did not receive	50	70	28.33	21.98	36.58	-6.35	-22.41	28.33	22.43	-5.90	-20.82
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Pell Grant status						(Effect size=0.11)				(Effect size=0.09)	
Received	130	80	59.54	65.15	52.25	5.61	9.42	59.54	63.77	4.24	7.11
Did not receive	80	80	40.46	34.85	47.75	-5.61	-13.87	40.46	36.23	-4.24	-10.47
Total Pell amount received ⁶						(Effect size=‡)				(Effect size=‡)	
None	80	80	40.46	34.85	47.75	-5.61	-13.87	40.46	36.23	-4.24	-10.47
\$1–\$2,888	40	40	20.57	19.04	22.56	-1.53	-7.45	20.57	18.64	-1.93	-9.38
\$2,889–\$5,774	50	30	24.66	29.80	17.97	5.14*	20.86	24.66	29.17	4.52	18.32
\$5,775	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-50. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in public less-than-2-year institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Stafford Loan status						(Effect size=0.04)				(Effect size=0.06)	
Received	70	50	32.54	30.44	35.27	-2.10	-6.46	32.54	29.80	-2.75	-8.44
Did not receive	140	110	67.46	69.56	64.73	2.10	3.12	67.46	70.20	2.75	4.07
Total Stafford amount received ⁷						(Effect size=‡)				(Effect size=‡)	
None	140	110	67.46	69.56	64.73	2.10	3.12	67.46	70.20	2.75	4.07
\$1–\$3,336	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$3,337–\$4,750	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$4,751–\$7,272	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$7,273 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Institution total enrollment ⁸						(Effect size=‡)				(Effect size=‡)	
1–242	60	50	33.76	31.34	36.91	-2.42	-7.18	33.76	30.85	-2.91	-8.62
243–422	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
423–734	50	40	21.62	21.05	22.35	-0.57	-2.61	21.62	20.96	-0.66	-3.03
735 or more	60	60	22.95	20.38	26.29	-2.57	-11.19	22.95	20.33	-2.62	-11.42
Sampled baccalaureate recipient						(Effect size=‡)				(Effect size=‡)	
Baccalaureate recipient	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not baccalaureate recipient	210	160	100.00	100.00	100.00	#	#	100.00	100.00	#	#
Age as of Dec 31, 2015						(Effect size=‡)				(Effect size=‡)	
15–23	100	80	51.03	49.44	53.08	-1.58	-3.10	51.03	48.83	-2.20	-4.31
24–29	50	40	21.54	21.85	21.15	0.31	1.42	21.54	21.60	0.05	0.25
30 or older	70	50	27.43	28.71	25.77	1.28	4.66	27.43	29.57	2.15	7.82
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Institutional aid status						(Effect size=‡)				(Effect size=‡)	
Received	40	40	17.77	17.87	17.64	0.10	0.55	17.77	17.67	-0.10	-0.56
Did not receive	150	130	71.21	65.33	78.86	-5.89	-8.27	71.21	64.71	-6.51	-9.14
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-50. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in public less-than-2-year institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
State aid status						(Effect size=‡)				(Effect size=‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	150	150	77.55	69.30	88.27	-8.25	-10.64	77.55	68.73	-8.82	-11.37
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Parent's highest level of education						(Effect size=‡)				(Effect size=‡)	
Middle school/junior high	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
High school	50	40	32.10	31.19	33.55	-1.03	-3.20	32.10	31.11	-0.98	-3.06
College or beyond	70	40	37.19	38.26	35.48	1.21	3.25	37.19	38.39	1.21*	3.25
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Marital status						(Effect size=‡)				(Effect size=‡)	
Unmarried-single/divorce/widow	130	80	75.49	77.22	72.73	1.95	2.59	75.49	77.27	1.78	2.36
Married/remarried	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Separated	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Divorced or widowed	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Support children						(Effect size=‡)				(Effect size=‡)	
Has dependents	70	50	41.25	41.38	41.04	0.15	0.36	41.25	41.26	0.01	0.02
Does not have dependents	100	60	58.75	58.62	58.96	-0.15	-0.25	58.75	58.74	-0.01	-0.01
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Income ⁷						(Effect size=‡)				(Effect size=‡)	
\$0 or less	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$1–\$9,200	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$9,201–\$20,396	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
\$20,397–\$38,490	30	40	25.49	22.11	30.89	-3.82	-14.98	25.49	22.21	-3.29	-12.89
\$38,491 or more	40	30	23.11	19.73	28.51	-3.82	-16.53	23.11	19.78	-3.34	-14.44
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-50. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in public less-than-2-year institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Major						(Effect size=‡)				(Effect size=‡)	
Undecided	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Humanities	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Social/behavioral sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Life sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Physical sciences/math	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Computer/information science	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Engineering	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Education	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Business/Management	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Health	110	60	42.76	48.41	35.42	5.65	13.21	42.76	48.13	5.37	12.56
Vocational/technical	50	60	29.90	25.02	36.25	-4.89§	-16.34	29.90	25.52	-4.39	-14.66
Other technical/professional	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Degree program (undergraduate only)						(Effect size=‡)				(Effect size=‡)	
Postsecondary award, certificate or diploma of less than two academic years	210	160	100.00	100.00	100.00	#	#	100.00	100.00	#	#
Associate's degree	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Postsecondary award, certificate, diploma, or degree program	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bachelor's degree or equivalent	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁸						(Effect size=‡)				(Effect size=‡)	
1–60	40	40	22.57	19.72	26.28	-2.85	-12.64	22.57	19.67	-2.91	-12.88
61–82	50	40	20.19	19.77	20.75	-0.42	-2.10	20.19	19.53	-0.67	-3.31
83–91	60	30	17.81	19.64	15.43	1.83	10.29	17.81	19.56	1.75	9.84
92 or more	50	40	31.33	33.83	28.09	2.50	7.98	31.33	34.36	3.03	9.67
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-50. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in public less-than-2-year institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non- respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non- respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Number of first-time, full-time undergraduate students living on campus ⁸						(Effect size=‡)				(Effect size=‡)	
0–85	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	190	150	91.09	91.61	90.42	0.52	0.57	91.09	91.71	0.61	0.67
Average amount of grant and scholarship aid received ⁸						(Effect size=‡)				(Effect size=‡)	
\$0–\$3,601	80	60	33.41	33.57	33.19	0.17	0.50	33.41	33.39	-0.01	-0.04
\$3,602–\$4,071	40	40	16.45	14.30	19.25	-2.15	-13.09	16.45	14.21	-2.24	-13.63
\$4,072–\$5,407	30	30	19.19	16.34	22.88	-2.85	-14.83	19.19	16.16	-3.03	-15.79
\$5,408 or more	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁸						(Effect size=‡)				(Effect size=‡)	
0–6	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
7–22	40	30	18.57	17.53	19.91	-1.04	-5.58	18.57	17.41	-1.16	-6.22
23–40	40	40	22.29	19.55	25.85	-2.74	-12.29	22.29	19.32	-2.98	-13.35
41 or more	80	50	37.13	40.32	32.99	3.19	8.59	37.13	40.81	3.68	9.91
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Veteran status						(Effect size=‡)				(Effect size=‡)	
Yes	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
No	190	150	94.50	95.21	93.57	0.71	0.75	94.50	95.28	0.78	0.82

See notes at end of table.

Table J-50. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in public less-than-2-year institutions: 2015–16—Continued

Variable	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Before weight adjustments					After nonresponse weight adjustment				
			Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents		
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²	
Race						(Effect size=‡)				(Effect size=‡)		
White	130	110	61.43	59.38	64.10	-2.06	-3.35	61.43	59.44	-1.99	-3.24	
Black or African American	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	
Hispanic	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	
Asian	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	
American Indian or Alaska Native	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	
More than one race	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	
Sex						(Effect size=‡)				(Effect size=‡)		
Male	80	80	43.57	38.73	49.86	-4.84*	-11.11	43.57	39.03	-4.54	-10.42	
Female	130	80	56.43	61.27	50.14	4.84*	8.58	56.43	60.97	4.54	8.05	
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	

Rounds to zero.

‡ Reporting standards not met (fewer than 30 unweighted nonrespondents).

* $p < 0.05$ § $p < 0.05$ for difference between weighted respondent mean and weighted nonrespondent mean but not for estimated bias.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 calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Student base weight, adjusted for nonresponse.⁴ 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).⁵ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.⁶ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.⁷ Categories were defined by quartiles.⁸ Categories were defined by quartiles computed at the institution level.

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. "Base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Sample sizes rounded to the nearest 10 and, therefore, may not sum to total.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-51. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in public 2-year institutions: 2015–16

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ⁵						(Effect size=‡)				(Effect size=‡)	
New England	350	210	3.83	3.94	3.66	0.11	2.94	3.83	3.98	0.15	3.86
Mid East	1,300	890	12.24	12.04	12.53	-0.19	-1.58	12.24	11.70	-0.53*	-4.37
Great Lakes	1,250	810	13.53	13.67	13.33	0.13	0.98	13.53	13.53	-0.01	-0.04
Plains	810	480	6.85	7.12	6.42	0.28	4.02	6.85	6.80	-0.04	-0.64
Southeast	2,030	1,420	18.09	18.02	18.20	-0.07	-0.41	18.09	17.69	-0.40	-2.19
Southwest	1,790	1,140	16.66	16.81	16.43	0.15	0.89	16.66	16.47	-0.19	-1.13
Rocky Mountains	320	220	2.98	3.04	2.87	0.07	2.29	2.98	2.94	-0.03	-1.13
Far West	2,560	1,750	25.83	25.36	26.56	-0.47	-1.82	25.83	26.89	1.05*	4.08
Outlying areas	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Federal aid status						(Effect size=0.12)				(Effect size=0.09)	
Received	5,680	2,660	47.08	53.24	37.60	6.16*	13.08	47.08	49.56	2.48*	5.26
Did not receive	3,550	3,060	40.87	36.31	47.88	-4.56*	-11.15	40.87	36.53	-4.33*	-10.61
Unknown	1,180	1,200	12.05	10.45	14.52	-1.60*	-13.27	12.05	13.91	1.86*	15.42
Pell Grant status						(Effect size=0.12)				(Effect size=0.06)	
Received	4,610	2,010	37.97	43.97	28.73	6.00*	15.81	37.97	40.75	2.78*	7.31
Did not receive	5,790	4,900	62.03	56.03	71.27	-6.00*	-9.68	62.03	59.25	-2.78*	-4.48
Total Pell amount received ⁶						(Effect size=0.13)				(Effect size=0.07)	
None	5,790	4,900	62.03	56.03	71.27	-6.00*	-9.68	62.03	59.25	-2.78*	-4.48
\$1–\$2,888	1,590	910	14.54	15.49	13.07	0.95*	6.54	14.54	14.36	-0.18	-1.22
\$2,889–\$5,774	1,960	780	15.75	18.76	11.13	3.00*	19.07	15.75	17.38	1.63*	10.33
\$5,775	1,060	330	7.68	9.73	4.53	2.05*	26.64	7.68	9.01	1.33*	17.27

See notes at end of table.

Table J-51. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in public 2-year institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Stafford Loan status						(Effect size=0.06)				(Effect size=0.02)	
Received	2,360	1,120	18.72	20.95	15.29	2.23*	11.90	18.72	19.41	0.69*	3.68
Did not receive	8,050	5,790	81.28	79.05	84.71	-2.23*	-2.74	81.28	80.59	-0.69*	-0.85
Total Stafford amount received ⁷						(Effect size=0.06)				(Effect size=0.03)	
None	8,050	5,790	81.28	79.05	84.71	-2.23*	-2.74	81.28	80.59	-0.69*	-0.85
\$1–\$3,250	560	310	4.88	5.06	4.60	0.18	3.77	4.88	4.69	-0.19	-3.88
\$3,251–\$5,250	610	260	5.00	5.81	3.73	0.82*	16.39	5.00	5.38	0.39*	7.79
\$5,251–\$7,500	630	330	4.76	5.14	4.16	0.38*	8.07	4.76	4.76	#	0.07
\$7,501 or more	560	220	4.09	4.93	2.79	0.84*	20.58	4.09	4.57	0.49*	11.88
Institution total enrollment ⁸						(Effect size=0.01)				(Effect size=0.02)	
1–9,515	2,500	1,620	24.35	24.82	23.62	0.47	1.94	24.35	23.92	-0.43	-1.78
9,516–17,048	2,500	1,690	25.66	25.44	26.00	-0.22	-0.87	25.66	25.23	-0.43	-1.67
17,049–29,306	2,600	1,720	23.96	23.95	23.98	-0.01	-0.05	23.96	23.83	-0.13	-0.55
29,307 or more	2,800	1,880	26.03	25.79	26.40	-0.24	-0.92	26.03	27.02	0.99	3.82
Sampled baccalaureate recipient						(Effect size=‡)				(Effect size=‡)	
Baccalaureate recipient	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not baccalaureate recipient	10,370	6,900	99.88	99.87	99.91	-0.01	-0.01	99.88	99.87	-0.01	-0.01
Age as of Dec 31, 2015						(Effect size=‡)				(Effect size=‡)	
15–23	5,660	3,660	53.84	54.01	53.57	0.17	0.32	53.84	53.56	-0.27	-0.51
24–29	2,080	1,380	19.89	19.89	19.88	0.01	0.03	19.89	19.78	-0.10	-0.53
30 or older	2,660	1,810	26.03	26.09	25.92	0.07	0.26	26.03	26.65	0.62	2.40
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Institutional aid status						(Effect size=0.04)				(Effect size=0.07)	
Received	650	280	6.02	6.95	4.61	0.92*	15.30	6.02	6.53	0.51*	8.45
Did not receive	7,380	4,900	74.79	74.33	75.50	-0.46	-0.62	74.79	71.86	-2.93*	-3.92
Unknown	2,370	1,730	19.18	18.72	19.89	-0.46	-2.39	19.18	21.61	2.42*	12.64

See notes at end of table.

Table J-51. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in public 2-year institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
State aid status						(Effect size=0.07)				(Effect size=0.08)	
Received	2,250	990	20.38	23.28	15.90	2.91*	14.26	20.38	21.75	1.37*	6.75
Did not receive	6,140	4,420	63.46	61.08	67.12	-2.38*	-3.75	63.46	59.70	-3.76*	-5.92
Unknown	2,010	1,500	16.17	15.64	16.98	-0.53	-3.28	16.17	18.55	2.38*	14.73
Parent's highest level of education						(Effect size=0.02)				(Effect size=0.03)	
Middle school/junior high	400	180	5.25	5.37	5.02	0.14	2.67	5.25	5.42	0.16*	3.12
High school	2,380	1,250	33.42	32.55	35.22	-1.05*	-3.15	33.42	32.16	-1.27	-3.79
College or beyond	3,440	1,630	44.18	44.70	43.11	0.63	1.42	44.18	45.24	1.06*	2.39
Unknown	1,290	610	17.14	17.37	16.65	0.28	1.66	17.14	17.18	0.05*	0.28
Marital status						(Effect size=0.03)				(Effect size=0.03)	
Unmarried-single/divorce/widow	5,960	3,050	79.89	78.52	82.70	-1.65*	-2.06	79.89	78.76	-1.12*	-1.40
Married/remarried	1,140	440	14.50	15.59	12.25	1.31*	9.05	14.50	15.40	0.91*	6.25
Separated	140	60	1.92	2.05	1.67	0.15	7.76	1.92	2.03	0.10	5.39
Divorced or widowed	270	120	3.69	3.85	3.38	0.18	5.01	3.69	3.81	0.11*	3.03
Support children						(Effect size=‡)				(Effect size=‡)	
Has dependents	1,950	890	26.06	26.89	24.34	1.01*	3.86	26.06	26.56	0.50*	1.91
Does not have dependents	5,550	2,790	73.92	73.11	75.60	-0.98*	-1.33	73.92	73.44	-0.48*	-0.65
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Income ⁷						(Effect size=0.03)				(Effect size=0.03)	
\$0 or less	620	320	8.57	8.36	9.00	-0.25	-2.94	8.57	8.32	-0.26	-2.98
\$1–\$11,452	1,200	610	16.15	16.13	16.20	-0.03	-0.17	16.15	16.00	-0.15	-0.90
\$11,453–\$25,712	1,880	870	24.47	24.93	23.54	0.55	2.23	24.47	24.80	0.33*	1.34
\$25,713–\$53,968	1,870	870	24.65	25.29	23.33	0.77*	3.14	24.65	25.28	0.63*	2.54
\$53,969 or more	1,830	920	24.21	23.67	25.34	-0.66	-2.72	24.21	23.93	-0.28*	-1.16
Unknown	110	90	1.94	1.62	2.60	-0.38*	-19.73	1.94	1.67	-0.27	-13.96

See notes at end of table.

Table J-51. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in public 2-year institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Major						(Effect size=‡)				(Effect size=‡)	
Undecided	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Humanities	1,990	2,100	25.41	19.95	34.27	-5.64*	-22.18	25.41	19.98	-5.43*	-21.37
Social/behavioral sciences	450	150	3.79	4.62	2.44	0.86*	22.61	3.79	4.63	0.84*	22.09
Life sciences	470	270	4.63	4.61	4.67	-0.02	-0.45	4.63	4.63	-0.01	-0.14
Physical sciences/math	120	90	1.16	1.06	1.32	-0.10	-8.69	1.16	1.07	-0.09	-8.09
Computer/information science	460	190	4.19	4.71	3.36	0.53*	12.60	4.19	4.90	0.71*	16.89
Engineering	500	270	4.70	5.08	4.08	0.39*	8.38	4.70	5.16	0.46*	9.80
Education	500	130	4.04	5.19	2.18	1.19*	29.39	4.04	5.03	0.99*	24.43
Business/Management	1,330	640	12.47	13.56	10.71	1.12*	8.98	12.47	13.71	1.24*	9.94
Health	2,170	760	19.15	22.95	13.00	3.92*	20.46	19.15	22.35	3.20*	16.71
Vocational/technical	360	410	4.58	3.72	5.98	-0.89*	-19.44	4.58	3.80	-0.78*	-17.07
Other technical/professional	1,130	600	11.30	11.75	10.58	0.46	4.07	11.30	11.60	0.30*	2.67
Unknown	270	600	4.10	2.05	7.41	-2.11*	-51.55	4.10	2.26	-1.84*	-44.82
Degree program (undergraduate only)						(Effect size=‡)				(Effect size=‡)	
Postsecondary award, certificate or diploma of less than two academic years	830	810	9.18	7.99	11.00	-1.18*	-12.89	9.18	8.26	-0.92*	-10.02
Associate's degree	9,000	5,220	83.73	87.75	77.55	4.01*	4.79	83.73	87.13	3.40*	4.06
Postsecondary award, certificate, diploma, or degree program	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bachelor's degree or equivalent	570	700	6.19	4.26	9.17	-1.93*	-31.21	6.19	4.61	-1.58*	-25.50
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵						(Effect size=‡)				(Effect size=‡)	
1–59	2,870	1,910	28.56	28.50	28.66	-0.06	-0.22	28.56	28.99	0.43	1.51
60–70	2,510	1,730	25.00	24.40	25.92	-0.60	-2.40	25.00	24.93	-0.07	-0.27
71–81	2,570	1,720	25.41	25.25	25.66	-0.16	-0.63	25.41	24.79	-0.62	-2.44
82 or more	2,420	1,550	20.79	21.56	19.61	0.77*	3.68	20.79	21.01	0.22	1.04
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-51. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in public 2-year institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Number of first-time, full-time undergraduate students living on campus ⁸						(Effect size=0.02)				(Effect size=0.02)	
0–34	380	270	3.93	3.76	4.20	-0.17	-4.39	3.93	3.61	-0.33*	-8.34
35–97	290	200	2.91	2.98	2.79	0.07	2.55	2.91	2.87	-0.03	-1.15
98–182	420	240	3.86	4.03	3.59	0.17	4.51	3.86	3.87	0.01	0.37
183 or more	380	260	3.62	3.48	3.83	-0.14	-3.78	3.62	3.30	-0.32*	-8.74
Unknown	8,940	5,940	85.69	85.75	85.60	0.06	0.07	85.69	86.35	0.66*	0.77
Average amount of grant and scholarship aid received ⁸						(Effect size=‡)				(Effect size=‡)	
\$0–\$4,382	2,450	1,710	23.49	23.32	23.75	-0.17	-0.72	23.49	23.86	0.37	1.59
\$4,383–\$4,761	2,430	1,630	23.85	23.62	24.22	-0.24	-0.99	23.85	23.92	0.07	0.28
\$4,762–\$5,147	2,650	1,680	25.20	25.51	24.72	0.31	1.24	25.20	25.18	-0.02	-0.09
\$5,148 or more	2,840	1,890	27.22	27.26	27.17	0.03	0.13	27.22	26.76	-0.46	-1.68
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁸						(Effect size=‡)				(Effect size=‡)	
0–148	1,970	1,400	18.88	18.78	19.03	-0.10	-0.52	18.88	18.55	-0.33	-1.72
149–277	2,190	1,430	22.71	22.60	22.88	-0.11	-0.48	22.71	22.76	0.06	0.25
278–505	2,430	1,620	23.96	23.82	24.19	-0.14	-0.60	23.96	24.25	0.29	1.21
506 or more	3,790	2,460	34.22	34.51	33.77	0.29	0.86	34.22	34.16	-0.06	-0.17
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Veteran status						(Effect size=#)				(Effect size=#)	
Yes	610	410	5.12	5.06	5.22	-0.06	-1.22	5.12	5.11	-0.01	-0.26
No	9,790	6,500	94.88	94.94	94.78	0.06	0.07	94.88	94.89	0.01	0.01

See notes at end of table.

Table J-51. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in public 2-year institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Race						(Effect size=‡)				(Effect size=‡)	
White	4,820	3,430	49.02	47.57	51.25	-1.45*	-2.96	49.02	47.35	-1.67*	-3.41
Black or African American	1,690	910	14.35	15.38	12.77	1.03*	7.17	14.35	14.94	0.59*	4.11
Hispanic	2,530	1,450	23.10	24.47	20.98	1.38*	5.96	23.10	24.99	1.89*	8.18
Asian	740	430	6.24	6.40	6.01	0.15	2.44	6.24	6.69	0.45*	7.13
American Indian or Alaska Native	100	70	1.02	1.02	1.00	0.01	0.74	1.02	0.98	-0.04	-3.57
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
More than one race	420	100	3.19	4.22	1.60	1.03*	32.37	3.19	4.12	0.93*	29.33
Unknown	40	500	2.59	0.32	6.08	-2.26*	-87.49	2.59	0.32	-2.27*	-87.53
Sex						(Effect size=‡)				(Effect size=‡)	
Male	4,200	3,460	44.10	40.07	50.30	-4.02*	-9.13	44.10	41.22	-2.88*	-6.53
Female	6,200	3,330	55.43	59.93	48.52	4.49*	8.10	55.43	58.78	3.35*	6.04
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than 30 unweighted 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 calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Student base weight, adjusted for nonresponse.⁴ 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).⁵ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.⁶ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.⁷ Categories were defined by quartiles.⁸ Categories were defined by quartiles computed at the institution level.

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. "Base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Sample sizes rounded to the nearest 10 and, therefore, may not sum to total.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-52. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2015–16

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ⁵											
						(Effect size=‡)				(Effect size=‡)	
New England	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Mid East	560	410	5.07	4.98	5.20	-0.09	-1.72	5.07	4.78	-0.30	-5.82
Great Lakes	580	400	11.76	10.68	13.38	-1.07	-9.12	11.76	10.30	-1.46	-12.42
Plains	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southeast	1,560	860	52.72	52.44	53.16	-0.29	-0.55	52.72	52.22	-0.50	-0.95
Southwest	150	70	6.45	6.74	6.00	0.29	4.57	6.45	6.49	0.05	0.76
Rocky Mountains	270	60	3.10	3.49	2.52	0.39	12.44	3.10	3.48	0.38	12.10
Far West	360	220	19.80	20.51	18.73	0.71	3.57	19.80	21.65	1.85*	9.35
Outlying areas	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Student type											
						(Effect size=‡)				(Effect size=‡)	
Undergraduate student	3,460	2,020	99.44	99.16	99.87	-0.28*	-0.28	99.44	99.18	-0.26*	-0.26
Graduate student	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
First professional student	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Federal aid status											
						(Effect size=0.09)				(Effect size=0.06)	
Received	2,040	910	50.84	55.22	44.20	4.38*	8.62	50.84	51.37	0.53	1.04
Did not receive	1,180	860	40.09	37.31	44.31	-2.78*	-6.94	40.09	38.16	-1.93*	-4.81
Unknown	280	270	9.07	7.47	11.49	-1.60	-17.63	9.07	10.47	1.40	15.45
Pell Grant status											
						(Effect size=0.07)				(Effect size=#)	
Received	1,420	630	39.38	42.75	34.31	3.35*	8.52	39.38	39.53	0.16	0.40
Did not receive	2,040	1,390	60.62	57.25	65.69	-3.35*	-5.53	60.62	60.47	-0.16	-0.26
Total Pell amount received ⁶											
						(Effect size=0.08)				(Effect size=0.04)	
None	2,040	1,390	60.62	57.25	65.69	-3.35*	-5.53	60.62	60.47	-0.16	-0.26
\$1–\$2,888	480	230	13.50	13.60	13.35	0.10	0.75	13.50	12.59	-0.91	-6.76
\$2,889–\$5,774	610	250	17.03	19.59	13.18	2.55*	14.96	17.03	18.12	1.08	6.37
\$5,775	330	140	8.85	9.55	7.78	0.71*	7.97	8.85	8.83	-0.02	-0.18

See notes at end of table.

Table J-52. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Stafford Loan status						(Effect size=0.07)				(Effect size=0.02)	
Received	1,280	540	24.11	27.14	19.52	3.03*	12.57	24.11	25.11	1.00	4.17
Did not receive	2,220	1,490	75.89	72.86	80.48	-3.03*	-3.99	75.89	74.89	-1.00	-1.32
Total Stafford amount received ⁷						(Effect size=0.09)				(Effect size=0.06)	
None	2,220	1,490	75.89	72.86	80.48	-3.03*	-3.99	75.89	74.89	-1.00	-1.32
\$1–\$3,837	320	130	6.94	8.06	5.24	1.12*	16.15	6.94	7.46	0.52	7.45
\$3,838–\$6,000	330	140	6.70	8.25	4.35	1.55*	23.14	6.70	7.63	0.93*	13.90
\$6,001–\$8,500	300	150	4.20	3.79	4.83	-0.41	-9.86	4.20	3.50	-0.70	-16.58
\$8,501 or more	330	130	6.27	7.04	5.10	0.77	12.33	6.27	6.52	0.25	4.02
Institution total enrollment ⁸						(Effect size=0.06)				(Effect size=0.07)	
1–4,827	840	600	12.19	11.06	13.89	-1.12	-9.22	12.19	10.50	-1.69	-13.88
4,828–10,941	920	490	21.84	20.36	24.07	-1.47	-6.75	21.84	20.55	-1.29	-5.90
10,942–41,815	860	500	28.63	30.25	26.16	1.63	5.68	28.63	30.60	1.97	6.89
41,816 or more	870	440	37.35	38.32	35.88	0.97	2.60	37.35	38.36	1.01	2.70
Sampled baccalaureate recipient						(Effect size=0.01)				(Effect size=#)	
Baccalaureate recipient	1,770	830	3.10	3.22	2.92	0.12	3.81	3.10	3.06	-0.04	-1.34
Not baccalaureate recipient	1,730	1,210	96.90	96.78	97.08	-0.12	-0.12	96.90	96.94	0.04	0.04
Age as of Dec 31, 2015						(Effect size=‡)				(Effect size=‡)	
15–23	1,610	1,050	53.23	51.93	55.20	-1.30	-2.44	53.23	51.49	-1.74	-3.28
24–29	820	440	20.53	21.20	19.51	0.67	3.27	20.53	20.98	0.45	2.19
30 or older	1,060	490	25.25	26.87	22.79	1.62	6.42	25.25	27.54	2.29*	9.06
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Institutional aid status						(Effect size=0.06)				(Effect size=0.06)	
Received	540	200	10.03	11.82	7.32	1.79*	17.82	10.03	11.08	1.05	10.44
Did not receive	2,440	1,440	75.52	74.65	76.85	-0.87	-1.16	75.52	72.81	-2.71*	-3.59
Unknown	520	400	14.44	13.53	15.83	-0.92	-6.34	14.44	16.11	1.66	11.50

See notes at end of table.

Table J-52. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
State aid status						(Effect size=0.04)				(Effect size=0.04)	
Received	570	260	15.09	16.04	13.64	0.96	6.34	15.09	14.96	-0.13	-0.84
Did not receive	2,420	1,380	70.86	71.08	70.53	0.22	0.31	70.86	69.56	-1.31	-1.85
Unknown	510	400	14.05	12.87	15.83	-1.18	-8.37	14.05	15.48	1.43	10.21
Parent's highest level of education						(Effect size=0.04)				(Effect size=0.03)	
Middle school/junior high	80	30	4.00	4.48	3.12	0.54	13.46	4.00	4.51	0.51	12.76
High school	860	400	36.06	36.58	35.12	0.58	1.61	36.06	36.09	0.03	0.09
College or beyond	1,310	570	47.80	46.09	50.95	-1.93	-4.04	47.80	46.71	-1.10	-2.30
Unknown	250	120	12.13	12.85	10.81	0.81	6.69	12.13	12.69	0.55	4.57
Marital status						(Effect size=‡)				(Effect size=‡)	
Unmarried-single/divorce/widow	1,820	880	79.44	77.54	82.91	-2.14	-2.69	79.44	77.84	-1.60	-2.02
Married/remarried	510	180	13.89	15.27	11.38	1.55	11.13	13.89	15.07	1.17	8.44
Separated	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Divorced or widowed	130	40	4.33	5.02	3.07	0.78	17.90	4.33	4.96	0.63	14.50
Support children						(Effect size=‡)				(Effect size=‡)	
Has dependents	650	250	22.64	23.91	20.32	1.43	6.31	22.64	23.60	0.95	4.22
Does not have dependents	1,840	860	77.36	76.09	79.68	-1.43	-1.85	77.36	76.40	-0.95	-1.23
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Income ⁷						(Effect size=‡)				(Effect size=‡)	
\$0 or less	140	90	6.78	6.01	8.20	-0.87	-12.82	6.78	5.95	-0.83	-12.25
\$1–\$13,300	470	190	18.71	19.52	17.21	0.92	4.92	18.71	19.34	0.63	3.38
\$13,301–\$29,898	630	270	28.16	29.67	25.38	1.71	6.06	28.16	29.65	1.49*	5.30
\$29,899–\$63,435	630	270	26.20	24.82	28.74	-1.56	-5.95	26.20	24.75	-1.45	-5.54
\$63,436 or more	610	290	18.60	18.86	18.13	0.29	1.55	18.60	19.17	0.57	3.07
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-52. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Major						(Effect size=‡)				(Effect size=‡)	
Undecided	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Humanities	480	550	26.12	18.87	37.35	-7.35*	-28.13	26.12	18.96	-7.15*	-27.39
Social/behavioral sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Life sciences	170	50	2.74	3.68	1.28	0.95*	34.80	2.74	3.60	0.86*	31.21
Physical sciences/math	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Computer/information science	330	100	4.14	5.29	2.36	1.17*	28.15	4.14	5.25	1.11*	26.85
Engineering	170	60	4.42	5.33	3.02	0.92	20.82	4.42	5.32	0.90	20.31
Education	360	90	4.15	5.46	2.11	1.33*	32.16	4.15	5.21	1.07*	25.71
Business/Management	550	170	12.11	14.98	7.65	2.91*	24.06	12.11	14.74	2.64*	21.77
Health	670	240	18.11	22.25	11.70	4.19*	23.16	18.11	22.23	4.12*	22.73
Vocational/technical	60	40	3.34	3.14	3.65	-0.20	-6.09	3.34	3.14	-0.20	-5.89
Other technical/professional	330	170	9.43	10.95	7.07	1.54	16.36	9.43	10.95	1.52*	16.14
Unknown	110	320	10.88	3.36	22.53	-7.62*	-70.06	10.88	3.48	-7.39*	-67.96
Degree program (undergraduate only)						(Effect size=‡)				(Effect size=‡)	
Postsecondary award, certificate or diploma of less than two academic years	90	100	5.97	5.07	7.31	-0.89	-14.89	5.97	5.52	-0.45	-7.53
Associate's degree	1,250	890	68.36	67.35	69.89	-1.01	-1.48	68.36	66.80	-1.56	-2.29
Postsecondary award, certificate, diploma, or degree program	2,060	820	22.30	26.37	16.18	4.05*	18.16	22.30	26.29	3.99*	17.90
Bachelor's degree or equivalent	60	180	2.37	1.21	4.10	-1.15*	-48.55	2.37	1.39	-0.97*	-41.20
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵						(Effect size=0.05)				(Effect size=0.06)	
1–63	850	450	25.49	27.09	23.06	1.60	6.29	25.49	28.01	2.52*	9.89
64–73	1,010	650	34.78	35.12	34.26	0.34	0.99	34.78	34.74	-0.03	-0.10
74–82	940	500	28.35	26.81	30.69	-1.54	-5.44	28.35	26.60	-1.75	-6.17
83 or more	700	440	11.38	10.97	11.99	-0.41	-3.57	11.38	10.64	-0.74	-6.49

See notes at end of table.

Table J-52. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non- respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non- respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Number of first-time, full-time undergraduate students living on campus ⁸						(Effect size=0.03)				(Effect size=0.03)	
0–59	360	100	5.19	5.53	4.68	0.34	6.55	5.19	5.26	0.06	1.24
60–193	190	110	1.83	1.97	1.63	0.14	7.36	1.83	1.91	0.07	3.98
194–424	520	370	5.17	5.62	4.48	0.45	8.73	5.17	5.60	0.43	8.34
425 or more	250	150	3.99	3.76	4.33	-0.23	-5.68	3.99	3.58	-0.41	-10.30
Unknown	2,180	1,310	83.82	83.12	84.88	-0.70	-0.84	83.82	83.66	-0.16	-0.19
Average amount of grant and scholarship aid received ⁸						(Effect size=0.04)				(Effect size=0.03)	
\$0–\$4,381	800	430	24.56	24.35	24.87	-0.21	-0.85	24.56	23.84	-0.72	-2.93
\$4,382–\$4,960	890	450	22.86	24.43	20.47	1.57	6.88	22.86	24.03	1.18	5.15
\$4,961–\$5,727	1,090	650	40.48	39.31	42.25	-1.17	-2.88	40.48	40.14	-0.34	-0.83
\$5,728 or more	720	510	12.11	11.91	12.41	-0.20	-1.63	12.11	11.99	-0.12	-1.00
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁸						(Effect size=0.04)				(Effect size=0.04)	
0–94	410	300	12.47	11.45	14.03	-1.03	-8.22	12.47	11.98	-0.50	-3.98
95–234	800	500	15.15	14.52	16.11	-0.63	-4.19	15.15	14.05	-1.10	-7.24
235–398	1,000	550	18.49	18.65	18.24	0.16	0.88	18.49	18.83	0.34	1.83
399 or more	1,300	690	53.89	55.38	51.62	1.50	2.78	53.89	55.14	1.25	2.33
Veteran status						(Effect size=#)				(Effect size=#)	
Yes	280	140	5.19	5.13	5.29	-0.06	-1.17	5.19	5.27	0.07	1.38
No	3,220	1,900	94.81	94.87	94.71	0.06	0.06	94.81	94.73	-0.07	-0.08

See notes at end of table.

Table J-52. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Race						(Effect size=‡)				(Effect size=‡)	
White	2,200	1,090	49.05	48.93	49.22	-0.12	-0.24	49.05	48.85	-0.20	-0.40
Black or African American	390	160	11.53	12.77	9.66	1.23*	10.70	11.53	12.58	1.04	9.04
Hispanic	590	280	27.10	29.67	23.21	2.57	9.48	27.10	29.27	2.17	8.00
Asian	140	120	3.73	3.49	4.10	-0.24	-6.53	3.73	4.04	0.31	8.24
American Indian or Alaska Native	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
More than one race	120	40	3.04	3.36	2.56	0.32	10.46	3.04	3.37	0.33	10.75
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Sex						(Effect size=‡)				(Effect size=‡)	
Male	1,410	920	44.18	40.57	49.65	-3.61*	-8.16	44.18	41.14	-3.04*	-6.89
Female	2,090	1,070	55.19	59.43	48.77	4.23*	7.67	55.19	58.86	3.67*	6.65
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than 30 unweighted 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 calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Student base weight, adjusted for nonresponse.⁴ 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).⁵ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.⁶ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.⁷ Categories were defined by quartiles.⁸ Categories were defined by quartiles computed at the institution level.

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. "Base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Sample sizes rounded to the nearest 10 and, therefore, may not sum to total.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-53. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2015–16

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ⁵											
						(Effect size=0.05)				(Effect size=0.05)	
New England	280	160	6.79	6.39	7.68	-0.40	-5.91	6.79	6.43	-0.36	-5.35
Mid East	1,440	670	30.87	30.12	32.53	-0.75	-2.44	30.87	30.68	-0.19	-0.60
Great Lakes	430	140	8.22	9.31	5.83	1.08	13.18	8.22	9.01	0.79	9.58
Plains	410	200	10.41	10.10	11.10	-0.31	-2.99	10.41	9.71	-0.70	-6.70
Southeast	550	230	13.68	14.01	12.95	0.33	2.43	13.68	14.01	0.33	2.38
Southwest	290	130	7.52	7.64	7.25	0.12	1.61	7.52	7.66	0.15	1.96
Rocky Mountains	300	120	6.85	6.43	7.77	-0.42	-6.11	6.85	6.27	-0.58	-8.43
Far West	710	260	12.89	13.53	11.48	0.64	4.96	12.89	13.74	0.85	6.61
Outlying areas	60	30	2.76	2.47	3.41	-0.29*	-10.58	2.76	2.47	-0.29*	-10.45
Student type											
						(Effect size=‡)				(Effect size=‡)	
Undergraduate student	3,440	1,540	89.91	89.93	89.86	0.02	0.02	89.91	90.03	0.12	0.13
Graduate student	1,040	410	10.09	10.07	10.14	-0.02	-0.22	10.09	9.97	-0.12	-1.17
First professional student	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Federal aid status											
						(Effect size=0.09)				(Effect size=0.07)	
Received	2,720	880	60.19	64.52	50.63	4.34*	7.20	60.19	61.33	1.15	1.90
Did not receive	1,200	690	27.96	25.06	34.35	-2.90*	-10.38	27.96	25.11	-2.85*	-10.20
Unknown	570	380	11.86	10.42	15.02	-1.43*	-12.10	11.86	13.56	1.71*	14.38
Pell Grant status											
						(Effect size=0.06)				(Effect size=0.02)	
Received	1,460	480	38.93	42.03	32.08	3.10*	7.97	38.93	39.75	0.83	2.12
Did not receive	1,980	1,060	61.07	57.97	67.92	-3.10*	-5.08	61.07	60.25	-0.83	-1.35
Total Pell amount received ⁶											
						(Effect size=0.06)				(Effect size=0.02)	
None	1,980	1,060	61.07	57.97	67.92	-3.10*	-5.08	61.07	60.25	-0.83	-1.35
\$1–\$2,888	460	140	10.38	10.90	9.23	0.52	5.02	10.38	10.31	-0.07	-0.65
\$2,889–\$574	540	190	15.21	16.48	12.41	1.27*	8.34	15.21	15.59	0.38	2.48
\$5,775	460	140	13.34	14.65	10.44	1.31*	9.85	13.34	13.85	0.52	3.88

See notes at end of table.

Table J-53. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Stafford Loan status						(Effect size=0.08)				(Effect size=0.03)	
Received	1,890	610	42.47	46.18	34.28	3.71*	8.75	42.47	43.74	1.28	3.00
Did not receive	2,590	1,340	57.53	53.82	65.72	-3.71*	-6.46	57.53	56.26	-1.28	-2.22
Total Stafford amount received ⁷						(Effect size=0.08)				(Effect size=0.03)	
None	2,590	1,340	57.53	53.82	65.72	-3.71*	-6.46	57.53	56.26	-1.28	-2.22
\$1–\$4,744	470	160	10.60	11.86	7.82	1.26*	11.89	10.60	11.23	0.63*	5.97
\$4,745–\$6,500	470	160	14.12	15.17	11.81	1.05	7.42	14.12	14.36	0.24	1.70
\$6,501–\$10,000	480	150	10.11	10.59	9.05	0.48	4.75	10.11	10.03	-0.08	-0.76
\$10,001 or more	470	140	7.65	8.57	5.60	0.93*	12.11	7.65	8.12	0.48	6.25
Institution total enrollment ⁸						(Effect size=0.05)				(Effect size=0.03)	
1–6,708	1,020	420	33.10	34.28	30.50	1.18	3.57	33.10	33.40	0.29	0.89
6,709–10,351	1,190	440	22.18	23.36	19.56	1.18	5.34	22.18	22.95	0.77	3.49
10,352–16,870	1,160	520	23.39	22.89	24.52	-0.51	-2.18	23.39	23.61	0.21	0.90
16,871 or more	1,110	570	21.33	19.47	25.42	-1.86*	-8.70	21.33	20.05	-1.28	-6.00
Sampled baccalaureate recipient						(Effect size=0.01)				(Effect size=#)	
Baccalaureate recipient	1,780	670	13.45	13.82	12.64	0.37	2.75	13.45	13.40	-0.05	-0.41
Not baccalaureate recipient	2,700	1,280	86.55	86.18	87.36	-0.37	-0.43	86.55	86.60	0.05	0.06
Age as of Dec 31, 2015						(Effect size=‡)				(Effect size=‡)	
15–23	2,240	950	62.51	63.42	60.50	0.91	1.46	62.51	62.41	-0.10	-0.16
24–29	1,070	440	17.93	17.46	18.98	-0.48	-2.65	17.93	17.96	0.03	0.14
30 or older	1,170	520	19.09	19.13	19.01	0.04	0.19	19.09	19.64	0.55	2.86
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Institutional aid status						(Effect size=0.04)				(Effect size=0.05)	
Received	650	210	16.36	17.95	12.87	1.58*	9.68	16.36	17.17	0.80	4.90
Did not receive	2,450	1,060	54.95	54.17	56.67	-0.78	-1.42	54.95	52.67	-2.28*	-4.14
Unknown	1,380	680	28.69	27.88	30.46	-0.80	-2.80	28.69	30.16	1.47	5.14

See notes at end of table.

Table J-53. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
State aid status						(Effect size=0.05)				(Effect size=0.05)	
Received	760	230	19.75	21.73	15.38	1.98*	10.05	19.75	20.63	0.88	4.46
Did not receive	2,370	1,050	52.66	51.52	55.17	-1.14	-2.17	52.66	50.27	-2.38*	-4.53
Unknown	1,350	670	27.59	26.75	29.45	-0.84	-3.06	27.59	29.10	1.50	5.45
Parent's highest level of education						(Effect size=‡)				(Effect size=‡)	
Middle school/junior high	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
High school	880	310	27.86	27.15	29.83	-0.84	-3.00	27.86	26.90	-0.96	-3.43
College or beyond	1,770	580	58.26	58.43	57.78	0.20	0.35	58.26	58.76	0.50	0.86
Unknown	380	110	11.07	11.33	10.33	0.31	2.82	11.07	11.24	0.17	1.57
Marital status						(Effect size=‡)				(Effect size=‡)	
Unmarried-single/divorce/widow	2,540	850	86.54	86.00	88.02	-0.63	-0.73	86.54	86.11	-0.43	-0.50
Married/remarried	480	130	10.95	11.45	9.55	0.59	5.41	10.95	11.36	0.42*	3.80
Separated	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Divorced or widowed	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Support children						(Effect size=‡)				(Effect size=‡)	
Has dependents	550	170	13.62	13.52	13.88	-0.11	-0.84	13.62	13.40	-0.22	-1.59
Does not have dependents	2,580	860	86.38	86.48	86.12	0.11	0.13	86.38	86.60	0.22	0.25
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Income ⁷						(Effect size=‡)				(Effect size=‡)	
\$0 or less	190	70	5.71	5.32	6.80	-0.46	-8.06	5.71	5.31	-0.40	-7.05
\$1–\$13,463	570	190	13.97	13.88	14.24	-0.11	-0.80	13.97	13.84	-0.13	-0.95
\$13,464–\$33,912	770	270	24.51	24.55	24.38	0.05	0.22	24.51	24.42	-0.09	-0.38
\$33,913–\$75,000	810	220	25.97	27.26	22.41	1.51*	5.82	25.97	27.25	1.28*	4.92
\$75,001 or more	770	270	28.51	27.68	30.82	-0.98	-3.44	28.51	27.81	-0.69	-2.44
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-53. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Major						(Effect size=‡)				(Effect size=‡)	
Undecided	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Humanities	300	170	11.25	10.57	12.81	-0.70	-6.22	11.25	10.31	-0.94	-8.35
Social/behavioral sciences	390	120	10.26	11.32	7.85	1.08*	10.54	10.26	11.23	0.97*	9.45
Life sciences	430	160	10.89	11.09	10.41	0.21	1.96	10.89	11.04	0.15	1.40
Physical sciences/math	80	50	2.54	2.13	3.47	-0.42	-16.47	2.54	2.09	-0.45	-17.54
Computer/information science	180	50	4.36	5.25	2.33	0.91*	20.87	4.36	5.20	0.84*	19.30
Engineering	170	70	4.58	4.22	5.42	-0.37	-8.17	4.58	4.19	-0.39	-8.56
Education	390	120	6.90	7.67	5.14	0.79*	11.43	6.90	7.44	0.54*	7.85
Business/Management	500	220	18.11	18.13	18.06	0.02	0.11	18.11	18.64	0.53	2.95
Health	340	80	9.93	11.19	7.04	1.30*	13.06	9.93	11.11	1.19*	11.94
Vocational/technical	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other technical/professional	460	160	12.77	13.38	11.39	0.62	4.87	12.77	13.22	0.45	3.52
Unknown	140	270	7.26	3.59	15.67	-3.77*	-51.92	7.26	3.96	-3.31*	-45.53
Degree program (undergraduate only)						(Effect size=‡)				(Effect size=‡)	
Postsecondary award, certificate or diploma of less than two academic years	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Associate's degree	90	60	3.71	3.06	5.15	-0.65*	-17.59	3.71	3.05	-0.65*	-17.61
Postsecondary award, certificate, diploma, or degree program	3,300	1,390	93.45	95.31	89.35	1.86*	1.99	93.45	94.85	1.40*	1.50
Bachelor's degree or equivalent	40	60	1.92	0.81	4.38	-1.11*	-58.00	1.92	1.30	-0.63	-32.61
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁸						(Effect size=0.03)				(Effect size=0.03)	
1–66	990	400	22.05	21.91	22.36	-0.14	-0.63	22.05	21.48	-0.57	-2.61
67–77	1,140	460	26.82	27.80	24.67	0.98	3.64	26.82	27.89	1.06	3.97
78–87	1,210	610	24.56	23.68	26.50	-0.88	-3.59	24.56	24.00	-0.56	-2.28
88 or more	1,000	410	23.14	23.43	22.52	0.28	1.23	23.14	23.47	0.32	1.40
None or unknown	150	70	3.42	3.18	3.95	-0.24	-7.04	3.42	3.17	-0.25	-7.41

See notes at end of table.

Table J-53. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Number of first-time, full-time undergraduate students living on campus ⁸						(Effect size=0.04)				(Effect size=0.03)	
0–237	1,260	590	25.68	24.74	27.75	-0.94	-3.66	25.68	25.31	-0.37	-1.43
238–482	640	260	18.81	19.81	16.60	1.00	5.33	18.81	19.40	0.59	3.13
483–710	900	340	14.48	15.04	13.25	0.56	3.85	14.48	15.30	0.82	5.64
711 or more	920	370	17.64	17.93	17.00	0.29	1.64	17.64	17.43	-0.20	-1.16
Unknown	760	380	23.40	22.49	25.40	-0.91	-3.89	23.40	22.56	-0.83	-3.57
Average amount of grant and scholarship aid received ⁸						(Effect size=0.04)				(Effect size=0.05)	
\$0–\$5,547	1,040	460	23.26	22.40	25.14	-0.86	-3.68	23.26	22.15	-1.11	-4.76
\$5,548–\$6,971	950	490	24.69	23.91	26.43	-0.79	-3.19	24.69	23.72	-0.97	-3.94
\$6,972–\$7,744	1,160	490	25.07	25.40	24.35	0.33	1.31	25.07	25.77	0.70	2.79
\$7,745 or more	1,180	430	23.56	25.12	20.13	1.56*	6.61	23.56	25.19	1.63*	6.93
Unknown	150	70	3.42	3.18	3.95	-0.24	-7.04	3.42	3.17	-0.25	-7.41
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁸						(Effect size=0.04)				(Effect size=0.03)	
0–107	850	340	25.04	26.45	21.95	1.40	5.60	25.04	26.01	0.97	3.88
108–193	800	370	19.61	19.40	20.08	-0.21	-1.09	19.61	19.17	-0.44	-2.23
194–321	1,170	470	21.60	21.65	21.49	0.05	0.23	21.60	21.11	-0.49	-2.27
322 or more	1,510	690	30.33	29.33	32.53	-1.00	-3.29	30.33	30.53	0.21	0.69
Unknown	150	70	3.42	3.18	3.95	-0.24	-7.04	3.42	3.17	-0.25	-7.41
Veteran status						(Effect size=0.01)				(Effect size=0.01)	
Yes	430	180	3.85	3.98	3.57	0.13	3.26	3.85	4.00	0.15	3.85
No	4,050	1,770	96.15	96.02	96.43	-0.13	-0.13	96.15	96.00	-0.15	-0.15

See notes at end of table.

Table J-53. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Race						(Effect size=‡)				(Effect size=‡)	
White	2,610	1,050	54.47	56.04	51.01	1.57	2.88	54.47	55.39	0.92	1.69
Black or African American	550	210	12.48	13.37	10.50	0.90	7.18	12.48	13.62	1.14*	9.14
Hispanic	740	250	17.24	17.97	15.65	0.72	4.19	17.24	18.14	0.89	5.17
Asian	350	150	7.09	6.93	7.43	-0.15	-2.17	7.09	7.24	0.15	2.10
American Indian or Alaska Native	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
More than one race	160	30	2.99	3.62	1.62	0.62*	20.82	2.99	3.54	0.55*	18.41
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Sex						(Effect size=‡)				(Effect size=‡)	
Male	1,900	890	44.42	43.04	47.47	-1.38	-3.12	44.42	43.51	-0.91	-2.04
Female	2,580	1,010	54.79	56.96	50.01	2.17*	3.96	54.79	56.49	1.69*	3.09
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than 30 unweighted 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 calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Student base weight, adjusted for nonresponse.⁴ 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).⁵ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.⁶ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.⁷ Categories were defined by quartiles.⁸ Categories were defined by quartiles computed at the institution level.

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. "Base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Sample sizes rounded to the nearest 10 and, therefore, may not sum to total.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-54. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in public 4-year, doctorate-granting institutions: 2015–16

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ⁵						(Effect size=±)				(Effect size=±)	
New England	520	230	2.86	2.76	3.07	-0.10	-3.49	2.86	2.72	-0.14	-4.78
Mid East	2,060	970	12.12	11.90	12.59	-0.22	-1.78	12.12	12.36	0.24	1.95
Great Lakes	3,330	1,430	17.08	16.85	17.56	-0.22	-1.30	17.08	16.63	-0.45	-2.61
Plains	1,270	430	6.83	7.14	6.14	0.31	4.58	6.83	6.86	0.03	0.42
Southeast	5,970	2,640	28.29	28.23	28.41	-0.06	-0.20	28.29	28.59	0.30	1.07
Southwest	2,590	1,100	13.52	13.39	13.80	-0.13	-0.94	13.52	13.16	-0.35	-2.60
Rocky Mountains	720	270	4.72	4.83	4.47	0.11	2.33	4.72	4.84	0.13	2.66
Far West	2,610	1,000	14.35	14.63	13.74	0.28	1.94	14.35	14.58	0.23	1.59
Outlying areas	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Student type						(Effect size=0.04)				(Effect size=0.03)	
Undergraduate student	13,790	6,480	77.80	76.30	81.08	-1.50*	-1.92	77.80	76.78	-1.02*	-1.31
Graduate student	4,760	1,460	19.58	20.76	16.98	1.18*	6.03	19.58	20.37	0.79*	4.06
First professional student	580	140	2.63	2.94	1.94	0.31*	11.95	2.63	2.85	0.22*	8.43
Federal aid status						(Effect size=0.07)				(Effect size=0.07)	
Received	10,240	3,670	52.43	55.90	44.80	3.47*	6.62	52.43	52.80	0.38	0.72
Did not receive	7,290	3,400	38.98	36.26	44.97	-2.72*	-6.98	38.98	36.80	-2.19*	-5.61
Unknown	1,590	1,010	8.59	7.84	10.23	-0.75*	-8.70	8.59	10.40	1.81*	21.08
Pell Grant status						(Effect size=0.07)				(Effect size=0.01)	
Received	4,980	1,730	32.96	36.03	26.59	2.95*	8.96	32.96	33.62	0.67	2.03
Did not receive	8,800	4,740	67.04	63.97	73.41	-2.95*	-4.40	67.04	66.38	-0.67*	-1.00
Total Pell amount received ⁶						(Effect size=0.07)				(Effect size=0.02)	
None	8,800	4,740	67.04	63.97	73.41	-2.95*	-4.40	67.04	66.38	-0.67*	-1.00
\$1–\$2,888	1,390	540	8.48	8.91	7.59	0.41*	4.88	8.48	8.32	-0.16	-1.89
\$2,889–\$5,774	1,980	690	13.19	14.52	10.45	1.27*	9.65	13.19	13.55	0.36	2.72
\$5,775	1,610	510	11.29	12.60	8.56	1.26*	11.20	11.29	11.76	0.47	4.16

See notes at end of table.

Table J-54. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in public 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Stafford Loan status						(Effect size=0.06)				(Effect size=#)	
Received	8,000	2,830	41.94	44.85	35.55	2.90*	6.93	41.94	42.14	0.20	0.48
Did not receive	11,130	5,250	58.06	55.15	64.45	-2.90*	-5.00	58.06	57.86	-0.20	-0.35
Total Stafford amount received ⁷						(Effect size=0.06)				(Effect size=0.01)	
None	11,130	5,250	58.06	55.15	64.45	-2.90*	-5.00	58.06	57.86	-0.20	-0.35
\$1–\$5,500	2,880	1,080	15.91	16.81	13.93	0.90*	5.66	15.91	15.80	-0.12	-0.73
\$5,501–\$7,358	1,070	390	5.91	6.39	4.84	0.48*	8.21	5.91	6.00	0.10	1.67
\$7,359–\$10,500	1,990	760	10.31	10.89	9.03	0.58*	5.64	10.31	10.24	-0.07	-0.68
\$10,501 or more	2,060	610	9.81	10.75	7.75	0.94*	9.55	9.81	10.10	0.29	2.95
Institution total enrollment ⁸						(Effect size=0.01)				(Effect size=0.01)	
1–16,504	4,280	1,870	20.83	20.83	20.83	#	-0.01	20.83	20.47	-0.36	-1.73
16,505–27,396	4,710	1,970	24.60	24.57	24.66	-0.03	-0.12	24.60	24.40	-0.20	-0.82
27,397–38,488	5,180	2,080	26.99	27.22	26.48	0.23	0.85	26.99	27.32	0.33	1.23
38,489 or more	4,960	2,160	27.58	27.39	28.02	-0.20	-0.72	27.58	27.81	0.23	0.83
Sampled baccalaureate recipient						(Effect size=0.01)				(Effect size=#)	
Baccalaureate recipient	6,720	2,670	13.65	13.94	13.00	0.29*	2.15	13.65	13.52	-0.13	-0.98
Not baccalaureate recipient	12,410	5,410	86.35	86.06	87.00	-0.29*	-0.34	86.35	86.48	0.13	0.16
Age as of Dec 31, 2015						(Effect size=‡)				(Effect size=‡)	
15–23	10,510	4,740	63.32	63.15	63.68	-0.17	-0.26	63.32	63.04	-0.28	-0.44
24–29	4,400	1,630	19.59	20.33	17.98	0.73*	3.74	19.59	20.23	0.64*	3.26
30 or older	4,210	1,410	16.20	16.51	15.50	0.32	1.95	16.20	16.73	0.53*	3.25
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Institutional aid status						(Effect size=0.07)				(Effect size=0.06)	
Received	6,660	1,830	31.02	34.35	23.69	3.33*	10.75	31.02	32.92	1.90*	6.14
Did not receive	9,590	4,530	54.43	52.11	59.54	-2.33*	-4.27	54.43	51.30	-3.13*	-5.76
Unknown	2,870	1,730	14.55	13.54	16.77	-1.01*	-6.93	14.55	15.78	1.23*	8.44

See notes at end of table.

Table J-54. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in public 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
State aid status						(Effect size=0.05)				(Effect size=0.05)	
Received	3,510	1,070	18.62	20.59	14.30	1.96*	10.55	18.62	19.45	0.83*	4.45
Did not receive	12,650	5,300	66.79	65.68	69.21	-1.10*	-1.65	66.79	64.60	-2.19*	-3.27
Unknown	2,960	1,710	14.59	13.73	16.48	-0.86*	-5.89	14.59	15.95	1.36*	9.30
Parent's highest level of education						(Effect size=0.01)				(Effect size=0.01)	
Middle school/junior high	340	130	2.78	2.76	2.82	-0.02	-0.65	2.78	2.76	-0.02	-0.87
High school	3,110	1,120	25.02	24.69	25.93	-0.39	-1.54	25.02	24.45	-0.58	-2.31
College or beyond	7,590	2,790	63.76	63.85	63.51	0.11	0.16	63.76	64.18	0.42*	0.66
Unknown	980	320	8.44	8.70	7.74	0.30	3.54	8.44	8.62	0.18	2.13
Marital status						(Effect size=0.02)				(Effect size=0.02)	
Unmarried-single/divorce/widow	10,160	3,810	88.15	87.65	89.53	-0.59*	-0.67	88.15	87.75	-0.40	-0.45
Married/remarried	1,470	420	9.47	10.03	7.94	0.65*	6.92	9.47	9.94	0.47*	5.00
Separated	70	30	0.55	0.52	0.62	-0.03	-5.49	0.55	0.52	-0.03	-5.78
Divorced or widowed	320	90	1.83	1.80	1.92	-0.04	-1.97	1.83	1.79	-0.04	-2.41
Support children						(Effect size=‡)				(Effect size=‡)	
Has dependents	1,550	490	10.26	10.59	9.36	0.38	3.74	10.26	10.48	0.23	2.22
Does not have dependents	10,470	3,870	89.74	89.41	90.64	-0.38	-0.43	89.74	89.52	-0.23	-0.25
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Income ⁷						(Effect size=0.03)				(Effect size=0.02)	
\$0 or less	690	250	5.54	5.56	5.50	0.02	0.35	5.54	5.51	-0.03	-0.54
\$1–\$15,046	2,370	760	17.54	17.86	16.65	0.38	2.15	17.54	17.73	0.20	1.12
\$15,047–\$41,502	3,050	1,020	24.86	25.22	23.90	0.41	1.67	24.86	25.08	0.22	0.88
\$41,503–\$94,062	3,010	1,060	25.37	25.94	23.82	0.66*	2.61	25.37	25.90	0.52*	2.07
\$94,063 or more	2,830	1,240	25.92	24.75	29.10	-1.36*	-5.26	25.92	25.08	-0.84	-3.23
Unknown	70	40	0.77	0.67	1.02	-0.11	-14.35	0.77	0.69	-0.07	-9.54

See notes at end of table.

Table J-54. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in public 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Major						(Effect size=‡)				(Effect size=‡)	
Undecided	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Humanities	1,230	820	10.88	9.54	13.70	-1.30*	-11.96	10.88	9.54	-1.34*	-12.28
Social/behavioral sciences	1,640	660	10.80	11.24	9.89	0.42*	3.91	10.80	11.19	0.38	3.56
Life sciences	1,960	810	13.54	13.98	12.61	0.43	3.17	13.54	13.77	0.24	1.76
Physical sciences/math	390	190	2.98	2.99	2.95	0.01	0.44	2.98	3.07	0.09	3.11
Computer/information science	550	230	4.08	4.27	3.67	0.19	4.66	4.08	4.45	0.37*	9.02
Engineering	1,330	590	10.27	10.44	9.92	0.16	1.59	10.27	10.45	0.17	1.68
Education	1,150	450	4.98	5.44	4.01	0.45*	8.99	4.98	5.31	0.33	6.63
Business/Management	1,920	980	17.32	16.68	18.68	-0.63*	-3.61	17.32	17.24	-0.09	-0.51
Health	1,570	540	9.99	10.96	7.96	0.94*	9.39	9.99	10.72	0.73*	7.28
Vocational/technical	120	40	0.74	0.84	0.53	0.10*	13.38	0.74	0.80	0.06	8.23
Other technical/professional	1,710	780	12.21	12.55	11.48	0.33	2.73	12.21	12.29	0.09	0.70
Unknown	120	310	2.05	0.84	4.61	-1.18*	-57.48	2.05	0.94	-1.11*	-53.98
Degree program (undergraduate only)						(Effect size=‡)				(Effect size=‡)	
Postsecondary award, certificate or diploma of less than two academic years	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Associate's degree	130	110	1.22	1.09	1.49	-0.12	-10.18	1.22	1.09	-0.13	-10.34
Postsecondary award, certificate, diploma, or degree program	13,560	6,160	96.58	97.81	94.03	1.18*	1.22	96.58	97.68	1.10	1.14
Bachelor's degree or equivalent	60	100	1.13	0.64	2.14	-0.47*	-41.29	1.13	0.76	-0.37*	-33.09
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁸						(Effect size=0.01)				(Effect size=0.01)	
1–64	5,400	2,410	32.47	32.06	33.37	-0.41	-1.26	32.47	32.31	-0.16	-0.49
65–76	4,880	1,890	25.81	26.03	25.33	0.22	0.84	25.81	26.22	0.40	1.57
77–86	4,690	2,070	23.54	23.56	23.49	0.02	0.09	23.54	23.38	-0.16	-0.66
87 or more	3,620	1,490	16.55	16.70	16.21	0.15	0.93	16.55	16.41	-0.14	-0.83
None or unknown	540	230	1.63	1.65	1.60	0.02	1.03	1.63	1.68	0.05	2.98

See notes at end of table.

Table J-54. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in public 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non- respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non- respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Number of first-time, full-time undergraduate students living on campus ⁸						(Effect size=0.01)				(Effect size=0.01)	
0–458	2,370	1,010	11.98	12.07	11.78	0.09	0.76	11.98	12.16	0.18	1.48
459–854	3,410	1,360	18.60	18.85	18.05	0.25	1.35	18.60	18.75	0.15	0.79
855–1,568	5,010	2,000	25.16	25.52	24.34	0.37	1.47	25.16	25.42	0.26	1.04
1,569 or more	7,460	3,320	39.98	39.35	41.35	-0.63	-1.57	39.98	39.29	-0.69	-1.73
Unknown	890	400	4.29	4.21	4.48	-0.09	-1.98	4.29	4.39	0.10	2.42
Average amount of grant and scholarship aid received ⁸						(Effect size=0.01)				(Effect size=0.01)	
\$0–\$6,275	4,050	1,830	21.85	21.59	22.43	-0.26	-1.20	21.85	21.42	-0.43	-1.97
\$6,276–\$7,493	4,450	1,830	22.53	22.76	22.01	0.23	1.04	22.53	22.69	0.16	0.73
\$7,494–\$8,791	4,880	1,960	25.33	25.48	24.99	0.16	0.61	25.33	25.32	-0.01	-0.02
\$8,792 or more	5,210	2,240	28.66	28.51	28.98	-0.14	-0.51	28.66	28.88	0.22	0.77
Unknown	540	230	1.63	1.65	1.60	0.02	1.03	1.63	1.68	0.05	2.98
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁸						(Effect size=0.01)				(Effect size=0.02)	
0–194	2,610	1,170	14.41	14.39	14.43	-0.01	-0.08	14.41	14.61	0.21	1.44
195–338	3,790	1,500	21.01	21.31	20.36	0.30	1.42	21.01	21.19	0.18	0.84
339–547	5,330	2,350	26.85	26.50	27.61	-0.35	-1.30	26.85	26.12	-0.73	-2.71
548 or more	6,850	2,830	36.11	36.15	36.01	0.04	0.12	36.11	36.40	0.30	0.82
Unknown	540	230	1.63	1.65	1.60	0.02	1.03	1.63	1.68	0.05	2.98
Veteran status						(Effect size=0.01)				(Effect size=#)	
Yes	1,250	530	3.18	3.06	3.44	-0.12	-3.70	3.18	3.15	-0.03	-0.99
No	17,880	7,550	96.82	96.94	96.56	0.12	0.12	96.82	96.85	0.03	0.03

See notes at end of table.

Table J-54. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in public 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Race							(Effect size=‡)				(Effect size=‡)
White	11,190	4,250	56.67	57.96	53.83	1.29*	2.28	56.67	57.63	0.96*	1.70
Black or African American	2,190	660	10.39	11.08	8.85	0.70*	6.71	10.39	10.86	0.48*	4.59
Hispanic	2,490	760	13.16	14.39	10.46	1.23*	9.34	13.16	14.36	1.20*	9.08
Asian	2,320	570	10.34	11.72	7.30	1.38*	13.36	10.34	12.31	1.97*	19.07
American Indian or Alaska Native	90	40	0.45	0.45	0.45	#	-0.29	0.45	0.45	#	0.50
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
More than one race	720	130	3.23	3.84	1.91	0.60*	18.63	3.23	3.79	0.55*	17.15
Unknown	60	1,670	5.56	0.28	17.15	-5.27*	-94.88	5.56	0.33	-5.23*	-94.08
Sex							(Effect size=‡)				(Effect size=‡)
Male	8,670	3,910	46.69	45.38	49.57	-1.31*	-2.80	46.69	46.13	-0.57	-1.21
Female	10,450	3,940	52.67	54.62	48.38	1.95*	3.70	52.67	53.87	1.21*	2.29
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than 30 unweighted 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 calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Student base weight, adjusted for nonresponse.⁴ 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).⁵ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.⁶ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.⁷ Categories were defined by quartiles.⁸ Categories were defined by quartiles computed at the institution level.

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. "Base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Sample sizes rounded to the nearest 10 and, therefore, may not sum to total.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-55. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in private nonprofit, less-than-4-year institutions: 2015–16

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ⁵						(Effect size=‡)				(Effect size=‡)	
New England	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Mid East	220	120	32.24	34.64	27.55	2.40	7.45	32.24	34.61	2.37	7.34
Great Lakes	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Plains	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southeast	240	120	32.96	36.00	27.03	3.04	9.21	32.96	35.78	2.82	8.57
Southwest	90	110	9.32	7.75	12.39	-1.57	-16.83	9.32	7.76	-1.56	-16.71
Rocky Mountains	40	50	1.80	1.07	3.22	-0.73	-40.33	1.80	1.07	-0.73	-40.65
Far West	110	80	23.67	20.53	29.82	-3.14	-13.28	23.67	20.77	-2.90	-12.25
Outlying areas	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Federal aid status						(Effect size=0.08)				(Effect size=0.08)	
Received	560	320	79.18	82.15	73.37	2.97*	3.76	79.18	81.63	2.46	3.10
Did not receive	90	120	13.22	10.43	18.68	-2.80*	-21.14	13.22	10.52	-2.70*	-20.42
Unknown	50	30	7.60	7.42	7.95	-0.18	-2.35	7.60	7.84	0.24	3.21
Pell Grant status						(Effect size=0.05)				(Effect size=0.04)	
Received	430	250	59.73	62.33	54.63	2.61	4.36	59.73	61.87	2.14	3.59
Did not receive	270	220	40.27	37.67	45.37	-2.61	-6.47	40.27	38.13	-2.14	-5.32
Total Pell amount received ⁶						(Effect size=0.09)				(Effect size=0.09)	
None	270	220	40.27	37.67	45.37	-2.61	-6.47	40.27	38.13	-2.14	-5.32
\$1–\$2,888	100	90	13.63	12.71	15.44	-0.93	-6.79	13.63	12.62	-1.02	-7.47
\$2,889–\$5,774	150	110	22.46	22.18	23.01	-0.28	-1.26	22.46	22.01	-0.45	-1.99
\$5,775	180	60	23.63	27.45	16.18	3.81	16.14	23.63	27.24	3.61	15.27

See notes at end of table.

Table J-55. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in private nonprofit, less-than-4-year institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Stafford Loan status						(Effect size=0.09)				(Effect size=0.08)	
Received	480	240	68.22	72.46	59.96	4.23*	6.20	68.22	71.93	3.71	5.43
Did not receive	210	230	31.78	27.54	40.04	-4.23*	-13.31	31.78	28.07	-3.71	-11.66
Total Stafford amount received ⁷						(Effect size=0.10)				(Effect size=0.09)	
None	210	230	31.78	27.54	40.04	-4.23*	-13.31	31.78	28.07	-3.71	-11.66
\$1–\$3,500	100	80	11.91	11.14	13.43	-0.78	-6.51	11.91	11.06	-0.86	-7.21
\$3,501–\$6,458	120	60	18.53	20.02	15.62	1.49	8.04	18.53	19.87	1.34	7.24
\$6,459–\$9,500	160	70	23.30	25.58	18.84	2.28*	9.79	23.30	25.40	2.10	9.01
\$9,501 or more	100	40	14.48	15.71	12.06	1.24	8.53	14.48	15.60	1.12	7.77
Institution total enrollment ⁸						(Effect size=0.11)				(Effect size=0.11)	
1–498	230	140	35.59	35.46	35.86	-0.13	-0.38	35.59	35.40	-0.20	-0.56
499–716	130	160	21.15	17.26	28.75	-3.89*	-18.39	21.15	17.55	-3.60	-17.03
717–1,277	180	130	22.10	22.75	20.81	0.66	2.98	22.10	22.69	0.59	2.68
1,278 or more	160	50	21.16	24.52	14.58	3.37	15.91	21.16	24.37	3.21	15.17
Sampled baccalaureate recipient						(Effect size=‡)				(Effect size=‡)	
Baccalaureate recipient	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not baccalaureate recipient	690	470	100.00	100.00	100.00	#	#	100.00	100.00	#	#
Age as of Dec 31, 2015						(Effect size=‡)				(Effect size=‡)	
15–23	270	210	36.42	35.31	38.60	-1.11	-3.06	36.42	35.38	-1.04	-2.86
24–29	180	130	27.71	27.04	29.02	-0.67	-2.42	27.71	26.97	-0.74	-2.66
30 or older	250	130	35.87	37.65	32.38	1.79	4.98	35.87	37.65	1.78	4.96
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Institutional aid status						(Effect size=0.08)				(Effect size=0.08)	
Received	120	60	14.89	16.31	12.11	1.42	9.56	14.89	16.22	1.33	8.94
Did not receive	410	350	60.28	56.41	67.85	-3.87	-6.42	60.28	56.25	-4.03*	-6.68
Unknown	170	70	24.83	27.28	20.04	2.45	9.87	24.83	27.52	2.70*	10.86

See notes at end of table.

Table J-55. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in private nonprofit, less-than-4-year institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non- respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non- respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
State aid status						(Effect size=‡)				(Effect size=‡)	
Received	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Did not receive	410	390	60.94	54.05	74.39	-6.89*	-11.30	60.94	53.99	-6.95*	-11.41
Unknown	200	60	27.52	31.67	19.41	4.15	15.09	27.52	31.80	4.28*	15.55
Parent's highest level of education						(Effect size=‡)				(Effect size=‡)	
Middle school/junior high	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
High school	210	130	35.97	35.14	37.74	-0.88	-2.45	35.97	35.11	-0.86	-2.39
College or beyond	260	160	42.10	42.05	42.19	-0.05	-0.12	42.10	42.08	-0.01	-0.03
Unknown	120	80	17.35	17.78	16.43	0.46	2.64	17.35	17.78	0.43	2.46
Marital status						(Effect size=‡)				(Effect size=‡)	
Unmarried-single/divorce/widow	460	300	74.47	73.06	77.47	-1.49	-2.01	74.47	73.07	-1.40	-1.88
Married/remarried	120	60	17.95	19.23	15.24	1.35	7.53	17.95	19.22	1.27	7.07
Separated	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Divorced or widowed	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Support children						(Effect size=‡)				(Effect size=‡)	
Has dependents	270	150	42.04	44.30	37.26	2.38	5.66	42.04	44.26	2.22*	5.28
Does not have dependents	360	240	57.96	55.70	62.74	-2.38	-4.11	57.96	55.74	-2.22	-3.83
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Income ⁷						(Effect size=‡)				(Effect size=‡)	
\$0 or less	70	50	10.88	10.22	12.29	-0.70	-6.45	10.88	10.21	-0.67	-6.16
\$1–\$6,568	90	50	12.34	13.60	9.66	1.33	10.82	12.34	13.60	1.26	10.23
\$6,569–\$18,940	150	100	25.74	25.02	27.27	-0.76	-2.95	25.74	25.01	-0.74	-2.86
\$18,941–\$36,402	160	100	25.35	25.28	25.49	-0.07	-0.29	25.35	25.27	-0.07	-0.29
\$36,403 or more	160	90	25.47	25.75	24.88	0.29	1.15	25.47	25.77	0.30	1.17
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-55. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in private nonprofit, less-than-4-year institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Major						(Effect size=‡)				(Effect size=‡)	
Undecided	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Humanities	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Social/behavioral sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Life sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Physical sciences/math	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Computer/information science	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Engineering	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Education	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Business/Management	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Health	440	230	59.14	64.96	47.76	5.83§	9.85	59.14	64.78	5.64	9.54
Vocational/technical	120	150	13.93	12.38	16.98	-1.56	-11.18	13.93	12.41	-1.52	-10.93
Other technical/professional	60	40	13.45	12.05	16.19	-1.40	-10.41	13.45	12.03	-1.42	-10.57
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Degree program (undergraduate only)						(Effect size=‡)				(Effect size=‡)	
Postsecondary award, certificate or diploma of less than two academic years	370	360	52.02	47.23	61.40	-4.80*	-9.22	52.02	47.18	-4.85*	-9.32
Associate's degree	330	120	47.98	52.77	38.60	4.80*	10.00	47.98	52.82	4.85*	10.10
Postsecondary award, certificate, diploma, or degree program	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bachelor's degree or equivalent	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵						(Effect size=‡)				(Effect size=‡)	
1–67	130	100	20.35	19.35	22.30	-1.00	-4.91	20.35	19.28	-1.07	-5.25
68–84	260	160	34.11	35.91	30.59	1.80	5.28	34.11	35.76	1.65	4.84
85–89	140	140	17.88	16.73	20.11	-1.14	-6.40	17.88	16.67	-1.20	-6.73
90 or more	120	60	22.91	23.10	22.56	0.18	0.79	22.91	23.32	0.40	1.76
None or unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-55. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in private nonprofit, less-than-4-year institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non- respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non- respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Number of first-time, full-time undergraduate students living on campus ⁸						(Effect size=0.04)				(Effect size=0.04)	
8–10	40	50	1.43	0.99	2.30	-0.44	-30.85	1.43	0.99	-0.45	-31.27
Unknown	660	430	98.57	99.01	97.70	0.44	0.45	98.57	99.01	0.45	0.46
Average amount of grant and scholarship aid received ⁸						(Effect size=‡)				(Effect size=‡)	
\$0–\$4,587	310	110	47.43	52.55	37.43	5.12*	10.79	47.43	52.31	4.88*	10.28
\$4,588–\$4,671	100	130	12.90	9.34	19.87	-3.56	-27.62	12.90	9.56	-3.34	-25.89
\$4,672–\$5,684	130	140	17.53	15.62	21.26	-1.91	-10.88	17.53	15.58	-1.95	-11.12
\$5,685 or more	130	90	17.39	17.58	17.01	0.19	1.12	17.39	17.58	0.20	1.13
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁸						(Effect size=‡)				(Effect size=‡)	
0–13	170	60	26.50	29.85	19.95	3.35	12.64	26.50	29.74	3.24	12.23
14–33	120	90	19.77	19.11	21.04	-0.65	-3.31	19.77	19.13	-0.63	-3.21
34–88	160	230	16.74	11.45	27.07	-5.29*	-31.60	16.74	11.67	-5.07*	-30.30
89 or more	210	80	32.25	34.68	27.50	2.43	7.54	32.25	34.50	2.25	6.96
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Veteran status						(Effect size=0.02)				(Effect size=0.02)	
Yes	50	30	6.83	6.34	7.79	-0.49	-7.20	6.83	6.34	-0.49	-7.21
No	640	440	93.17	93.66	92.21	0.49	0.53	93.17	93.66	0.49	0.53

See notes at end of table.

Table J-55. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in private nonprofit, less-than-4-year institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Race						(Effect size=‡)				(Effect size=‡)	
White	340	210	50.12	51.44	47.56	1.31	2.62	50.12	51.32	1.19	2.38
Black or African American	170	90	23.88	25.58	20.56	1.70	7.12	23.88	25.50	1.62	6.79
Hispanic	120	100	14.73	14.58	15.03	-0.15	-1.05	14.73	14.64	-0.09	-0.63
Asian	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
American Indian or Alaska Native	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
More than one race	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Sex						(Effect size=‡)				(Effect size=‡)	
Male	220	210	29.95	27.70	34.36	-2.26	-7.53	29.95	27.91	-2.04	-6.81
Female	470	260	70.05	72.30	65.64	2.26	3.22	70.05	72.09	2.04	2.91
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than 30 unweighted nonrespondents).

* $p < 0.05$ § $p < 0.05$ for difference between weighted respondent mean and weighted nonrespondent mean but not for estimated bias.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 calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Student base weight, adjusted for nonresponse.⁴ 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).⁵ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.⁶ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.⁷ Categories were defined by quartiles.⁸ Categories were defined by quartiles computed at the institution level.

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. "Base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Sample sizes rounded to the nearest 10 and, therefore, may not sum to total.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-56. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in private nonprofit, 4-year, non-doctorate-granting institutions: 2015–16

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ⁵						(Effect size=0.05)				(Effect size=0.05)	
New England	720	300	10.72	10.56	11.09	-0.16	-1.47	10.72	10.72	#	#
Mid East	1,450	670	18.04	17.18	20.09	-0.85	-4.74	18.04	17.22	-0.82	-4.53
Great Lakes	1,520	560	17.54	17.94	16.58	0.40	2.29	17.54	17.98	0.44	2.51
Plains	950	330	11.66	11.79	11.36	0.12	1.07	11.66	11.80	0.14	1.23
Southeast	1,730	660	19.13	19.84	17.42	0.71	3.72	19.13	19.62	0.50	2.60
Southwest	280	90	2.88	2.85	2.94	-0.03	-0.93	2.88	2.82	-0.06	-2.02
Rocky Mountains	520	180	12.02	12.39	11.12	0.37	3.11	12.02	12.50	0.48	3.96
Far West	340	140	4.30	4.40	4.07	0.10	2.25	4.30	4.36	0.05	1.27
Outlying areas	230	130	3.71	3.04	5.32	-0.67*	-18.07	3.71	2.97	-0.74*	-19.84
Student type						(Effect size=‡)				(Effect size=‡)	
Undergraduate student	5,950	2,290	87.54	88.13	86.11	0.59	0.68	87.54	88.17	0.63	0.72
Graduate student	1,770	770	12.43	11.85	13.80	-0.57	-4.61	12.43	11.81	-0.62	-4.97
First professional student	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Federal aid status						(Effect size=0.07)				(Effect size=0.04)	
Received	5,070	1,690	64.51	67.59	57.14	3.08*	4.77	64.51	66.11	1.60*	2.47
Did not receive	2,360	1,200	31.75	29.17	37.94	-2.58*	-8.13	31.75	30.08	-1.67*	-5.27
Unknown	300	170	3.73	3.24	4.92	-0.50	-13.32	3.73	3.81	0.08	2.06
Pell Grant status						(Effect size=0.03)				(Effect size=0.01)	
Received	2,400	830	38.51	40.03	34.79	1.54*	4.01	38.51	38.98	0.47	1.23
Did not receive	3,560	1,460	61.49	59.97	65.21	-1.54*	-2.51	61.49	61.02	-0.47	-0.77
Total Pell amount received ⁶						(Effect size=0.05)				(Effect size=0.04)	
None	3,560	1,460	61.49	59.97	65.21	-1.54*	-2.51	61.49	61.02	-0.47	-0.77
\$1–\$2,888	720	290	10.76	10.46	11.48	-0.30	-2.79	10.76	10.19	-0.56	-5.23
\$2,889–\$5,774	930	340	15.10	15.13	15.02	0.03	0.22	15.10	14.74	-0.36	-2.39
\$5,775	740	200	12.65	14.43	8.29	1.81*	14.30	12.65	14.05	1.40*	11.03

See notes at end of table.

Table J-56. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in private nonprofit, 4-year, non-doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Stafford Loan status						(Effect size=0.07)				(Effect size=0.04)	
Received	4,150	1,320	53.90	57.22	45.95	3.32*	6.15	53.90	55.79	1.89*	3.51
Did not receive	3,570	1,740	46.10	42.78	54.05	-3.32*	-7.19	46.10	44.21	-1.89*	-4.11
Total Stafford amount received ⁷						(Effect size=0.07)				(Effect size=0.04)	
None	3,570	1,740	46.10	42.78	54.05	-3.32*	-7.19	46.10	44.21	-1.89*	-4.11
\$1–\$5,500	1,270	490	20.85	21.74	18.71	0.89*	4.27	20.85	21.20	0.35	1.67
\$5,501–\$7,500	1,510	400	17.57	18.74	14.75	1.17	6.68	17.57	18.27	0.70	3.99
\$7,501–\$10,250	360	110	5.38	6.02	3.86	0.64*	11.82	5.38	5.88	0.50*	9.23
\$10,251 or more	1,010	330	10.10	10.72	8.63	0.62*	6.10	10.10	10.45	0.35	3.45
Institution total enrollment ⁸						(Effect size=0.05)				(Effect size=0.04)	
1–1,639	1,870	640	24.74	25.97	21.80	1.23*	4.96	24.74	25.73	0.99*	3.99
1,640–2,618	1,920	620	22.53	23.96	19.09	1.44*	6.37	22.53	23.74	1.21*	5.39
2,619–5,157	2,060	890	25.35	24.22	28.05	-1.13*	-4.45	25.35	24.25	-1.10*	-4.34
5,158 or more	1,880	910	27.38	25.85	31.06	-1.53*	-5.60	27.38	26.28	-1.10	-4.02
Sampled baccalaureate recipient						(Effect size=0.02)				(Effect size=0.02)	
Baccalaureate recipient	3,490	1,110	14.51	15.24	12.78	0.72*	4.98	14.51	15.04	0.53*	3.65
Not baccalaureate recipient	4,230	1,950	85.49	84.76	87.22	-0.72*	-0.85	85.49	84.96	-0.53*	-0.62
Age as of Dec 31, 2015						(Effect size=‡)				(Effect size=‡)	
15–23	4,070	1,370	58.06	60.39	52.47	2.33*	4.02	58.06	60.00	1.94*	3.34
24–29	1,360	680	15.50	14.01	19.06	-1.49*	-9.59	15.50	14.08	-1.42*	-9.18
30 or older	2,290	970	26.21	25.60	27.68	-0.61	-2.33	26.21	25.93	-0.28	-1.08
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Institutional aid status						(Effect size=0.09)				(Effect size=0.08)	
Received	3,870	1,180	48.88	53.42	38.01	4.54*	9.29	48.88	52.68	3.79*	7.76
Did not receive	3,330	1,620	44.50	40.33	54.49	-4.17*	-9.37	44.50	40.57	-3.93*	-8.84
Unknown	530	250	6.62	6.25	7.50	-0.37	-5.59	6.62	6.76	0.14	2.10

See notes at end of table.

Table J-56. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in private nonprofit, 4-year, non-doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
State aid status						(Effect size=0.06)				(Effect size=0.05)	
Received	1,300	320	16.13	18.20	11.17	2.07*	12.84	16.13	17.78	1.65*	10.23
Did not receive	5,850	2,470	76.68	74.85	81.08	-1.84*	-2.40	76.68	74.75	-1.94*	-2.53
Unknown	570	270	7.19	6.95	7.75	-0.23	-3.26	7.19	7.47	0.29	3.99
Parent's highest level of education						(Effect size=0.01)				(Effect size=0.01)	
Middle school/junior high	140	50	2.49	2.58	2.24	0.10	4.02	2.49	2.57	0.08	3.34
High school	1,510	560	27.28	27.05	27.92	-0.26	-0.94	27.28	26.98	-0.30	-1.10
College or beyond	3,410	1,030	59.91	60.36	58.64	0.51	0.85	59.91	60.45	0.54	0.91
Unknown	530	220	10.32	10.01	11.21	-0.35	-3.42	10.32	10.00	-0.33	-3.15
Marital status						(Effect size=0.02)				(Effect size=0.02)	
Unmarried-single/divorce/widow	4,240	1,370	77.14	77.93	74.96	0.88	1.13	77.14	77.96	0.81*	1.05
Married/remarried	1,060	360	17.77	16.92	20.15	-0.95	-5.34	17.77	16.90	-0.87	-4.92
Separated	60	30	0.85	0.83	0.91	-0.02	-2.59	0.85	0.83	-0.02	-2.52
Divorced or widowed	220	90	4.23	4.31	3.99	0.10	2.26	4.23	4.31	0.08	1.95
Support children						(Effect size=‡)				(Effect size=‡)	
Has dependents	1,310	500	23.20	21.63	27.58	-1.75	-7.55	23.20	21.59	-1.61	-6.95
Does not have dependents	4,270	1,360	76.80	78.37	72.42	1.75	2.28	76.80	78.41	1.61*	2.10
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Income ⁷						(Effect size=‡)				(Effect size=‡)	
\$0 or less	320	160	5.96	5.95	5.96	#	-0.05	5.96	5.95	-0.01	-0.13
\$1–\$15,926	1,000	370	16.66	16.49	17.13	-0.19	-1.14	16.66	16.44	-0.22	-1.29
\$15,927–\$41,826	1,380	470	25.61	23.83	30.60	-1.99*	-7.79	25.61	23.80	-1.81	-7.07
\$41,827–\$89,471	1,470	380	25.85	27.90	20.15	2.28*	8.83	25.85	27.90	2.05*	7.92
\$89,472 or more	1,380	470	25.44	25.52	25.22	0.09	0.35	25.44	25.59	0.15	0.59
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-56. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in private nonprofit, 4-year, non-doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Major						(Effect size=‡)				(Effect size=‡)	
Undecided	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Humanities	830	370	16.74	15.52	19.77	-1.25*	-7.48	16.74	15.70	-1.04	-6.23
Social/behavioral sciences	610	190	8.82	9.54	7.02	0.74*	8.44	8.82	9.49	0.67*	7.57
Life sciences	740	200	9.09	10.30	6.08	1.24*	13.66	9.09	10.17	1.08*	11.85
Physical sciences/math	200	50	2.30	2.43	1.98	0.13	5.85	2.30	2.41	0.11	4.64
Computer/information science	250	100	4.82	4.87	4.71	0.05	0.99	4.82	4.90	0.08	1.60
Engineering	250	80	4.22	4.25	4.14	0.03	0.81	4.22	4.26	0.04	0.84
Education	650	170	5.98	6.54	4.58	0.58*	9.68	5.98	6.48	0.50*	8.42
Business/Management	940	410	19.42	19.31	19.72	-0.12	-0.62	19.42	19.46	0.04	0.18
Health	790	320	15.54	15.38	15.95	-0.17	-1.08	15.54	15.36	-0.18	-1.16
Vocational/technical	50	40	1.48	1.22	2.13	-0.27	-18.15	1.48	1.20	-0.28	-19.00
Other technical/professional	590	240	9.23	9.42	8.73	0.20	2.22	9.23	9.31	0.09	0.94
Unknown	60	110	2.25	1.12	5.08	-1.17*	-51.75	2.25	1.17	-1.08*	-48.02
Degree program (undergraduate only)						(Effect size=‡)				(Effect size=‡)	
Postsecondary award, certificate or diploma of less than two academic years	70	70	1.57	1.14	2.64	-0.44*	-28.04	1.57	1.14	-0.43*	-27.48
Associate's degree	490	320	11.99	10.56	15.49	-1.45*	-12.09	11.99	10.58	-1.41*	-11.76
Postsecondary award, certificate, diploma, or degree program	5,380	1,850	85.67	88.14	79.61	2.51*	2.93	85.67	88.11	2.44*	2.85
Bachelor's degree or equivalent	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵						(Effect size=0.04)				(Effect size=0.03)	
1–91	2,300	1,030	35.94	34.70	38.91	-1.24	-3.45	35.94	34.96	-0.98	-2.73
92–98	1,790	690	21.98	21.80	22.41	-0.18	-0.83	21.98	21.75	-0.23	-1.04
99 or more	3,040	1,060	34.02	35.85	29.63	1.83*	5.39	34.02	35.48	1.46*	4.29
None or unknown	600	280	8.06	7.65	9.05	-0.41	-5.12	8.06	7.81	-0.25	-3.11

See notes at end of table.

Table J-56. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in private nonprofit, 4-year, non-doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non- respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non- respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Number of first-time, full-time undergraduate students living on campus ⁸						(Effect size=0.05)				(Effect size=0.05)	
0–178	1,600	670	21.25	21.00	21.84	-0.25	-1.16	21.25	21.17	-0.07	-0.34
179–289	1,470	520	16.66	17.54	14.58	0.87*	5.23	16.66	17.48	0.82*	4.90
290–447	1,450	460	17.26	18.55	14.16	1.29*	7.49	17.26	18.56	1.30*	7.52
448 or more	1,550	580	18.80	18.52	19.48	-0.28	-1.50	18.80	18.35	-0.45	-2.39
Unknown	1,650	830	26.03	24.39	29.95	-1.64*	-6.28	26.03	24.44	-1.59*	-6.12
Average amount of grant and scholarship aid received ⁸						(Effect size=0.04)				(Effect size=0.04)	
\$0–\$12,844	2,290	1,060	36.18	34.53	40.13	-1.65*	-4.56	36.18	34.53	-1.64*	-4.54
\$12,845–\$17,343	1,800	640	20.95	21.78	18.97	0.83	3.95	20.95	21.72	0.77	3.67
\$17,344–\$22,901	1,470	580	17.05	17.55	15.85	0.50	2.95	17.05	17.42	0.37	2.16
\$22,902 or more	1,560	500	17.76	18.49	16.00	0.73	4.12	17.76	18.51	0.76	4.25
Unknown	600	280	8.06	7.65	9.05	-0.41	-5.12	8.06	7.81	-0.25	-3.11
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁸						(Effect size=0.02)				(Effect size=0.03)	
0–35	1,760	650	26.42	26.61	25.95	0.20	0.74	26.42	26.61	0.19	0.74
36–50	1,560	570	17.61	18.21	16.19	0.59	3.37	17.61	18.41	0.80	4.53
51–84	1,630	600	18.44	18.58	18.10	0.14	0.76	18.44	18.49	0.06	0.30
85 or more	2,150	950	29.22	28.61	30.67	-0.61	-2.07	29.22	28.33	-0.89	-3.03
Unknown	630	280	8.31	7.99	9.09	-0.32	-3.90	8.31	8.15	-0.16	-1.96
Veteran status						(Effect size=0.01)				(Effect size=#)	
Yes	830	390	5.27	5.12	5.63	-0.15	-2.82	5.27	5.29	0.01	0.24
No	6,900	2,670	94.73	94.88	94.37	0.15	0.16	94.73	94.71	-0.01	-0.01

See notes at end of table.

Table J-56. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in private nonprofit, 4-year, non-doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Race						(Effect size=‡)				(Effect size=‡)	
White	4,940	1,690	61.55	62.93	58.25	1.38*	2.24	61.55	62.81	1.26*	2.05
Black or African American	1,150	460	14.95	15.29	14.15	0.33	2.23	14.95	15.21	0.26	1.73
Hispanic	870	370	12.35	12.21	12.68	-0.14	-1.13	12.35	12.18	-0.17	-1.36
Asian	430	180	4.75	5.03	4.07	0.28	5.95	4.75	5.17	0.42*	8.88
American Indian or Alaska Native	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
More than one race	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	40	310	3.20	0.48	9.70	-2.72*	-84.98	3.20	0.55	-2.65*	-82.85
Sex						(Effect size=‡)				(Effect size=‡)	
Male	3,090	1,410	41.72	39.40	47.28	-2.32*	-5.56	41.72	39.77	-1.95*	-4.67
Female	4,630	1,640	58.25	60.60	52.63	2.35*	4.03	58.25	60.23	1.98*	3.40

Rounds to zero.

‡ Reporting standards not met (fewer than 30 unweighted 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 calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Student base weight, adjusted for nonresponse.⁴ 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).⁵ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.⁶ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.⁷ Categories were defined by quartiles.⁸ Categories were defined by quartiles computed at the institution level.

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. "Base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Sample sizes rounded to the nearest 10 and, therefore, may not sum to total.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-57. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in private nonprofit, 4-year, doctorate-granting institutions: 2015–16

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ⁵											
						(Effect size=0.04)				(Effect size=0.05)	
New England	1,120	440	14.54	14.48	14.70	-0.07	-0.48	14.54	15.31	0.76	5.26
Mid East	2,730	1,070	27.01	26.74	27.64	-0.27	-1.00	27.01	26.45	-0.57	-2.09
Great Lakes	1,330	440	11.46	11.86	10.52	0.41	3.54	11.46	11.68	0.23	1.97
Plains	750	230	6.88	7.32	5.89	0.43	6.27	6.88	7.10	0.22	3.14
Southeast	2,060	700	18.61	18.77	18.25	0.16	0.85	18.61	18.74	0.12	0.66
Southwest	780	270	4.23	4.46	3.71	0.23	5.39	4.23	4.47	0.23	5.54
Rocky Mountains	400	80	2.43	2.71	1.79	0.28	11.51	2.43	2.66	0.23	9.53
Far West	1,110	510	12.62	11.81	14.47	-0.80	-6.36	12.62	11.82	-0.80	-6.34
Outlying areas	150	90	2.20	1.84	3.04	-0.36	-16.37	2.20	1.77	-0.43	-19.50
Student type											
						(Effect size=0.03)				(Effect size=0.02)	
Undergraduate student	5,570	2,280	57.56	56.72	59.50	-0.84	-1.46	57.56	57.28	-0.28	-0.49
Graduate student	4,330	1,400	36.17	36.44	35.56	0.27	0.74	36.17	36.06	-0.12	-0.33
First professional student	510	150	6.27	6.84	4.95	0.57*	9.14	6.27	6.67	0.40*	6.40
Federal aid status											
						(Effect size=0.10)				(Effect size=0.07)	
Received	5,650	1,680	53.15	57.94	42.11	4.79*	9.01	53.15	55.98	2.83*	5.33
Did not receive	3,990	1,760	38.27	34.61	46.72	-3.67*	-9.58	38.27	34.86	-3.41*	-8.92
Unknown	770	400	8.58	7.46	11.17	-1.12*	-13.09	8.58	9.17	0.58	6.81
Pell Grant status											
						(Effect size=0.05)				(Effect size=0.02)	
Received	1,790	580	30.50	33.03	24.95	2.44*	8.01	30.50	31.39	0.89	2.92
Did not receive	3,780	1,700	69.50	66.97	75.05	-2.44*	-3.52	69.50	68.61	-0.89	-1.28
Total Pell amount received ⁶											
						(Effect size=0.06)				(Effect size=0.03)	
None	3,780	1,700	69.50	66.97	75.05	-2.44*	-3.52	69.50	68.61	-0.89	-1.28
\$1–\$2,888	530	190	8.37	8.95	7.10	0.56*	6.68	8.37	8.51	0.14	1.68
\$2,889–\$5,774	730	240	12.76	13.47	11.20	0.69	5.39	12.76	12.80	0.05	0.36
\$5,775	530	140	9.37	10.61	6.66	1.20*	12.76	9.37	10.08	0.71*	7.53

See notes at end of table.

Table J-57. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in private nonprofit, 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Stafford Loan status						(Effect size=0.08)				(Effect size=0.04)	
Received	4,610	1,350	45.36	49.42	36.01	4.06*	8.95	45.36	47.46	2.10*	4.63
Did not receive	5,800	2,480	54.64	50.58	63.99	-4.06*	-7.43	54.64	52.54	-2.10*	-3.85
Total Stafford amount received ⁷						(Effect size=0.08)				(Effect size=0.05)	
None	5,800	2,480	54.64	50.58	63.99	-4.06*	-7.43	54.64	52.54	-2.10*	-3.85
\$1–\$6,000	1,140	370	12.68	13.45	10.91	0.77*	6.06	12.68	12.92	0.23	1.85
\$6,001–\$7,500	1,340	390	10.67	11.52	8.72	0.85*	7.94	10.67	11.06	0.39	3.65
\$7,501–\$14,000	950	280	9.27	10.09	7.37	0.82*	8.87	9.27	9.70	0.43	4.65
\$14,001 or more	1,180	310	12.74	14.36	9.00	1.62*	12.72	12.74	13.78	1.05*	8.22
Institution total enrollment ⁸						(Effect size=0.04)				(Effect size=0.02)	
1–4,125	2,300	820	21.51	22.34	19.59	0.83	3.87	21.51	21.91	0.40	1.86
4,126–8,734	2,330	820	19.46	20.48	17.09	1.03*	5.28	19.46	20.03	0.58	2.97
8,735–17,448	2,840	1,060	25.78	25.03	27.51	-0.75	-2.90	25.78	25.18	-0.60	-2.31
17,449 or more	2,930	1,130	33.25	32.14	35.81	-1.11	-3.34	33.25	32.87	-0.38	-1.15
Sampled baccalaureate recipient						(Effect size=0.01)				(Effect size=#)	
Baccalaureate recipient	4,010	1,490	11.23	11.49	10.61	0.27	2.38	11.23	11.28	0.06	0.53
Not baccalaureate recipient	6,400	2,340	88.77	88.51	89.39	-0.27	-0.30	88.77	88.72	-0.06	-0.07
Age as of Dec 31, 2015						(Effect size=‡)				(Effect size=‡)	
15–23	4,410	1,630	46.45	46.91	45.37	0.47	1.00	46.45	47.26	0.81	1.75
24–29	2,730	960	23.53	23.68	23.17	0.16	0.66	23.53	23.42	-0.11	-0.47
30 or older	3,270	1,180	29.39	29.41	29.36	0.01	0.05	29.39	29.33	-0.07	-0.22
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Institutional aid status						(Effect size=0.06)				(Effect size=0.05)	
Received	5,710	1,650	44.82	47.76	38.03	2.95*	6.58	44.82	46.67	1.85*	4.13
Did not receive	3,660	1,690	44.50	42.66	48.75	-1.84*	-4.14	44.50	42.24	-2.27*	-5.10
Unknown	1,040	490	10.68	9.57	13.22	-1.10*	-10.35	10.68	11.10	0.42	3.90

See notes at end of table.

Table J-57. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in private nonprofit, 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
State aid status						(Effect size=0.05)				(Effect size=0.04)	
Received	1,130	280	9.54	10.92	6.37	1.38*	14.43	9.54	10.50	0.97*	10.13
Did not receive	7,790	2,910	77.31	77.05	77.90	-0.26	-0.33	77.31	75.88	-1.43*	-1.84
Unknown	1,490	640	13.15	12.03	15.74	-1.12	-8.52	13.15	13.61	0.46	3.49
Parent's highest level of education						(Effect size=0.01)				(Effect size=0.01)	
Middle school/junior high	140	40	1.87	1.97	1.56	0.12	6.61	1.87	1.97	0.10	5.24
High school	1,490	430	23.51	23.81	22.58	0.37	1.57	23.51	23.70	0.19*	0.83
College or beyond	4,090	1,210	66.30	65.98	67.33	-0.41	-0.62	66.30	66.11	-0.20*	-0.30
Unknown	490	150	8.32	8.25	8.53	-0.08	-1.02	8.32	8.22	-0.10	-1.16
Marital status						(Effect size=‡)				(Effect size=‡)	
Unmarried-single/divorce/widow	4,690	1,400	77.08	77.52	75.72	0.55	0.71	77.08	77.61	0.52*	0.68
Married/remarried	1,250	350	18.29	17.91	19.45	-0.47	-2.55	18.29	17.84	-0.44	-2.42
Separated	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Divorced or widowed	210	70	3.32	3.33	3.26	0.02	0.68	3.32	3.32	0.01	0.26
Support children						(Effect size=‡)				(Effect size=‡)	
Has dependents	1,310	400	20.15	19.58	21.90	-0.70	-3.49	20.15	19.50	-0.64	-3.19
Does not have dependents	4,910	1,440	79.85	80.42	78.10	0.70	0.88	79.85	80.50	0.64*	0.81
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Income ⁷						(Effect size=‡)				(Effect size=‡)	
\$0 or less	390	140	7.35	6.94	8.63	-0.51	-6.97	7.35	6.92	-0.43	-5.86
\$1–\$15,796	1,130	350	17.65	17.95	16.72	0.37	2.11	17.65	17.89	0.23*	1.32
\$15,797–\$45,963	1,550	450	25.47	25.65	24.94	0.21	0.84	25.47	25.56	0.09*	0.34
\$45,964–\$100,530	1,570	430	24.07	23.89	24.65	-0.23	-0.95	24.07	23.87	-0.20	-0.84
\$100,531 or more	1,550	450	24.91	25.00	24.64	0.11	0.44	24.91	25.18	0.27*	1.07
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-57. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in private nonprofit, 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Major						(Effect size=‡)				(Effect size=‡)	
Undecided	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Humanities	610	350	15.08	12.92	19.92	-2.12*	-14.05	15.08	12.97	-2.11*	-13.98
Social/behavioral sciences	760	260	12.26	12.83	10.97	0.56	4.61	12.26	12.68	0.42	3.44
Life sciences	700	230	10.56	11.34	8.82	0.76	7.21	10.56	11.38	0.82	7.74
Physical sciences/math	190	40	2.23	2.49	1.66	0.25	11.20	2.23	2.50	0.26	11.84
Computer/information science	200	80	3.38	3.60	2.90	0.21	6.30	3.38	3.65	0.27	8.00
Engineering	360	120	5.51	5.95	4.53	0.43	7.82	5.51	6.04	0.53	9.65
Education	550	180	3.91	4.34	2.93	0.43	10.91	3.91	4.21	0.30	7.72
Business/Management	780	450	20.33	17.77	26.06	-2.51*	-12.33	20.33	18.30	-2.03	-9.99
Health	810	220	13.90	16.04	9.09	2.10*	15.14	13.90	15.79	1.90*	13.64
Vocational/technical	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other technical/professional	540	230	10.20	11.02	8.36	0.80	7.88	10.20	10.72	0.52	5.08
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Degree program (undergraduate only)						(Effect size=‡)				(Effect size=‡)	
Postsecondary award, certificate or diploma of less than two academic years	40	70	2.14	1.01	4.64	-1.10	-51.22	2.14	1.02	-1.13	-52.64
Associate's degree	90	70	3.62	3.00	4.98	-0.60*	-16.52	3.62	2.95	-0.67*	-18.50
Postsecondary award, certificate, diploma, or degree program	5,420	2,080	92.74	95.54	86.58	2.71*	2.92	92.74	95.59	2.85*	3.07
Bachelor's degree or equivalent	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁸						(Effect size=0.03)				(Effect size=0.03)	
1–83	3,810	1,340	36.77	36.27	37.92	-0.50	-1.36	36.77	37.42	0.65	1.77
84–96	2,510	1,080	26.68	25.78	28.76	-0.90	-3.39	26.68	25.38	-1.30*	-4.87
97–99	2,440	860	21.65	22.70	19.23	1.05*	4.85	21.65	22.35	0.70	3.24
100 or more	1,030	330	8.64	8.91	8.01	0.27	3.13	8.64	8.64	#	0.03
None or unknown	610	220	6.26	6.35	6.07	0.08	1.34	6.26	6.21	-0.06	-0.90

See notes at end of table.

Table J-57. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in private nonprofit, 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non- respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non- respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Number of first-time, full-time undergraduate students living on campus ⁸						(Effect size=0.03)				(Effect size=0.03)	
0–266	1,660	680	15.20	14.90	15.90	-0.30	-1.99	15.20	14.60	-0.60	-3.98
267–524	1,830	650	17.10	17.53	16.11	0.43	2.50	17.10	17.37	0.27	1.56
525–886	2,170	730	22.43	23.23	20.59	0.80	3.57	22.43	23.31	0.88	3.92
887 or more	3,730	1,360	33.21	32.75	34.28	-0.46	-1.40	33.21	33.18	-0.04	-0.12
Unknown	1,020	420	12.05	11.59	13.11	-0.46	-3.83	12.05	11.55	-0.50	-4.17
Average amount of grant and scholarship aid received ⁸						(Effect size=0.02)				(Effect size=0.02)	
\$0–\$15,432	2,610	940	27.58	28.38	25.74	0.80	2.90	27.58	28.09	0.51	1.86
\$15,433–\$19,621	1,880	730	18.84	18.67	19.24	-0.17	-0.92	18.84	18.39	-0.45	-2.41
\$19,622–\$25,564	1,940	790	18.94	18.94	18.95	#	-0.01	18.94	18.57	-0.37	-1.96
\$25,565 or more	3,360	1,140	28.37	27.66	30.00	-0.71	-2.49	28.37	28.74	0.37	1.30
Unknown	610	220	6.26	6.35	6.07	0.08	1.34	6.26	6.21	-0.06	-0.90
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁸						(Effect size=0.02)				(Effect size=0.01)	
0–50	2,140	760	18.85	18.70	19.18	-0.14	-0.76	18.85	18.91	0.07	0.36
51–83	2,270	740	18.57	18.94	17.72	0.37	2.00	18.57	18.64	0.06	0.34
84–141	2,090	780	19.95	19.61	20.73	-0.34	-1.70	19.95	19.61	-0.33	-1.67
142 or more	3,270	1,320	35.49	35.34	35.82	-0.15	-0.41	35.49	35.59	0.10	0.28
Unknown	650	230	7.14	7.40	6.56	0.26	3.58	7.14	7.25	0.11	1.47
Veteran status						(Effect size=0.01)				(Effect size=0.01)	
Yes	980	370	4.86	4.99	4.54	0.14	2.83	4.86	5.09	0.23	4.74
No	9,430	3,460	95.14	95.01	95.46	-0.14	-0.14	95.14	94.91	-0.23	-0.24

See notes at end of table.

Table J-57. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in private nonprofit, 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Race						(Effect size=‡)				(Effect size=‡)	
White	6,150	2,010	56.48	59.02	50.64	2.54*	4.49	56.48	58.71	2.23*	3.95
Black or African American	1,230	350	11.27	12.31	8.88	1.04*	9.20	11.27	12.02	0.74*	6.60
Hispanic	1,220	430	12.70	12.97	12.08	0.27	2.13	12.70	13.22	0.52	4.09
Asian	1,340	410	10.89	11.35	9.84	0.46	4.18	10.89	11.71	0.81*	7.48
American Indian or Alaska Native	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
More than one race	340	70	2.79	3.17	1.94	0.37*	13.33	2.79	3.09	0.30	10.62
Unknown	70	540	5.29	0.64	16.01	-4.65*	-87.92	5.29	0.72	-4.57*	-86.43
Sex						(Effect size=‡)				(Effect size=‡)	
Male	4,640	1,890	43.11	40.91	48.18	-2.20*	-5.11	43.11	41.30	-1.81*	-4.20
Female	5,770	1,930	56.81	59.09	51.56	2.28*	4.01	56.81	58.70	1.89*	3.32
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than 30 unweighted 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 calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Student base weight, adjusted for nonresponse.⁴ 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).⁵ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.⁶ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.⁷ Categories were defined by quartiles.⁸ Categories were defined by quartiles computed at the institution level.

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. "Base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Sample sizes rounded to the nearest 10 and, therefore, may not sum to total.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-58. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in private for-profit, less-than-2-year institutions: 2015–16

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ⁵											
						(Effect size=‡)				(Effect size=‡)	
New England	60	90	5.35	4.42	6.17	-0.93	-17.37	5.35	4.37	-0.99	-18.40
Mid East	310	320	22.79	24.94	20.90	2.15	9.44	22.79	24.32	1.54	6.74
Great Lakes	180	150	12.31	14.99	9.96	2.68*	21.78	12.31	15.03	2.72*	22.11
Plains	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Southeast	200	190	14.43	15.36	13.61	0.93	6.48	14.43	14.83	0.40	2.79
Southwest	110	110	8.57	8.47	8.66	-0.10	-1.17	8.57	8.24	-0.34	-3.91
Rocky Mountains	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Far West	280	290	25.36	25.74	25.03	0.38	1.50	25.36	27.28	1.92	7.59
Outlying areas	30	150	8.06	2.79	12.67	-5.27	-65.41	8.06	2.76	-5.29	-65.70
Federal aid status											
						(Effect size=0.03)				(Effect size=0.07)	
Received	960	1,020	77.19	78.10	76.39	0.91	1.18	77.19	75.45	-1.74	-2.25
Did not receive	180	200	16.57	16.40	16.72	-0.17	-1.02	16.57	16.59	0.02	0.12
Unknown	80	100	6.24	5.50	6.89	-0.74	-11.88	6.24	7.96	1.72	27.54
Pell Grant status											
						(Effect size=0.01)				(Effect size=0.07)	
Received	780	860	65.06	64.49	65.55	-0.56	-0.87	65.06	61.80	-3.26	-5.01
Did not receive	430	470	34.94	35.51	34.45	0.56	1.61	34.94	38.20	3.26	9.33
Total Pell amount received ⁶											
						(Effect size=0.04)				(Effect size=0.08)	
None	430	470	34.94	35.51	34.45	0.56	1.61	34.94	38.20	3.26	9.33
\$1–\$2,888	220	280	19.64	18.06	21.03	-1.58	-8.06	19.64	17.31	-2.33*	-11.86
\$2,889–\$5,774	310	340	25.88	26.28	25.53	0.40	1.56	25.88	25.19	-0.69	-2.68
\$5,775	250	240	19.54	20.15	19.00	0.62	3.15	19.54	19.30	-0.23	-1.20

See notes at end of table.

Table J-58. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in private for-profit, less-than-2-year institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Stafford Loan status						(Effect size=0.15)				(Effect size=0.10)	
Received	730	630	52.84	60.55	46.09	7.71*	14.60	52.84	58.04	5.20*	9.84
Did not receive	480	700	47.16	39.45	53.91	-7.71*	-16.35	47.16	41.96	-5.20*	-11.02
Total Stafford amount received ⁷						(Effect size=0.16)				(Effect size=0.12)	
None	480	700	47.16	39.45	53.91	-7.71*	-16.35	47.16	41.96	-5.20*	-11.02
\$1–\$3,959	180	170	12.63	13.94	11.48	1.31	10.39	12.63	13.35	0.73	5.76
\$3,960–\$6,333	170	180	13.82	14.48	13.25	0.66	4.76	13.82	13.88	0.06	0.40
\$6,334–\$9,500	310	220	21.33	26.05	17.19	4.73*	22.16	21.33	24.98	3.65*	17.13
\$9,501 or more	80	60	5.06	6.08	4.18	1.02	20.06	5.06	5.83	0.76	15.06
Institution total enrollment ⁸						(Effect size=0.08)				(Effect size=0.08)	
1–213	330	320	22.93	24.59	21.48	1.65	7.21	22.93	23.93	1.00	4.37
214–421	340	370	30.01	32.13	28.15	2.12	7.07	30.01	32.95	2.94	9.78
422–900	270	340	25.78	23.22	28.02	-2.56	-9.93	25.78	23.60	-2.18	-8.46
901 or more	270	300	21.28	20.06	22.35	-1.22	-5.72	21.28	19.52	-1.76	-8.26
Sampled baccalaureate recipient						(Effect size=‡)				(Effect size=‡)	
Baccalaureate recipient	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not baccalaureate recipient	1,210	1,330	99.97	99.94	100.00	-0.03	-0.03	99.97	99.94	-0.03	-0.03
Age as of Dec 31, 2015						(Effect size=‡)				(Effect size=‡)	
15–23	520	620	44.99	43.69	46.12	-1.30	-2.89	44.99	42.78	-2.21	-4.92
24–29	350	350	27.43	28.08	26.87	0.64	2.34	27.43	28.51	1.08	3.93
30 or older	340	360	27.58	28.24	27.00	0.66	2.38	27.58	28.71	1.13	4.11
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Institutional aid status						(Effect size=0.03)				(Effect size=0.03)	
Received	90	110	7.93	7.73	8.10	-0.20	-2.54	7.93	7.62	-0.31	-3.86
Did not receive	850	910	73.22	74.66	71.96	1.44	1.97	73.22	72.53	-0.69	-0.94
Unknown	270	310	18.85	17.61	19.94	-1.24	-6.58	18.85	19.85	1.00	5.29

See notes at end of table.

Table J-58. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in private for-profit, less-than-2-year institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
State aid status						(Effect size=0.04)				(Effect size=0.05)	
Received	40	60	3.75	3.17	4.26	-0.58	-15.47	3.75	3.06	-0.69	-18.50
Did not receive	870	930	75.51	77.13	74.10	1.62	2.15	75.51	74.84	-0.67	-0.89
Unknown	300	340	20.73	19.69	21.64	-1.04	-5.02	20.73	22.10	1.36	6.58
Parent's highest level of education						(Effect size=0.06)				(Effect size=0.06)	
Middle school/junior high	40	50	4.76	3.79	5.64	-0.99	-20.70	4.76	3.78	-0.98*	-20.57
High school	370	370	33.68	34.69	32.78	1.02	3.02	33.68	34.63	0.94	2.80
College or beyond	380	380	35.52	37.13	34.06	1.64	4.61	35.52	37.24	1.73	4.86
Unknown	250	280	26.04	24.39	27.52	-1.67	-6.41	26.04	24.35	-1.69	-6.48
Marital status						(Effect size=‡)				(Effect size=‡)	
Unmarried-single/divorce/widow	820	880	80.68	81.19	80.22	0.52	0.64	80.68	81.21	0.53	0.66
Married/remarried	130	120	11.78	12.09	11.50	0.32	2.68	11.78	12.07	0.29	2.49
Separated	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Divorced or widowed	50	40	4.06	4.46	3.71	0.40	9.86	4.06	4.46	0.40	9.73
Support children						(Effect size=‡)				(Effect size=‡)	
Has dependents	420	410	39.22	40.80	37.80	1.60	4.09	39.22	40.72	1.50	3.83
Does not have dependents	600	680	60.78	59.20	62.20	-1.60	-2.64	60.78	59.28	-1.50	-2.47
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Income ⁷						(Effect size=‡)				(Effect size=‡)	
\$0 or less	140	200	16.72	13.65	19.48	-3.11§	-18.59	16.72	13.62	-3.10*	-18.53
\$1–\$3,670	70	120	8.36	5.84	10.62	-2.55*	-30.50	8.36	5.83	-2.53*	-30.25
\$3,671–\$14,535	270	260	24.94	25.79	24.18	0.86	3.44	24.94	25.76	0.82	3.31
\$14,536–\$30,242	280	240	25.49	27.79	23.42	2.33	9.15	25.49	27.77	2.28	8.95
\$30,243 or more	270	260	23.64	26.20	21.34	2.59	10.96	23.64	26.27	2.63	11.12
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-58. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in private for-profit, less-than-2-year institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Major						(Effect size=±)				(Effect size=±)	
Undecided	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Humanities	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Social/behavioral sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Life sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Physical sciences/math	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Computer/information science	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Engineering	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Education	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Business/Management	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Health	440	410	37.34	40.23	34.79	2.90	7.77	37.34	41.09	3.75	10.03
Vocational/technical	120	150	8.47	7.63	9.22	-0.84	-9.96	8.47	7.49	-0.99	-11.66
Other technical/professional	470	420	36.81	39.85	34.12	3.06	8.30	36.81	38.70	1.88	5.11
Unknown	70	220	9.30	4.39	13.65	-4.94§	-53.13	9.30	4.87	-4.43	-47.62
Degree program (undergraduate only)						(Effect size=±)				(Effect size=±)	
Postsecondary award, certificate or diploma of less than two academic years	1,190	1,260	98.01	99.40	96.80	1.39	1.42	98.01	99.42	1.41	1.44
Associate's degree	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Postsecondary award, certificate, diploma, or degree program	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bachelor's degree or equivalent	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵						(Effect size=0.11)				(Effect size=0.12)	
1–67	380	350	27.30	31.39	23.72	4.09*	14.98	27.30	32.15	4.85*	17.76
68–79	290	330	24.93	23.92	25.82	-1.01	-4.06	24.93	23.83	-1.10	-4.43
80–89	220	270	23.06	21.22	24.68	-1.85	-8.00	23.06	21.22	-1.85	-8.01
90 or more	250	300	19.11	17.14	20.84	-1.97	-10.32	19.11	16.63	-2.48	-12.99
None or unknown	80	80	5.59	6.33	4.94	0.74	13.28	5.59	6.18	0.59	10.51

See notes at end of table.

Table J-58. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in private for-profit, less-than-2-year institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non- respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non- respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Number of first-time, full-time undergraduate students living on campus ⁸						(Effect size=#)				(Effect size=#)	
Unknown	1,210	1,330	100.00	100.00	100.00	#	#	100.00	100.00	#	#
Average amount of grant and scholarship aid received ⁸						(Effect size=0.08)				(Effect size=0.10)	
\$0–\$3,874	290	340	22.99	20.57	25.10	-2.42	-10.51	22.99	20.01	-2.97	-12.93
\$3,875–\$4,359	310	320	23.59	25.57	21.85	1.99	8.43	23.59	27.09	3.51	14.86
\$4,360–\$5,003	290	300	25.02	25.81	24.32	0.79	3.17	25.02	25.60	0.58	2.31
\$5,004 or more	230	280	22.68	21.63	23.60	-1.05	-4.61	22.68	21.05	-1.64	-7.21
Unknown	80	80	5.73	6.41	5.13	0.68	11.92	5.73	6.25	0.52	9.16
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁸						(Effect size=0.09)				(Effect size=0.08)	
0–24	220	270	18.28	17.63	18.84	-0.64	-3.52	18.28	19.23	0.96	5.24
25–49	370	330	30.48	34.09	27.33	3.61	11.83	30.48	33.14	2.65	8.70
50–170	230	280	19.93	18.94	20.79	-0.99	-4.94	19.93	18.48	-1.44	-7.25
171 or more	310	360	25.58	22.92	27.91	-2.66	-10.40	25.58	22.89	-2.69	-10.52
Unknown	80	80	5.73	6.41	5.13	0.68	11.92	5.73	6.25	0.52	9.16
Veteran status						(Effect size=0.02)				(Effect size=0.01)	
Yes	120	100	5.35	5.73	5.03	0.37	6.98	5.35	5.62	0.27	5.00
No	1,090	1,230	94.65	94.27	94.97	-0.37	-0.39	94.65	94.38	-0.27	-0.28

See notes at end of table.

Table J-58. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in private for-profit, less-than-2-year institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Race						(Effect size=‡)				(Effect size=‡)	
White	460	490	35.03	36.58	33.68	1.55	4.42	35.03	36.87	1.84	5.24
Black or African American	340	290	23.79	26.65	21.29	2.86	12.02	23.79	26.11	2.32	9.75
Hispanic	320	420	32.65	29.60	35.32	-3.05	-9.34	32.65	29.71	-2.95	-9.02
Asian	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
American Indian or Alaska Native	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
More than one race	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Sex						(Effect size=‡)				(Effect size=‡)	
Male	310	420	27.82	23.55	31.55	-4.27*	-15.36	27.82	24.29	-3.52*	-12.66
Female	900	910	72.18	76.45	68.45	4.27*	5.92	72.18	75.71	3.52*	4.88
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than 30 unweighted nonrespondents).

* $p < 0.05$ § $p < 0.05$ for difference between weighted respondent mean and weighted nonrespondent mean but not for estimated bias.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 calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Student base weight, adjusted for nonresponse.⁴ 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).⁵ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.⁶ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.⁷ Categories were defined by quartiles.⁸ Categories were defined by quartiles computed at the institution level.

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. "Base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Sample sizes rounded to the nearest 10 and, therefore, may not sum to total.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-59. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in private for-profit, 2-year institutions: 2015–16

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ⁵						(Effect size=0.10)				(Effect size=0.11)	
New England	40	60	0.60	0.50	0.71	-0.11	-17.43	0.60	0.50	-0.11	-17.91
Mid East	490	430	15.74	17.43	13.99	1.69	10.72	15.74	17.66	1.92	12.21
Great Lakes	300	300	9.53	9.54	9.53	0.01	0.07	9.53	9.52	-0.01	-0.15
Plains	110	80	3.16	3.44	2.87	0.28	8.76	3.16	3.40	0.24	7.71
Southeast	740	670	25.11	25.13	25.09	0.02	0.08	25.11	24.91	-0.20	-0.81
Southwest	570	620	15.24	14.57	15.94	-0.67	-4.40	15.24	14.44	-0.80	-5.28
Rocky Mountains	100	90	3.16	3.35	2.97	0.18	5.81	3.16	3.29	0.13	3.99
Far West	630	590	20.68	21.58	19.75	0.90	4.36	20.68	21.92	1.24	5.99
Outlying areas	110	210	6.76	4.47	9.15	-2.30	-33.99	6.76	4.36	-2.40	-35.49
Federal aid status						(Effect size=0.10)				(Effect size=0.04)	
Received	2,630	2,360	82.24	85.83	78.52	3.59*	4.37	82.24	83.70	1.46	1.77
Did not receive	300	400	12.12	10.19	14.12	-1.93*	-15.91	12.12	10.99	-1.14	-9.39
Unknown	150	280	5.63	3.97	7.35	-1.66*	-29.49	5.63	5.31	-0.32	-5.64
Pell Grant status						(Effect size=0.08)				(Effect size=0.03)	
Received	2,260	2,010	70.84	74.48	67.07	3.64*	5.14	70.84	72.31	1.47	2.07
Did not receive	820	1,030	29.16	25.52	32.93	-3.64*	-12.50	29.16	27.69	-1.47	-5.04
Total Pell amount received ⁶						(Effect size=0.11)				(Effect size=0.08)	
None	820	1,030	29.16	25.52	32.93	-3.64*	-12.50	29.16	27.69	-1.47	-5.04
\$1–\$2,888	570	670	19.29	17.79	20.84	-1.50*	-7.77	19.29	17.28	-2.01*	-10.42
\$2,889–\$5,774	880	780	27.45	28.94	25.91	1.49	5.43	27.45	28.10	0.65	2.37
\$5,775	810	570	24.10	27.75	20.32	3.65*	15.16	24.10	26.93	2.83*	11.74

See notes at end of table.

Table J-59. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in private for-profit, 2-year institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Stafford Loan status						(Effect size=0.14)				(Effect size=0.10)	
Received	1,990	1,570	57.43	64.17	50.45	6.74*	11.73	57.43	62.32	4.88*	8.50
Did not receive	1,080	1,470	42.57	35.83	49.55	-6.74*	-15.83	42.57	37.68	-4.88*	-11.47
Total Stafford amount received ⁷						(Effect size=0.17)				(Effect size=0.14)	
None	1,080	1,470	42.57	35.83	49.55	-6.74*	-15.83	42.57	37.68	-4.88*	-11.47
\$1–\$4,750	430	530	15.73	14.09	17.43	-1.64*	-10.43	15.73	13.67	-2.06*	-13.08
\$4,751–\$7,719	480	340	13.19	15.19	11.11	2.01*	15.20	13.19	14.75	1.56*	11.81
\$7,720–\$9,500	590	390	15.27	18.48	11.94	3.21*	21.04	15.27	17.96	2.69*	17.63
\$9,501 or more	490	310	13.25	16.41	9.98	3.16*	23.87	13.25	15.94	2.69*	20.30
Institution total enrollment ⁸						(Effect size=0.04)				(Effect size=0.05)	
1–652	810	810	30.25	31.41	29.05	1.16	3.82	30.25	31.60	1.35	4.45
653–971	790	760	22.52	22.09	22.97	-0.43	-1.93	22.52	22.34	-0.18	-0.78
972–2,194	820	730	21.68	22.41	20.93	0.73	3.36	21.68	22.38	0.69	3.20
2,195 or more	660	740	25.55	24.10	27.05	-1.45	-5.68	25.55	23.68	-1.87	-7.30
Sampled baccalaureate recipient						(Effect size=±)				(Effect size=±)	
Baccalaureate recipient	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Not baccalaureate recipient	3,070	3,040	99.61	99.24	100.00	-0.37	-0.37	99.61	99.26	-0.35	-0.35
Age as of Dec 31, 2015						(Effect size=±)				(Effect size=±)	
15–23	1,310	1,390	43.20	42.45	43.99	-0.76	-1.76	43.20	42.54	-0.67	-1.54
24–29	800	750	24.97	25.59	24.33	0.62	2.48	24.97	25.50	0.53	2.14
30 or older	960	880	31.64	31.97	31.30	0.33	1.04	31.64	31.96	0.32	1.02
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Institutional aid status						(Effect size=0.01)				(Effect size=0.02)	
Received	230	220	9.88	9.98	9.77	0.10	1.03	9.88	9.75	-0.13	-1.30
Did not receive	1,990	1,970	66.59	66.33	66.86	-0.26	-0.39	66.59	65.66	-0.93	-1.40
Unknown	850	860	23.54	23.70	23.37	0.16	0.67	23.54	24.60	1.06	4.50

See notes at end of table.

Table J-59. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in private for-profit, 2-year institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
State aid status						(Effect size=0.04)				(Effect size=0.04)	
Received	190	150	7.96	8.97	6.91	1.02*	12.76	7.96	8.74	0.79	9.86
Did not receive	2,000	2,010	66.96	65.63	68.34	-1.33	-1.99	66.96	65.00	-1.97	-2.93
Unknown	890	890	25.08	25.39	24.75	0.31	1.25	25.08	26.26	1.18	4.71
Parent's highest level of education						(Effect size=0.04)				(Effect size=0.05)	
Middle school/junior high	160	160	5.63	5.32	5.97	-0.32	-5.65	5.63	5.33	-0.30	-5.29
High school	1,000	920	34.81	35.66	33.89	0.87	2.51	34.81	35.56	0.75	2.15
College or beyond	990	870	33.35	34.54	32.06	1.22	3.65	33.35	34.69	1.34	4.02
Unknown	680	710	26.21	24.48	28.09	-1.77	-6.76	26.21	24.42	-1.79	-6.83
Marital status						(Effect size=0.03)				(Effect size=0.03)	
Unmarried-single/divorce/widow	2,130	2,080	75.92	75.68	76.18	-0.24	-0.32	75.92	75.72	-0.20	-0.27
Married/remarried	440	350	14.93	15.68	14.12	0.77	5.14	14.93	15.66	0.72	4.85
Separated	110	100	3.76	3.72	3.81	-0.04	-1.18	3.76	3.70	-0.06	-1.52
Divorced or widowed	140	130	5.38	4.92	5.89	-0.48	-8.88	5.38	4.92	-0.46	-8.63
Support children						(Effect size=‡)				(Effect size=‡)	
Has dependents	1,170	1,050	39.49	40.23	38.69	0.76	1.92	39.49	40.10	0.62	1.56
Does not have dependents	1,650	1,610	60.51	59.77	61.31	-0.76	-1.25	60.51	59.90	-0.62	-1.02
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Income ⁷						(Effect size=‡)				(Effect size=‡)	
\$0 or less	350	360	13.07	12.15	14.06	-0.94	-7.18	13.07	12.14	-0.93	-7.15
\$1–\$5,696	300	340	12.90	11.47	14.43	-1.45	-11.28	12.90	11.44	-1.45	-11.27
\$5,697–\$15,940	710	650	24.72	25.31	24.07	0.61	2.46	24.72	25.26	0.54	2.19
\$15,941–\$32,511	740	620	24.30	25.81	22.67	1.54*	6.34	24.30	25.79	1.49	6.14
\$32,512 or more	710	650	24.51	24.94	24.05	0.44	1.78	24.51	25.05	0.53	2.18
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-59. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in private for-profit, 2-year institutions: 2015–16—Continued

Variable	Before weight adjustments						After nonresponse weight adjustment				
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Major						(Effect size=‡)				(Effect size=‡)	
Undecided	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Humanities	80	130	5.67	4.38	7.01	-1.29	-22.76	5.67	4.90	-0.77	-13.54
Social/behavioral sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Life sciences	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Physical sciences/math	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Computer/information science	80	60	2.77	3.19	2.33	0.42*	15.28	2.77	3.24	0.47*	16.80
Engineering	120	80	4.14	4.93	3.30	0.80	19.35	4.14	4.88	0.74	17.94
Education	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Business/Management	170	90	3.77	4.57	2.94	0.80*	21.24	3.77	4.51	0.74*	19.60
Health	1,760	1,610	51.54	53.72	49.26	2.19	4.25	51.54	53.36	1.82	3.54
Vocational/technical	450	570	17.97	16.19	19.83	-1.79*	-9.94	17.97	16.22	-1.75*	-9.75
Other technical/professional	320	370	11.88	10.81	12.99	-1.07	-9.01	11.88	10.65	-1.22	-10.31
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Degree program (undergraduate only)						(Effect size=‡)				(Effect size=‡)	
Postsecondary award, certificate or diploma of less than two academic years	1,700	2,030	61.90	55.29	68.75	-6.61*	-10.68	61.90	55.05	-6.85*	-11.06
Associate's degree	1,370	970	37.20	44.28	29.86	7.08*	19.04	37.20	44.44	7.24*	19.46
Postsecondary award, certificate, diploma, or degree program	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Bachelor's degree or equivalent	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵						(Effect size=0.03)				(Effect size=0.03)	
1–75	660	680	24.85	24.00	25.73	-0.85	-3.41	24.85	24.35	-0.50	-2.02
76–83	990	920	26.47	27.67	25.21	1.21	4.57	26.47	27.62	1.15	4.35
84–92	830	780	23.24	23.23	23.25	-0.01	-0.06	23.24	23.00	-0.24	-1.05
93 or more	590	670	25.45	25.10	25.81	-0.35	-1.37	25.45	25.04	-0.40	-1.59

See notes at end of table.

Table J-59. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in private for-profit, 2-year institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non- respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non- respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Number of first-time, full-time undergraduate students living on campus ⁸						(Effect size=‡)				(Effect size=‡)	
0–39	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	3,030	3,040	98.68	97.68	99.72	-1.00	-1.02	98.68	97.44	-1.24	-1.25
Average amount of grant and scholarship aid received ⁸						(Effect size=0.03)				(Effect size=0.04)	
\$0–\$3,947	680	670	17.48	17.83	17.11	0.35	2.03	17.48	18.17	0.70	3.98
\$3,948–\$4,670	680	690	22.60	21.90	23.32	-0.70	-3.10	22.60	21.63	-0.97	-4.30
\$4,671–\$5,334	780	800	30.64	29.97	31.34	-0.67	-2.19	30.64	29.82	-0.82	-2.68
\$5,335 or more	780	740	26.00	27.07	24.90	1.07	4.11	26.00	27.14	1.14	4.37
Unknown	150	140	3.27	3.22	3.33	-0.05	-1.56	3.27	3.23	-0.04	-1.26
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁸						(Effect size=0.09)				(Effect size=0.10)	
0–32	520	410	22.51	25.70	19.20	3.19*	14.18	22.51	25.96	3.45*	15.35
33–79	790	790	22.34	22.89	21.77	0.55	2.45	22.34	22.91	0.57	2.55
80–133	780	810	23.82	23.18	24.48	-0.64	-2.68	23.82	23.02	-0.80	-3.38
134 or more	840	900	28.06	25.01	31.22	-3.05	-10.87	28.06	24.88	-3.18	-11.33
Unknown	150	140	3.27	3.22	3.33	-0.05	-1.56	3.27	3.23	-0.04	-1.26
Veteran status						(Effect size=0.01)				(Effect size=0.01)	
Yes	210	230	7.79	7.40	8.20	-0.39	-5.01	7.79	7.45	-0.34	-4.41
No	2,860	2,810	92.21	92.60	91.80	0.39	0.42	92.21	92.55	0.34	0.37

See notes at end of table.

Table J-59. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in private for-profit, 2-year institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Race						(Effect size=‡)				(Effect size=‡)	
White	1,010	860	32.93	35.22	30.56	2.29*	6.96	32.93	35.08	2.15	6.53
Black or African American	840	660	22.57	24.61	20.45	2.04*	9.06	22.57	24.33	1.76	7.82
Hispanic	900	840	29.82	29.45	30.21	-0.37	-1.25	29.82	29.64	-0.18	-0.61
Asian	120	150	5.04	3.89	6.23	-1.15	-22.84	5.04	4.08	-0.96	-19.01
American Indian or Alaska Native	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
More than one race	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Sex						(Effect size=‡)				(Effect size=‡)	
Male	1,010	1,240	39.92	36.55	43.41	-3.37*	-8.44	39.92	37.00	-2.92*	-7.32
Female	2,060	1,780	59.90	63.45	56.21	3.55*	5.93	59.90	63.00	3.11*	5.18
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than 30 unweighted 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 calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Student base weight, adjusted for nonresponse.⁴ 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).⁵ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.⁶ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.⁷ Categories were defined by quartiles.⁸ Categories were defined by quartiles computed at the institution level.

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. "Base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Sample sizes rounded to the nearest 10 and, therefore, may not sum to total.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-60. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in private for-profit, 4-year institutions: 2015–16

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Respondents vs. Full sample					Means		Full sample vs. Respondents	
			Means, base weighted								
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ⁵
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ⁵						(Effect size=0.06)			(Effect size=0.15)		
New England	70	60	0.12	0.08	0.19	-0.04	-32.33	0.12	0.08	-0.04	-34.24
Mid East	1,800	940	6.35	6.66	5.81	0.31	4.85	6.35	6.30	-0.05	-0.86
Great Lakes	1,930	1,220	11.39	10.42	13.08	-0.97	-8.48	11.39	9.53	-1.86*	-16.32
Plains	1,820	970	18.43	19.19	17.09	0.76	4.14	18.43	23.85	5.42	29.40
Southeast	5,160	2,580	22.89	21.72	24.94	-1.17	-5.12	22.89	21.04	-1.85	-8.08
Southwest	2,700	1,400	20.14	21.67	17.46	1.53	7.60	20.14	20.04	-0.10	-0.48
Rocky Mountains	1,430	730	4.73	4.75	4.70	0.02	0.43	4.73	4.38	-0.35	-7.46
Far West	2,880	1,670	14.80	14.60	15.14	-0.19	-1.31	14.80	13.97	-0.82	-5.57
Outlying areas	260	250	1.15	0.90	1.59	-0.25*	-21.77	1.15	0.81	-0.34*	-29.59
Student type						(Effect size=0.10)			(Effect size=0.06)		
Undergraduate student	13,060	7,660	75.30	70.93	82.95	-4.36*	-5.80	75.30	72.89	-2.41	-3.20
Graduate student	4,090	1,850	23.54	27.62	16.37	4.09*	17.36	23.54	25.79	2.25	9.57
First professional student	900	310	1.17	1.45	0.68	0.28*	23.77	1.17	1.33	0.16	13.47
Federal aid status						(Effect size=0.10)			(Effect size=0.16)		
Received	13,030	6,160	70.09	74.41	62.52	4.32*	6.16	70.09	68.15	-1.94	-2.76
Did not receive	4,160	2,850	22.07	19.98	25.75	-2.10*	-9.49	22.07	19.89	-2.18*	-9.87
Unknown	870	810	7.84	5.62	11.73	-2.22	-28.34	7.84	11.95	4.11	52.48
Pell Grant status						(Effect size=0.11)			(Effect size=0.03)		
Received	6,890	3,510	50.66	56.20	42.35	5.03*	9.93	50.66	48.96	-1.70	-3.36
Did not receive	6,170	4,150	49.34	43.80	57.65	-5.03*	-10.19	49.34	51.04	1.70	3.44
Total Pell amount received ⁶						(Effect size=0.15)			(Effect size=0.10)		
None	6,170	4,150	49.34	43.80	57.65	-5.03*	-10.19	49.34	51.04	1.70	3.44
\$1–\$2,888	2,360	1,500	16.18	14.90	18.11	-1.17	-7.21	16.18	12.98	-3.20*	-19.75
\$2,889–\$5,774	2,640	1,260	19.67	22.15	15.95	2.25*	11.45	19.67	19.30	-0.37	-1.89
\$5,775	1,880	740	14.81	19.15	8.30	3.94*	26.62	14.81	16.67	1.87	12.61

See notes at end of table.

Table J-60. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in private for-profit, 4-year institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Respondents vs. Full sample					Means		Full sample vs. Respondents	
			Means, base weighted								
			Full sample	Respondent	Non-respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Stafford Loan status						(Effect size=0.13)			(Effect size=#)		
Received	9,920	4,280	52.98	59.22	42.04	6.24*	11.78	52.98	53.03	0.06	0.10
Did not receive	8,130	5,540	47.02	40.78	57.96	-6.24*	-13.27	47.02	46.97	-0.06	-0.12
Total Stafford amount received ⁷						(Effect size=0.14)			(Effect size=0.06)		
None	8,130	5,540	47.02	40.78	57.96	-6.24*	-13.27	47.02	46.97	-0.06	-0.12
\$1–\$4,611	2,220	1,330	12.05	11.62	12.80	-0.43	-3.55	12.05	10.40	-1.65*	-13.66
\$4,612–\$8,547	2,440	1,110	13.30	15.19	9.97	1.90*	14.26	13.30	13.60	0.30	2.29
\$8,548–\$13,404	2,570	980	15.58	18.57	10.33	2.99*	19.20	15.58	16.64	1.06	6.82
\$13,405 or more	2,700	850	12.06	13.84	8.93	1.78*	14.78	12.06	12.40	0.33	2.77
Institution total enrollment ⁸						(Effect size=0.03)			(Effect size=0.06)		
1–1,206	4,350	2,370	13.18	13.05	13.41	-0.13	-0.99	13.18	12.14	-1.04	-7.90
1,207–2,414	3,920	2,290	9.53	8.71	10.96	-0.82*	-8.56	9.53	8.16	-1.37*	-14.39
2,415–10,368	4,770	2,510	12.71	13.45	11.41	0.74	5.83	12.71	12.47	-0.24	-1.86
10,369 or more	5,020	2,650	64.59	64.79	64.23	0.21	0.32	64.59	67.24	2.65	4.10
Sampled baccalaureate recipient						(Effect size=0.01)			(Effect size=0.01)		
Baccalaureate recipient	8,550	4,380	7.26	7.59	6.67	0.33	4.62	7.26	7.11	-0.14	-1.97
Not baccalaureate recipient	9,510	5,430	92.74	92.41	93.33	-0.33	-0.36	92.74	92.89	0.14	0.15
Age as of Dec 31, 2015						(Effect size=‡)			(Effect size=‡)		
15–23	3,310	1,900	17.20	16.33	18.73	-0.87	-5.07	17.20	15.94	-1.26	-7.31
24–29	4,880	2,820	24.27	23.98	24.78	-0.29	-1.19	24.27	24.32	0.05	0.20
30 or older	9,860	4,740	55.57	59.64	48.43	4.07*	7.32	55.57	59.74	4.17*	7.50
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Institutional aid status						(Effect size=0.05)			(Effect size=0.10)		
Received	6,010	2,950	31.37	32.80	28.88	1.42	4.54	31.37	30.86	-0.52	-1.65
Did not receive	9,560	5,200	50.76	51.07	50.22	0.31	0.61	50.76	47.66	-3.10	-6.11
Unknown	2,480	1,670	17.87	16.13	20.91	-1.73	-9.71	17.87	21.49	3.62	20.27

See notes at end of table.

Table J-60. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in private for-profit, 4-year institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non- respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non- respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
State aid status						(Effect size=0.05)				(Effect size=0.09)	
Received	1,170	540	4.57	4.98	3.85	0.41	8.98	4.57	4.46	-0.11	-2.39
Did not receive	14,300	7,580	77.31	78.69	74.90	1.38	1.78	77.31	73.86	-3.46	-4.47
Unknown	2,580	1,700	18.11	16.32	21.25	-1.79	-9.87	18.11	21.68	3.56	19.68
Parent's highest level of education						(Effect size=0.02)				(Effect size=0.02)	
Middle school/junior high	600	290	3.82	4.04	3.35	0.25	6.49	3.82	4.02	0.21	5.44
High school	4,620	2,230	38.00	37.78	38.45	-0.24	-0.64	38.00	37.64	-0.35	-0.93
College or beyond	6,630	3,060	43.42	43.88	42.46	0.51	1.18	43.42	44.06	0.64	1.48
Unknown	2,120	1,080	14.77	14.31	15.73	-0.52	-3.50	14.77	14.27	-0.50	-3.38
Marital status						(Effect size=0.06)				(Effect size=0.06)	
Unmarried-single/divorce/widow	8,740	4,300	56.37	53.73	61.94	-2.98*	-5.29	56.37	53.85	-2.53*	-4.48
Married/remarried	3,740	1,630	30.97	33.69	25.24	3.07*	9.91	30.97	33.59	2.63	8.49
Separated	460	230	4.12	4.29	3.76	0.19	4.71	4.12	4.29	0.17	4.03
Divorced or widowed	1,040	490	8.54	8.29	9.06	-0.28	-3.30	8.54	8.27	-0.27	-3.15
Support children						(Effect size=‡)				(Effect size=‡)	
Has dependents	5,980	2,760	53.75	55.48	50.10	1.95*	3.63	53.75	55.28	1.53	2.84
Does not have dependents	8,000	3,890	46.25	44.52	49.90	-1.95*	-4.22	46.25	44.72	-1.53	-3.30
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Income ⁷						(Effect size=0.07)				(Effect size=0.06)	
\$0 or less	1,350	720	8.52	7.79	10.05	-0.82*	-9.64	8.52	7.78	-0.75*	-8.75
\$1–\$9,717	2,070	1,000	14.03	14.09	13.92	0.06	0.45	14.03	14.06	0.02	0.18
\$9,718–\$24,925	3,440	1,700	25.34	23.80	28.58	-1.74*	-6.85	25.34	23.79	-1.55*	-6.11
\$24,926–\$50,769	3,530	1,610	26.60	27.57	24.57	1.09*	4.09	26.60	27.60	0.99	3.74
\$50,770 or more	3,550	1,590	25.13	26.61	22.01	1.67*	6.64	25.13	26.63	1.50	5.96
Unknown	30	40	0.37	0.14	0.86	-0.26*	-70.18	0.37	0.15	-0.22*	-59.78

See notes at end of table.

Table J-60. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in private for-profit, 4-year institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Respondents vs. Full sample					Means		Full sample vs. Respondents	
			Means, base weighted			Estimated bias ¹	Relative bias ²				
			Full sample	Respondent	Non-respondent			Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ⁵
Major						(Effect size=‡)				(Effect size=‡)	
Undecided	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Humanities	1,820	1,060	9.30	10.38	7.66	0.99	10.63	9.30	9.92	0.62	6.64
Social/behavioral sciences	450	90	4.46	5.58	2.75	1.03*	23.05	4.46	5.58	1.13*	25.30
Life sciences	190	150	2.46	2.03	3.11	-0.39	-15.97	2.46	2.11	-0.35	-14.05
Physical sciences/math	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Computer/information science	1,820	1,060	8.68	8.68	8.69	#	-0.05	8.68	8.48	-0.20	-2.34
Engineering	560	360	3.89	3.68	4.20	-0.19	-4.89	3.89	3.79	-0.10	-2.57
Education	460	170	2.74	3.49	1.59	0.69	25.26	2.74	3.11	0.37	13.66
Business/Management	2,190	1,250	23.66	24.53	22.35	0.79	3.34	23.66	23.30	-0.36	-1.53
Health	3,370	1,760	23.55	24.73	21.75	1.08	4.60	23.55	23.85	0.30	1.28
Vocational/technical	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Other technical/professional	2,000	1,120	13.79	14.72	12.36	0.86	6.23	13.79	15.06	1.28	9.25
Unknown	140	640	7.07	1.51	15.52	-5.09	-71.97	7.07	3.39	-3.68*	-52.07
Degree program (undergraduate only)						(Effect size=‡)				(Effect size=‡)	
Postsecondary award, certificate or diploma of less than two academic years	300	230	3.88	3.22	4.86	-0.60	-15.43	3.88	3.71	-0.17	-4.38
Associate's degree	2,120	1,420	27.63	28.79	25.89	1.05	3.81	27.63	28.79	1.16	4.21
Postsecondary award, certificate, diploma, or degree program	10,630	5,670	64.13	67.94	58.42	3.46	5.39	64.13	67.45	3.32	5.18
Bachelor's degree or equivalent	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁸						(Effect size=0.09)				(Effect size=0.10)	
1–75	3,060	1,810	17.44	15.48	20.87	-1.96	-11.23	17.44	20.33	2.88	16.54
76–88	4,890	2,650	28.06	28.42	27.45	0.35	1.25	28.06	26.59	-1.47	-5.25
89–95	4,740	2,680	30.88	29.18	33.87	-1.70	-5.52	30.88	28.01	-2.88*	-9.31
96 or more	3,270	1,710	20.08	23.06	14.85	2.98*	14.84	20.08	21.30	1.22	6.09
None or unknown	2,100	960	3.53	3.86	2.95	0.33§	9.36	3.53	3.77	0.24	6.83

See notes at end of table.

Table J-60. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in private for-profit, 4-year institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non- respondents (non-study members)	Means, base weighted			Respondents vs. Full sample		Means		Full sample vs. Respondents	
			Full sample	Respondent	Non- respondent	Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
Number of first-time, full-time undergraduate students living on campus ⁸						(Effect size=0.05)				(Effect size=0.04)	
0–32	590	350	1.32	1.17	1.60	-0.16*	-11.85	1.32	1.06	-0.26*	-19.63
33–50	550	380	1.19	1.06	1.41	-0.12	-10.51	1.19	0.96	-0.23*	-19.24
51–99	930	490	7.87	7.88	7.84	0.02	0.20	7.87	7.36	-0.51	-6.42
100 or more	1,440	620	9.63	10.89	7.41	1.27	13.14	9.63	10.41	0.78	8.14
Unknown	14,540	7,980	79.99	79.00	81.75	-1.00	-1.25	79.99	80.20	0.21	0.26
Average amount of grant and scholarship aid received ⁸						(Effect size=0.06)				(Effect size=0.08)	
\$0–\$4,371	2,680	1,460	24.26	25.11	22.77	0.85	3.50	24.26	24.57	0.31	1.26
\$4,372–\$5,234	3,310	2,210	16.44	14.79	19.33	-1.65*	-10.04	16.44	13.70	-2.74*	-16.65
\$5,235–\$6,392	4,900	2,760	30.54	29.42	32.50	-1.12	-3.66	30.54	32.84	2.30	7.54
\$6,393 or more	4,700	2,230	24.97	26.56	22.16	1.60	6.40	24.97	24.88	-0.08	-0.33
Unknown	2,470	1,150	3.80	4.12	3.23	0.32	8.45	3.80	4.01	0.21	5.57
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁸						(Effect size=0.03)				(Effect size=0.11)	
0–12	3,630	1,990	22.87	23.21	22.28	0.34	1.48	22.87	27.20	4.33	18.94
13–33	2,530	1,420	7.91	7.50	8.62	-0.41	-5.18	7.91	7.01	-0.89*	-11.28
34–91	2,620	1,620	8.50	7.78	9.76	-0.72*	-8.48	8.50	7.12	-1.39*	-16.29
92 or more	6,980	3,710	57.28	57.78	56.40	0.50	0.87	57.28	55.00	-2.27	-3.97
Unknown	2,290	1,080	3.45	3.74	2.94	0.29	8.45	3.45	3.66	0.22	6.29
Veteran status						(Effect size=0.02)				(Effect size=0.03)	
Yes	2,100	1,260	14.03	13.27	15.35	-0.75	-5.37	14.03	13.14	-0.88	-6.30
No	15,950	8,560	85.97	86.73	84.65	0.75	0.88	85.97	86.86	0.88	1.03

See notes at end of table.

Table J-60. Student-level (interview respondent) nonresponse bias analysis for selected variables for students in private for-profit, 4-year institutions: 2015–16—Continued

Variable	Before weight adjustments							After nonresponse weight adjustment			
	Unweighted respondents (study members)	Unweighted non-respondents (non-study members)	Respondents vs. Full sample					Means		Full sample vs. Respondents	
			Means, base weighted			Estimated bias ¹	Relative bias ²	Full sample, base weighted	Respondents, nonresponse adjusted ³	Estimated bias ⁴	Relative bias ²
			Full sample	Respondent	Non-respondent						
Race							(Effect size=0.34)			(Effect size=0.33)	
White	7,740	3,330	41.89	46.53	33.75	4.64*	11.08	41.89	47.13	5.24*	12.51
Black or African American	4,880	1,720	25.78	30.17	18.10	4.38*	17.00	25.78	29.69	3.91*	15.15
Hispanic	3,080	1,460	14.50	14.11	15.18	-0.39	-2.69	14.50	13.91	-0.58	-4.03
Asian	1,390	590	3.73	4.07	3.12	0.35	9.32	3.73	4.22	0.49	13.17
American Indian or Alaska Native	110	70	0.53	0.58	0.45	0.05	9.33	0.53	0.60	0.07	12.83
Native Hawaiian or other Pacific Islander	120	110	0.53	0.60	0.39	0.08	14.44	0.53	0.61	0.08	15.92
More than one race	670	40	2.72	3.64	1.12	0.92*	33.65	2.72	3.44	0.72*	26.44
Unknown	50	2,520	10.32	0.30	27.89	-10.02*	-97.13	10.32	0.40	-9.92*	-96.16
Sex						(Effect size=‡)				(Effect size=‡)	
Male	6,940	4,180	35.37	33.27	39.05	-2.10*	-5.93	35.37	33.50	-1.87*	-5.29
Female	11,120	5,300	61.53	66.71	52.44	5.18*	8.42	61.53	66.50	4.97	8.08
Unknown	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than 30 unweighted nonrespondents).

* $p < 0.05$ § $p < 0.05$ for difference between weighted respondent mean and weighted nonrespondent mean but not for estimated bias.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 calculated as 100 times the ratio of estimated bias to the weighted full-sample mean.³ Student base weight, adjusted for nonresponse.⁴ 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).⁵ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.⁶ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.⁷ Categories were defined by quartiles.⁸ Categories were defined by quartiles computed at the institution level.

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. "Base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Sample sizes rounded to the nearest 10 and, therefore, may not sum to total.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-61. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in all institutions: 2015–16

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Control and level of institution					
Public less-than-2-year	0.15	0.18	0.24	-0.09*	-0.06*
Public 2-year	27.63	29.36	31.16	-3.53*	-1.80*
Public 4-year, non-doctorate-granting, primarily subbaccalaureate	3.61	3.85	4.06	-0.45*	-0.21
Public 4-year, non-doctorate-granting, primarily baccalaureate	6.30	6.03	6.07	0.23*	-0.04
Public 4-year, doctorate-granting	31.25	29.69	28.54	2.71*	1.15*
Private nonprofit, less-than-4-year	0.36	0.38	0.41	-0.05	-0.03
Private nonprofit, 4-year, non-doctorate-granting	7.18	6.90	6.86	0.32*	0.04
Private nonprofit, 4-year, doctorate-granting	14.37	13.77	13.62	0.75*	0.15
Private for-profit, less-than-2-year	0.94	1.35	1.14	-0.20*	0.21*
Private for-profit, 2-year	1.33	1.77	1.48	-0.15*	0.29*
Private for-profit, 4-year	6.88	6.73	6.42	0.46	0.31
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ²					
New England	5.38	5.21	5.20	0.18	0.01
Mid East	15.29	15.38	15.17	0.12	0.21
Great Lakes	13.80	13.92	13.85	-0.05	0.07
Plains	8.22	7.76	7.54	0.68	0.22
Southeast	22.78	22.79	23.07	-0.29	-0.28
Southwest	11.93	12.19	11.95	-0.02	0.24
Rocky Mountains	4.50	4.40	4.66	-0.16	-0.26
Far West	17.24	17.23	17.74	-0.50	-0.51
Outlying areas	0.87	1.13	0.82	0.05*	0.31*
Student type					
Undergraduate student	83.23	84.41	83.31	-0.08	1.10*
Graduate student	14.83	13.86	14.70	0.13	-0.84*
First professional student	1.94	1.72	1.98	-0.04	-0.26*
Federal aid status					
Received	55.62	54.38	55.87	-0.25	-1.49*
Did not receive	33.46	36.29	33.56	-0.10	2.73*
Unknown	10.92	9.34	10.57	0.35	-1.23*

See notes at end of table.

Table J-61. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in all institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Pell Grant status					
Received	38.89	38.09	40.43	-1.54*	-2.34*
Did not receive	61.11	61.91	59.57	1.54*	2.34*
Total Pell amount received ³					
None	61.11	61.91	59.57	1.54*	2.34*
\$1–\$2,888	11.37	12.00	12.53	-1.16*	-0.53*
\$2,889–\$5,774	15.95	15.44	16.36	-0.41*	-0.92*
\$5,775	11.57	10.64	11.54	0.03	-0.90*
Stafford Loan status					
Received	38.35	37.01	38.68	-0.33	-1.67*
Did not receive	61.65	62.99	61.32	0.33	1.67*
Total Stafford amount received ⁴					
None	61.65	62.99	61.32	0.33	1.67*
\$1–\$4,750	8.98	9.16	9.19	-0.21	-0.03
\$4,751–\$7,500	15.19	14.60	15.04	0.15	-0.44*
\$7,501–\$11,000	5.91	5.59	5.99	-0.08	-0.40*
\$11,001 or more	8.27	7.66	8.46	-0.19	-0.80*
Institution total enrollment ⁵					
None	10.16	10.78	11.16	-1.00*	-0.38*
1–2,557	22.39	22.54	23.16	-0.77*	-0.62*
2,558–10,412	31.67	32.11	32.27	-0.60	-0.16
10,413–27,004	35.78	34.57	33.41	2.37*	1.16*
Sampled baccalaureate recipient					
Baccalaureate recipient	8.42	8.06	7.82	0.60*	0.24*
Not baccalaureate recipient	91.58	91.94	92.18	-0.60*	-0.24*
Age as of Dec 31, 2015					
15–23	53.66	53.58	51.69	1.97*	1.89*
24–29	20.46	20.42	21.45	-0.99*	-1.03*
30 or older	25.88	25.28	26.87	-0.99*	-1.59*
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table J-61. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in all institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Institutional aid status					
Received	26.48	24.37	24.28	2.20*	0.09
Did not receive	55.95	59.47	58.16	-2.21*	1.31*
Unknown	17.58	16.15	17.56	0.02	-1.41*
State aid status					
Received	17.24	16.27	17.20	0.04	-0.93*
Did not receive	65.58	68.07	65.80	-0.22	2.27*
Unknown	17.18	15.66	17.00	0.18	-1.34*
Parent's highest level of education					
Middle school/junior high	3.61	3.59	3.64	-0.03	-0.05
High school	28.57	29.43	28.94	-0.37*	0.49
College or beyond	55.52	54.34	54.36	1.16	-0.02*
Unknown	12.29	12.65	13.06	-0.77*	-0.41*
Marital status					
Unmarried-single/divorce/widow	79.83	80.21	79.61	0.22	0.60*
Married/remarried	15.24	14.76	15.35	-0.11	-0.59*
Separated	1.50	1.56	1.51	-0.01	0.05
Divorced or widowed	3.43	3.46	3.53	-0.10	-0.07
Support children					
Has dependents	21.99	22.38	22.98	-0.99*	-0.60*
Does not have dependents	78.01	77.62	77.02	0.99	0.60*
Unknown	‡	‡	‡	‡	‡
Income ⁴					
\$0 or less	6.93	7.36	7.47	-0.54*	-0.11*
\$1–\$11,400	14.49	14.74	15.35	-0.86*	-0.61*
\$11,401–\$29,232	23.42	23.59	24.89	-1.47*	-1.30*
\$29,233–\$66,687	26.10	25.67	25.68	0.42	-0.01*
\$66,688 or more	28.14	27.56	25.59	2.55*	1.97*
Unknown	0.93	1.08	1.01	-0.08*	0.07

See notes at end of table.

Table J-61. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in all institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Major					
Undecided	‡	‡	‡	‡	‡
Humanities	14.01	16.88	14.32	-0.31	2.56*
Social/behavioral sciences	8.06	7.17	7.69	0.37*	-0.52*
Life sciences	8.51	8.01	7.92	0.59*	0.09
Physical sciences/math	1.89	1.81	1.72	0.17*	0.09
Computer/information science	4.80	4.32	4.77	0.03	-0.45*
Engineering	6.52	6.17	6.22	0.30*	-0.05
Education	5.04	4.38	4.98	0.06	-0.60*
Business/Management	16.26	15.68	15.84	0.42*	-0.16
Health	18.02	16.68	19.19	-1.17*	-2.51*
Vocational/technical	2.35	2.84	2.60	-0.25*	0.24*
Other technical/professional	12.13	11.89	12.29	-0.16	-0.40
Unknown	1.83	3.84	1.86	-0.03	1.98*
Degree program (undergraduate only)					
Postsecondary award, certificate or diploma of less than two academic years	5.97	7.54	7.20	-1.23*	0.34*
Associate's degree	36.09	36.65	40.03	-3.94*	-3.38*
Postsecondary award, certificate, diploma, or degree program	55.98	52.12	50.37	5.61*	1.75*
Bachelor's degree or equivalent	1.96	2.89	2.40	-0.44*	0.49*
Unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					
1–67	33.81	33.81	33.70	0.11	0.11
68–83	30.15	30.37	30.67	-0.52	-0.30
84–95	21.17	21.55	21.29	-0.12	0.26
96 or more	12.27	11.75	11.60	0.67	0.15
None or Unknown	2.60	2.52	2.74	-0.14	-0.22*

See notes at end of table.

Table J-61. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in all institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Number of first-time, full-time undergraduate students living on campus ⁵					
0–188	9.29	9.52	9.43	-0.14	0.09
189–424	9.19	8.70	8.82	0.37*	-0.12
425–819	12.30	11.56	11.66	0.64*	-0.10
820 or more	27.89	26.68	24.80	3.09*	1.88*
Unknown	41.33	43.54	45.29	-3.96*	-1.75*
Average amount of grant and scholarship aid received ⁵					
\$0–\$4,744	20.56	21.48	22.05	-1.49*	-0.57
\$4,745–\$6,192	26.57	28.22	28.90	-2.33*	-0.68
\$6,193–\$11,968	32.83	31.31	30.19	2.64*	1.12*
\$11,969 or more	17.39	16.40	16.04	1.35*	0.36
Unknown	2.66	2.60	2.82	-0.16	-0.22*
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁵					
0–47	10.65	10.41	10.33	0.32	0.08
48–116	14.98	15.08	15.38	-0.40*	-0.30
117–308	25.55	25.75	25.55	#	0.20
309 or more	46.00	46.05	45.79	0.21	0.26
Unknown	2.81	2.71	2.95	-0.14	-0.24*
Veteran status					
Yes	5.03	5.10	4.79	0.24	0.31*
No	94.97	94.90	95.21	-0.24	-0.31*

See notes at end of table.

Table J-61. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in all institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race					
White	53.62	52.59	52.18	1.44*	0.41
Black or African American	14.39	13.65	15.41	-1.02*	-1.76*
Hispanic	18.06	17.39	18.67	-0.61*	-1.28*
Asian	8.73	7.69	8.34	0.39*	-0.65*
American Indian or Alaska Native	0.67	0.70	0.74	-0.07*	-0.04
Native Hawaiian or other Pacific Islander	0.40	0.35	0.44	-0.04*	-0.09*
More than one race	3.71	3.03	3.80	-0.09	-0.77*
Unknown	0.41	4.61	0.41	#	4.20*
Sex					
Male	42.00	43.66	41.04	0.96*	2.62*
Female	58.00	55.72	58.96	-0.96*	-3.24*
Unknown	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than 30 unweighted nonrespondents).

* $p < 0.05$.¹ Student base weight, adjusted for nonresponse.

² New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.

³ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.⁴ Categories were defined by quartiles.⁵ Categories were defined by quartiles computed at the institution level.

NOTE: "Base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Sample sizes rounded to the nearest 10 and, therefore, may not sum to total.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-62. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in public less-than-2-year institutions: 2015–16

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ²					
New England	‡	‡	‡	‡	‡
Mid East	19.63	20.92	14.91	4.72	6.01
Great Lakes	20.59	23.51	20.74	-0.15	2.77
Plains	‡	‡	‡	‡	‡
Southeast	‡	‡	‡	‡	‡
Southwest	‡	‡	‡	‡	‡
Rocky Mountains	‡	‡	‡	‡	‡
Far West	‡	‡	‡	‡	‡
Outlying areas	‡	‡	‡	‡	‡
Federal aid status					
Received	72.05	68.45	52.01	20.04*	16.44*
Did not receive	22.43	28.33	39.32	-16.89*	-10.99
Unknown	‡	‡	‡	‡	‡
Pell Grant status					
Received	63.77	59.54	41.80	21.97*	17.74*
Did not receive	36.23	40.46	58.20	-21.97*	-17.74*
Total Pell amount received ³					
None	36.23	40.46	58.20	-21.97*	-17.74*
\$1–\$2,888	18.64	20.57	17.02	1.62	3.55
\$2,889–\$5,774	29.17	24.66	17.22	11.95*	7.44*
\$5,775	‡	‡	‡	‡	‡

See notes at end of table.

Table J-62. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in public less-than-2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Stafford Loan status					
Received	29.80	32.54	18.09	11.71*	14.45*
Did not receive	70.20	67.46	81.91	-11.71*	-14.45*
Total Stafford amount received ⁴					
None	70.20	67.46	81.91	-11.71*	-14.45*
\$1–\$3,336	‡	‡	‡	‡	‡
\$3,337–\$4,750	‡	‡	‡	‡	‡
\$4,751–\$7,272	‡	‡	‡	‡	‡
\$7,273 or more	‡	‡	‡	‡	‡
Institution total enrollment ⁵					
1–242	30.85	33.76	24.80	6.05	8.96
243–422	‡	‡	‡	‡	‡
423–734	20.96	21.62	23.99	-3.03	-2.37
735 or more	20.33	22.95	24.15	-3.82	-1.20
Sampled baccalaureate recipient					
Baccalaureate recipient	‡	‡	‡	‡	‡
Not baccalaureate recipient	100.00	100.00	100.00	#	#
Age as of Dec 31, 2015					
15–23	48.83	51.03	45.79	3.04	5.24
24–29	21.60	21.54	19.29	2.31	2.25
30 or older	29.57	27.43	34.92	-5.35	-7.49
Unknown	‡	‡	‡	‡	‡
Institutional aid status					
Received	17.67	17.77	17.44	0.23	0.33
Did not receive	64.71	71.21	63.69	1.02	7.52
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table J-62. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in public less-than-2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
State aid status					
Received	‡	‡	‡	‡	‡
Did not receive	68.73	77.55	69.73	-1.00	7.82
Unknown	‡	‡	‡	‡	‡
Parent's highest level of education					
Middle school/junior high	‡	‡	‡	‡	‡
High school	31.11	32.10	30.67	0.44	1.43
College or beyond	38.39	37.19	37.86	0.53*	-0.67
Unknown	‡	‡	‡	‡	‡
Marital status					
Unmarried-single/divorce/widow	77.27	75.49	75.71	1.56*	-0.22
Married/remarried	‡	‡	‡	‡	‡
Separated	‡	‡	‡	‡	‡
Divorced or widowed	‡	‡	‡	‡	‡
Support children					
Has dependents	41.26	41.25	39.06	2.20	2.19
Does not have dependents	58.74	58.75	60.94	-2.20	-2.19
Unknown	‡	‡	‡	‡	‡
Income ⁴					
\$0 or less	‡	‡	‡	‡	‡
\$1–\$9,200	‡	‡	‡	‡	‡
\$9,201–\$20,396	‡	‡	‡	‡	‡
\$20,397–\$38,490	22.21	25.49	18.99	3.22*	6.50*
\$38,491 or more	19.78	23.11	29.85	-10.07*	-6.74
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table J-62. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in public less-than-2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Major					
Undecided	†	†	†	†	†
Humanities	†	†	†	†	†
Social/behavioral sciences	†	†	†	†	†
Life sciences	†	†	†	†	†
Physical sciences/math	†	†	†	†	†
Computer/information science	†	†	†	†	†
Engineering	†	†	†	†	†
Education	†	†	†	†	†
Business/Management	†	†	†	†	†
Health	48.13	42.76	46.97	1.16	-4.21
Vocational/technical	25.52	29.90	26.73	-1.21	3.17
Other technical/professional	†	†	†	†	†
Unknown	†	†	†	†	†
Degree program (undergraduate only)					
Postsecondary award, certificate or diploma of less than two academic years	100.00	100.00	100.00	#	#
Associate's degree	†	†	†	†	†
Postsecondary award, certificate, diploma, or degree program	†	†	†	†	†
Bachelor's degree or equivalent	†	†	†	†	†
Unknown	†	†	†	†	†
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					
1–60	19.67	22.57	22.86	-3.19	-0.29
61–82	19.53	20.19	19.20	0.33	0.99
83–91	19.56	17.81	21.30	-1.74	-3.49
92 or more	34.36	31.33	33.29	1.07	-1.96
None or unknown	†	†	†	†	†

See notes at end of table.

Table J-62. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in public less-than-2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Number of first-time, full-time undergraduate students living on campus ⁵					
0–85	‡	‡	‡	‡	‡
Unknown	91.71	91.09	90.51	1.20	0.58
Average amount of grant and scholarship aid received ⁵					
\$0–\$3,601	33.39	33.41	35.48	-2.09	-2.07
\$3,602–\$4,071	14.21	16.45	14.45	-0.24	2.00
\$4,072–\$5,407	16.16	19.19	16.73	-0.57	2.46
\$5,408 or more	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁵					
0–6	‡	‡	‡	‡	‡
7–22	17.41	18.57	18.81	-1.40	-0.24
23–40	19.32	22.29	18.95	0.37	3.34
41 or more	40.81	37.13	41.02	-0.21	-3.89
Unknown	‡	‡	‡	‡	‡
Veteran status					
Yes	‡	‡	‡	‡	‡
No	95.28	94.50	93.79	1.49	0.71

See notes at end of table.

Table J-62. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in public less-than-2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race					
White	59.44	61.43	58.80	0.64	2.63
Black or African American	‡	‡	‡	‡	‡
Hispanic	‡	‡	‡	‡	‡
Asian	‡	‡	‡	‡	‡
American Indian or Alaska Native	‡	‡	‡	‡	‡
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡
More than one race	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Sex					
Male	39.03	43.57	38.80	0.23	4.77
Female	60.97	56.43	61.20	-0.23	-4.77
Unknown	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than 30 unweighted nonrespondents).

* $p < 0.05$.¹ Student base weight, adjusted for nonresponse.

² New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.

³ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.

⁴ Categories were defined by quartiles.

⁵ Categories were defined by quartiles computed at the institution level.

NOTE: "Base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Sample sizes rounded to the nearest 10 and, therefore, may not sum to total.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-63. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in public 2-year institutions: 2015–16

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ²					
New England	3.98	3.83	4.00	-0.02	-0.17
Mid East	11.70	12.24	11.36	0.34	0.88*
Great Lakes	13.53	13.53	13.51	0.02	0.02
Plains	6.80	6.85	6.55	0.25*	0.30
Southeast	17.69	18.09	17.65	0.04	0.44
Southwest	16.47	16.66	16.62	-0.15	0.04
Rocky Mountains	2.94	2.98	2.92	0.02	0.06
Far West	26.89	25.83	27.39	-0.50	-1.56*
Outlying areas	‡	‡	‡	‡	‡
Federal aid status					
Received	49.56	47.08	44.28	5.28*	2.80*
Did not receive	36.53	40.87	40.89	-4.36*	-0.02
Unknown	13.91	12.05	14.83	-0.92*	-2.78*
Pell Grant status					
Received	40.75	37.97	36.80	3.95*	1.17*
Did not receive	59.25	62.03	63.20	-3.95*	-1.17*
Total Pell amount received ³					
None	59.25	62.03	63.20	-3.95*	-1.17*
\$1–\$2,888	14.36	14.54	14.40	-0.04	0.14
\$2,889–\$5,774	17.38	15.75	15.33	2.05*	0.42
\$5,775	9.01	7.68	7.07	1.94*	0.61*

See notes at end of table.

Table J-63. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in public 2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Stafford Loan status					
Received	19.41	18.72	15.12	4.29*	3.60*
Did not receive	80.59	81.28	84.88	-4.29*	-3.60*
Total Stafford amount received ⁴					
None	80.59	81.28	84.88	-4.29*	-3.60*
\$1–\$3,250	4.69	4.88	4.54	0.15	0.34
\$3,251–\$5,250	5.38	5.00	4.30	1.08*	0.70*
\$5,251–\$7,500	4.76	4.76	3.39	1.37*	1.37*
\$7,501 or more	4.57	4.09	2.90	1.67*	1.19*
Institution total enrollment ⁵					
1–9,515	23.92	24.35	23.49	0.43	0.86*
9,516–17,048	25.23	25.66	25.04	0.19	0.62
17,049–29,306	23.83	23.96	23.63	0.20	0.33
29,307 or more	27.02	26.03	27.84	-0.82*	-1.81*
Sampled baccalaureate recipient					
Baccalaureate recipient	‡	‡	‡	‡	‡
Not baccalaureate recipient	99.87	99.88	99.89	-0.02	-0.01
Age as of Dec 31, 2015					
15–23	53.56	53.84	51.65	1.91*	2.19*
24–29	19.78	19.89	20.42	-0.64*	-0.53
30 or older	26.65	26.03	27.93	-1.28*	-1.90*
Unknown	‡	‡	‡	‡	‡
Institutional aid status					
Received	6.53	6.02	5.70	0.83*	0.32
Did not receive	71.86	74.79	72.63	-0.77*	2.16*
Unknown	21.61	19.18	21.67	-0.06	-2.49*

See notes at end of table.

Table J-63. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in public 2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
State aid status					
Received	21.75	20.38	20.10	1.65*	0.28
Did not receive	59.70	63.46	61.31	-1.61*	2.15*
Unknown	18.55	16.17	18.59	-0.04	-2.42*
Parent's highest level of education					
Middle school/junior high	5.42	5.25	5.44	-0.02*	-0.19
High school	32.16	33.42	32.06	0.10*	1.36*
College or beyond	45.24	44.18	44.95	0.29*	-0.77
Unknown	17.18	17.14	17.55	-0.37*	-0.41
Marital status					
Unmarried-single/divorce/widow	78.76	79.89	78.50	0.26*	1.39*
Married/remarried	15.40	14.50	15.85	-0.45	-1.35*
Separated	2.03	1.92	2.02	0.01	-0.10
Divorced or widowed	3.81	3.69	3.64	0.17*	0.05
Support children					
Has dependents	26.56	26.06	26.91	-0.35*	-0.85
Does not have dependents	73.44	73.92	73.09	0.35*	0.83*
Unknown	‡	‡	‡	‡	‡
Income ⁴					
\$0 or less	8.32	8.57	8.49	-0.17	0.08
\$1–\$11,452	16.00	16.15	16.21	-0.21*	-0.06
\$11,453–\$25,712	24.80	24.47	25.18	-0.38*	-0.71
\$25,713–\$53,968	25.28	24.65	24.99	0.29*	-0.34
\$53,969 or more	23.93	24.21	23.20	0.73*	1.01*
Unknown	1.67	1.94	1.93	-0.26	0.01

See notes at end of table.

Table J-63. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in public 2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Major					
Undecided	‡	‡	‡	‡	‡
Humanities	19.98	25.41	20.03	-0.05	5.38*
Social/behavioral sciences	4.63	3.79	4.62	0.01	-0.83*
Life sciences	4.63	4.63	4.41	0.22*	0.22
Physical sciences/math	1.07	1.16	1.08	-0.01	0.08
Computer/information science	4.90	4.19	4.87	0.03	-0.68*
Engineering	5.16	4.70	5.22	-0.06	-0.52*
Education	5.03	4.04	4.98	0.05	-0.94*
Business/Management	13.71	12.47	13.69	0.02	-1.22*
Health	22.35	19.15	22.39	-0.04	-3.24*
Vocational/technical	3.80	4.58	3.85	-0.05	0.73*
Other technical/professional	11.60	11.30	11.58	0.02	-0.28
Unknown	2.26	4.10	2.36	-0.10	1.74*
Degree program (undergraduate only)					
Postsecondary award, certificate or diploma of less than two academic years	8.26	9.18	8.95	-0.69*	0.23
Associate's degree	87.13	83.73	85.84	1.29*	-2.11*
Postsecondary award, certificate, diploma, or degree program	‡	‡	‡	‡	‡
Bachelor's degree or equivalent	4.61	6.19	5.21	-0.60*	0.98*
Unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					
1–59	28.99	28.56	29.07	-0.08	-0.51
60–70	24.93	25.00	24.84	0.09	0.16
71–81	24.79	25.41	25.20	-0.41	0.21
82 or more	21.01	20.79	20.65	0.36	0.14
None or unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table J-63. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in public 2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Number of first-time, full-time undergraduate students living on campus ⁵					
0–34	3.61	3.93	3.69	-0.08	0.24
35–97	2.87	2.91	2.91	-0.04	#
98–182	3.87	3.86	3.62	0.25*	0.24
183 or more	3.30	3.62	3.10	0.20*	0.52*
Unknown	86.35	85.69	86.68	-0.33	-0.99*
Average amount of grant and scholarship aid received ⁵					
\$0–\$4,382	23.86	23.49	23.76	0.10	-0.27
\$4,383–\$4,761	23.92	23.85	24.03	-0.11	-0.18
\$4,762–\$5,147	25.18	25.20	25.09	0.09	0.11
\$5,148 or more	26.76	27.22	26.89	-0.13	0.33
Unknown	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁵					
0–148	18.55	18.88	18.47	0.08	0.41
149–277	22.76	22.71	23.10	-0.34	-0.39
278–505	24.25	23.96	23.54	0.71*	0.42
506 or more	34.16	34.22	34.66	-0.50	-0.44
Unknown	‡	‡	‡	‡	‡
Veteran status					
Yes	5.11	5.12	5.24	-0.13	-0.12
No	94.89	94.88	94.76	0.13	0.12

See notes at end of table.

Table J-63. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in public 2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race					
White	47.35	49.02	46.97	0.38	2.05*
Black or African American	14.94	14.35	15.08	-0.14	-0.73*
Hispanic	24.99	23.10	25.00	-0.01	-1.90*
Asian	6.69	6.24	6.79	-0.10	-0.55*
American Indian or Alaska Native	0.98	1.02	1.01	-0.03	0.01
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡
More than one race	4.12	3.19	4.18	-0.06	-0.99*
Unknown	0.32	2.59	0.33	-0.01	2.26*
Sex					
Male	41.22	44.10	41.20	0.02	2.90*
Female	58.78	55.43	58.80	-0.02	-3.37*
Unknown	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than 30 unweighted nonrespondents).

* $p < 0.05$.¹ Student base weight, adjusted for nonresponse.

² New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.

³ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.

⁴ Categories were defined by quartiles.

⁵ Categories were defined by quartiles computed at the institution level.

NOTE: "Base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Sample sizes rounded to the nearest 10 and, therefore, may not sum to total.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-64. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2015–16

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ²					
New England	‡	‡	‡	‡	‡
Mid East	4.78	5.07	3.37	1.41	1.70*
Great Lakes	10.30	11.76	9.29	1.01*	2.47*
Plains	‡	‡	‡	‡	‡
Southeast	52.22	52.72	53.76	-1.54	-1.04
Southwest	6.49	6.45	6.89	-0.40	-0.44
Rocky Mountains	3.48	3.10	3.53	-0.05	-0.43
Far West	21.65	19.80	22.02	-0.37	-2.22*
Outlying areas	‡	‡	‡	‡	‡
Student type					
Undergraduate student	99.18	99.44	99.88	-0.70*	-0.44*
Graduate student	‡	‡	‡	‡	‡
First professional student	‡	‡	‡	‡	‡
Federal aid status					
Received	51.37	50.84	45.68	5.69*	5.16*
Did not receive	38.16	40.09	43.05	-4.89*	-2.96
Unknown	10.47	9.07	11.28	-0.81	-2.21*
Pell Grant status					
Received	39.53	39.38	35.45	4.08*	3.93*
Did not receive	60.47	60.62	64.55	-4.08*	-3.93*
Total Pell amount received ³					
None	60.47	60.62	64.55	-4.08*	-3.93*
\$1–\$2,888	12.59	13.50	13.10	-0.51	0.40
\$2,889–\$5,774	18.12	17.03	15.09	3.03*	1.94*
\$5,775	8.83	8.85	7.26	1.57*	1.59*

See notes at end of table.

Table J-64. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2015–16—
Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Stafford Loan status					
Received	25.11	24.11	18.69	6.42*	5.42*
Did not receive	74.89	75.89	81.31	-6.42*	-5.42*
Total Stafford amount received ⁴					
None	74.89	75.89	81.31	-6.42*	-5.42*
\$1–\$3,837	7.46	6.94	7.20	0.26	-0.26
\$3,838–\$6,000	7.63	6.70	6.20	1.43*	0.50
\$6,001–\$8,500	3.50	4.20	2.38	1.12*	1.82*
\$8,501 or more	6.52	6.27	2.91	3.61*	3.36*
Institution total enrollment ⁵					
1–4,827	10.50	12.19	9.39	1.11*	2.80*
4,828–10,941	20.55	21.84	20.95	-0.40	0.89
10,942–41,815	30.60	28.63	30.39	0.21	-1.76
41,816 or more	38.36	37.35	39.28	-0.92	-1.93
Sampled baccalaureate recipient					
Baccalaureate recipient	3.06	3.10	3.14	-0.08	-0.04
Not baccalaureate recipient	96.94	96.90	96.86	0.08	0.04
Age as of Dec 31, 2015					
15–23	51.49	53.23	51.31	0.18	1.92
24–29	20.98	20.53	20.23	0.75	0.30
30 or older	27.54	25.25	28.46	-0.92	-3.21*
Unknown	‡	‡	‡	‡	‡
Institutional aid status					
Received	11.08	10.03	9.70	1.38*	0.33
Did not receive	72.81	75.52	73.76	-0.95	1.76
Unknown	16.11	14.44	16.54	-0.43	-2.10*

See notes at end of table.

Table J-64. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
State aid status					
Received	14.96	15.09	13.32	1.64*	1.77*
Did not receive	69.56	70.86	70.87	-1.31*	-0.01
Unknown	15.48	14.05	15.80	-0.32	-1.75
Parent's highest level of education					
Middle school/junior high	4.51	4.00	3.91	0.60*	0.09
High school	36.09	36.06	35.83	0.26	0.23
College or beyond	46.71	47.80	46.66	0.05*	1.14*
Unknown	12.69	12.13	13.60	-0.91	-1.47
Marital status					
Unmarried-single/divorce/widow	77.84	79.44	78.96	-1.12*	0.48*
Married/remarried	15.07	13.89	14.70	0.37	-0.81
Separated	‡	‡	‡	‡	‡
Divorced or widowed	4.96	4.33	4.67	0.29	-0.34
Support children					
Has dependents	23.60	22.64	22.41	1.19*	0.23
Does not have dependents	76.40	77.36	77.59	-1.19*	-0.23*
Unknown	‡	‡	‡	‡	‡
Income ⁴					
\$0 or less	5.95	6.78	6.39	-0.44	0.39
\$1–\$13,300	19.34	18.71	19.31	0.03	-0.60
\$13,301–\$29,898	29.65	28.16	29.65	#*	-1.49
\$29,899–\$63,435	24.75	26.20	24.23	0.52	1.97*
\$63,436 or more	19.17	18.60	18.69	0.48*	-0.09
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table J-64. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2015–16—
Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Major					
Undecided	‡	‡	‡	‡	‡
Humanities	18.96	26.12	19.11	-0.15	7.01*
Social/behavioral sciences	‡	‡	‡	‡	‡
Life sciences	3.60	2.74	3.48	0.12	-0.74*
Physical sciences/math	‡	‡	‡	‡	‡
Computer/information science	5.25	4.14	5.60	-0.35*	-1.46*
Engineering	5.32	4.42	5.24	0.08	-0.82
Education	5.21	4.15	5.72	-0.51	-1.57*
Business/Management	14.74	12.11	14.66	0.08	-2.55*
Health	22.23	18.11	22.27	-0.04	-4.16*
Vocational/technical	3.14	3.34	3.40	-0.26	-0.06
Other technical/professional	10.95	9.43	10.04	0.91	-0.61
Unknown	3.48	10.88	3.73	-0.25	7.15*
Degree program (undergraduate only)					
Postsecondary award, certificate or diploma of less than two academic years	5.52	5.97	6.49	-0.97*	-0.52
Associate's degree	66.80	68.36	67.15	-0.35	1.21
Postsecondary award, certificate, diploma, or degree program	26.29	22.30	24.33	1.96*	-2.03
Bachelor's degree or equivalent	1.39	2.37	2.03	-0.64	0.34
Unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					
1–63	28.01	25.49	28.40	-0.39	-2.91*
64–73	34.74	34.78	34.55	0.19	0.23
74–82	26.60	28.35	26.34	0.26	2.01
83 or more	10.64	11.38	10.71	-0.07	0.67

See notes at end of table.

Table J-64. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Number of first-time, full-time undergraduate students living on campus ⁵					
0–59	5.26	5.19	5.40	-0.14	-0.21
60–193	1.91	1.83	1.63	0.28	0.20
194–424	5.60	5.17	5.00	0.60	0.17
425 or more	3.58	3.99	3.09	0.49*	0.90*
Unknown	83.66	83.82	84.88	-1.22	-1.06
Average amount of grant and scholarship aid received ⁵					
\$0–\$4,381	23.84	24.56	23.07	0.77	1.49
\$4,382–\$4,960	24.03	22.86	24.60	-0.57	-1.74
\$4,961–\$5,727	40.14	40.48	41.11	-0.97	-0.63
\$5,728 or more	11.99	12.11	11.22	0.77	0.89
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁵					
0–94	11.98	12.47	12.09	-0.11	0.38
95–234	14.05	15.15	12.80	1.25	2.35*
235–398	18.83	18.49	18.72	0.11	-0.23
399 or more	55.14	53.89	56.39	-1.25	-2.50
Veteran status					
Yes	5.27	5.19	5.47	-0.20	-0.28
No	94.73	94.81	94.53	0.20	0.28

See notes at end of table.

Table J-64. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in public 4-year, non-doctorate-granting, primarily subbaccalaureate institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race					
White	48.85	49.05	48.41	0.44	0.64
Black or African American	12.58	11.53	12.92	-0.34	-1.39*
Hispanic	29.27	27.10	29.24	0.03	-2.14
Asian	4.04	3.73	3.77	0.27	-0.04
American Indian or Alaska Native	‡	‡	‡	‡	‡
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡
More than one race	3.37	3.04	3.45	-0.08	-0.41
Unknown	‡	‡	‡	‡	‡
Sex					
Male	41.14	44.18	39.41	1.73*	4.77*
Female	58.86	55.19	60.59	-1.73*	-5.40*
Unknown	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than 30 unweighted nonrespondents).

* $p < 0.05$.

¹ Student base weight, adjusted for nonresponse.

² New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.

³ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.

⁴ Categories were defined by quartiles.

⁵ Categories were defined by quartiles computed at the institution level.

NOTE: "Base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Sample sizes rounded to the nearest 10 and, therefore, may not sum to total.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-65. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2015–16

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ²					
New England	6.43	6.79	6.55	-0.12	0.24
Mid East	30.68	30.87	31.20	-0.52	-0.33
Great Lakes	9.01	8.22	9.34	-0.33	-1.12
Plains	9.71	10.41	10.54	-0.83*	-0.13
Southeast	14.01	13.68	13.14	0.87	0.54
Southwest	7.66	7.52	7.02	0.64	0.50
Rocky Mountains	6.27	6.85	6.84	-0.57	0.01
Far West	13.74	12.89	13.14	0.60	-0.25
Outlying areas	2.47	2.76	2.23	0.24*	0.53*
Student type					
Undergraduate student	90.03	89.91	87.03	3.00*	2.88*
Graduate student	9.97	10.09	12.97	-3.00*	-2.88*
First professional student	‡	‡	‡	‡	‡
Federal aid status					
Received	61.33	60.19	60.01	1.32*	0.18
Did not receive	25.11	27.96	25.83	-0.72	2.13*
Unknown	13.56	11.86	14.16	-0.60	-2.30*
Pell Grant status					
Received	39.75	38.93	40.87	-1.12	-1.94
Did not receive	60.25	61.07	59.13	1.12*	1.94*
Total Pell amount received ³					
None	60.25	61.07	59.13	1.12*	1.94*
\$1–\$2,888	10.31	10.38	11.71	-1.40*	-1.33
\$2,889–\$574	15.59	15.21	15.34	0.25*	-0.13
\$5,775	13.85	13.34	13.82	0.03*	-0.48

See notes at end of table.

Table J-65. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2015–16—
Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Stafford Loan status					
Received	43.74	42.47	43.13	0.61	-0.66
Did not receive	56.26	57.53	56.87	-0.61	0.66
Total Stafford amount received ⁴					
None	56.26	57.53	56.87	-0.61	0.66
\$1–\$4,744	11.23	10.60	10.95	0.28	-0.35
\$4,745–\$6,500	14.36	14.12	14.17	0.19	-0.05
\$6,501–\$10,000	10.03	10.11	9.76	0.27	0.35
\$10,001 or more	8.12	7.65	8.25	-0.13	-0.60
Institution total enrollment ⁵					
1–6,708	33.40	33.10	31.73	1.67*	1.37
6,709–10,351	22.95	22.18	22.77	0.18	-0.59
10,352–16,870	23.61	23.39	24.97	-1.36*	-1.58
16,871 or more	20.05	21.33	20.53	-0.48	0.80
Sampled baccalaureate recipient					
Baccalaureate recipient	13.40	13.45	13.01	0.39	0.44
Not baccalaureate recipient	86.60	86.55	86.99	-0.39	-0.44
Age as of Dec 31, 2015					
15–23	62.41	62.51	59.26	3.15*	3.25*
24–29	17.96	17.93	18.97	-1.01*	-1.04*
30 or older	19.64	19.09	21.77	-2.13*	-2.68*
Unknown	‡	‡	‡	‡	‡
Institutional aid status					
Received	17.17	16.36	16.46	0.71	-0.10
Did not receive	52.67	54.95	52.76	-0.09	2.19*
Unknown	30.16	28.69	30.78	-0.62	-2.09*

See notes at end of table.

Table J-65. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
State aid status					
Received	20.63	19.75	19.80	0.83	-0.05
Did not receive	50.27	52.66	50.38	-0.11	2.28*
Unknown	29.10	27.59	29.82	-0.72	-2.23*
Parent's highest level of education					
Middle school/junior high	‡	‡	‡	‡	‡
High school	26.90	27.86	28.09	-1.19	-0.23
College or beyond	58.76	58.26	56.91	1.85*	1.35
Unknown	11.24	11.07	11.76	-0.52	-0.69
Marital status					
Unmarried-single/divorce/widow	86.11	86.54	84.61	1.50*	1.93
Married/remarried	11.36	10.95	12.33	-0.97*	-1.38*
Separated	‡	‡	‡	‡	‡
Divorced or widowed	‡	‡	‡	‡	‡
Support children					
Has dependents	13.40	13.62	14.67	-1.27*	-1.05
Does not have dependents	86.60	86.38	85.33	1.27*	1.05
Unknown	‡	‡	‡	‡	‡
Income ⁴					
\$0 or less	5.31	5.71	5.32	-0.01	0.39
\$1–\$13,463	13.84	13.97	14.82	-0.98*	-0.85*
\$13,464–\$33,912	24.42	24.51	24.84	-0.42	-0.33
\$33,913–\$75,000	27.25	25.97	27.58	-0.33	-1.61
\$75,001 or more	27.81	28.51	26.09	1.72*	2.42*
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table J-65. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2015–16—
Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Major					
Undecided	‡	‡	‡	‡	‡
Humanities	10.31	11.25	9.80	0.51*	1.45*
Social/behavioral sciences	11.23	10.26	11.38	-0.15	-1.12
Life sciences	11.04	10.89	10.80	0.24	0.09
Physical sciences/math	2.09	2.54	1.97	0.12*	0.57*
Computer/information science	5.20	4.36	4.78	0.42*	-0.42
Engineering	4.19	4.58	4.22	-0.03	0.36
Education	7.44	6.90	7.38	0.06*	-0.48
Business/Management	18.64	18.11	18.78	-0.14	-0.67
Health	11.11	9.93	11.63	-0.52	-1.70
Vocational/technical	‡	‡	‡	‡	‡
Other technical/professional	13.22	12.77	13.21	0.01	-0.44
Unknown	3.96	7.26	4.43	-0.47*	2.83*
Degree program (undergraduate only)					
Postsecondary award, certificate or diploma of less than two academic years	‡	‡	‡	‡	‡
Associate's degree	3.05	3.71	3.31	-0.26	0.40
Postsecondary award, certificate, diploma, or degree program	94.85	93.45	94.68	0.17*	-1.23*
Bachelor's degree or equivalent	1.30	1.92	1.41	-0.11	0.51
Unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					
1–66	21.48	22.05	20.73	0.75	1.32
67–77	27.89	26.82	27.57	0.32	-0.75
78–87	24.00	24.56	24.03	-0.03	0.53
88 or more	23.47	23.14	23.98	-0.51	-0.84
None or unknown	3.17	3.42	3.69	-0.52	-0.27

See notes at end of table.

Table J-65. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Number of first-time, full-time undergraduate students living on campus ⁵					
0–237	25.31	25.68	25.15	0.16	0.53
238–482	19.40	18.81	18.49	0.91	0.32
483–710	15.30	14.48	15.46	-0.16	-0.98
711 or more	17.43	17.64	17.01	0.42	0.63
Unknown	22.56	23.40	23.89	-1.33*	-0.49
Average amount of grant and scholarship aid received ⁵					
\$0–\$5,547	22.15	23.26	22.97	-0.82	0.29
\$5,548–\$6,971	23.72	24.69	22.52	1.20	2.17*
\$6,972–\$7,744	25.77	25.07	26.19	-0.42	-1.12
\$7,745 or more	25.19	23.56	24.63	0.56	-1.07
Unknown	3.17	3.42	3.69	-0.52	-0.27
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁵					
0–107	26.01	25.04	25.00	1.01	0.04
108–193	19.17	19.61	19.05	0.12	0.56
194–321	21.11	21.60	21.54	-0.43	0.06
322 or more	30.53	30.33	30.72	-0.19	-0.39
Unknown	3.17	3.42	3.69	-0.52	-0.27
Veteran status					
Yes	4.00	3.85	3.80	0.20	0.05
No	96.00	96.15	96.20	-0.20	-0.05

See notes at end of table.

Table J-65. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in public 4-year, non-doctorate-granting, primarily baccalaureate institutions: 2015–16—
Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race					
White	55.39	54.47	54.75	0.64	-0.28
Black or African American	13.62	12.48	14.34	-0.72	-1.86*
Hispanic	18.14	17.24	17.79	0.35	-0.55
Asian	7.24	7.09	7.56	-0.32	-0.47
American Indian or Alaska Native	‡	‡	‡	‡	‡
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡
More than one race	3.54	2.99	3.56	-0.02	-0.57*
Unknown	‡	‡	‡	‡	‡
Sex					
Male	43.51	44.42	40.56	2.95*	3.86*
Female	56.49	54.79	59.44	-2.95*	-4.65*
Unknown	‡	‡	‡	‡	‡

‡ Reporting standards not met (fewer than 30 unweighted nonrespondents).

* $p < 0.05$.

¹ Student base weight, adjusted for nonresponse.

² New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.

³ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.

⁴ Categories were defined by quartiles.

⁵ Categories were defined by quartiles computed at the institution level.

NOTE: "Base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Sample sizes rounded to the nearest 10 and, therefore, may not sum to total.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-66. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in public 4-year, doctorate-granting institutions: 2015–16

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ²					
New England	2.72	2.86	2.82	-0.10	0.04
Mid East	12.36	12.12	12.24	0.12	-0.12
Great Lakes	16.63	17.08	16.51	0.12	0.57
Plains	6.86	6.83	6.85	0.01	-0.02
Southeast	28.59	28.29	29.24	-0.65	-0.95
Southwest	13.16	13.52	13.29	-0.13	0.23
Rocky Mountains	4.84	4.72	5.06	-0.22	-0.34
Far West	14.58	14.35	13.75	0.83*	0.60*
Outlying areas	‡	‡	‡	‡	‡
Student type					
Undergraduate student	76.78	77.80	75.08	1.70*	2.72*
Graduate student	20.37	19.58	21.86	-1.49*	-2.28*
First professional student	2.85	2.63	3.06	-0.21*	-0.43*
Federal aid status					
Received	52.80	52.43	57.69	-4.89*	-5.26*
Did not receive	36.80	38.98	33.42	3.38*	5.56*
Unknown	10.40	8.59	8.89	1.51*	-0.30
Pell Grant status					
Received	33.62	32.96	39.15	-5.53*	-6.19*
Did not receive	66.38	67.04	60.85	5.53*	6.19*
Total Pell amount received ³					
None	66.38	67.04	60.85	5.53*	6.19*
\$1–\$2,888	8.32	8.48	9.05	-0.73*	-0.57
\$2,889–\$5,774	13.55	13.19	15.75	-2.20*	-2.56*
\$5,775	11.76	11.29	14.35	-2.59*	-3.06*

See notes at end of table.

Table J-66. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in public 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Stafford Loan status					
Received	42.14	41.94	47.72	-5.58*	-5.78*
Did not receive	57.86	58.06	52.28	5.58*	5.78*
Total Stafford amount received ⁴					
None	57.86	58.06	52.28	5.58*	5.78*
\$1–\$5,500	15.80	15.91	17.76	-1.96*	-1.85*
\$5,501–\$7,358	6.00	5.91	6.82	-0.82*	-0.91*
\$7,359–\$10,500	10.24	10.31	11.81	-1.57*	-1.50*
\$10,501 or more	10.10	9.81	11.33	-1.23*	-1.52*
Institution total enrollment ⁵					
1–16,504	20.47	20.83	21.49	-1.02*	-0.66
16,505–27,396	24.40	24.60	24.60	-0.20	#
27,397–38,488	27.32	26.99	27.11	0.21	-0.12
38,489 or more	27.81	27.58	26.80	1.01	0.78
Sampled baccalaureate recipient					
Baccalaureate recipient	13.52	13.65	13.20	0.32*	0.45*
Not baccalaureate recipient	86.48	86.35	86.80	-0.32*	-0.45*
Age as of Dec 31, 2015					
15–23	63.04	63.32	60.78	2.26*	2.54*
24–29	20.23	19.59	21.39	-1.16*	-1.80*
30 or older	16.73	16.20	17.83	-1.10*	-1.63*
Unknown	‡	‡	‡	‡	‡
Institutional aid status					
Received	32.92	31.02	32.49	0.43	-1.47*
Did not receive	51.30	54.43	52.44	-1.14*	1.99*
Unknown	15.78	14.55	15.07	0.71	-0.52

See notes at end of table.

Table J-66. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in public 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
State aid status					
Received	19.45	18.62	20.55	-1.10*	-1.93*
Did not receive	64.60	66.79	64.25	0.35	2.54*
Unknown	15.95	14.59	15.20	0.75*	-0.61
Parent's highest level of education					
Middle school/junior high	2.76	2.78	2.76	#*	0.02
High school	24.45	25.02	25.30	-0.85*	-0.28*
College or beyond	64.18	63.76	62.96	1.22*	0.80*
Unknown	8.62	8.44	8.97	-0.35*	-0.53*
Marital status					
Unmarried-single/divorce/widow	87.75	88.15	86.97	0.78*	1.18*
Married/remarried	9.94	9.47	10.66	-0.72*	-1.19*
Separated	0.52	0.55	0.53	-0.01	0.02
Divorced or widowed	1.79	1.83	1.84	-0.05*	-0.01
Support children					
Has dependents	10.48	10.26	11.62	-1.14*	-1.36*
Does not have dependents	89.52	89.74	88.38	1.14*	1.36*
Unknown	‡	‡	‡	‡	‡
Income ⁴					
\$0 or less	5.51	5.54	6.10	-0.59*	-0.56*
\$1–\$15,046	17.73	17.54	19.06	-1.33*	-1.52*
\$15,047–\$41,502	25.08	24.86	26.88	-1.80*	-2.02*
\$41,503–\$94,062	25.90	25.37	25.20	0.70*	0.17*
\$94,063 or more	25.08	25.92	22.16	2.92*	3.76*
Unknown	0.69	0.77	0.60	0.09	0.17

See notes at end of table.

Table J-66. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in public 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Major					
Undecided	‡	‡	‡	‡	‡
Humanities	9.54	10.88	9.68	-0.14	1.20*
Social/behavioral sciences	11.19	10.80	11.44	-0.25	-0.64
Life sciences	13.77	13.54	13.77	#*	-0.23
Physical sciences/math	3.07	2.98	2.83	0.24*	0.15*
Computer/information science	4.45	4.08	4.34	0.11*	-0.26
Engineering	10.45	10.27	9.99	0.46*	0.28*
Education	5.31	4.98	5.34	-0.03	-0.36
Business/Management	17.24	17.32	16.65	0.59*	0.67*
Health	10.72	9.99	11.26	-0.54*	-1.27*
Vocational/technical	0.80	0.74	0.92	-0.12*	-0.18*
Other technical/professional	12.29	12.21	12.69	-0.40	-0.48
Unknown	0.94	2.05	0.87	0.07*	1.18*
Degree program (undergraduate only)					
Postsecondary award, certificate or diploma of less than two academic years	‡	‡	‡	‡	‡
Associate's degree	1.09	1.22	1.22	-0.13	#
Postsecondary award, certificate, diploma, or degree program	97.68	96.58	97.58	0.10*	-1.00*
Bachelor's degree or equivalent	0.76	1.13	0.72	0.04	0.41*
Unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					
1–64	32.31	32.47	31.20	1.11*	1.27*
65–76	26.22	25.81	25.71	0.51	0.10
77–86	23.38	23.54	23.50	-0.12	0.04
87 or more	16.41	16.55	17.79	-1.38*	-1.24*
None or unknown	1.68	1.63	1.79	-0.11*	-0.16

See notes at end of table.

Table J-66. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in public 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Number of first-time, full-time undergraduate students living on campus ⁵					
0–458	12.16	11.98	12.46	-0.30	-0.48
459–854	18.75	18.60	19.26	-0.51*	-0.66
855–1,568	25.42	25.16	25.18	0.24	-0.02
1,569 or more	39.29	39.98	38.25	1.04*	1.73*
Unknown	4.39	4.29	4.85	-0.46*	-0.56*
Average amount of grant and scholarship aid received ⁵					
\$0–\$6,275	21.42	21.85	22.54	-1.12*	-0.69
\$6,276–\$7,493	22.69	22.53	23.09	-0.40	-0.56
\$7,494–\$8,791	25.32	25.33	25.35	-0.03	-0.02
\$8,792 or more	28.88	28.66	27.22	1.66*	1.44*
Unknown	1.68	1.63	1.79	-0.11*	-0.16
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁵					
0–194	14.61	14.41	14.37	0.24	0.04
195–338	21.19	21.01	21.04	0.15	-0.03
339–547	26.12	26.85	27.08	-0.96	-0.23
548 or more	36.40	36.11	35.72	0.68	0.39
Unknown	1.68	1.63	1.79	-0.11*	-0.16
Veteran status					
Yes	3.15	3.18	3.20	-0.05	-0.02
No	96.85	96.82	96.80	0.05	0.02

See notes at end of table.

Table J-66. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in public 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race					
White	57.63	56.67	56.61	1.02*	0.06
Black or African American	10.86	10.39	12.43	-1.57*	-2.04*
Hispanic	14.36	13.16	14.54	-0.18	-1.38*
Asian	12.31	10.34	11.57	0.74*	-1.23*
American Indian or Alaska Native	0.45	0.45	0.51	-0.06	-0.06
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡
More than one race	3.79	3.23	3.77	0.02	-0.54*
Unknown	0.33	5.56	0.31	0.02	5.25*
Sex					
Male	46.13	46.69	44.79	1.34*	1.90*
Female	53.87	52.67	55.21	-1.34*	-2.54*
Unknown	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than 30 unweighted nonrespondents).

* $p < 0.05$.¹ Student base weight, adjusted for nonresponse.

² New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.

³ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.

⁴ Categories were defined by quartiles.

⁵ Categories were defined by quartiles computed at the institution level.

NOTE: "Base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Sample sizes rounded to the nearest 10 and, therefore, may not sum to total.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-67. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in private nonprofit, less-than-4-year institutions: 2015–16

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ²					
New England	‡	‡	‡	‡	‡
Mid East	34.61	32.24	35.07	-0.46	-2.83
Great Lakes	‡	‡	‡	‡	‡
Plains	‡	‡	‡	‡	‡
Southeast	35.78	32.96	31.81	3.97	1.15
Southwest	7.76	9.32	6.34	1.42	2.98
Rocky Mountains	1.07	1.80	1.57	-0.50	0.23
Far West	20.77	23.67	25.22	-4.45	-1.55
Outlying areas	‡	‡	‡	‡	‡
Federal aid status					
Received	81.63	79.18	79.73	1.90*	-0.55
Did not receive	10.52	13.22	11.36	-0.84	1.86
Unknown	7.84	7.60	8.91	-1.07	-1.31
Pell Grant status					
Received	61.87	59.73	66.35	-4.48	-6.62*
Did not receive	38.13	40.27	33.65	4.48	6.62*
Total Pell amount received ³					
None	38.13	40.27	33.65	4.48	6.62*
\$1–\$2,888	12.62	13.63	14.70	-2.08	-1.07
\$2,889–\$5,774	22.01	22.46	23.38	-1.37	-0.92
\$5,775	27.24	23.63	28.26	-1.02	-4.63

See notes at end of table.

Table J-67. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in private nonprofit, less-than-4-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Stafford Loan status					
Received	71.93	68.22	64.71	7.22*	3.51
Did not receive	28.07	31.78	35.29	-7.22*	-3.51
Total Stafford amount received ⁴					
None	28.07	31.78	35.29	-7.22*	-3.51
\$1–\$3,500	11.06	11.91	9.51	1.55	2.40
\$3,501–\$6,458	19.87	18.53	21.69	-1.82	-3.16
\$6,459–\$9,500	25.40	23.30	23.34	2.06	-0.04
\$9,501 or more	15.60	14.48	10.17	5.43*	4.31*
Institution total enrollment ⁵					
1–498	35.40	35.59	30.89	4.51	4.70
499–716	17.55	21.15	24.45	-6.90*	-3.30
717–1,277	22.69	22.10	24.76	-2.07	-2.66
1,278 or more	24.37	21.16	19.90	4.47	1.26
Sampled baccalaureate recipient					
Baccalaureate recipient	‡	‡	‡	‡	‡
Not baccalaureate recipient	100.00	100.00	100.00	#	#
Age as of Dec 31, 2015					
15–23	35.38	36.42	37.83	-2.45	-1.41
24–29	26.97	27.71	25.24	1.73	2.47
30 or older	37.65	35.87	36.93	0.72	-1.06
Unknown	‡	‡	‡	‡	‡
Institutional aid status					
Received	16.22	14.89	13.16	3.06*	1.73
Did not receive	56.25	60.28	61.07	-4.82	-0.79
Unknown	27.52	24.83	25.77	1.75	-0.94

See notes at end of table.

Table J-67. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in private nonprofit, less-than-4-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
State aid status					
Received	‡	‡	‡	‡	‡
Did not receive	53.99	60.94	57.12	-3.13	3.82
Unknown	31.80	27.52	27.88	3.92	-0.36
Parent's highest level of education					
Middle school/junior high	‡	‡	‡	‡	‡
High school	35.11	35.97	35.49	-0.38	0.48
College or beyond	42.08	42.10	39.32	2.76	2.78
Unknown	17.78	17.35	19.86	-2.08	-2.51
Marital status					
Unmarried-single/divorce/widow	73.07	74.47	74.91	-1.84	-0.44
Married/remarried	19.22	17.95	17.10	2.12	0.85
Separated	‡	‡	‡	‡	‡
Divorced or widowed	‡	‡	‡	‡	‡
Support children					
Has dependents	44.26	42.04	43.49	0.77	-1.45
Does not have dependents	55.74	57.96	56.51	-0.77	1.45
Unknown	‡	‡	‡	‡	‡
Income ⁴					
\$0 or less	10.21	10.88	11.97	-1.76	-1.09
\$1–\$6,568	13.60	12.34	16.23	-2.63	-3.89
\$6,569–\$18,940	25.01	25.74	24.91	0.10	0.83
\$18,941–\$36,402	25.27	25.35	25.33	-0.06	0.02
\$36,403 or more	25.77	25.47	21.45	4.32*	4.02*
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table J-67. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in private nonprofit, less-than-4-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Major					
Undecided	‡	‡	‡	‡	‡
Humanities	‡	‡	‡	‡	‡
Social/behavioral sciences	‡	‡	‡	‡	‡
Life sciences	‡	‡	‡	‡	‡
Physical sciences/math	‡	‡	‡	‡	‡
Computer/information science	‡	‡	‡	‡	‡
Engineering	‡	‡	‡	‡	‡
Education	‡	‡	‡	‡	‡
Business/Management	‡	‡	‡	‡	‡
Health	64.78	59.14	60.63	4.15	-1.49
Vocational/technical	12.41	13.93	15.55	-3.14	-1.62
Other technical/professional	12.03	13.45	11.81	0.22	1.64
Unknown	‡	‡	‡	‡	‡
Degree program (undergraduate only)					
Postsecondary award, certificate or diploma of less than two academic years	47.18	52.02	52.30	-5.12*	-0.28
Associate's degree	52.82	47.98	47.70	5.12*	0.28
Postsecondary award, certificate, diploma, or degree program	‡	‡	‡	‡	‡
Bachelor's degree or equivalent	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					
1–67	19.28	20.35	16.81	2.47	3.54
68–84	35.76	34.11	31.86	3.90	2.25
85–89	16.67	17.88	21.30	-4.63	-3.42
90 or more	23.32	22.91	26.05	-2.73	-3.14
None or unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table J-67. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in private nonprofit, less-than-4-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Number of first-time, full-time undergraduate students living on campus ⁵					
8–10	0.99	1.43	0.90	0.09	0.53
Unknown	99.01	98.57	99.10	-0.09	-0.53
Average amount of grant and scholarship aid received ⁵					
\$0–\$4,587	52.31	47.43	46.40	5.91	1.03
\$4,588–\$4,671	9.56	12.90	11.80	-2.24	1.10
\$4,672–\$5,684	15.58	17.53	17.62	-2.04	-0.09
\$5,685 or more	17.58	17.39	20.20	-2.62	-2.81
Unknown	‡	‡	‡	‡	‡
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁵					
0–13	29.74	26.50	23.09	6.65	3.41
14–33	19.13	19.77	23.74	-4.61	-3.97
34–88	11.67	16.74	14.04	-2.37	2.70
89 or more	34.50	32.25	35.14	-0.64	-2.89
Unknown	‡	‡	‡	‡	‡
Veteran status					
Yes	6.34	6.83	7.05	-0.71	-0.22
No	93.66	93.17	92.95	0.71	0.22

See notes at end of table.

Table J-67. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in private nonprofit, less-than-4-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race					
White	51.32	50.12	45.94	5.38	4.18
Black or African American	25.50	23.88	28.16	-2.66	-4.28
Hispanic	14.64	14.73	16.08	-1.44	-1.35
Asian	‡	‡	‡	‡	‡
American Indian or Alaska Native	‡	‡	‡	‡	‡
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡
More than one race	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Sex					
Male	27.91	29.95	27.96	-0.05	1.99
Female	72.09	70.05	72.04	0.05	-1.99
Unknown	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than 30 unweighted nonrespondents).

* $p < 0.05$.¹ Student base weight, adjusted for nonresponse.

² New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.

³ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.

⁴ Categories were defined by quartiles.

⁵ Categories were defined by quartiles computed at the institution level.

NOTE: "Base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Sample sizes rounded to the nearest 10 and, therefore, may not sum to total.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-68. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in private nonprofit, 4-year, non-doctorate-granting institutions: 2015–16

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis Code (Office of Business Economics [OBE])					
Region ²					
New England	10.72	10.72	10.61	0.11	0.11
Mid East	17.22	18.04	16.46	0.76	1.58
Great Lakes	17.98	17.54	18.41	-0.43	-0.87
Plains	11.80	11.66	11.88	-0.08	-0.22
Southeast	19.62	19.13	19.67	-0.05	-0.54
Southwest	2.82	2.88	2.81	0.01	0.07
Rocky Mountains	12.50	12.02	12.99	-0.49	-0.97
Far West	4.36	4.30	4.27	0.09	0.03
Outlying areas	2.97	3.71	2.91	0.06	0.80*
Student type					
Undergraduate student	88.17	87.54	84.99	3.18*	2.55*
Graduate student	11.81	12.43	14.99	-3.18*	-2.56*
First professional student	‡	‡	‡	‡	‡
Federal aid status					
Received	66.11	64.51	66.87	-0.76*	-2.36*
Did not receive	30.08	31.75	29.11	0.97*	2.64*
Unknown	3.81	3.73	4.02	-0.21	-0.29
Pell Grant status					
Received	38.98	38.51	42.05	-3.07*	-3.54*
Did not receive	61.02	61.49	57.95	3.07*	3.54*
Total Pell amount received ³					
None	61.02	61.49	57.95	3.07*	3.54*
\$1–\$2,888	10.19	10.76	11.19	-1.00*	-0.43
\$2,889–\$5,774	14.74	15.10	15.86	-1.12*	-0.76
\$5,775	14.05	12.65	15.00	-0.95	-2.35*

See notes at end of table.

Table J-68. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in private nonprofit, 4-year, non-doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Stafford Loan status					
Received	55.79	53.90	56.94	-1.15*	-3.04*
Did not receive	44.21	46.10	43.06	1.15*	3.04*
Total Stafford amount received ⁴					
None	44.21	46.10	43.06	1.15*	3.04*
\$1–\$5,500	21.20	20.85	21.48	-0.28	-0.63
\$5,501–\$7,500	18.27	17.57	18.65	-0.38	-1.08
\$7,501–\$10,250	5.88	5.38	6.45	-0.57*	-1.07*
\$10,251 or more	10.45	10.10	10.36	0.09	-0.26
Institution total enrollment ⁵					
1–1,639	25.73	24.74	25.36	0.37	-0.62
1,640–2,618	23.74	22.53	22.92	0.82*	-0.39
2,619–5,157	24.25	25.35	24.81	-0.56	0.54
5,158 or more	26.28	27.38	26.90	-0.62	0.48
Sampled baccalaureate recipient					
Baccalaureate recipient	15.04	14.51	14.23	0.81*	0.28
Not baccalaureate recipient	84.96	85.49	85.77	-0.81*	-0.28
Age as of Dec 31, 2015					
15–23	60.00	58.06	57.75	2.25*	0.31
24–29	14.08	15.50	15.28	-1.20*	0.22
30 or older	25.93	26.21	26.97	-1.04*	-0.76
Unknown	‡	‡	‡	‡	‡
Institutional aid status					
Received	52.68	48.88	50.45	2.23*	-1.57*
Did not receive	40.57	44.50	42.08	-1.51*	2.42*
Unknown	6.76	6.62	7.47	-0.71*	-0.85*

See notes at end of table.

Table J-68. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in private nonprofit, 4-year, non-doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
State aid status					
Received	17.78	16.13	17.42	0.36	-1.29*
Did not receive	74.75	76.68	74.62	0.13	2.06*
Unknown	7.47	7.19	7.97	-0.50	-0.78
Parent's highest level of education					
Middle school/junior high	2.57	2.49	2.47	0.10	0.02
High school	26.98	27.28	26.79	0.19	0.49
College or beyond	60.45	59.91	60.12	0.33	-0.21
Unknown	10.00	10.32	10.62	-0.62*	-0.30
Marital status					
Unmarried-single/divorce/widow	77.96	77.14	77.80	0.16	-0.66*
Married/remarried	16.90	17.77	17.10	-0.20	0.67
Separated	0.83	0.85	0.92	-0.09	-0.07
Divorced or widowed	4.31	4.23	4.18	0.13	0.05
Support children					
Has dependents	21.59	23.20	22.71	-1.12*	0.49
Does not have dependents	78.41	76.80	77.29	1.12*	-0.49
Unknown	‡	‡	‡	‡	‡
Income ⁴					
\$0 or less	5.95	5.96	6.21	-0.26*	-0.25
\$1–\$15,926	16.44	16.66	17.70	-1.26*	-1.04*
\$15,927–\$41,826	23.80	25.61	24.38	-0.58	1.23
\$41,827–\$89,471	27.90	25.85	27.73	0.17	-1.88*
\$89,472 or more	25.59	25.44	23.62	1.97*	1.82
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table J-68. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in private nonprofit, 4-year, non-doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Major					
Undecided	‡	‡	‡	‡	‡
Humanities	15.70	16.74	15.42	0.28*	1.32*
Social/behavioral sciences	9.49	8.82	9.23	0.26*	-0.41
Life sciences	10.17	9.09	10.05	0.12*	-0.96*
Physical sciences/math	2.41	2.30	2.27	0.14*	0.03
Computer/information science	4.90	4.82	4.26	0.64	0.56
Engineering	4.26	4.22	4.39	-0.13	-0.17
Education	6.48	5.98	6.62	-0.14	-0.64
Business/Management	19.46	19.42	19.84	-0.38	-0.42
Health	15.36	15.54	15.58	-0.22	-0.04
Vocational/technical	1.20	1.48	1.31	-0.11	0.17
Other technical/professional	9.31	9.23	9.62	-0.31	-0.39
Unknown	1.17	2.25	1.32	-0.15	0.93*
Degree program (undergraduate only)					
Postsecondary award, certificate or diploma of less than two academic years	1.14	1.57	1.25	-0.11	0.32*
Associate's degree	10.58	11.99	11.02	-0.44	0.97*
Postsecondary award, certificate, diploma, or degree program	88.11	85.67	87.53	0.58*	-1.86
Bachelor's degree or equivalent	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					
1–91	34.96	35.94	34.76	0.20	1.18
92–98	21.75	21.98	22.35	-0.60	-0.37
99 or more	35.48	34.02	35.26	0.22	-1.24
None or unknown	7.81	8.06	7.64	0.17	0.42

See notes at end of table.

Table J-68. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in private nonprofit, 4-year, non-doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Number of first-time, full-time undergraduate students living on campus ⁵					
0–178	21.17	21.25	21.78	-0.61	-0.53
179–289	17.48	16.66	17.32	0.16	-0.66
290–447	18.56	17.26	18.22	0.34	-0.96*
448 or more	18.35	18.80	18.13	0.22	0.67
Unknown	24.44	26.03	24.54	-0.10	1.49
Average amount of grant and scholarship aid received ⁵					
\$0–\$12,844	34.53	36.18	35.24	-0.71	0.94
\$12,845–\$17,343	21.72	20.95	22.24	-0.52	-1.29*
\$17,344–\$22,901	17.42	17.05	17.56	-0.14	-0.51
\$22,902 or more	18.51	17.76	17.32	1.19*	0.44
Unknown	7.81	8.06	7.64	0.17	0.42
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁵					
0–35	26.61	26.42	25.69	0.92*	0.73
36–50	18.41	17.61	18.17	0.24	-0.56
51–84	18.49	18.44	18.65	-0.16	-0.21
85 or more	28.33	29.22	29.57	-1.24*	-0.35
Unknown	8.15	8.31	7.91	0.24	0.40
Veteran status					
Yes	5.29	5.27	4.13	1.16	1.14*
No	94.71	94.73	95.87	-1.16	-1.14*

See notes at end of table.

Table J-68. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in private nonprofit, 4-year, non-doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race					
White	62.81	61.55	61.69	1.12*	-0.14
Black or African American	15.21	14.95	16.19	-0.98*	-1.24*
Hispanic	12.18	12.35	12.05	0.13	0.30
Asian	5.17	4.75	5.39	-0.22	-0.64*
American Indian or Alaska Native	‡	‡	‡	‡	‡
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡
More than one race	‡	‡	‡	‡	‡
Unknown	0.55	3.20	0.57	-0.02	2.63*
Sex					
Male	39.77	41.72	40.08	-0.31	1.64
Female	60.23	58.25	59.92	0.31	-1.67
Unknown	‡	‡	‡	‡	‡

‡ Reporting standards not met (fewer than 30 unweighted nonrespondents).

* $p < 0.05$.¹ Student base weight, adjusted for nonresponse.

² New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.

³ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.

⁴ Categories were defined by quartiles.

⁵ Categories were defined by quartiles computed at the institution level.

NOTE: "Base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Sample sizes rounded to the nearest 10 and, therefore, may not sum to total.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-69. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in private nonprofit, 4-year, doctorate-granting institutions: 2015–16

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ²					
New England	15.31	14.54	14.41	0.90	0.13
Mid East	26.45	27.01	26.74	-0.29	0.27
Great Lakes	11.68	11.46	11.90	-0.22	-0.44
Plains	7.10	6.88	7.49	-0.39*	-0.61*
Southeast	18.74	18.61	18.76	-0.02	-0.15
Southwest	4.47	4.23	4.43	0.04	-0.20
Rocky Mountains	2.66	2.43	2.37	0.29	0.06
Far West	11.82	12.62	12.22	-0.40	0.40
Outlying areas	1.77	2.20	1.69	0.08	0.51
Student type					
Undergraduate student	57.28	57.56	55.40	1.88*	2.16*
Graduate student	36.06	36.17	37.24	-1.18*	-1.07
First professional student	6.67	6.27	7.36	-0.69*	-1.09*
Federal aid status					
Received	55.98	53.15	58.58	-2.60*	-5.43*
Did not receive	34.86	38.27	33.38	1.48*	4.89*
Unknown	9.17	8.58	8.04	1.13*	0.54
Pell Grant status					
Received	31.39	30.50	35.09	-3.70*	-4.59*
Did not receive	68.61	69.50	64.91	3.70*	4.59*
Total Pell amount received ³					
None	68.61	69.50	64.91	3.70*	4.59*
\$1–\$2,888	8.51	8.37	10.13	-1.62*	-1.76*
\$2,889–\$5,774	12.80	12.76	13.94	-1.14*	-1.18
\$5,775	10.08	9.37	11.02	-0.94*	-1.65*

See notes at end of table.

Table J-69. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in private nonprofit, 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Stafford Loan status					
Received	47.46	45.36	50.84	-3.38*	-5.48*
Did not receive	52.54	54.64	49.16	3.38*	5.48*
Total Stafford amount received ⁴					
None	52.54	54.64	49.16	3.38*	5.48*
\$1–\$6,000	12.92	12.68	13.36	-0.44	-0.68
\$6,001–\$7,500	11.06	10.67	11.89	-0.83*	-1.22*
\$7,501–\$14,000	9.70	9.27	10.61	-0.91*	-1.34*
\$14,001 or more	13.78	12.74	14.98	-1.20*	-2.24*
Institution total enrollment ⁵					
1–4,125	21.91	21.51	22.43	-0.52	-0.92
4,126–8,734	20.03	19.46	20.38	-0.35	-0.92
8,735–17,448	25.18	25.78	24.90	0.28	0.88
17,449 or more	32.87	33.25	32.29	0.58	0.96
Sampled baccalaureate recipient					
Baccalaureate recipient	11.28	11.23	10.92	0.36*	0.31
Not baccalaureate recipient	88.72	88.77	89.08	-0.36*	-0.31
Age as of Dec 31, 2015					
15–23	47.26	46.45	45.01	2.25*	1.44*
24–29	23.42	23.53	24.67	-1.25*	-1.14*
30 or older	29.33	29.39	30.31	-0.98*	-0.92
Unknown	‡	‡	‡	‡	‡
Institutional aid status					
Received	46.67	44.82	45.62	1.05*	-0.80
Did not receive	42.24	44.50	43.77	-1.53*	0.73
Unknown	11.10	10.68	10.61	0.49	0.07

See notes at end of table.

Table J-69. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in private nonprofit, 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
State aid status					
Received	10.50	9.54	10.83	-0.33*	-1.29*
Did not receive	75.88	77.31	76.06	-0.18	1.25*
Unknown	13.61	13.15	13.11	0.50	0.04
Parent's highest level of education					
Middle school/junior high	1.97	1.87	2.01	-0.04	-0.14*
High school	23.70	23.51	23.86	-0.16	-0.35*
College or beyond	66.11	66.30	65.46	0.65	0.84*
Unknown	8.22	8.32	8.67	-0.45*	-0.35*
Marital status					
Unmarried-single/divorce/widow	77.61	77.08	77.26	0.35*	-0.18*
Married/remarried	17.84	18.29	17.84	#	0.45
Separated	‡	‡	‡	‡	‡
Divorced or widowed	3.32	3.32	3.59	-0.27*	-0.27
Support children					
Has dependents	19.50	20.15	20.52	-1.02*	-0.37*
Does not have dependents	80.50	79.85	79.48	1.02	0.37*
Unknown	‡	‡	‡	‡	‡
Income ⁴					
\$0 or less	6.92	7.35	7.19	-0.27*	0.16
\$1–\$15,796	17.89	17.65	18.89	-1.00*	-1.24*
\$15,797–\$45,963	25.56	25.47	26.49	-0.93*	-1.02*
\$45,964–\$100,530	23.87	24.07	23.66	0.21	0.41
\$100,531 or more	25.18	24.91	23.29	1.89*	1.62
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table J-69. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in private nonprofit, 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Major					
Undecided	‡	‡	‡	‡	‡
Humanities	12.97	15.08	12.79	0.18	2.29*
Social/behavioral sciences	12.68	12.26	13.08	-0.40	-0.82
Life sciences	11.38	10.56	11.03	0.35	-0.47
Physical sciences/math	2.50	2.23	2.53	-0.03	-0.30
Computer/information science	3.65	3.38	3.73	-0.08	-0.35
Engineering	6.04	5.51	5.75	0.29*	-0.24
Education	4.21	3.91	4.27	-0.06	-0.36
Business/Management	18.30	20.33	18.59	-0.29	1.74*
Health	15.79	13.90	16.27	-0.48	-2.37*
Vocational/technical	‡	‡	‡	‡	‡
Other technical/professional	10.72	10.20	10.45	0.27	-0.25
Unknown	‡	‡	‡	‡	‡
Degree program (undergraduate only)					
Postsecondary award, certificate or diploma of less than two academic years	1.02	2.14	1.20	-0.18	0.94
Associate's degree	2.95	3.62	3.52	-0.57	0.10
Postsecondary award, certificate, diploma, or degree program	95.59	92.74	94.82	0.77*	-2.08
Bachelor's degree or equivalent	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					
1–83	37.42	36.77	36.09	1.33*	0.68
84–96	25.38	26.68	25.56	-0.18	1.12*
97–99	22.35	21.65	22.71	-0.36	-1.06*
100 or more	8.64	8.64	8.99	-0.35*	-0.35
None or unknown	6.21	6.26	6.66	-0.45	-0.40

See notes at end of table.

Table J-69. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in private nonprofit, 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Number of first-time, full-time undergraduate students living on campus ⁵					
0–266	14.60	15.20	15.51	-0.91*	-0.31
267–524	17.37	17.10	17.56	-0.19	-0.46
525–886	23.31	22.43	23.06	0.25	-0.63
887 or more	33.18	33.21	31.90	1.28*	1.31*
Unknown	11.55	12.05	11.97	-0.42	0.08
Average amount of grant and scholarship aid received ⁵					
\$0–\$15,432	28.09	27.58	28.60	-0.51	-1.02
\$15,433–\$19,621	18.39	18.84	18.82	-0.43	0.02
\$19,622–\$25,564	18.57	18.94	18.85	-0.28	0.09
\$25,565 or more	28.74	28.37	27.08	1.66*	1.29*
Unknown	6.21	6.26	6.66	-0.45	-0.40
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁵					
0–50	18.91	18.85	18.95	-0.04	-0.10
51–83	18.64	18.57	18.66	-0.02	-0.09
84–141	19.61	19.95	19.52	0.09	0.43
142 or more	35.59	35.49	35.13	0.46	0.36
Unknown	7.25	7.14	7.74	-0.49	-0.60
Veteran status					
Yes	5.09	4.86	4.06	1.03	0.80
No	94.91	95.14	95.94	-1.03	-0.80

See notes at end of table.

Table J-69. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in private nonprofit, 4-year, doctorate-granting institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race					
White	58.71	56.48	58.22	0.49	-1.74*
Black or African American	12.02	11.27	13.07	-1.05*	-1.80*
Hispanic	13.22	12.70	12.92	0.30	-0.22
Asian	11.71	10.89	11.31	0.40	-0.42
American Indian or Alaska Native	‡	‡	‡	‡	‡
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡
More than one race	3.09	2.79	3.15	-0.06	-0.36
Unknown	0.72	5.29	0.73	-0.01	4.56*
Sex					
Male	41.30	43.11	40.56	0.74	2.55*
Female	58.70	56.81	59.44	-0.74	-2.63*
Unknown	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than 30 unweighted nonrespondents).

* $p < 0.05$.¹ Student base weight, adjusted for nonresponse.

² New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.

³ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.

⁴ Categories were defined by quartiles.

⁵ Categories were defined by quartiles computed at the institution level.

NOTE: "Base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Sample sizes rounded to the nearest 10 and, therefore, may not sum to total.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-70. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in private for-profit, less-than-2-year institutions: 2015–16

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ²					
New England	4.37	5.35	4.22	0.15	1.13
Mid East	24.32	22.79	25.10	-0.78	-2.31
Great Lakes	15.03	12.31	15.00	0.03	-2.69*
Plains	‡	‡	‡	‡	‡
Southeast	14.83	14.43	15.65	-0.82*	-1.22
Southwest	8.24	8.57	8.16	0.08	0.41
Rocky Mountains	‡	‡	‡	‡	‡
Far West	27.28	25.36	25.90	1.38	-0.54
Outlying areas	2.76	8.06	2.60	0.16	5.46
Federal aid status					
Received	75.45	77.19	77.76	-2.31*	-0.57
Did not receive	16.59	16.57	15.29	1.30*	1.28
Unknown	7.96	6.24	6.95	1.01	-0.71
Pell Grant status					
Received	61.80	65.06	65.03	-3.23*	0.03
Did not receive	38.20	34.94	34.97	3.23*	-0.03
Total Pell amount received ³					
None	38.20	34.94	34.97	3.23*	-0.03
\$1–\$2,888	17.31	19.64	18.28	-0.97*	1.36
\$2,889–\$5,774	25.19	25.88	26.71	-1.52*	-0.83
\$5,775	19.30	19.54	20.04	-0.74*	-0.50

See notes at end of table.

Table J-70. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in private for-profit, less-than-2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Stafford Loan status					
Received	58.04	52.84	61.06	-3.02*	-8.22*
Did not receive	41.96	47.16	38.94	3.02*	8.22*
Total Stafford amount received ⁴					
None	41.96	47.16	38.94	3.02*	8.22*
\$1–\$3,959	13.35	12.63	15.53	-2.18*	-2.90*
\$3,960–\$6,333	13.88	13.82	14.99	-1.11*	-1.17
\$6,334–\$9,500	24.98	21.33	26.55	-1.57*	-5.22*
\$9,501 or more	5.83	5.06	3.99	1.84*	1.07*
Institution total enrollment ⁵					
1–213	23.93	22.93	24.23	-0.30	-1.30
214–421	32.95	30.01	32.14	0.81	-2.13
422–900	23.60	25.78	23.68	-0.08	2.10
901 or more	19.52	21.28	19.94	-0.42	1.34
Sampled baccalaureate recipient					
Baccalaureate recipient	‡	‡	‡	‡	‡
Not baccalaureate recipient	99.94	99.97	99.94	#	0.03
Age as of Dec 31, 2015					
15–23	42.78	44.99	41.83	0.95	3.16*
24–29	28.51	27.43	28.55	-0.04	-1.12
30 or older	28.71	27.58	29.62	-0.91	-2.04
Unknown	‡	‡	‡	‡	‡
Institutional aid status					
Received	7.62	7.93	7.53	0.09	0.40
Did not receive	72.53	73.22	72.75	-0.22	0.47
Unknown	19.85	18.85	19.72	0.13	-0.87

See notes at end of table.

Table J-70. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in private for-profit, less-than-2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
State aid status					
Received	3.06	3.75	3.14	-0.08	0.61
Did not receive	74.84	75.51	75.20	-0.36	0.31
Unknown	22.10	20.73	21.65	0.45	-0.92
Parent's highest level of education					
Middle school/junior high	3.78	4.76	3.62	0.16	1.14*
High school	34.63	33.68	35.10	-0.47	-1.42
College or beyond	37.24	35.52	36.53	0.71	-1.01
Unknown	24.35	26.04	24.76	-0.41	1.28
Marital status					
Unmarried-single/divorce/widow	81.21	80.68	81.46	-0.25*	-0.78
Married/remarried	12.07	11.78	12.02	0.05	-0.24
Separated	‡	‡	‡	‡	‡
Divorced or widowed	4.46	4.06	4.29	0.17	-0.23
Support children					
Has dependents	40.72	39.22	42.69	-1.97*	-3.47
Does not have dependents	59.28	60.78	57.31	1.97	3.47*
Unknown	‡	‡	‡	‡	‡
Income ⁴					
\$0 or less	13.62	16.72	14.74	-1.12*	1.98
\$1–\$3,670	5.83	8.36	6.39	-0.56*	1.97
\$3,671–\$14,535	25.76	24.94	26.58	-0.82*	-1.64
\$14,536–\$30,242	27.77	25.49	27.51	0.26	-2.02
\$30,243 or more	26.27	23.64	24.22	2.05*	-0.58
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table J-70. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in private for-profit, less-than-2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Major					
Undecided	†	†	†	†	†
Humanities	†	†	†	†	†
Social/behavioral sciences	†	†	†	†	†
Life sciences	†	†	†	†	†
Physical sciences/math	†	†	†	†	†
Computer/information science	†	†	†	†	†
Engineering	†	†	†	†	†
Education	†	†	†	†	†
Business/Management	†	†	†	†	†
Health	41.09	37.34	40.38	0.71	-3.04
Vocational/technical	7.49	8.47	7.34	0.15	1.13
Other technical/professional	38.70	36.81	39.62	-0.92	-2.81
Unknown	4.87	9.30	4.84	0.03	4.46
Degree program (undergraduate only)					
Postsecondary award, certificate or diploma of less than two academic years	99.42	98.01	99.49	-0.07	-1.48
Associate's degree	†	†	†	†	†
Postsecondary award, certificate, diploma, or degree program	†	†	†	†	†
Bachelor's degree or equivalent	†	†	†	†	†
Unknown	†	†	†	†	†
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					
1–67	32.15	27.30	30.55	1.60*	-3.25
68–79	23.83	24.93	24.26	-0.43	0.67
80–89	21.22	23.06	22.10	-0.88	0.96
90 or more	16.63	19.11	16.64	-0.01	2.47
None or unknown	6.18	5.59	6.45	-0.27	-0.86

See notes at end of table.

Table J-70. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in private for-profit, less-than-2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Number of first-time, full-time undergraduate students living on campus ⁵					
Unknown	100.00	100.00	100.00	#	#
Average amount of grant and scholarship aid received ⁵					
\$0–\$3,874	20.01	22.99	19.11	0.90	3.88
\$3,875–\$4,359	27.09	23.59	27.22	-0.13	-3.63
\$4,360–\$5,003	25.60	25.02	25.15	0.45	-0.13
\$5,004 or more	21.05	22.68	21.96	-0.91	0.72
Unknown	6.25	5.73	6.55	-0.30	-0.82
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁵					
0–24	19.23	18.28	19.98	-0.75*	-1.70
25–49	33.14	30.48	32.60	0.54	-2.12
50–170	18.48	19.93	18.05	0.43	1.88
171 or more	22.89	25.58	22.81	0.08	2.77
Unknown	6.25	5.73	6.55	-0.30	-0.82
Veteran status					
Yes	5.62	5.35	4.99	0.63*	0.36
No	94.38	94.65	95.01	-0.63*	-0.36

See notes at end of table.

Table J-70. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in private for-profit, less-than-2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race					
White	36.87	35.03	36.18	0.69	-1.15
Black or African American	26.11	23.79	27.40	-1.29*	-3.61*
Hispanic	29.71	32.65	29.03	0.68	3.62
Asian	‡	‡	‡	‡	‡
American Indian or Alaska Native	‡	‡	‡	‡	‡
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡
More than one race	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Sex					
Male	24.29	27.82	22.89	1.40*	4.93*
Female	75.71	72.18	77.11	-1.40*	-4.93*
Unknown	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than 30 unweighted nonrespondents).

* $p < 0.05$.¹ Student base weight, adjusted for nonresponse.

² New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.

³ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.

⁴ Categories were defined by quartiles.

⁵ Categories were defined by quartiles computed at the institution level.

NOTE: "Base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Sample sizes rounded to the nearest 10 and, therefore, may not sum to total.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-71. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in private for-profit, 2-year institutions: 2015–16

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ²					
New England	0.50	0.60	0.41	0.09	0.19
Mid East	17.66	15.74	16.68	0.98	-0.94
Great Lakes	9.52	9.53	9.34	0.18	0.19
Plains	3.40	3.16	3.55	-0.15	-0.39
Southeast	24.91	25.11	25.09	-0.18	0.02
Southwest	14.44	15.24	14.08	0.36	1.16
Rocky Mountains	3.29	3.16	3.69	-0.40	-0.53
Far West	21.92	20.68	23.09	-1.17*	-2.41*
Outlying areas	4.36	6.76	4.08	0.28	2.68
Federal aid status					
Received	83.70	82.24	79.97	3.73*	2.27
Did not receive	10.99	12.12	13.61	-2.62*	-1.49*
Unknown	5.31	5.63	6.42	-1.11*	-0.79
Pell Grant status					
Received	72.31	70.84	68.30	4.01*	2.54*
Did not receive	27.69	29.16	31.70	-4.01*	-2.54*
Total Pell amount received ³					
None	27.69	29.16	31.70	-4.01*	-2.54*
\$1–\$2,888	17.28	19.29	19.45	-2.17*	-0.16
\$2,889–\$5,774	28.10	27.45	27.36	0.74*	0.09
\$5,775	26.93	24.10	21.49	5.44*	2.61*

See notes at end of table.

Table J-71. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in private for-profit, 2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Stafford Loan status					
Received	62.32	57.43	57.33	4.99*	0.10
Did not receive	37.68	42.57	42.67	-4.99*	-0.10
Total Stafford amount received ⁴					
None	37.68	42.57	42.67	-4.99*	-0.10
\$1–\$4,750	13.67	15.73	13.14	0.53	2.59*
\$4,751–\$7,719	14.75	13.19	13.66	1.09*	-0.47
\$7,720–\$9,500	17.96	15.27	17.97	-0.01	-2.70*
\$9,501 or more	15.94	13.25	12.56	3.38*	0.69
Institution total enrollment ⁵					
1–652	31.60	30.25	30.64	0.96	-0.39
653–971	22.34	22.52	23.40	-1.06*	-0.88
972–2,194	22.38	21.68	22.61	-0.23	-0.93
2,195 or more	23.68	25.55	23.36	0.32	2.19
Sampled baccalaureate recipient					
Baccalaureate recipient	‡	‡	‡	‡	‡
Not baccalaureate recipient	99.26	99.61	99.40	-0.14	0.21
Age as of Dec 31, 2015					
15–23	42.54	43.20	42.08	0.46	1.12
24–29	25.50	24.97	25.30	0.20	-0.33
30 or older	31.96	31.64	32.62	-0.66	-0.98
Unknown	‡	‡	‡	‡	‡
Institutional aid status					
Received	9.75	9.88	9.06	0.69	0.82
Did not receive	65.66	66.59	66.12	-0.46	0.47
Unknown	24.60	23.54	24.82	-0.22	-1.28

See notes at end of table.

Table J-71. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in private for-profit, 2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
State aid status					
Received	8.74	7.96	7.59	1.15*	0.37
Did not receive	65.00	66.96	66.03	-1.03	0.93
Unknown	26.26	25.08	26.39	-0.13	-1.31
Parent's highest level of education					
Middle school/junior high	5.33	5.63	4.91	0.42*	0.72
High school	35.56	34.81	35.35	0.21*	-0.54
College or beyond	34.69	33.35	34.82	-0.13	-1.47
Unknown	24.42	26.21	24.92	-0.50	1.29
Marital status					
Unmarried-single/divorce/widow	75.72	75.92	74.82	0.90*	1.10*
Married/remarried	15.66	14.93	16.19	-0.53	-1.26
Separated	3.70	3.76	3.95	-0.25	-0.19
Divorced or widowed	4.92	5.38	5.04	-0.12	0.34
Support children					
Has dependents	40.10	39.49	41.20	-1.10	-1.71
Does not have dependents	59.90	60.51	58.80	1.10*	1.71*
Unknown	‡	‡	‡	‡	‡
Income ⁴					
\$0 or less	12.14	13.07	12.20	-0.06	0.87
\$1–\$5,696	11.44	12.90	11.29	0.15	1.61*
\$5,697–\$15,940	25.26	24.72	24.42	0.84*	0.30
\$15,941–\$32,511	25.79	24.30	25.86	-0.07	-1.56
\$32,512 or more	25.05	24.51	25.79	-0.74	-1.28
Unknown	‡	‡	‡	‡	‡

See notes at end of table.

Table J-71. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in private for-profit, 2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Major					
Undecided	‡	‡	‡	‡	‡
Humanities	4.90	5.67	4.33	0.57	1.34
Social/behavioral sciences	‡	‡	‡	‡	‡
Life sciences	‡	‡	‡	‡	‡
Physical sciences/math	‡	‡	‡	‡	‡
Computer/information science	3.24	2.77	3.06	0.18*	-0.29
Engineering	4.88	4.14	4.28	0.60*	-0.14
Education	‡	‡	‡	‡	‡
Business/Management	4.51	3.77	4.66	-0.15	-0.89*
Health	53.36	51.54	55.26	-1.90*	-3.72*
Vocational/technical	16.22	17.97	14.96	1.26*	3.01*
Other technical/professional	10.65	11.88	11.12	-0.47	0.76
Unknown	‡	‡	‡	‡	‡
Degree program (undergraduate only)					
Postsecondary award, certificate or diploma of less than two academic years	55.05	61.90	55.77	-0.72	6.13*
Associate's degree	44.44	37.20	43.52	0.92	-6.32*
Postsecondary award, certificate, diploma, or degree program	‡	‡	‡	‡	‡
Bachelor's degree or equivalent	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					
1–75	24.35	24.85	25.25	-0.90	-0.40
76–83	27.62	26.47	28.05	-0.43	-1.58
84–92	23.00	23.24	22.81	0.19	0.43
93 or more	25.04	25.45	23.89	1.15	1.56

See notes at end of table.

Table J-71. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in private for-profit, 2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Number of first-time, full-time undergraduate students living on campus ⁵					
0–39	‡	‡	‡	‡	‡
Unknown	97.44	98.68	98.09	-0.65	0.59
Average amount of grant and scholarship aid received ⁵					
\$0–\$3,947	18.17	17.48	19.81	-1.64*	-2.33*
\$3,948–\$4,670	21.63	22.60	21.22	0.41	1.38
\$4,671–\$5,334	29.82	30.64	29.75	0.07	0.89
\$5,335 or more	27.14	26.00	25.87	1.27	0.13
Unknown	3.23	3.27	3.35	-0.12	-0.08
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁵					
0–32	25.96	22.51	24.96	1.00	-2.45*
33–79	22.91	22.34	23.97	-1.06	-1.63
80–133	23.02	23.82	22.84	0.18	0.98
134 or more	24.88	28.06	24.88	#	3.18
Unknown	3.23	3.27	3.35	-0.12	-0.08
Veteran status					
Yes	7.45	7.79	7.48	-0.03	0.31
No	92.55	92.21	92.52	0.03	-0.31

See notes at end of table.

Table J-71. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in private for-profit, 2-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race					
White	35.08	32.93	35.51	-0.43	-2.58*
Black or African American	24.33	22.57	24.44	-0.11	-1.87*
Hispanic	29.64	29.82	29.15	0.49	0.67
Asian	4.08	5.04	4.12	-0.04	0.92
American Indian or Alaska Native	‡	‡	‡	‡	‡
Native Hawaiian or other Pacific Islander	‡	‡	‡	‡	‡
More than one race	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Sex					
Male	37.00	39.92	34.04	2.96*	5.88*
Female	63.00	59.90	65.96	-2.96*	-6.06*
Unknown	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than 30 unweighted nonrespondents).

* $p < 0.05$.¹ Student base weight, adjusted for nonresponse.

² New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.

³ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.

⁴ Categories were defined by quartiles.

⁵ Categories were defined by quartiles computed at the institution level.

NOTE: "Base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Sample sizes rounded to the nearest 10 and, therefore, may not sum to total.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-72. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in private for-profit, 4-year institutions: 2015–16

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ²					
New England	0.08	0.12	0.14	-0.06	-0.02
Mid East	6.30	6.35	9.77	-3.47*	-3.42*
Great Lakes	9.53	11.39	11.55	-2.02	-0.16
Plains	23.85	18.43	15.19	8.66	3.24
Southeast	21.04	22.89	24.88	-3.84	-1.99
Southwest	20.04	20.14	17.17	2.87	2.97
Rocky Mountains	4.38	4.73	6.72	-2.34*	-1.99*
Far West	13.97	14.80	13.50	0.47	1.30
Outlying areas	0.81	1.15	1.08	-0.27*	0.07
Student type					
Undergraduate student	72.89	75.30	73.90	-1.01	1.40
Graduate student	25.79	23.54	24.46	1.33	-0.92
First professional student	1.33	1.17	1.64	-0.31	-0.47
Federal aid status					
Received	68.15	70.09	78.32	-10.17*	-8.23*
Did not receive	19.89	22.07	14.01	5.88*	8.06*
Unknown	11.95	7.84	7.67	4.28	0.17
Pell Grant status					
Received	48.96	50.66	63.50	-14.54*	-12.84*
Did not receive	51.04	49.34	36.50	14.54*	12.84*
Total Pell amount received ³					
None	51.04	49.34	36.50	14.54*	12.84*
\$1–\$2,888	12.98	16.18	17.97	-4.99*	-1.79
\$2,889–\$5,774	19.30	19.67	26.03	-6.73*	-6.36*
\$5,775	16.67	14.81	19.50	-2.83*	-4.69*

See notes at end of table.

Table J-72. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in private for-profit, 4-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Stafford Loan status					
Received	53.03	52.98	66.75	-13.72*	-13.77*
Did not receive	46.97	47.02	33.25	13.72*	13.77*
Total Stafford amount received ⁴					
None	46.97	47.02	33.25	13.72*	13.77*
\$1–\$4,611	10.40	12.05	11.95	-1.55	0.10
\$4,612–\$8,547	13.60	13.30	18.18	-4.58*	-4.88*
\$8,548–\$13,404	16.64	15.58	21.15	-4.51*	-5.57*
\$13,405 or more	12.40	12.06	15.48	-3.08*	-3.42*
Institution total enrollment ⁵					
1–1,206	12.14	13.18	19.01	-6.87*	-5.83*
1,207–2,414	8.16	9.53	13.65	-5.49*	-4.12*
2,415–10,368	12.47	12.71	20.09	-7.62*	-7.38*
10,369 or more	67.24	64.59	47.25	19.99*	17.34*
Sampled baccalaureate recipient					
Baccalaureate recipient	7.11	7.26	9.80	-2.69*	-2.54*
Not baccalaureate recipient	92.89	92.74	90.20	2.69*	2.54*
Age as of Dec 31, 2015					
15–23	15.94	17.20	17.29	-1.35	-0.09
24–29	24.32	24.27	27.23	-2.91*	-2.96*
30 or older	59.74	55.57	55.48	4.26*	0.09
Unknown	‡	‡	‡	‡	‡
Institutional aid status					
Received	30.86	31.37	28.86	2.00	2.51
Did not receive	47.66	50.76	51.45	-3.79	-0.69
Unknown	21.49	17.87	19.69	1.80	-1.82

See notes at end of table.

Table J-72. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in private for-profit, 4-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
State aid status					
Received	4.46	4.57	6.55	-2.09*	-1.98*
Did not receive	73.86	77.31	73.33	0.53	3.98
Unknown	21.68	18.11	20.12	1.56	-2.01
Parent's highest level of education					
Middle school/junior high	4.02	3.82	3.70	0.32	0.12
High school	37.64	38.00	35.41	2.23	2.59
College or beyond	44.06	43.42	44.94	-0.88*	-1.52*
Unknown	14.27	14.77	15.95	-1.68*	-1.18*
Marital status					
Unmarried-single/divorce/widow	53.85	56.37	60.13	-6.28*	-3.76*
Married/remarried	33.59	30.97	27.77	5.82	3.20
Separated	4.29	4.12	3.54	0.75	0.58
Divorced or widowed	8.27	8.54	8.56	-0.29*	-0.02
Support children					
Has dependents	55.28	53.75	51.42	3.86	2.33*
Does not have dependents	44.72	46.25	48.58	-3.86*	-2.33*
Unknown	‡	‡	‡	‡	‡
Income ⁴					
\$0 or less	7.78	8.52	9.75	-1.97*	-1.23*
\$1–\$9,717	14.06	14.03	15.95	-1.89*	-1.92*
\$9,718–\$24,925	23.79	25.34	27.65	-3.86*	-2.31*
\$24,926–\$50,769	27.60	26.60	25.21	2.39	1.39
\$50,770 or more	26.63	25.13	21.27	5.36	3.86
Unknown	0.15	0.37	0.16	-0.01	0.21

See notes at end of table.

Table J-72. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in private for-profit, 4-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Major					
Undecided	‡	‡	‡	‡	‡
Humanities	9.92	9.30	9.42	0.50	-0.12
Social/behavioral sciences	5.58	4.46	3.92	1.66	0.54
Life sciences	2.11	2.46	1.53	0.58	0.93
Physical sciences/math	‡	‡	‡	‡	‡
Computer/information science	8.48	8.68	9.61	-1.13	-0.93
Engineering	3.79	3.89	3.52	0.27	0.37
Education	3.11	2.74	2.20	0.91	0.54
Business/Management	23.30	23.66	22.59	0.71	1.07
Health	23.85	23.55	28.49	-4.64*	-4.94*
Vocational/technical	‡	‡	‡	‡	‡
Other technical/professional	15.06	13.79	15.98	-0.92	-2.19
Unknown	3.39	7.07	1.56	1.83	5.51
Degree program (undergraduate only)					
Postsecondary award, certificate or diploma of less than two academic years	3.71	3.88	5.11	-1.40*	-1.23
Associate's degree	28.79	27.63	35.57	-6.78*	-7.94*
Postsecondary award, certificate, diploma, or degree program	67.45	64.13	59.21	8.24	4.92
Bachelor's degree or equivalent	‡	‡	‡	‡	‡
Unknown	‡	‡	‡	‡	‡
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁵					
1–75	20.33	17.44	17.67	2.66	-0.23
76–88	26.59	28.06	33.61	-7.02*	-5.55*
89–95	28.01	30.88	27.06	0.95	3.82
96 or more	21.30	20.08	15.46	5.84	4.62
None or unknown	3.77	3.53	6.20	-2.43*	-2.67*

See notes at end of table.

Table J-72. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in private for-profit, 4-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Number of first-time, full-time undergraduate students living on campus ⁵					
0–32	1.06	1.32	1.86	-0.80*	-0.54*
33–50	0.96	1.19	1.68	-0.72*	-0.49*
51–99	7.36	7.87	4.72	2.64	3.15
100 or more	10.41	9.63	6.50	3.91	3.13
Unknown	80.20	79.99	85.24	-5.04	-5.25
Average amount of grant and scholarship aid received ⁵					
\$0–\$4,371	24.57	24.26	19.68	4.89	4.58
\$4,372–\$5,234	13.70	16.44	19.22	-5.52*	-2.78
\$5,235–\$6,392	32.84	30.54	33.01	-0.17	-2.47
\$6,393 or more	24.88	24.97	21.38	3.50	3.59
Unknown	4.01	3.80	6.70	-2.69*	-2.90*
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁵					
0–12	27.20	22.87	19.39	7.81	3.48
13–33	7.01	7.91	10.79	-3.78*	-2.88*
34–91	7.12	8.50	11.45	-4.33*	-2.95*
92 or more	55.00	57.28	52.20	2.80	5.08
Unknown	3.66	3.45	6.18	-2.52*	-2.73*
Veteran status					
Yes	13.14	14.03	11.63	1.51	2.40*
No	86.86	85.97	88.37	-1.51	-2.40*

See notes at end of table.

Table J-72. Student-level (interview respondent) analysis after nonresponse and poststratification adjustments for selected variables for students in private for-profit, 4-year institutions: 2015–16—Continued

Variable	After nonresponse weight adjustment	After poststratification adjustment			
	Mean	Means		Difference	
	Respondents, nonresponse adjusted ¹ (1)	Full sample, base weighted (2)	Respondents, adjusted for nonresponse and poststratification (3)	Mean (1) - Mean (3)	Mean (2) - Mean (3)
Race					
White	47.13	41.89	41.68	5.45*	0.21
Black or African American	29.69	25.78	31.84	-2.15	-6.06*
Hispanic	13.91	14.50	15.98	-2.07	-1.48
Asian	4.22	3.73	4.51	-0.29	-0.78*
American Indian or Alaska Native	0.60	0.53	0.78	-0.18	-0.25
Native Hawaiian or other Pacific Islander	0.61	0.53	0.64	-0.03	-0.11
More than one race	3.44	2.72	4.06	-0.62	-1.34*
Unknown	0.40	10.32	0.51	-0.11	9.81*
Sex					
Male	33.50	35.37	32.92	0.58	2.45
Female	66.50	61.53	67.08	-0.58	-5.55*
Unknown	‡	‡	‡	‡	‡

‡ Reporting standards not met (fewer than 30 unweighted nonrespondents).

* $p < 0.05$.¹ Student base weight, adjusted for nonresponse.

² New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mid East = Delaware, 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, 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.

³ Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.

⁴ Categories were defined by quartiles.

⁵ Categories were defined by quartiles computed at the institution level.

NOTE: "Base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Sample sizes rounded to the nearest 10 and, therefore, may not sum to total.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-73. Item nonresponse bias before imputation for STABREG, by select variables for all students: 2015–2016

Variable	Unweighted respondents	Unweighted non-respondents	Full sample mean weighted	Respondent mean weighted	Non-respondent mean weighted	Estimated bias ¹	Relative bias ²
Control and level of institution						(Effect size = ‡)	
Public less-than-2-year	‡	‡	‡	‡	‡	‡	‡
Public 2-year	290	1,930	24.87	10.82	31.01	-14.05*	-56.49
Public 4-year, non-doctorate-granting, primarily subbaccalaureate	130	540	3.26	1.62	3.98	-1.64*	-50.18
Public 4-year, non-doctorate-granting, primarily baccalaureate	300	550	4.74	4.20	4.97	-0.54	-11.31
Public 4-year, doctorate-granting	1,840	2,420	32.96	39.02	30.31	6.06*	18.38
Private nonprofit, less-than-4-year	20	40	0.11	0.18	0.07	0.08	72.77
Private nonprofit, 4-year, non-doctorate-granting	1,030	770	6.65	10.28	5.06	3.64*	54.67
Private nonprofit, 4-year, doctorate-granting	1,600	1,180	19.27	29.90	14.62	10.63*	55.15
For-profit less-than-2-year	20	220	0.91	0.16	1.24	-0.75*	-82.66
For-profit 2-year	50	430	0.91	0.43	1.13	-0.49*	-53.38
For-profit 4-year	760	1,770	6.27	3.37	7.54	-2.90	-46.24
Bureau of Economic Analysis Code (Office of Business Economics [OBE]) Region ^a						(Effect size = 0.17)	
New England	440	480	6.36	7.88	5.69	1.52*	23.90
Mid East	1,220	1,670	16.11	18.95	14.87	2.83*	17.59
Great Lakes	870	1,180	12.47	14.35	11.65	1.87	15.03
Plains	530	830	7.82	7.95	7.77	0.13	1.66
Southeast	1,380	2,320	21.75	21.54	21.85	-0.22	-0.99
Southwest	520	1,080	10.11	9.20	10.50	-0.91	-8.96
Rocky Mountains	270	360	3.95	4.57	3.69	0.62	15.55
Far West	750	1,830	20.70	14.80	23.28	-5.90*	-28.50
Outlying areas	60	110	0.72	0.77	0.69	0.05	6.97
Student type						(Effect size = 0.40)	
Undergraduate student	3,590	7,950	76.43	59.89	83.66	-16.53*	-21.63
Graduate student	2,200	1,770	20.88	34.25	15.04	13.37*	64.02
First professional student	240	130	2.69	5.85	1.30	3.16*	117.75
Federal aid status						(Effect size = 0.45)	
Received	2,740	2,350	27.12	44.24	19.64	17.11*	63.08
Did not receive	2,810	4,300	49.33	46.93	50.37	-2.40	-4.86
Unknown	470	3,210	23.55	8.84	29.98	-14.71*	-62.47

See notes at end of table.

Table J-73. Item nonresponse bias before imputation for STABREG, by select variables for all students: 2015–2016—Continued

Variable	Unweighted respondents	Unweighted non-respondents	Full sample mean weighted	Respondent mean weighted	Non-respondent mean weighted	Estimated bias ¹	Relative bias ²
Pell Grant status						(Effect size = 0.35)	
Received	980	970	12.80	24.46	9.15	10.65*	83.23
Did not receive	2,610	6,980	87.20	75.54	90.85	-10.65*	-12.22
Total Pell amount received ⁴						(Effect size = 0.35)	
None	2,610	6,980	87.20	75.54	90.85	-10.65*	-12.22
\$1–\$2,888	260	310	3.63	6.21	2.82	2.36*	64.90
\$2,889–\$5,774	420	410	5.45	10.20	3.97	4.34*	79.51
\$5,775	300	250	3.71	8.05	2.36	3.96*	106.63
Stafford Loan status						(Effect size = 0.42)	
Received	2,150	1,420	18.99	35.31	11.85	16.32*	85.96
Did not receive	3,870	8,430	81.01	64.69	88.15	-16.32*	-20.15
Total Stafford amount received ⁵						(Effect size = 0.43)	
None	3,870	8,430	81.01	64.69	88.15	-16.32*	-20.15
\$1–\$4,750	370	320	3.26	5.47	2.29	2.21*	67.78
\$4,751–\$7,500	920	480	6.78	13.24	3.95	6.46*	95.34
\$7,501–\$11,000	200	230	2.45	3.45	2.01	1.00*	40.74
\$11,001 or more	670	390	6.50	13.15	3.59	6.65*	102.33
Institution total enrollment ⁶						(Effect size = 0.12)	
None	1,140	1,810	8.11	9.77	7.39	1.65*	20.34
1–2,557	1,590	2,270	18.39	21.83	16.89	3.44*	18.72
2,558–10,412	1,560	2,710	31.60	28.62	32.91	-2.98*	-9.43
10,413–27,004	1,740	3,060	41.89	39.78	42.82	-2.11	-5.04
Sampled baccalaureate recipient						(Effect size = 0.26)	
Baccalaureate recipient	2,520	2,290	9.34	16.78	6.09	7.44*	79.67
Not baccalaureate recipient	3,510	7,560	90.66	83.22	93.91	-7.44*	-8.21
Age as of Dec 31, 2015						(Effect size = ‡)	
15–23	2,910	3,630	46.09	48.90	44.87	2.80*	6.08
24–29	1,510	2,070	21.54	24.86	20.09	3.32*	15.41
30 or older	1,610	3,220	27.23	26.25	27.67	-0.99	-3.62
Unknown	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

Table J-73. Item nonresponse bias before imputation for STABREG, by select variables for all students: 2015–2016—Continued

Variable	Unweighted respondents	Unweighted non-respondents	Full sample mean weighted	Respondent mean weighted	Non-respondent mean weighted	Estimated bias ¹	Relative bias ²
Institutional aid status						(Effect size = 0.49)	
Received	2,860	1,540	21.81	40.56	13.60	18.76*	86.01
Did not receive	2,540	4,770	52.26	47.80	54.21	-4.46*	-8.53
Unknown	630	3,550	25.93	11.63	32.18	-14.30*	-55.14
State aid status						(Effect size = 0.31)	
Received	610	410	6.20	9.46	4.78	3.25*	52.45
Did not receive	4,660	5,860	67.41	77.08	63.18	9.67*	14.34
Unknown	760	3,590	26.39	13.47	32.04	-12.92*	-48.96
Parent's highest level of education						(Effect size = 0.14)	
Middle school/junior high	80	90	2.58	2.20	3.02	-0.57	-22.10
High school	640	660	23.64	19.36	28.68	-6.48*	-27.43
College or beyond	2,270	1,210	64.32	71.08	56.36	10.24*	15.92
Unknown	250	300	9.46	7.36	11.94	-3.19*	-33.69
Marital status						(Effect size = 0.06)	
Unmarried-single/divorced/widowed	2,660	1,660	80.14	81.83	78.16	2.55	3.19
Married/remarried	470	440	16.30	15.59	17.14	-1.08	-6.64
Separated	30	50	1.48	0.87	2.19	-0.92*	-61.99
Divorced or widowed	80	90	2.08	1.71	2.51	-0.55	-26.67
Support children						(Effect size = 0.11)	
Has dependents	450	620	17.92	13.55	23.07	-6.63*	-36.96
Does not have dependents	2,790	1,630	82.08	86.45	76.93	6.63*	8.07
Income ⁵						(Effect size = 0.07)	
\$0 or less	230	210	7.80	8.01	7.56	0.31	3.94
\$1–\$11,400	490	340	16.13	17.85	14.10	2.61*	16.16
\$11,401–\$29,232	590	510	19.90	18.00	22.15	-2.89*	-14.51
\$29,233–\$66,687	720	520	24.15	23.86	24.48	-0.43	-1.80
\$66,688 or more	1,190	640	30.86	31.58	30.02	1.08	3.50
Unknown	20	30	1.16	0.72	1.68	-0.67*	-57.93

See notes at end of table.

Table J-73. Item nonresponse bias before imputation for STABREG, by select variables for all students: 2015–2016—Continued

Variable	Unweighted respondents	Unweighted non-respondents	Full sample mean weighted	Respondent mean weighted	Non-respondent mean weighted	Estimated bias ¹	Relative bias ²
Major						(Effect size = ‡)	
Undecided	‡	‡	‡	‡	‡	‡	‡
Humanities	540	1,210	19.61	15.90	20.85	-3.44*	-17.56
Social/behavioral sciences	490	370	7.70	12.74	6.02	4.68*	60.73
Life sciences	510	480	8.98	13.63	7.42	4.32*	48.11
Physical sciences/math	120	110	2.03	2.88	1.74	0.79*	38.87
Computer/information science	130	380	3.69	3.46	3.76	-0.21	-5.81
Engineering	180	410	5.82	5.67	5.87	-0.14	-2.39
Education	290	230	2.60	4.41	2.00	1.68*	64.70
Business/Management	450	1,040	16.35	15.93	16.48	-0.38	-2.35
Health	430	920	10.46	13.57	9.42	2.89*	27.61
Vocational/technical	30	350	3.14	0.88	3.89	-2.09*	-66.62
Other technical/professional	340	730	9.51	10.10	9.31	0.55	5.78
Unknown	10	1,090	10.02	0.60	13.16	-8.74*	-87.22
Degree program (undergraduate only)						(Effect size = 0.48)	
Postsecondary award, certificate or diploma of less than two academic years	110	900	7.78	4.39	8.84	-3.10*	-39.78
Associate's degree	320	1,750	26.24	16.96	29.14	-8.47*	-32.30
Postsecondary award, certificate, diploma, or degree program	3,080	4,030	52.49	75.22	45.38	20.77*	39.56
Bachelor's degree or equivalent	70	630	7.95	3.38	9.38	-4.18*	-52.54
Unknown	#	640	5.54	0.05	7.26	-5.02*	-90.58
Percentage of full-time, first-time degree/certificate-seeking undergraduate students who received any grant aid ⁶						(Effect size = 0.18)	
1–67	2,020	2,920	39.72	38.20	40.39	-1.52	-3.83
68–83	1,310	2,930	27.50	23.93	29.05	-3.56*	-12.96
84–95	1,070	2,350	17.84	16.84	18.28	-1.00	-5.63
96 or more	1,280	1,200	11.64	16.85	9.37	5.21*	44.72
None or Unknown	360	460	3.29	4.18	2.91	0.88	26.83

See notes at end of table.

Table J-73. Item nonresponse bias before imputation for STABREG, by select variables for all students: 2015–2016—Continued

Variable	Unweighted respondents	Unweighted non-respondents	Full sample mean weighted	Respondent mean weighted	Non-respondent mean weighted	Estimated bias ¹	Relative bias ²
Number of first-time, full-time undergraduate students living on campus ⁶						(Effect size = 0.41)	
0–188	470	980	7.73	5.91	8.53	-1.82*	-23.54
189–424	830	910	8.63	11.61	7.32	2.99*	34.62
425–819	1,220	860	12.34	18.94	9.45	6.61*	53.55
820 or more	2,200	2,180	32.09	42.55	27.51	10.47*	32.62
Unknown	1,300	4,930	39.22	20.98	47.19	-18.24*	-46.51
Average amount of grant and scholarship aid received ⁶						(Effect size = 0.38)	
\$0–\$4,744	520	2,230	19.52	10.09	23.65	-9.44*	-48.33
\$4,745–\$6,192	810	2,470	22.28	14.33	25.75	-7.95*	-35.69
\$6,193–\$11,968	1,900	2,890	30.54	34.59	28.77	4.05*	13.27
\$11,969 or more	2,440	1,740	24.32	36.81	18.85	12.49*	51.38
Unknown	360	520	3.35	4.19	2.98	0.84	25.14
Number of first-time, full-time undergraduate students with incomes up to \$30,000 who were receiving Title IV aid ⁶						(Effect size = 0.13)	
0–47	1,150	1,790	11.38	12.08	11.07	0.70	6.14
48–116	1,330	1,610	15.11	18.68	13.55	3.57*	23.61
117–308	1,410	2,230	26.67	25.88	27.02	-0.80	-2.98
309 or more	1,780	3,710	43.36	38.76	45.37	-4.60*	-10.62
Unknown	360	510	3.48	4.61	2.98	1.13	32.59
Veteran status						(Effect size = 0.06)	
Yes	290	890	4.78	3.54	5.32	-1.24*	-25.98
No	5,740	8,960	95.22	96.46	94.68	1.24*	1.30

See notes at end of table.

Table J-73. Item nonresponse bias before imputation for STABREG, by select variables for all students: 2015–2016—Continued

Variable	Unweighted respondents	Unweighted non-respondents	Full sample mean weighted	Respondent mean weighted	Non-respondent mean weighted	Estimated bias ¹	Relative bias ²
Race						(Effect size = 0.47)	
White	3,610	3,980	48.72	61.45	43.15	12.73*	26.13
Black or African American	540	830	7.68	7.59	7.72	-0.09	-1.18
Hispanic	700	1,450	15.70	13.27	16.77	-2.43*	-15.49
Asian	920	750	9.48	13.66	7.66	4.17*	43.99
American Indian or Alaska Native	10	60	0.47	0.33	0.53	-0.14	-30.67
Native Hawaiian or other Pacific Islander	20	40	0.27	0.28	0.27	#	1.17
More than one race	220	120	1.98	3.35	1.37	1.38*	69.63
Unknown	10	2,620	15.70	0.08	22.53	-15.61*	-99.47
Sex						(Effect size = ‡)	
Male	2,180	4,520	43.07	33.85	47.10	-9.22*	-21.41
Female	3,840	4,510	52.42	66.15	46.41	13.74*	26.20
Unknown	‡	‡	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met (fewer than 30 unweighted 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 the ratio of estimated bias to the weighted full sample mean.³ New England = Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Mideast = Delaware, 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, 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 Pell Grant amounts are categories defined by the median of all students receiving less than \$5,775, with students receiving \$5,775 (the maximum) in one category.⁵ Categories were defined by quartiles.⁶ Categories were defined by quartiles computed at the institution level.

NOTE: Effect size for categorical variables is calculated as the square root of the sum over categories of the squared differences over full-sample means. Effect sizes are not reported if any variable categories do not meet reporting standards. "Base weight" refers to the student sampling weight (final institution weight times student sampling adjustment) adjusted for student multiplicity and unknown eligibility. Sample sizes rounded to the nearest 10 and, therefore, may not sum to total.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution: 2015–16

Variable	Variable label	Overall	Public less-than-2-year	Public 2-year	Public 4-year non-doctorate-granting primarily subbaccalaureate	Public 4-year non-doctorate-granting primarily baccalaureate	Public 4-year doctorate-granting	Private nonprofit less-than-4-year	Private nonprofit 4-year non-doctorate-granting	Private nonprofit 4-year doctorate-granting	Public less-than-2-year	Private for-profit 2-year	Private for-profit 4-year
ALTONLN	Alternative courses: took classes only online in 2015–16												
Before imputation													
Mean percent relative bias across characteristics		10.60	10.82	9.80	14.08	10.34	8.53	10.97	8.68	9.22	15.82	12.96	12.66
Median percent relative bias across characteristics		6.47	9.76	4.20	9.48	6.55	3.85	8.53	5.18	5.14	7.60	7.87	9.22
Percentage of characteristics with significant bias		71.43	20.00	48.45	32.63	34.34	50.00	18.06	31.37	31.07	18.07	29.67	37.50
Median effect size		0.07	0.16	0.05	0.08	0.08	0.06	0.09	0.05	0.05	0.07	0.09	0.11
After imputation													
Percentage difference between pre- and post-imputation means ¹		1.36	0.07	2.15	12.29*	0.26	0.07	5.50	5.91	1.26	7.32*	0.87	8.31*
Effect size for difference ²		0.01	‡	0.02	0.12	#	#	0.06	0.06	0.01	0.15	0.01	0.09
ALTONLN2	Alternative courses: program at NPSAS school was entirely online												
Before imputation													
Mean percent relative bias across characteristics		10.72	10.73	10.10	13.71	9.78	8.39	10.93	8.75	9.28	12.91	13.16	12.61
Median percent relative bias across characteristics		6.71	9.20	5.12	9.96	6.26	3.66	8.26	4.56	5.25	10.28	7.55	9.13
Percentage of characteristics with significant bias		69.49	16.00	51.04	30.11	32.65	48.57	19.44	29.41	31.07	10.98	30.77	37.50
Median effect size		0.08	0.16	0.05	0.08	0.08	0.06	0.09	0.05	0.05	0.08	0.10	0.11
After imputation													
Percentage difference between pre- and post-imputation means ¹		3.67*	#	0.54	4.88*	4.40	0.98	0.18	7.42	0.67	1.00*	2.24	12.83*
Effect size for difference ²		0.05	#	0.01	0.08	0.07	0.02	#	0.09	0.01	‡	0.07	0.12

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbacca- laureate	Public 4-year non- doctorate- granting primarily bacca- laureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
ASIANTYPE	Asian Type												
Before imputation													
Mean percent relative bias across characteristics		5.93	‡	7.70	5.90	6.57	6.40	5.11	4.89	4.85	6.41	7.30	8.01
Median percent relative bias across characteristics		3.48	‡	3.73	3.88	4.93	3.05	2.90	2.59	3.66	4.28	4.64	6.54
Percentage of characteristics with significant bias		69.23	‡	63.16	37.04	47.25	66.67	14.00	32.97	48.39	16.42	39.02	35.35
Median effect size		0.04	‡	0.06	0.05	0.06	0.04	0.03	0.02	0.04	0.05	0.05	0.07
After imputation													
Percentage difference between pre- and post- imputation means ¹		6.73*	‡	6.87*	6.09*	5.42*	7.11*	3.60*	2.85*	9.34*	1.61*	6.82*	5.31*
Effect size for difference ²		0.11	‡	‡	‡	‡	0.11	‡	‡	‡	‡	‡	0.09
ATTNSTAT	Attendance pattern												
Before imputation													
Mean percent relative bias across characteristics		4.43	‡	5.09	5.01	5.14	4.60	2.73	2.83	3.38	7.63	5.77	8.76
Median percent relative bias across characteristics		2.28	‡	2.60	2.88	4.29	1.91	1.58	1.42	1.94	4.87	2.83	6.18
Percentage of characteristics with significant bias		61.86	‡	54.74	33.77	42.22	50.50	0.00	16.48	24.49	21.05	12.64	21.57
Median effect size		0.03	‡	0.03	0.04	0.05	0.03	0.03	0.02	0.02	0.05	0.04	0.09
After imputation													
Percentage difference between pre- and post- imputation means ¹		0.98*	‡	2.17*	0.97*	2.56*	1.44*	‡	0.75	0.88*	11.51*	6.56*	2.75*
Effect size for difference ²		0.01	‡	0.02	‡	‡	0.02	‡	‡	0.01	‡	0.08	0.04

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
AWAREIDR	Aware of income-driven student loan repayment plans												
Before imputation													
Mean percent relative bias across characteristics		8.55	7.89	7.96	10.47	7.21	6.15	10.58	7.70	8.36	12.04	9.07	10.70
Median percent relative bias across characteristics		5.31	6.77	3.40	6.70	3.88	2.86	6.77	4.24	4.15	7.61	4.97	7.54
Percentage of characteristics with significant bias		70.59	13.33	46.39	27.66	31.63	46.67	17.81	46.08	34.95	13.41	29.21	36.54
Median effect size		0.06	0.13	0.04	0.06	0.05	0.04	0.08	0.05	0.05	0.08	0.07	0.07
After imputation													
Percentage difference between pre- and post-imputation means ¹		1.51*	6.51	3.12*	7.44*	2.18	2.45*	6.90	1.77	1.48	11.52*	9.44*	0.13
Effect size for difference ²		0.02	0.07	0.04	0.08	0.02	0.02	0.07	0.02	0.01	0.12	0.10	#
AWARELFP	Aware of student loan forgiveness programs												
Before imputation													
Mean percent relative bias across characteristics		8.54	7.89	7.95	10.46	7.30	6.17	10.51	7.56	8.36	12.18	9.02	10.74
Median percent relative bias across characteristics		5.34	6.77	3.32	6.47	4.08	2.84	7.03	3.89	4.21	7.91	4.91	7.44
Percentage of characteristics with significant bias		70.59	13.33	47.42	28.72	32.65	47.62	17.81	44.12	34.95	13.41	28.09	35.58
Median effect size		0.06	0.13	0.04	0.06	0.05	0.04	0.08	0.05	0.05	0.08	0.07	0.07
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.06	0.65	1.71*	6.60*	7.59*	1.83*	5.66	0.99	0.09	9.96*	1.26	1.10
Effect size for difference ²		#	0.01	0.02	0.07	0.08	0.02	0.06	0.01	#	0.10	0.01	0.01

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
BANK1	Bank accounts: had checking or savings account												
Before imputation													
Mean percent relative bias across characteristics		10.50	10.96	9.74	13.90	9.66	7.89	11.33	9.59	10.06	14.37	13.09	13.77
Median percent relative bias across characteristics		6.26	10.08	4.49	8.82	6.33	3.81	7.46	5.38	5.24	9.39	7.35	9.16
Percentage of characteristics with significant bias		72.27	20.00	47.42	31.58	34.00	48.57	19.44	49.02	33.65	13.25	29.67	37.50
Median effect size		0.08	0.15	0.05	0.08	0.07	0.05	0.09	0.07	0.06	0.07	0.10	0.11
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.03	3.73	0.92	2.24*	0.05	0.28	9.57*	0.40	0.56	17.60*	10.07*	1.31
Effect size for difference ²		#	0.05	0.01	0.04	#	0.01	‡	0.01	0.01	0.24	0.13	0.02
BANK2	Bank accounts: individual or shared												
Before imputation													
Mean percent relative bias across characteristics		11.18	9.22	10.37	13.84	9.66	8.01	11.96	10.34	10.39	14.98	13.50	14.28
Median percent relative bias across characteristics		6.89	7.01	4.66	8.31	6.67	3.82	8.32	5.81	5.21	8.01	7.72	9.48
Percentage of characteristics with significant bias		75.63	4.26	46.39	30.85	36.00	47.62	23.61	44.12	36.54	12.35	31.46	38.46
Median effect size		0.08	0.14	0.05	0.08	0.08	0.06	0.10	0.07	0.05	0.09	0.10	0.12
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.90*	2.37	0.59	1.99	0.26	0.20	4.65	1.64	0.34	12.05*	1.26	3.79*
Effect size for difference ²		0.01	0.03	0.01	0.02	#	#	0.05	0.02	#	0.14	0.02	0.04

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
BAYEARM	Year and month received bachelor's degree												
Before imputation													
Mean percent relative bias across characteristics		4.11	†	†	‡	4.18	3.98	†	5.39	5.28	†	†	5.15
Median percent relative bias across characteristics		2.42	†	†	‡	2.68	2.22	†	2.67	2.93	†	†	4.19
Percentage of characteristics with significant bias		30.49	†	†	‡	22.86	29.03	†	24.07	34.33	†	†	10.14
Median effect size		0.02	†	†	‡	0.07	0.03	†	0.04	0.04	†	†	0.04
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.01	†	†	‡	0.01	#	†	#	0.01	†	†	0.01
Effect size for difference ²		0.02	†	†	‡	0.03	0.01	†	0.01	0.03	†	†	0.02
CAMPAMT	Federal campus-based aid												
Before imputation													
Mean percent relative bias across characteristics		7.53	3.95	8.58	10.31	15.43	9.99	9.98	5.51	7.35	13.41	10.92	17.46
Median percent relative bias across characteristics		3.25	4.27	3.55	5.26	9.82	3.83	2.69	2.74	3.46	4.98	3.58	9.72
Percentage of characteristics with significant bias		42.50	0.00	38.14	26.44	45.16	40.59	8.00	22.83	30.21	9.86	13.64	25.49
Median effect size		0.04	0.08	0.05	0.06	0.10	0.06	0.04	0.03	0.05	0.07	0.04	0.18
After imputation													
Percentage difference between pre- and post-imputation means ¹		8.27*	‡	4.45	1.64	15.95*	6.97*	4.56	5.67*	6.53*	53.63*	10.69*	6.91
Effect size for difference ²		0.02	‡	0.01	#	0.04	0.02	0.01	0.02	0.02	0.09	0.02	0.01

See notes at end of table.

Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution: 2015–16—Continued

Variable	Variable label	Overall	Public less-than-2-year	Public 2-year	Public 4-year non-doctorate-granting primarily subbaccalaureate	Public 4-year non-doctorate-granting primarily baccalaureate	Public 4-year doctorate-granting	Private nonprofit less-than-4-year	Private nonprofit 4-year non-doctorate-granting	Private nonprofit 4-year doctorate-granting	Public less-than-2-year	Private for-profit 2-year	Private for-profit 4-year
CRBALCR	Credit cards: balance carried over each month												
Before imputation													
Mean percent relative bias across characteristics		12.10	13.14	11.35	13.52	11.55	9.06	13.72	10.39	11.48	14.78	14.06	16.07
Median percent relative bias across characteristics		7.91	9.77	4.56	6.84	7.97	5.04	10.88	5.98	5.83	9.06	9.91	10.80
Percentage of characteristics with significant bias		68.91	18.52	45.36	30.77	33.67	46.60	14.71	37.62	34.95	15.38	35.63	32.69
Median effect size		0.10	0.20	0.05	0.10	0.09	0.08	0.14	0.07	0.06	0.15	0.14	0.13
After imputation													
Percentage difference between pre- and post-imputation means ¹		1.10	30.43*	0.90	1.52	3.45	0.49	9.90	2.31	0.70	1.09	5.72	0.26
Effect size for difference ²		0.01	0.31	0.01	0.02	0.03	#	0.10	0.02	0.01	0.01	0.06	#
CRBALDUE	Credit cards: balance due on all credit cards												
Before imputation													
Mean percent relative bias across characteristics		16.34	9.01	18.02	18.57	15.97	15.34	14.53	14.85	17.40	15.77	18.34	17.18
Median percent relative bias across characteristics		9.04	8.57	9.45	12.63	11.10	8.93	11.56	8.89	12.63	10.48	16.08	13.30
Percentage of characteristics with significant bias		63.03	10.00	48.96	32.58	38.04	53.54	13.79	35.42	40.40	13.70	36.47	30.39
Median effect size		0.11	0.24	0.10	0.13	0.13	0.12	0.18	0.10	0.13	0.19	0.15	0.16
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.32	1.16	1.45	2.27	4.89	2.16	31.25*	7.02	0.72	25.96*	43.00*	3.90
Effect size for difference ²		#	0.01	0.01	0.02	0.03	0.01	0.25	0.04	#	0.21	0.29	0.03

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
CRNUMCRD	Credit cards: number of credit cards in own name												
Before imputation													
Mean percent relative bias across characteristics		10.47	10.84	9.86	13.75	9.70	7.89	11.05	9.54	9.93	14.13	13.30	13.75
Median percent relative bias across characteristics		6.24	9.77	4.57	8.70	6.67	3.85	7.79	5.50	5.29	9.35	7.77	9.38
Percentage of characteristics with significant bias		72.27	26.00	45.36	31.58	34.00	47.62	19.44	49.02	33.65	10.84	31.87	36.54
Median effect size		0.08	0.15	0.05	0.08	0.07	0.05	0.08	0.07	0.06	0.07	0.10	0.11
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.53	11.40	0.96	5.30*	3.62*	0.31	10.69*	3.15*	0.45	9.84*	8.41*	2.61
Effect size for difference ²		0.01	0.13	0.01	0.06	0.04	#	0.12	0.03	0.01	0.11	0.10	0.03
CRTUIT	Credit cards: used credit cards to pay tuition and fees in 2015–16												
Before imputation													
Mean percent relative bias across characteristics		12.09	13.14	11.35	13.48	11.31	8.95	14.19	10.44	11.50	14.83	14.11	15.88
Median percent relative bias across characteristics		7.80	9.77	4.52	7.20	7.84	5.01	11.65	6.04	5.99	9.04	9.75	10.72
Percentage of characteristics with significant bias		68.91	18.52	45.36	31.87	32.65	46.15	16.18	37.62	34.95	15.38	34.48	32.69
Median effect size		0.10	0.20	0.05	0.10	0.09	0.08	0.15	0.07	0.06	0.15	0.14	0.12
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.23	4.42	0.16	4.02	2.79	1.42	13.05*	0.52	0.20	18.34*	16.90*	0.21
Effect size for difference ²		#	‡	#	0.04	0.03	0.02	0.15	0.01	#	0.20	0.19	#

See notes at end of table.

Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution: 2015–16—Continued

Variable	Variable label	Overall	Public less-than-2-year	Public 2-year	Public 4-year non-doctorate-granting primarily subbaccalaureate	Public 4-year non-doctorate-granting primarily baccalaureate	Public 4-year doctorate-granting	Private nonprofit less-than-4-year	Private nonprofit 4-year non-doctorate-granting	Private nonprofit 4-year doctorate-granting	Public less-than-2-year	Private for-profit 2-year	Private for-profit 4-year
CRTUIT2	Credit cards: only source available to pay tuition and fees in 2015–16												
Before imputation													
Mean percent relative bias across characteristics		17.53	4.21	16.67	17.81	15.72	16.97	23.98	16.63	18.56	22.42	19.85	27.65
Median percent relative bias across characteristics		11.55	4.21	9.24	13.47	10.20	10.58	23.36	10.86	14.21	19.54	18.20	22.27
Percentage of characteristics with significant bias		58.82	0.00	44.68	27.71	33.33	42.42	15.38	25.81	39.78	17.65	24.36	20.00
Median effect size		0.14	0.21	0.11	0.15	0.16	0.18	0.25	0.14	0.16	0.29	0.21	0.32
After imputation													
Percentage difference between pre- and post-imputation means ¹		2.41*	‡	1.66	7.51	3.85	2.67	14.50	1.45	0.06	21.14*	4.64	6.70*
Effect size for difference ²		0.03	‡	0.02	0.08	0.04	0.03	‡	0.01	#	0.24	0.05	0.07
CSTBKSDG	Amount spent on digital textbooks												
Before imputation													
Mean percent relative bias across characteristics		10.62	11.58	10.03	13.78	9.67	7.81	11.47	9.78	10.08	14.29	13.09	14.05
Median percent relative bias across characteristics		6.30	10.89	4.64	8.75	6.60	4.03	7.77	5.82	5.51	8.73	8.77	9.54
Percentage of characteristics with significant bias		70.59	18.00	48.98	26.32	32.00	45.71	18.06	48.04	33.65	11.90	29.67	37.50
Median effect size		0.08	0.15	0.05	0.07	0.07	0.05	0.09	0.07	0.06	0.08	0.09	0.11
After imputation													
Percentage difference between pre- and post-imputation means ¹		3.88*	5.23	4.22*	0.19	9.11*	0.16	6.37	1.27	0.18	76.96*	20.38*	2.26
Effect size for difference ²		0.01	0.01	0.02	#	0.05	#	0.02	#	#	0.12	0.05	0.01

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
CSTBKSPR	Amount spent on textbooks (print only)												
Before imputation													
Mean percent relative bias across characteristics		10.62	11.58	10.03	13.78	9.67	7.81	11.47	9.78	10.08	14.29	13.09	14.05
Median percent relative bias across characteristics		6.30	10.89	4.64	8.75	6.60	4.03	7.77	5.82	5.51	8.73	8.77	9.54
Percentage of characteristics with significant bias		70.59	18.00	48.98	26.32	32.00	45.71	18.06	48.04	33.65	11.90	29.67	37.50
Median effect size		0.08	0.15	0.05	0.07	0.07	0.05	0.09	0.07	0.06	0.08	0.09	0.11
After imputation													
Percentage difference between pre- and post-imputation means ¹		1.36*	2.46	4.83*	6.52*	1.96	0.56	4.24	1.70	0.53	3.53	1.28	1.59
Effect size for difference ²		0.01	0.02	0.05	0.06	0.02	0.01	0.03	0.01	#	0.01	0.01	0.01
CSTOTHER	Amount spent on other required course materials												
Before imputation													
Mean percent relative bias across characteristics		10.62	11.58	10.03	13.78	9.67	7.81	11.47	9.78	10.08	14.29	13.09	14.05
Median percent relative bias across characteristics		6.30	10.89	4.64	8.75	6.60	4.03	7.77	5.82	5.51	8.73	8.77	9.54
Percentage of characteristics with significant bias		70.59	18.00	48.98	26.32	32.00	45.71	18.06	48.04	33.65	11.90	29.67	37.50
Median effect size		0.08	0.15	0.05	0.07	0.07	0.05	0.09	0.07	0.06	0.08	0.09	0.11
After imputation													
Percentage difference between pre- and post-imputation means ¹		2.10	11.88	5.41	3.10	3.18	2.24	11.22	0.74	0.66	19.93	13.64	14.19*
Effect size for difference ²		#	0.04	0.01	0.01	0.01	0.01	0.02	#	#	0.04	0.03	0.03

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
CSTSUPP	Amount spent on required supplies												
Before imputation													
Mean percent relative bias across characteristics		10.62	11.58	10.03	13.78	9.67	7.81	11.47	9.78	10.08	14.29	13.09	14.05
Median percent relative bias across characteristics		6.30	10.89	4.64	8.75	6.60	4.03	7.77	5.82	5.51	8.73	8.77	9.54
Percentage of characteristics with significant bias		70.59	18.00	48.98	26.32	32.00	45.71	18.06	48.04	33.65	11.90	29.67	37.50
Median effect size		0.08	0.15	0.05	0.07	0.07	0.05	0.09	0.07	0.06	0.08	0.09	0.11
After imputation													
Percentage difference between pre- and post- imputation means ¹		2.58*	9.02	2.71	4.82	0.70	0.89	17.81	1.94	2.85	14.85	14.44	6.97
Effect size for difference ²		0.01	0.04	0.01	0.02	#	#	0.09	0.01	0.01	0.07	0.06	0.03
CSTTECH	Amount spent on required technology												
Before imputation													
Mean percent relative bias across characteristics		10.62	11.58	10.03	13.78	9.67	7.81	11.47	9.78	10.08	14.29	13.09	14.05
Median percent relative bias across characteristics		6.30	10.89	4.64	8.75	6.60	4.03	7.77	5.82	5.51	8.73	8.77	9.54
Percentage of characteristics with significant bias		70.59	18.00	48.98	26.32	32.00	45.71	18.06	48.04	33.65	11.90	29.67	37.50
Median effect size		0.08	0.15	0.05	0.07	0.07	0.05	0.09	0.07	0.06	0.08	0.09	0.11
After imputation													
Percentage difference between pre- and post- imputation means ¹		1.01	35.13	3.66	2.94	0.88	3.07	12.22	4.56	0.85	42.57*	15.84*	1.80
Effect size for difference ²		#	0.09	0.01	0.01	#	0.01	0.05	0.02	#	0.13	0.05	0.01

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
DEGPR	Prior degree earned since high school												
Before imputation													
Mean percent relative bias across characteristics		8.38	7.91	7.76	10.29	7.17	6.55	10.20	7.09	8.22	11.68	8.98	10.62
Median percent relative bias across characteristics		5.08	7.47	3.28	6.41	4.14	2.87	6.99	4.20	3.86	7.42	5.36	6.76
Percentage of characteristics with significant bias		72.27	6.67	46.39	30.11	31.63	47.62	16.44	42.57	34.95	12.20	32.58	35.58
Median effect size		0.06	0.14	0.04	0.06	0.05	0.04	0.08	0.05	0.04	0.07	0.07	0.06
After imputation													
Percentage difference between pre- and post-imputation means ¹		1.54*	10.41*	0.85	0.20	2.50	0.77	3.51	0.79	0.33	6.64*	1.85	2.77*
Effect size for difference ²		0.02	0.11	0.01	#	0.02	0.01	0.04	0.01	#	0.07	0.02	0.03
DEGPRAA	Prior degree: associate's degree												
Before imputation													
Mean percent relative bias across characteristics		11.92	4.33	14.76	16.78	10.17	10.46	11.56	9.07	9.78	14.49	12.62	13.13
Median percent relative bias across characteristics		8.24	1.65	7.40	11.63	7.64	5.28	8.06	6.06	5.95	9.19	7.79	9.79
Percentage of characteristics with significant bias		65.55	12.50	52.13	31.40	28.26	47.52	24.49	34.74	39.39	18.67	30.95	29.41
Median effect size		0.10	0.11	0.12	0.14	0.06	0.07	0.12	0.07	0.06	0.12	0.10	0.10
After imputation													
Percentage difference between pre- and post-imputation means ¹		2.07*	‡	1.32	7.40*	0.67	1.91*	41.37*	0.86	0.98	41.88*	14.70*	1.58
Effect size for difference ²		0.02	‡	0.01	0.08	0.01	0.02	‡	0.01	0.01	0.43	0.16	0.02

See notes at end of table.

Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution: 2015–16—Continued

Variable	Variable label	Overall	Public less-than-2-year	Public 2-year	Public 4-year non-doctorate-granting primarily subbaccalaureate	Public 4-year non-doctorate-granting primarily baccalaureate	Public 4-year doctorate-granting	Private nonprofit less-than-4-year	Private nonprofit 4-year non-doctorate-granting	Private nonprofit 4-year doctorate-granting	Public less-than-2-year	Private for-profit 2-year	Private for-profit 4-year
DEGPRBA	Prior degree: 4-year bachelor's degree												
Before imputation													
Mean percent relative bias across characteristics		11.92	4.33	14.76	16.78	10.17	10.46	11.56	9.07	9.78	14.49	12.62	13.13
Median percent relative bias across characteristics		8.24	1.65	7.40	11.63	7.64	5.28	8.06	6.06	5.95	9.19	7.79	9.79
Percentage of characteristics with significant bias		65.55	12.50	52.13	31.40	28.26	47.52	24.49	34.74	39.39	18.67	30.95	29.41
Median effect size		0.10	0.11	0.12	0.14	0.06	0.07	0.12	0.07	0.06	0.12	0.10	0.10
After imputation													
Percentage difference between pre- and post-imputation means ¹		4.64*	5.62	3.16*	5.92*	1.88	2.68*	3.82	2.48	2.53*	8.20	1.81	1.66
Effect size for difference ²		0.05	‡	0.04	0.08	0.02	0.03	‡	0.02	0.03	0.12	0.03	0.02
DEGPCRT	Prior degree: undergraduate certificate/diploma												
Before imputation													
Mean percent relative bias across characteristics		11.92	4.33	14.76	16.78	10.17	10.46	11.56	9.07	9.78	14.49	12.62	13.13
Median percent relative bias across characteristics		8.24	1.65	7.40	11.63	7.64	5.28	8.06	6.06	5.95	9.19	7.79	9.79
Percentage of characteristics with significant bias		65.55	12.50	52.13	31.40	28.26	47.52	24.49	34.74	39.39	18.67	30.95	29.41
Median effect size		0.10	0.11	0.12	0.14	0.06	0.07	0.12	0.07	0.06	0.12	0.10	0.10
After imputation													
Percentage difference between pre- and post-imputation means ¹		1.91*	‡	1.31	1.64	1.02	0.14	28.83*	1.68	1.81	27.22*	11.92*	0.62
Effect size for difference ²		0.02	‡	0.01	0.02	0.01	#	‡	0.02	0.03	0.27	0.12	0.01

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
DEGPRDOC	Prior degree: doctorate or professional degree												
Before imputation													
Mean percent relative bias across characteristics		11.92	4.33	14.76	16.78	10.17	10.46	11.56	9.07	9.78	14.49	12.62	13.13
Median percent relative bias across characteristics		8.24	1.65	7.40	11.63	7.64	5.28	8.06	6.06	5.95	9.19	7.79	9.79
Percentage of characteristics with significant bias		65.55	12.50	52.13	31.40	28.26	47.52	24.49	34.74	39.39	18.67	30.95	29.41
Median effect size		0.10	0.11	0.12	0.14	0.06	0.07	0.12	0.07	0.06	0.12	0.10	0.10
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.18	#	0.06	0.04	0.06	0.37*	0.30	0.23	0.36	0.13	0.16	0.11
Effect size for difference ²		0.01	#	‡	‡	‡	0.01	‡	‡	0.01	‡	‡	‡
DEGPRMS	Prior degree: master's degree												
Before imputation													
Mean percent relative bias across characteristics		11.92	4.33	14.76	16.78	10.17	10.46	11.56	9.07	9.78	14.49	12.62	13.13
Median percent relative bias across characteristics		8.24	1.65	7.40	11.63	7.64	5.28	8.06	6.06	5.95	9.19	7.79	9.79
Percentage of characteristics with significant bias		65.55	12.50	52.13	31.40	28.26	47.52	24.49	34.74	39.39	18.67	30.95	29.41
Median effect size		0.10	0.11	0.12	0.14	0.06	0.07	0.12	0.07	0.06	0.12	0.10	0.10
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.95*	#	0.96	0.65	0.52	0.46	0.53	3.95*	0.29	0.02	0.48	3.24
Effect size for difference ²		0.01	#	0.02	‡	0.01	0.01	‡	0.06	#	‡	‡	0.04

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
DEGPRPTB	Prior degree: post-BA certificate												
Before imputation													
Mean percent relative bias across characteristics		11.92	4.33	14.76	16.78	10.17	10.46	11.56	9.07	9.78	14.49	12.62	13.13
Median percent relative bias across characteristics		8.24	1.65	7.40	11.63	7.64	5.28	8.06	6.06	5.95	9.19	7.79	9.79
Percentage of characteristics with significant bias		65.55	12.50	52.13	31.40	28.26	47.52	24.49	34.74	39.39	18.67	30.95	29.41
Median effect size		0.10	0.11	0.12	0.14	0.06	0.07	0.12	0.07	0.06	0.12	0.10	0.10
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.03	0.18	0.11	0.03	0.12	0.45	1.72	0.26	0.14	0.17	0.51	0.09
Effect size for difference ²		#	‡	‡	‡	‡	0.02	‡	0.01	#	‡	‡	#
DEGPRPTM	Prior degree: post-MA certificate												
Before imputation													
Mean percent relative bias across characteristics		11.92	4.33	14.76	16.78	10.17	10.46	11.56	9.07	9.78	14.49	12.62	13.13
Median percent relative bias across characteristics		8.24	1.65	7.40	11.63	7.64	5.28	8.06	6.06	5.95	9.19	7.79	9.79
Percentage of characteristics with significant bias		65.55	12.50	52.13	31.40	28.26	47.52	24.49	34.74	39.39	18.67	30.95	29.41
Median effect size		0.10	0.11	0.12	0.14	0.06	0.07	0.12	0.07	0.06	0.12	0.10	0.10
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.10	#	0.07	0.12	0.03	0.19	0.02	0.06	0.04	0.13	0.04	0.09
Effect size for difference ²		#	#	‡	‡	‡	0.01	‡	‡	‡	‡	‡	‡

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
DEPANY	Dependents: has dependents												
Before imputation													
Mean percent relative bias across characteristics		6.60	12.14	7.15	7.33	5.97	6.49	5.37	4.97	7.31	5.41	4.58	8.28
Median percent relative bias across characteristics		2.99	9.21	3.45	5.26	3.40	2.34	2.72	2.83	3.33	2.08	1.63	5.13
Percentage of characteristics with significant bias		61.61	57.14	58.67	36.36	38.57	48.78	36.84	40.85	45.95	16.67	23.08	18.99
Median effect size		0.04	0.11	0.05	0.07	0.06	0.04	0.04	0.05	0.07	0.03	0.04	0.06
After imputation													
Percentage difference between pre- and post-imputation means ¹		2.28*	‡	3.01*	0.33	1.18	1.68*	1.07	0.56	4.66*	2.32*	3.57*	0.67*
Effect size for difference ²		0.02	‡	0.03	#	0.01	0.02	‡	0.01	0.05	0.02	0.04	0.01
DEPCARE	Dependents: children in paid childcare												
Before imputation													
Mean percent relative bias across characteristics		22.00	14.23	25.18	26.65	24.55	31.82	14.88	15.28	28.13	17.81	18.51	20.37
Median percent relative bias across characteristics		17.10	10.07	14.98	18.37	18.09	22.51	13.42	10.51	21.79	10.82	10.54	14.08
Percentage of characteristics with significant bias		61.02	4.76	60.00	37.80	34.12	52.53	38.33	29.03	46.88	22.22	32.93	21.57
Median effect size		0.16	0.18	0.16	0.17	0.23	0.22	0.18	0.13	0.20	0.16	0.13	0.15
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.35	5.64	0.56	8.84	9.69*	1.05	9.99	7.33*	0.95	3.54	11.47*	0.35
Effect size for difference ²		#	‡	0.01	0.09	0.10	0.01	0.10	0.07	0.01	0.04	0.12	#

See notes at end of table.

Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution: 2015–16—Continued

Variable	Variable label	Overall	Public less-than-2-year	Public 2-year	Public 4-year non-doctorate-granting primarily subbaccalaureate	Public 4-year non-doctorate-granting primarily baccalaureate	Public 4-year doctorate-granting	Private nonprofit less-than-4-year	Private nonprofit 4-year non-doctorate-granting	Private nonprofit 4-year doctorate-granting	Public less-than-2-year	Private for-profit 2-year	Private for-profit 4-year
DEPCHILD	Dependents: has dependent children												
Before imputation													
Mean percent relative bias across characteristics		6.53	11.41	7.08	7.26	5.74	6.40	5.15	4.78	6.01	5.30	4.43	8.19
Median percent relative bias across characteristics		3.10	8.41	3.81	4.70	2.75	2.30	2.65	2.71	3.07	2.19	1.59	5.00
Percentage of characteristics with significant bias		65.49	57.14	60.81	38.46	39.13	48.78	36.84	41.43	47.95	17.02	23.08	18.52
Median effect size		0.04	0.10	0.05	0.06	0.06	0.04	0.04	0.05	0.06	0.03	0.04	0.06
After imputation													
Percentage difference between pre- and post-imputation means ¹		1.97*	‡	2.08*	0.91	1.25	1.65*	0.68	0.40	4.36*	2.35*	3.54*	0.79*
Effect size for difference ²		0.02	‡	0.02	0.01	0.02	0.02	‡	#	0.05	0.02	0.04	0.01
DEPCOL	Independent students: number of dependents in college												
Before imputation													
Mean percent relative bias across characteristics		19.27	19.45	19.64	18.37	16.96	24.84	14.51	13.21	17.11	11.08	10.40	14.08
Median percent relative bias across characteristics		13.21	10.53	11.24	13.99	12.79	16.53	13.57	9.21	11.51	5.12	4.91	8.88
Percentage of characteristics with significant bias		68.97	80.00	58.33	38.71	39.13	59.09	68.75	38.36	47.37	29.27	35.09	25.26
Median effect size		0.13	0.13	0.13	0.17	0.16	0.20	0.10	0.11	0.12	0.08	0.06	0.10
After imputation													
Percentage difference between pre- and post-imputation means ¹		3.10*	‡	2.71*	0.08	1.18	2.29*	‡	3.90*	2.13	2.27*	4.48*	4.50*
Effect size for difference ²		‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
DEPCOLCS		Amount contributed to college costs for dependents in 2015–16											
Before imputation													
Mean percent relative bias across characteristics		46.97	‡	42.55	61.21	48.05	70.64	‡	32.49	45.89	28.79	43.28	45.72
Median percent relative bias across characteristics		30.16	‡	21.99	43.74	36.44	41.69	‡	30.24	38.43	22.42	37.66	29.32
Percentage of characteristics with significant bias		56.41	‡	45.24	30.51	35.59	46.15	‡	33.78	37.33	22.22	32.20	17.89
Median effect size		0.36	‡	0.36	0.46	0.58	0.45	‡	0.31	0.42	0.53	0.51	0.42
After imputation													
Percentage difference between pre- and post-imputation means ¹		13.15*	‡	23.14	8.43	18.10	2.01	‡	25.27*	0.96	50.29	75.44	7.80
Effect size for difference ²		0.08	‡	0.11	0.04	0.09	0.01	‡	0.16	0.01	0.29	0.44	0.05
DEPCOST		Dependents: children in paid childcare - monthly costs											
Before imputation													
Mean percent relative bias across characteristics		33.85	9.63	38.44	33.55	33.13	48.30	25.12	23.30	37.31	27.25	23.36	31.17
Median percent relative bias across characteristics		22.96	9.63	20.81	19.66	27.58	30.78	25.22	14.89	24.44	25.05	18.32	23.86
Percentage of characteristics with significant bias		62.71	0.00	48.89	29.85	36.84	54.64	22.50	39.53	43.02	27.42	36.84	24.00
Median effect size		0.23	0.29	0.27	0.31	0.30	0.30	0.30	0.20	0.27	0.30	0.21	0.23
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.23	‡	2.02	12.88	4.25	1.05	3.70	4.49	6.66	2.85	5.14	3.81
Effect size for difference ²		#	‡	0.02	0.17	0.05	0.01	0.04	0.04	0.05	0.03	0.05	0.04

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
DEPINC	Dependent students: parents' income												
Before imputation													
Mean percent relative bias across characteristics		19.64	‡	12.83	14.65	8.68	12.03	9.34	12.82	13.36	12.91	8.74	40.47
Median percent relative bias across characteristics		8.51	‡	7.30	10.40	3.86	6.92	4.12	7.51	9.15	7.73	4.32	41.48
Percentage of characteristics with significant bias		73.08	‡	65.28	39.66	37.10	50.65	33.33	45.59	60.32	37.04	32.65	41.18
Median effect size		0.10	‡	0.10	0.14	0.10	0.09	0.07	0.12	0.16	0.15	0.09	0.46
After imputation													
Percentage difference between pre- and post-imputation means ¹		8.23*	‡	11.59*	16.05*	5.02*	8.27*	‡	7.43*	5.78*	5.76*	4.78*	2.83*
Effect size for difference ²		0.06	‡	0.07	0.16	0.05	0.08	‡	0.05	0.05	0.05	0.04	0.02
DEPINCX	Dependent students: parents' income (categorical)												
Before imputation													
Mean percent relative bias across characteristics		13.53	‡	10.64	12.07	7.15	8.19	6.02	9.97	8.26	12.26	8.17	39.86
Median percent relative bias across characteristics		6.23	‡	5.10	7.61	3.05	3.08	4.63	4.14	5.18	7.90	4.35	38.00
Percentage of characteristics with significant bias		75.73	‡	65.22	38.89	34.55	51.32	18.18	41.38	57.63	40.00	34.78	41.79
Median effect size		0.08	‡	0.09	0.13	0.09	0.06	0.05	0.08	0.10	0.14	0.08	0.46
After imputation													
Percentage difference between pre- and post-imputation means ¹		4.25*	‡	5.37*	19.03*	3.35*	4.35*	‡	6.49*	3.74*	‡	‡	‡
Effect size for difference ²		0.05	‡	0.06	‡	‡	0.05	‡	‡	‡	‡	‡	‡

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
DEPNUM	Dependents: total number												
Before imputation													
Mean percent relative bias across characteristics		6.85	12.50	7.38	7.67	6.35	6.77	6.19	5.28	7.52	5.75	4.85	9.19
Median percent relative bias across characteristics		3.24	9.03	3.86	5.61	3.56	2.56	3.25	2.89	3.40	2.25	1.70	5.39
Percentage of characteristics with significant bias		63.39	46.67	58.67	35.82	38.03	47.56	39.13	43.66	48.65	16.67	23.08	18.75
Median effect size		0.04	0.10	0.05	0.07	0.07	0.04	0.04	0.05	0.07	0.04	0.04	0.07
After imputation													
Percentage difference between pre- and post-imputation means ¹		7.26*	7.66	7.68*	4.38*	8.61*	10.28*	5.21	2.25*	13.36*	5.28*	5.76*	2.96*
Effect size for difference ²		0.04	0.05	0.04	0.02	0.04	0.04	0.04	0.01	0.07	0.04	0.04	0.03
DEPNUMCH	Dependents: number of dependent children												
Before imputation													
Mean percent relative bias across characteristics		7.89	12.08	8.41	8.81	7.41	7.77	5.79	6.09	7.41	5.80	4.50	9.43
Median percent relative bias across characteristics		4.03	8.88	4.12	5.54	3.36	2.88	3.08	3.96	3.96	2.07	2.19	5.84
Percentage of characteristics with significant bias		70.59	50.00	61.36	41.43	38.89	53.85	33.33	50.00	51.19	24.00	31.82	29.70
Median effect size		0.04	0.11	0.04	0.07	0.06	0.03	0.04	0.04	0.04	0.03	0.03	0.06
After imputation													
Percentage difference between pre- and post-imputation means ¹		7.85*	6.17	7.83*	7.70*	9.08*	10.58*	5.54	3.82*	12.73*	6.37*	7.46*	2.61*
Effect size for difference ²		0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.02	0.06	0.04	0.05	0.02

See notes at end of table.

Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution: 2015–16—Continued

Variable	Variable label	Overall	Public less-than-2-year	Public 2-year	Public 4-year non-doctorate-granting primarily subbaccalaureate	Public 4-year non-doctorate-granting primarily baccalaureate	Public 4-year doctorate-granting	Private nonprofit less-than-4-year	Private nonprofit 4-year non-doctorate-granting	Private nonprofit 4-year doctorate-granting	Public less-than-2-year	Private for-profit 2-year	Private for-profit 4-year
DEPNUMOT	Dependents: number of dependents other than children												
Before imputation													
Mean percent relative bias across characteristics		8.08	11.99	8.59	8.79	7.49	7.87	5.90	6.36	8.71	5.94	4.59	9.04
Median percent relative bias across characteristics		4.01	9.44	4.07	5.69	3.59	3.00	3.42	3.88	4.60	2.43	2.31	5.63
Percentage of characteristics with significant bias		71.43	46.67	59.09	42.86	38.36	52.75	33.33	47.62	50.59	22.00	30.30	30.00
Median effect size		0.04	0.10	0.04	0.07	0.06	0.03	0.04	0.04	0.05	0.03	0.03	0.06
After imputation													
Percentage difference between pre- and post-imputation means ¹		42.89*	67.62*	42.34*	43.14*	38.90*	43.14*	28.62*	32.05*	53.76*	34.92*	39.84*	38.87*
Effect size for difference ²		0.08	0.21	0.09	0.08	0.07	0.06	0.06	0.06	0.11	0.08	0.09	0.12
DEPOTCST	Dependents: monthly cost of supporting dependents other than children												
Before imputation													
Mean percent relative bias across characteristics		47.75	‡	48.72	47.24	41.06	56.90	42.87	34.65	46.75	27.14	28.31	45.72
Median percent relative bias across characteristics		27.17	‡	24.72	33.50	32.14	29.15	46.33	29.68	34.32	23.03	21.39	33.19
Percentage of characteristics with significant bias		47.46	‡	47.19	25.00	18.06	35.16	35.29	30.00	29.41	22.22	25.71	20.20
Median effect size		0.32	‡	0.27	0.49	0.45	0.32	0.52	0.29	0.41	0.39	0.28	0.44
After imputation													
Percentage difference between pre- and post-imputation means ¹		1.56	‡	0.90	5.44	7.04	7.31	43.64	2.29	8.05	5.15	16.15	8.53
Effect size for difference ²		0.01	‡	0.01	0.05	0.06	0.08	0.30	0.02	0.10	0.06	0.12	0.07

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
DEPOTHR	Dependents: has dependent other than children												
Before imputation													
Mean percent relative bias across characteristics		6.84	12.33	7.27	7.42	6.07	6.56	6.18	5.04	7.42	5.56	4.74	8.36
Median percent relative bias across characteristics		3.08	8.83	3.61	5.45	3.60	2.35	3.15	2.70	3.33	2.05	1.62	4.70
Percentage of characteristics with significant bias		63.72	46.67	56.76	37.31	38.57	48.78	42.86	43.66	48.65	16.67	23.08	18.52
Median effect size		0.04	0.10	0.05	0.06	0.06	0.04	0.04	0.05	0.07	0.04	0.04	0.06
After imputation													
Percentage difference between pre- and post-imputation means ¹		1.54*	5.31*	1.80*	0.19	0.73*	0.86*	0.51	0.93*	2.62*	0.60*	0.56*	1.34*
Effect size for difference ²		0.03	‡	0.04	#	0.02	0.03	‡	0.02	0.06	‡	‡	0.02
DEPYNG	Dependents: children, age of youngest												
Before imputation													
Mean percent relative bias across characteristics		19.87	12.96	21.40	23.42	22.47	28.23	13.09	14.64	22.52	16.72	17.45	17.64
Median percent relative bias across characteristics		13.94	9.27	12.62	17.10	16.52	20.21	11.39	10.90	16.88	11.75	10.13	13.06
Percentage of characteristics with significant bias		64.71	9.52	54.17	33.33	34.09	53.47	31.67	31.58	42.27	22.08	30.59	21.36
Median effect size		0.14	0.13	0.14	0.16	0.21	0.21	0.14	0.12	0.15	0.15	0.12	0.12
After imputation													
Percentage difference between pre- and post-imputation means ¹		1.93*	8.91	2.56	1.36	0.83	3.43	10.83*	3.85	3.15	3.72	10.16*	3.38*
Effect size for difference ²		0.02	0.09	0.03	0.02	0.01	0.04	0.13	0.05	0.04	0.05	0.12	0.04

See notes at end of table.

Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution: 2015–16—Continued

Variable	Variable label	Overall	Public less-than-2-year	Public 2-year	Public 4-year non-doctorate-granting primarily subbaccalaureate	Public 4-year non-doctorate-granting primarily baccalaureate	Public 4-year doctorate-granting	Private nonprofit less-than-4-year	Private nonprofit 4-year non-doctorate-granting	Private nonprofit 4-year doctorate-granting	Public less-than-2-year	Private for-profit 2-year	Private for-profit 4-year
DIS16A	Disability: deaf or serious difficulty hearing												
Before imputation													
Mean percent relative bias across characteristics		10.48	10.86	9.79	13.81	9.64	7.85	11.43	9.68	9.91	14.38	12.51	13.79
Median percent relative bias across characteristics		6.21	10.02	4.25	8.88	6.47	3.76	8.34	5.62	5.09	9.57	7.14	9.16
Percentage of characteristics with significant bias		72.27	22.00	46.39	31.58	34.00	47.62	19.44	47.06	33.65	12.05	28.57	37.50
Median effect size		0.08	0.16	0.05	0.08	0.07	0.05	0.09	0.07	0.06	0.07	0.08	0.11
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.23*	1.42	0.26	0.13	0.08	0.24	0.71*	#	0.04	0.42	0.55	0.72*
Effect size for difference ²		0.01	‡	0.01	‡	‡	0.01	‡	#	#	0.01	0.02	0.03
DIS16B	Disability: blind or serious difficulty seeing												
Before imputation													
Mean percent relative bias across characteristics		10.48	10.86	9.80	13.89	9.66	7.85	11.37	9.56	9.93	14.34	13.18	13.93
Median percent relative bias across characteristics		6.29	10.02	4.30	8.95	6.43	3.54	8.33	5.64	4.83	9.75	7.67	9.48
Percentage of characteristics with significant bias		73.11	22.00	46.39	31.58	34.00	47.62	19.44	45.10	33.65	12.05	28.57	38.46
Median effect size		0.08	0.16	0.05	0.08	0.07	0.05	0.09	0.07	0.06	0.07	0.10	0.11
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.24*	1.42	0.36	0.44	0.14	0.04	0.53	0.23	0.29	0.83	0.40	0.38
Effect size for difference ²		0.01	‡	0.01	‡	‡	#	‡	0.01	0.02	0.02	0.01	0.01

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
DIS17A	Disability: serious difficulty concentrating, remembering, making decisions												
Before imputation													
Mean percent relative bias across characteristics		10.44	10.86	9.79	13.76	9.74	7.84	11.46	9.54	9.77	14.44	13.21	13.83
Median percent relative bias across characteristics		6.22	10.02	4.38	8.86	6.68	3.82	7.98	5.61	5.02	9.50	7.77	9.18
Percentage of characteristics with significant bias		72.27	22.00	46.39	30.53	34.00	47.62	19.44	45.10	32.69	12.05	28.57	37.50
Median effect size		0.08	0.16	0.05	0.08	0.07	0.05	0.09	0.07	0.05	0.07	0.10	0.11
After imputation													
Percentage difference between pre- and post-imputation means ¹		1.35*	4.84	1.37*	1.58	0.40	0.42	11.36*	2.14*	0.22	7.41*	5.89*	2.08
Effect size for difference ²		0.02	0.06	0.02	0.02	0.01	0.01	0.14	0.03	#	0.10	0.07	0.03
DIS17B	Disability: serious difficulty walking or climbing stairs												
Before imputation													
Mean percent relative bias across characteristics		10.48	10.74	9.78	13.85	9.68	7.84	11.40	9.59	9.90	14.38	13.18	13.82
Median percent relative bias across characteristics		6.25	9.88	4.21	8.95	6.62	3.80	8.34	5.49	5.14	9.64	7.76	9.13
Percentage of characteristics with significant bias		71.43	22.00	46.39	30.53	34.00	46.67	19.44	44.12	33.65	12.05	28.57	37.50
Median effect size		0.08	0.15	0.05	0.08	0.07	0.05	0.09	0.07	0.06	0.07	0.10	0.11
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.56*	0.03	0.24	1.31*	1.01*	0.01	2.32	0.56	0.05	0.18	1.13	2.79*
Effect size for difference ²		0.02	±	0.01	0.04	0.04	#	0.05	0.02	#	0.01	0.03	0.06

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
DISTYPES	Disability: main type of condition or impairment												
Before imputation													
Mean percent relative bias across characteristics		18.56	13.49	21.86	24.28	22.73	18.42	15.52	16.50	20.23	21.69	16.19	28.19
Median percent relative bias across characteristics		12.27	8.05	13.39	15.05	15.95	9.64	12.62	11.54	13.32	14.61	11.69	18.48
Percentage of characteristics with significant bias		61.02	10.00	56.84	27.71	38.37	40.40	10.53	32.61	32.98	26.87	22.62	22.77
Median effect size		0.12	0.31	0.10	0.20	0.21	0.11	0.15	0.15	0.16	0.19	0.15	0.25
After imputation													
Percentage difference between pre- and post-imputation means ¹		2.46*	‡	2.50	6.70	11.39	4.24	36.54*	8.66*	5.08	24.57*	18.98*	12.90*
Effect size for difference ²		0.04	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
DODAMT	Department of Defense (military) aid												
Before imputation													
Mean percent relative bias across characteristics		8.32	4.18	9.94	8.43	18.19	10.86	17.15	7.29	7.79	12.39	10.05	14.72
Median percent relative bias across characteristics		3.55	4.52	3.84	5.01	14.07	4.37	12.38	2.83	3.55	4.94	3.23	8.81
Percentage of characteristics with significant bias		46.67	0.00	40.40	22.22	43.48	43.56	0.00	18.48	28.87	8.22	14.12	23.23
Median effect size		0.05	0.08	0.06	0.06	0.14	0.05	0.15	0.03	0.05	0.05	0.05	0.13
After imputation													
Percentage difference between pre- and post-imputation means ¹		1.47	‡	4.88	9.86	31.63	24.71	#	8.30	10.05	13.80	0.02	14.32
Effect size for difference ²		#	‡	#	0.01	0.01	0.01	‡	#	#	#	#	0.02

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
DSTUINC	Dependent students: income												
Before imputation													
Mean percent relative bias across characteristics		14.46	12.37	14.40	14.92	9.18	12.07	11.57	12.57	11.97	13.32	9.20	40.16
Median percent relative bias across characteristics		9.35	8.66	8.54	10.22	3.57	6.08	3.97	6.71	6.64	8.31	4.40	41.05
Percentage of characteristics with significant bias		78.50	40.00	66.67	39.34	38.10	52.33	38.89	47.06	56.06	27.78	32.65	41.43
Median effect size		0.09	0.14	0.09	0.13	0.10	0.07	0.12	0.11	0.13	0.15	0.09	0.46
After imputation													
Percentage difference between pre- and post-imputation means ¹		20.98*	‡	25.32*	17.89*	8.18*	17.09*	1.99	8.95*	21.31*	7.75*	8.75*	3.58*
Effect size for difference ²		0.02	‡	0.02	0.12	0.05	0.08	0.02	0.04	0.08	0.05	0.05	0.02
DSTUINCX	Dependent students: income (categorical)												
Before imputation													
Mean percent relative bias across characteristics		11.24	‡	11.08	12.16	7.53	8.26	8.07	9.97	7.89	12.21	8.24	39.62
Median percent relative bias across characteristics		6.40	‡	5.39	7.59	3.60	3.63	3.38	4.37	5.16	7.83	4.39	37.41
Percentage of characteristics with significant bias		76.19	‡	65.28	42.59	39.29	53.16	23.08	41.67	56.14	28.57	34.04	39.71
Median effect size		0.08	‡	0.08	0.12	0.09	0.05	0.06	0.08	0.09	0.15	0.08	0.46
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.50	‡	1.53*	2.02	1.64*	0.51	‡	1.05	1.22	‡	‡	0.21
Effect size for difference ²		‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
EMPLWAIV	Institutional tuition waivers for staff												
Before imputation													
Mean percent relative bias across characteristics		8.08	4.18	10.12	8.43	19.06	10.15	15.43	6.44	6.85	11.00	9.01	13.97
Median percent relative bias across characteristics		4.22	4.52	4.84	5.01	14.57	4.30	10.47	2.78	3.58	5.64	3.30	9.63
Percentage of characteristics with significant bias		47.06	0.00	46.94	22.22	44.09	39.00	0.00	19.57	28.13	4.41	13.10	24.49
Median effect size		0.05	0.08	0.06	0.06	0.14	0.05	0.16	0.03	0.05	0.05	0.05	0.13
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.81	‡	37.25	1.34	41.39	2.01	#	8.66	10.26*	100.00	19.45	7.71
Effect size for difference ²		#	‡	0.01	#	0.02	#	‡	0.01	0.01	0.04	0.01	#
EMPLYAM3	Employer aid (student & parents)												
Before imputation													
Mean percent relative bias across characteristics		10.46	10.02	9.91	14.16	9.96	8.83	11.16	9.53	9.44	13.80	13.23	13.27
Median percent relative bias across characteristics		6.41	10.38	4.62	9.41	6.68	3.99	8.42	5.55	5.17	9.17	7.58	8.91
Percentage of characteristics with significant bias		72.27	10.00	48.45	32.63	35.00	49.06	22.22	48.04	32.69	7.23	31.87	34.62
Median effect size		0.08	0.14	0.05	0.09	0.08	0.05	0.09	0.07	0.05	0.07	0.10	0.10
After imputation													
Percentage difference between pre- and post-imputation means ¹		1.05	50.20	9.96	11.33	17.55	3.07	35.65	5.42	3.09	33.68	34.02	5.63
Effect size for difference ²		#	0.07	0.01	0.02	0.02	#	0.05	0.01	0.01	0.03	0.03	0.01

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
EMPLYAMT	Employer aid												
Before imputation													
Mean percent relative bias across characteristics		14.10	16.36	14.56	18.74	20.57	12.32	22.55	11.80	12.67	18.45	16.40	19.39
Median percent relative bias across characteristics		8.29	15.50	9.19	10.27	17.22	6.08	15.21	6.65	7.80	11.06	11.90	13.03
Percentage of characteristics with significant bias		60.50	0.00	50.00	36.17	42.42	43.81	2.90	35.64	32.69	18.07	28.89	30.10
Median effect size		0.09	0.23	0.10	0.12	0.16	0.08	0.18	0.08	0.08	0.19	0.14	0.17
After imputation													
Percentage difference between pre- and post-imputation means ¹		11.45*	90.15	1.17	2.73	3.61	5.42	99.01*	2.27	4.18	36.81	14.83	1.96
Effect size for difference ²		0.02	0.13	#	0.01	0.01	0.01	0.15	#	0.01	0.03	0.01	#
FAMHELP	Other financial support received												
Before imputation													
Mean percent relative bias across characteristics		10.42	11.02	9.82	13.83	9.57	7.83	11.34	9.46	9.88	13.94	13.41	13.83
Median percent relative bias across characteristics		6.22	10.56	4.40	8.55	6.29	3.80	8.48	5.53	5.21	9.90	7.73	9.45
Percentage of characteristics with significant bias		72.27	20.00	48.45	31.58	34.00	48.57	19.44	44.12	33.65	10.84	30.77	36.54
Median effect size		0.08	0.15	0.05	0.08	0.07	0.05	0.09	0.07	0.06	0.07	0.10	0.11
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.09	2.06	0.89	2.00	1.42	1.45*	3.61	2.83*	1.72*	7.35*	0.48	0.50
Effect size for difference ²		#	±	0.01	0.03	0.02	0.02	0.06	0.04	0.03	0.13	0.01	0.01

See notes at end of table.

Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution: 2015–16—Continued

Variable	Variable label	Overall	Public less-than-2-year	Public 2-year	Public 4-year non-doctorate-granting primarily subbaccalaureate	Public 4-year non-doctorate-granting primarily baccalaureate	Public 4-year doctorate-granting	Private nonprofit less-than-4-year	Private nonprofit 4-year non-doctorate-granting	Private nonprofit 4-year doctorate-granting	Public less-than-2-year	Private for-profit 2-year	Private for-profit 4-year
FAMHPAM	Help from family and friends: total amount in 2015–16												
Before imputation													
Mean percent relative bias across characteristics		10.40	11.02	9.81	13.75	9.54	7.83	11.34	9.46	9.86	13.94	13.47	13.82
Median percent relative bias across characteristics		6.20	10.56	4.43	8.45	6.38	3.76	8.48	5.64	5.15	9.90	7.86	9.45
Percentage of characteristics with significant bias		72.27	20.00	48.45	31.58	34.00	46.67	19.44	44.12	33.65	10.84	30.77	38.46
Median effect size		0.08	0.15	0.05	0.08	0.07	0.06	0.09	0.07	0.06	0.07	0.10	0.11
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.40	2.06	1.16	1.29	1.57	1.75*	1.98	2.47*	1.50	4.02*	1.15	1.33*
Effect size for difference ²		0.01	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
FEDBEN	Received federal benefit: any												
Before imputation													
Mean percent relative bias across characteristics		9.40	11.23	11.61	13.87	9.46	8.10	12.95	9.13	9.97	11.75	10.88	12.65
Median percent relative bias across characteristics		5.75	8.31	5.28	10.24	7.46	4.24	7.91	5.73	5.33	8.92	7.47	8.96
Percentage of characteristics with significant bias		68.91	21.74	57.14	34.04	33.00	52.38	32.88	47.06	33.65	30.49	30.00	36.54
Median effect size		0.06	0.16	0.06	0.08	0.08	0.06	0.10	0.06	0.06	0.10	0.09	0.09
After imputation													
Percentage difference between pre- and post-imputation means ¹		1.85*	3.60	3.68*	10.59*	2.40	0.78	9.59	2.18	1.17	46.73*	11.85*	1.70
Effect size for difference ²		0.02	0.04	0.04	0.12	0.03	0.01	0.10	0.03	0.02	0.48	0.12	0.02

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
FEDBENA	Received federal benefit: Food Stamp Benefit												
Before imputation													
Mean percent relative bias across characteristics		9.55	11.12	11.22	14.13	9.40	8.00	13.30	9.23	9.87	11.56	10.52	12.89
Median percent relative bias across characteristics		6.20	9.81	4.97	10.27	6.50	4.18	8.65	5.28	4.99	7.81	6.69	8.93
Percentage of characteristics with significant bias		68.07	20.83	52.04	34.74	32.00	51.43	29.73	48.04	34.62	28.92	28.57	36.54
Median effect size		0.07	0.17	0.05	0.08	0.08	0.05	0.10	0.06	0.06	0.10	0.08	0.09
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.78*	0.20	2.52*	6.07*	0.97	0.01	15.51*	0.61	0.81	45.64*	13.27*	0.02
Effect size for difference ²		0.01	#	0.03	0.08	0.02	#	0.16	0.01	0.02	0.52	0.14	#
FEDBENB	Received federal benefit: Free or Reduced Price School Lunch Benefits												
Before imputation													
Mean percent relative bias across characteristics		10.10	11.02	9.87	13.58	9.25	7.89	13.62	9.52	9.82	14.19	12.43	13.48
Median percent relative bias across characteristics		6.16	8.89	4.77	8.15	6.57	3.78	8.53	5.39	5.08	8.83	7.57	8.86
Percentage of characteristics with significant bias		70.59	18.37	51.55	36.17	33.00	48.57	21.62	49.02	34.62	16.67	29.67	34.62
Median effect size		0.08	0.16	0.05	0.08	0.08	0.05	0.09	0.07	0.06	0.08	0.10	0.11
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.94*	2.88	0.77	4.17*	1.12	0.67	0.54	0.65	0.59	8.82*	5.70*	0.05
Effect size for difference ²		0.01	‡	0.01	0.06	0.02	0.01	0.01	0.01	0.01	0.11	0.06	#

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbacca- laureate	Public 4-year non- doctorate- granting primarily bacca- laureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
FEDBENC	Received federal benefit: Supplemental Security Income Benefits												
Before imputation													
Mean percent relative bias across characteristics		10.39	11.96	9.79	13.50	9.55	7.76	11.37	9.51	9.82	14.44	12.88	13.92
Median percent relative bias across characteristics		6.12	10.90	4.36	9.40	6.30	4.08	8.47	5.11	5.03	9.60	7.45	9.58
Percentage of characteristics with significant bias		73.11	22.00	45.92	30.53	36.00	46.67	22.22	44.12	34.62	13.25	30.77	36.54
Median effect size		0.08	0.16	0.04	0.08	0.07	0.06	0.10	0.07	0.06	0.08	0.10	0.11
After imputation													
Percentage difference between pre- and post- imputation means ¹		0.54*	3.65	0.30	1.30	0.88	0.35	0.16	0.41	0.20	4.49*	0.77	0.12
Effect size for difference ²		0.01	0.05	0.01	0.03	0.02	0.01	#	0.01	0.01	0.09	0.01	#
FEDBEND	Received federal benefit: TANF Benefits												
Before imputation													
Mean percent relative bias across characteristics		10.43	11.39	10.67	13.67	9.42	7.72	12.01	9.73	9.88	13.88	12.62	13.88
Median percent relative bias across characteristics		6.16	10.13	4.23	8.84	6.09	3.77	7.56	5.16	4.96	8.99	7.50	9.35
Percentage of characteristics with significant bias		71.43	22.00	48.48	29.47	35.00	45.71	15.07	46.08	32.69	11.90	29.67	35.58
Median effect size		0.08	0.16	0.04	0.08	0.07	0.06	0.09	0.07	0.05	0.08	0.10	0.11
After imputation													
Percentage difference between pre- and post- imputation means ¹		0.03	0.57	0.21	0.04	0.04	#	3.26*	0.42	0.09	6.64*	3.92*	0.13
Effect size for difference ²		#	‡	0.01	‡	‡	#	‡	0.02	0.01	‡	0.08	#

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
FEDBENE	Received federal benefits: WIC Benefits												
Before imputation													
Mean percent relative bias across characteristics		10.16	10.73	10.09	14.29	9.56	7.80	12.71	9.19	9.65	14.43	12.57	13.64
Median percent relative bias across characteristics		6.39	9.31	4.55	9.34	6.50	4.15	8.87	5.19	4.99	10.25	7.51	9.12
Percentage of characteristics with significant bias		71.43	16.00	52.58	37.89	36.00	52.38	16.44	42.16	33.65	18.07	31.87	37.50
Median effect size		0.08	0.16	0.05	0.08	0.07	0.06	0.10	0.06	0.06	0.09	0.10	0.10
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.30	1.54	0.27	2.47	1.19	0.21	1.61	0.67	0.53	15.70*	7.84*	1.49
Effect size for difference ²		0.01	0.02	0.01	0.05	0.03	0.01	0.02	0.02	0.01	0.26	0.11	0.03
FIN2000	Financial security: \$2,000 within the next month												
Before imputation													
Mean percent relative bias across characteristics		10.53	10.80	9.82	13.83	9.78	7.94	11.40	9.62	9.97	14.17	13.22	13.80
Median percent relative bias across characteristics		6.23	9.88	4.33	8.51	6.78	3.78	8.40	5.47	5.26	9.72	7.78	9.27
Percentage of characteristics with significant bias		72.27	22.00	46.39	30.53	34.00	46.67	19.44	45.10	33.65	12.05	29.67	36.54
Median effect size		0.08	0.15	0.05	0.08	0.07	0.05	0.09	0.07	0.06	0.07	0.10	0.11
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.84	2.84	1.39	3.75*	0.59	0.52	4.75	1.61	1.11	4.94	1.97	2.28
Effect size for difference ²		0.01	‡	0.02	0.05	0.01	0.01	0.05	0.02	0.01	0.06	0.02	0.03

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
FINLIT1	Financial literacy: effect of inflation on purchasing												
Before imputation													
Mean percent relative bias across characteristics		10.59	10.59	10.17	13.82	9.65	7.84	11.32	9.88	10.00	14.47	13.29	13.95
Median percent relative bias across characteristics		6.15	9.29	4.45	9.08	6.69	3.86	7.76	5.61	4.83	9.50	8.08	9.47
Percentage of characteristics with significant bias		70.59	16.00	48.98	32.63	35.00	48.57	19.44	45.10	33.65	10.84	27.47	37.50
Median effect size		0.08	0.15	0.05	0.08	0.07	0.05	0.09	0.07	0.06	0.07	0.10	0.11
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.53	7.39	0.80	2.70	3.45*	0.80	12.37*	2.00	0.95	30.13*	12.39*	1.46
Effect size for difference ²		0.01	0.09	0.01	0.03	0.04	0.01	0.12	0.02	0.01	0.31	0.13	0.02
FINLIT2	Financial literacy: effect of interest on savings												
Before imputation													
Mean percent relative bias across characteristics		10.52	10.70	9.86	13.87	9.52	7.83	11.52	9.74	9.99	14.58	13.12	13.69
Median percent relative bias across characteristics		6.12	9.64	4.54	8.81	6.60	3.84	8.56	5.60	5.13	9.79	7.36	9.24
Percentage of characteristics with significant bias		70.59	16.00	47.42	31.58	32.00	48.57	20.83	46.08	32.69	9.64	30.77	35.58
Median effect size		0.08	0.15	0.05	0.08	0.08	0.06	0.10	0.07	0.06	0.07	0.10	0.11
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.09	4.25	1.31*	0.74	0.72	0.16	2.52	2.06*	0.65	9.20*	4.28*	1.44
Effect size for difference ²		#	‡	0.02	0.02	0.01	#	0.05	0.03	0.02	0.12	0.05	0.02

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
FINLIT3	Financial literacy: effect of diversification on risk												
Before imputation													
Mean percent relative bias across characteristics		10.51	10.80	9.87	13.91	9.69	7.81	11.36	9.60	9.90	14.48	13.02	13.81
Median percent relative bias across characteristics		6.21	9.88	4.42	8.57	6.74	3.59	8.37	5.70	4.78	9.27	7.48	9.02
Percentage of characteristics with significant bias		71.43	22.00	47.42	31.58	34.00	46.67	19.44	45.10	32.69	10.84	29.67	37.50
Median effect size		0.08	0.15	0.05	0.08	0.08	0.05	0.09	0.07	0.06	0.08	0.10	0.11
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.35	12.11	1.35	5.68*	2.40	0.42	8.67*	2.53*	1.59	20.59*	8.52*	0.86
Effect size for difference ²		#	‡	0.01	0.06	0.02	#	0.10	0.03	0.02	0.25	0.09	0.01
GAINSUR	Graduate assistantship: included health insurance												
Before imputation													
Mean percent relative bias across characteristics		28.22	†	†	‡	46.52	14.69	†	40.29	28.35	†	†	‡
Median percent relative bias across characteristics		20.61	†	†	‡	46.54	7.84	†	39.64	23.28	†	†	‡
Percentage of characteristics with significant bias		50.72	†	†	‡	45.00	17.24	†	33.33	18.37	†	†	‡
Median effect size		0.22	†	†	‡	0.68	0.14	†	0.60	0.25	†	†	‡
After imputation													
Percentage difference between pre- and post-imputation means ¹		2.97	†	†	‡	‡	3.60	†	‡	9.93	†	†	‡
Effect size for difference ²		0.04	†	†	‡	‡	0.05	†	‡	‡	†	†	‡

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
GPA	Grade point average												
Before imputation													
Mean percent relative bias across characteristics		7.76	10.99	7.50	6.50	10.28	8.29	7.63	8.89	7.55	15.42	7.28	12.07
Median percent relative bias across characteristics		4.12	6.29	3.86	3.57	7.42	2.82	4.10	5.81	4.35	9.98	3.38	7.49
Percentage of characteristics with significant bias		66.67	3.23	60.42	35.00	44.44	48.96	0.00	31.03	42.17	12.82	23.46	27.37
Median effect size		0.06	0.13	0.05	0.05	0.09	0.05	0.05	0.07	0.06	0.09	0.06	0.13
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.05	1.20*	0.03	0.04	0.22	0.01	0.71	0.27	0.07	0.19	0.24	0.62*
Effect size for difference ²		#	0.06	#	#	0.01	#	0.03	0.01	#	0.01	0.01	0.02
GPACAT	Grade point average (categorical)												
Before imputation													
Mean percent relative bias across characteristics		7.12	6.70	7.08	6.11	9.29	8.11	6.20	6.83	7.23	11.60	6.71	11.51
Median percent relative bias across characteristics		4.12	5.54	3.58	3.23	6.07	2.87	3.48	4.61	3.78	7.43	3.39	7.25
Percentage of characteristics with significant bias		65.52	14.29	56.25	34.62	41.98	50.00	0.00	40.00	44.30	17.11	30.38	28.42
Median effect size		0.05	0.10	0.05	0.05	0.08	0.05	0.05	0.05	0.06	0.08	0.05	0.13
After imputation													
Percentage difference between pre- and post-imputation means ¹		1.23*	‡	1.18*	1.22	0.93	0.54	0.42	1.06	1.41	5.28*	0.59	1.36*
Effect size for difference ²		0.01	‡	0.01	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbacca- laureate	Public 4-year non- doctorate- granting primarily bacca- laureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
GRADLVL	Graduate class level												
Before imputation													
Mean percent relative bias across characteristics		7.61	†	†	‡	7.79	6.96	†	7.72	8.48	†	†	11.36
Median percent relative bias across characteristics		3.92	†	†	‡	5.08	3.39	†	4.77	4.96	†	†	9.00
Percentage of characteristics with significant bias		32.53	†	†	‡	12.24	31.34	†	20.34	31.82	†	†	20.00
Median effect size		0.04	†	†	‡	0.07	0.04	†	0.06	0.05	†	†	0.09
After imputation													
Percentage difference between pre- and post- imputation means ¹		11.30*	†	†	‡	13.33*	12.65*	†	8.28*	9.36*	†	†	9.17*
Effect size for difference ²		‡	†	†	‡	‡	‡	†	‡	‡	†	†	‡
GRADPYM	Year and month began graduate school												
Before imputation													
Mean percent relative bias across characteristics		4.69	†	†	‡	10.43	4.71	†	10.72	5.39	†	†	7.95
Median percent relative bias across characteristics		2.77	†	†	‡	8.50	2.33	†	8.64	3.12	†	†	5.15
Percentage of characteristics with significant bias		25.00	†	†	‡	18.64	13.89	†	8.70	16.90	†	†	13.89
Median effect size		0.03	†	†	‡	0.09	0.02	†	0.10	0.05	†	†	0.06
After imputation													
Percentage difference between pre- and post- imputation means ¹		#	†	†	‡	#	#	†	#	#	†	†	#
Effect size for difference ²		0.04	†	†	‡	0.03	0.05	†	0.05	0.03	†	†	0.04

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
GRJOBHR	Graduate school job: hours worked per week												
Before imputation													
Mean percent relative bias across characteristics		28.64	†	†	‡	46.29	16.95	†	36.28	30.12	†	†	174.15
Median percent relative bias across characteristics		20.04	†	†	‡	45.91	7.48	†	36.89	24.11	†	†	82.72
Percentage of characteristics with significant bias		47.89	†	†	‡	45.00	20.34	†	29.17	15.38	†	†	15.63
Median effect size		0.21	†	†	‡	0.68	0.14	†	0.47	0.23	†	†	0.90
After imputation													
Percentage difference between pre- and post-imputation means ¹		2.78	†	†	‡	‡	3.42	†	‡	1.02	†	†	‡
Effect size for difference ²		0.05	†	†	‡	‡	0.07	†	‡	0.02	†	†	‡
GRJOBWK	Graduate school job: proportion of weeks worked												
Before imputation													
Mean percent relative bias across characteristics		28.76	†	†	‡	46.29	17.04	†	36.28	30.12	†	†	266.19
Median percent relative bias across characteristics		21.20	†	†	‡	45.91	7.41	†	36.89	24.11	†	†	73.17
Percentage of characteristics with significant bias		52.11	†	†	‡	45.00	20.34	†	29.17	15.38	†	†	12.50
Median effect size		0.21	†	†	‡	0.68	0.15	†	0.47	0.23	†	†	0.89
After imputation													
Percentage difference between pre- and post-imputation means ¹		1.97	†	†	‡	‡	3.60	†	‡	3.13	†	†	‡
Effect size for difference ²		‡	†	†	‡	‡	‡	†	‡	‡	†	†	‡

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
HCHONORS	Number of honors subjects												
Before imputation													
Mean percent relative bias across characteristics		26.21	26.17	18.01	20.52	19.77	16.60	24.99	27.49	21.32	24.10	19.85	36.42
Median percent relative bias across characteristics		19.92	20.60	9.35	12.78	12.70	7.70	21.68	19.73	10.13	15.84	9.47	23.99
Percentage of characteristics with significant bias		84.48	7.84	56.12	35.16	45.83	64.36	23.19	70.41	61.70	30.38	21.11	31.31
Median effect size		0.15	0.29	0.09	0.13	0.13	0.09	0.23	0.20	0.13	0.17	0.12	0.33
After imputation													
Percentage difference between pre- and post-imputation means ¹		6.13*	5.51	12.25*	19.01*	12.23*	4.57*	55.04*	7.57*	9.28*	69.45*	48.34*	29.73*
Effect size for difference ²		0.09	‡	0.13	0.23	0.14	0.06	‡	0.10	0.11	0.74	0.53	0.34
HCMATHHI	Highest level of math completed or planned												
Before imputation													
Mean percent relative bias across characteristics		12.83	7.80	10.82	11.22	10.81	9.11	10.71	11.19	13.07	14.62	11.17	20.49
Median percent relative bias across characteristics		9.20	7.85	7.31	8.55	5.98	4.86	7.36	7.82	7.34	10.45	7.70	16.87
Percentage of characteristics with significant bias		82.61	13.04	66.32	44.32	45.74	65.63	27.27	62.37	60.22	20.78	36.05	37.11
Median effect size		0.10	0.11	0.07	0.08	0.09	0.05	0.09	0.09	0.08	0.12	0.09	0.20
After imputation													
Percentage difference between pre- and post-imputation means ¹		3.48*	‡	1.68*	4.70*	2.84*	2.50*	8.76*	3.10*	5.39*	25.22*	19.39*	3.62
Effect size for difference ²		0.04	‡	0.02	‡	‡	‡	‡	‡	‡	‡	0.22	0.05

See notes at end of table.

Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution: 2015–16—Continued

Variable	Variable label	Overall	Public less-than-2-year	Public 2-year	Public 4-year non-doctorate-granting primarily subbaccalaureate	Public 4-year non-doctorate-granting primarily baccalaureate	Public 4-year doctorate-granting	Private nonprofit less-than-4-year	Private nonprofit 4-year non-doctorate-granting	Private nonprofit 4-year doctorate-granting	Public less-than-2-year	Private for-profit 2-year	Private for-profit 4-year
HCSCINUM Number of science courses taken													
Before imputation													
Mean percent relative bias across characteristics		24.70	19.54	19.36	19.10	20.78	16.87	21.15	25.00	21.26	28.02	18.67	34.26
Median percent relative bias across characteristics		17.74	14.64	9.36	11.99	12.76	8.27	13.43	17.51	11.02	23.74	12.24	25.18
Percentage of characteristics with significant bias		81.03	17.78	57.58	32.22	56.25	64.00	22.54	71.43	58.95	33.75	28.41	36.36
Median effect size		0.17	0.24	0.12	0.13	0.15	0.10	0.22	0.20	0.13	0.19	0.15	0.31
After imputation													
Percentage difference between pre- and post-imputation means ¹		3.30*	7.93	4.93*	19.01*	3.32*	3.66*	24.00*	5.38*	4.79*	26.48*	29.82*	12.03*
Effect size for difference ²		0.06	‡	0.05	‡	‡	0.06	‡	‡	‡	‡	0.41	0.16
HCTKBIOL Took or planned to take biology													
Before imputation													
Mean percent relative bias across characteristics		24.81	19.64	19.37	19.13	21.05	16.87	21.15	25.10	21.29	27.90	18.76	34.09
Median percent relative bias across characteristics		17.72	15.68	8.95	12.03	13.21	8.49	13.43	17.59	11.19	23.05	11.96	24.25
Percentage of characteristics with significant bias		81.03	22.22	54.55	32.22	56.25	62.38	22.54	73.47	57.89	32.50	27.27	34.34
Median effect size		0.17	0.24	0.12	0.12	0.16	0.10	0.22	0.20	0.13	0.20	0.15	0.31
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.32	0.54	0.15	0.91*	0.22	0.58*	1.49*	0.64*	0.83	0.59	0.61	2.24*
Effect size for difference ²		0.01	‡	0.01	‡	0.01	0.02	‡	0.02	0.03	‡	0.03	0.06

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
HCTKCHEM	Took or planned to take chemistry												
Before imputation													
Mean percent relative bias across characteristics		25.18	20.31	19.63	19.00	21.01	17.00	21.84	25.33	21.41	26.46	19.06	34.34
Median percent relative bias across characteristics		18.32	16.28	9.53	11.85	12.98	8.31	12.69	17.70	11.59	23.29	12.03	24.67
Percentage of characteristics with significant bias		83.62	22.22	55.56	32.22	51.04	64.36	25.35	71.43	58.33	35.44	29.55	35.35
Median effect size		0.17	0.25	0.11	0.13	0.15	0.10	0.20	0.20	0.13	0.21	0.15	0.31
After imputation													
Percentage difference between pre- and post-imputation means ¹		5.52*	10.25	3.75*	1.29	4.92*	3.60*	28.41*	1.50	3.44*	8.35	11.97*	11.20*
Effect size for difference ²		0.09	0.12	0.06	0.02	0.08	0.07	0.31	0.03	0.07	0.14	0.19	0.15
HCTKPHYS	Took or planned to take physics												
Before imputation													
Mean percent relative bias across characteristics		25.48	20.86	20.13	18.58	20.68	16.61	21.31	25.41	21.87	27.36	19.19	34.59
Median percent relative bias across characteristics		19.03	16.66	10.91	11.74	13.01	8.48	12.81	17.51	12.00	24.28	11.61	26.12
Percentage of characteristics with significant bias		83.62	14.58	56.57	27.78	47.92	62.75	23.94	72.45	59.79	29.11	30.34	34.34
Median effect size		0.17	0.23	0.12	0.12	0.15	0.10	0.21	0.20	0.14	0.21	0.16	0.31
After imputation													
Percentage difference between pre- and post-imputation means ¹		7.80*	31.70*	4.01*	22.30*	0.98	8.06*	40.75*	3.42*	9.31*	47.38*	14.38*	20.19*
Effect size for difference ²		0.08	0.36	0.04	0.23	0.01	0.08	0.44	0.04	0.10	0.50	0.15	0.21

See notes at end of table.

Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution: 2015–16—Continued

Variable	Variable label	Overall	Public less-than-2-year	Public 2-year	Public 4-year non-doctorate-granting primarily subbaccalaureate	Public 4-year non-doctorate-granting primarily baccalaureate	Public 4-year doctorate-granting	Private nonprofit less-than-4-year	Private nonprofit 4-year non-doctorate-granting	Private nonprofit 4-year doctorate-granting	Public less-than-2-year	Private for-profit 2-year	Private for-profit 4-year
HCYSENGL	Years completed or planned English												
Before imputation													
Mean percent relative bias across characteristics		24.79	20.17	18.68	19.73	20.75	16.08	22.75	25.20	21.46	28.25	19.10	33.98
Median percent relative bias across characteristics		18.41	15.63	8.78	14.13	12.56	7.71	15.04	16.22	11.43	23.75	11.67	25.70
Percentage of characteristics with significant bias		82.76	12.77	54.55	34.44	55.21	63.00	22.86	69.39	56.84	32.91	30.68	35.35
Median effect size		0.17	0.21	0.11	0.13	0.16	0.09	0.24	0.20	0.13	0.20	0.15	0.31
After imputation													
Percentage difference between pre- and post-imputation means ¹		6.30*	13.67	7.21*	8.03*	9.67*	3.93*	26.31*	4.54*	9.73*	20.74*	21.15*	4.65
Effect size for difference ²		0.09	‡	0.09	‡	0.16	0.07	‡	0.08	0.13	‡	0.25	0.06
HCYSLANG	Years completed or planned foreign languages												
Before imputation													
Mean percent relative bias across characteristics		25.44	24.99	18.70	20.96	21.15	16.65	27.29	26.47	22.58	28.89	20.10	34.95
Median percent relative bias across characteristics		18.92	18.19	8.75	12.73	13.54	7.95	22.56	19.62	12.31	24.71	11.67	23.48
Percentage of characteristics with significant bias		82.76	3.92	46.00	32.97	41.67	58.82	23.94	70.41	51.02	32.50	28.89	29.29
Median effect size		0.17	0.25	0.09	0.15	0.13	0.10	0.23	0.20	0.14	0.21	0.13	0.31
After imputation													
Percentage difference between pre- and post-imputation means ¹		16.47*	47.76*	11.99*	16.60*	13.85*	12.98*	62.08*	16.02*	12.93*	51.32*	39.09*	14.51*
Effect size for difference ²		0.18	‡	0.16	0.21	0.21	0.15	‡	0.16	0.15	0.55	0.41	0.21

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
HCYSMATH Years completed or planned math													
Before imputation													
Mean percent relative bias across characteristics		12.72	8.15	10.29	11.29	11.11	8.82	9.51	12.20	12.85	15.07	10.80	20.35
Median percent relative bias across characteristics		8.73	7.21	6.67	8.65	5.83	3.92	6.39	7.98	6.74	12.62	7.36	17.45
Percentage of characteristics with significant bias		81.74	17.39	67.37	43.18	52.17	60.42	16.13	66.67	59.34	22.08	36.05	39.18
Median effect size		0.10	0.11	0.07	0.07	0.09	0.05	0.08	0.09	0.09	0.12	0.09	0.20
After imputation													
Percentage difference between pre- and post-imputation means ¹		4.35*	24.87*	2.74*	4.90*	6.14*	3.09*	7.57*	3.18*	3.49*	13.66*	13.81*	5.18*
Effect size for difference ²		‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
HCYSSCIE Years completed or planned science													
Before imputation													
Mean percent relative bias across characteristics		24.89	19.40	18.63	19.47	20.80	16.12	22.81	25.22	21.50	28.20	19.28	33.58
Median percent relative bias across characteristics		18.25	14.98	8.66	12.65	13.08	8.03	14.93	16.74	11.07	24.38	12.00	24.84
Percentage of characteristics with significant bias		83.62	12.77	54.55	35.16	55.21	64.00	22.86	69.39	56.84	32.91	30.68	33.33
Median effect size		0.17	0.20	0.11	0.13	0.15	0.09	0.23	0.20	0.13	0.19	0.15	0.31
After imputation													
Percentage difference between pre- and post-imputation means ¹		7.04*	19.63*	6.59*	12.24*	4.86*	4.35*	18.58	9.76*	13.86*	44.40*	36.76*	7.75
Effect size for difference ²		0.10	‡	0.09	‡	‡	0.07	‡	‡	‡	‡	0.38	0.09

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
HCYSSOCI	Years completed or planned social science												
Before imputation													
Mean percent relative bias across characteristics		24.85	20.17	18.49	19.67	20.68	16.05	23.39	25.21	21.52	28.00	18.97	34.02
Median percent relative bias across characteristics		18.26	15.63	8.40	14.42	12.37	7.74	15.90	16.84	11.30	22.95	11.81	25.15
Percentage of characteristics with significant bias		82.76	12.77	53.54	38.46	55.21	63.00	24.29	69.39	57.89	32.50	29.55	35.35
Median effect size		0.17	0.21	0.11	0.13	0.15	0.09	0.24	0.20	0.13	0.21	0.15	0.31
After imputation													
Percentage difference between pre- and post-imputation means ¹		7.81*	31.30*	9.24*	13.40*	6.74*	4.52*	25.00*	6.14*	10.80*	56.49*	15.81*	7.40
Effect size for difference ²		0.09	‡	0.10	‡	0.13	0.06	‡	0.09	0.14	‡	0.24	0.08
HIGHLVEX	Highest level of education ever expected												
Before imputation													
Mean percent relative bias across characteristics		11.30	10.91	9.89	14.20	9.77	9.73	11.34	9.44	11.81	13.85	13.20	14.84
Median percent relative bias across characteristics		6.11	10.92	4.52	9.55	6.80	4.12	8.96	5.62	6.03	9.51	7.86	10.25
Percentage of characteristics with significant bias		73.11	14.00	49.48	33.68	35.00	56.19	18.06	48.04	41.35	12.05	31.87	38.46
Median effect size		0.08	0.15	0.05	0.08	0.08	0.05	0.09	0.07	0.06	0.07	0.10	0.11
After imputation													
Percentage difference between pre- and post-imputation means ¹		5.91*	12.22	1.69	3.23	4.65*	3.57*	7.40	1.64	14.25*	12.40*	9.35*	8.82*
Effect size for difference ²		‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	0.11	0.11

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
HISPTYPE	Race-ethnicity: type of Hispanic origin												
Before imputation													
Mean percent relative bias across characteristics		7.09	1.95	8.10	8.75	6.15	6.45	5.38	6.42	5.81	12.72	9.45	8.47
Median percent relative bias across characteristics		3.70	2.08	4.33	7.21	3.64	2.72	3.20	3.15	3.14	7.62	5.02	5.56
Percentage of characteristics with significant bias		75.63	0.00	64.89	53.57	37.23	54.55	15.56	41.49	40.21	26.76	30.23	35.35
Median effect size		0.04	0.04	0.06	0.07	0.06	0.03	0.05	0.04	0.04	0.08	0.06	0.06
After imputation													
Percentage difference between pre- and post-imputation means ¹		11.98*	‡	15.38*	13.67*	10.48*	7.36*	10.43*	8.50*	8.40*	35.85*	31.02*	12.78*
Effect size for difference ²		0.16	‡	‡	‡	‡	0.11	‡	‡	‡	‡	0.34	0.17
HOMELESS	Homeless or at risk of homelessness												
Before imputation													
Mean percent relative bias across characteristics		11.53	12.39	11.98	13.07	12.69	12.00	10.22	12.77	12.50	12.08	13.24	12.09
Median percent relative bias across characteristics		8.38	10.74	6.04	10.10	7.36	5.65	6.97	8.67	7.86	7.87	8.26	9.22
Percentage of characteristics with significant bias		79.83	39.39	68.04	46.74	55.10	63.11	27.14	68.00	57.43	39.24	43.82	33.98
Median effect size		0.10	0.13	0.09	0.09	0.09	0.08	0.10	0.09	0.09	0.10	0.10	0.11
After imputation													
Percentage difference between pre- and post-imputation means ¹		3.23*	4.74*	2.87*	1.70	3.30*	1.95*	1.02	1.42*	1.38*	3.59*	4.20*	4.24*
Effect size for difference ²		0.05	‡	0.05	0.03	0.06	0.04	0.01	0.03	0.03	0.05	0.05	0.06

See notes at end of table.

Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution: 2015–16—Continued

Variable	Variable label	Overall	Public less-than-2-year	Public 2-year	Public 4-year non-doctorate-granting primarily subbaccalaureate	Public 4-year non-doctorate-granting primarily baccalaureate	Public 4-year doctorate-granting	Private nonprofit less-than-4-year	Private nonprofit 4-year non-doctorate-granting	Private nonprofit 4-year doctorate-granting	Public less-than-2-year	Private for-profit 2-year	Private for-profit 4-year
HOMESTUD	Student owns home or pays mortgage												
Before imputation													
Mean percent relative bias across characteristics		10.32	11.20	9.77	14.29	8.84	8.77	11.73	8.91	11.13	14.32	13.30	13.96
Median percent relative bias across characteristics		5.65	9.30	3.90	8.79	4.64	5.67	8.47	4.82	6.94	10.16	7.32	9.60
Percentage of characteristics with significant bias		68.91	21.74	48.45	30.85	25.00	50.48	22.22	31.68	42.72	10.84	29.67	36.54
Median effect size		0.07	0.16	0.04	0.07	0.05	0.06	0.09	0.06	0.07	0.07	0.11	0.11
After imputation													
Percentage difference between pre- and post-imputation means ¹		1.71*	1.59	0.14	3.20	1.78	3.05*	8.79*	8.27*	1.77	7.19*	5.63*	1.02
Effect size for difference ²		0.02	‡	#	0.04	0.02	0.04	0.11	0.09	0.02	0.11	0.08	0.01
HSCRDAP	Took AP courses while in high school												
Before imputation													
Mean percent relative bias across characteristics		11.37	13.25	11.10	16.36	12.45	10.12	11.19	10.83	13.09	13.87	14.15	20.77
Median percent relative bias across characteristics		7.61	12.95	5.25	12.00	7.50	4.85	8.12	6.02	8.52	8.53	8.72	15.91
Percentage of characteristics with significant bias		72.81	27.50	51.06	34.44	41.05	47.47	11.94	48.42	37.89	12.99	28.41	28.57
Median effect size		0.10	0.20	0.05	0.08	0.09	0.06	0.10	0.09	0.08	0.10	0.12	0.21
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.68	6.09	2.13*	1.76	1.08	0.08	6.46	2.25	5.09*	20.20*	12.89*	2.45
Effect size for difference ²		0.01	0.07	0.02	0.02	0.01	#	0.07	0.02	0.05	0.21	0.13	0.03

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
HSCRD COL	Took college-level courses while in high school												
Before imputation													
Mean percent relative bias across characteristics		11.37	13.25	11.09	16.36	12.45	10.12	11.19	10.86	13.12	13.85	14.18	20.77
Median percent relative bias across characteristics		7.61	12.95	5.20	12.00	7.50	4.85	8.12	6.17	8.56	8.42	8.73	15.91
Percentage of characteristics with significant bias		73.68	27.50	50.00	34.44	41.05	47.47	11.94	48.42	38.95	13.16	27.27	28.57
Median effect size		0.10	0.20	0.05	0.08	0.09	0.06	0.10	0.09	0.08	0.10	0.12	0.21
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.53	11.23*	1.80*	1.91	2.84	1.14	6.75	0.25	0.45	7.66*	6.48*	0.60
Effect size for difference ²		0.01	0.13	0.02	0.02	0.03	0.01	0.08	#	#	0.09	0.08	0.01
HSCRD IB	Took IB courses while in high school												
Before imputation													
Mean percent relative bias across characteristics		11.37	13.25	11.09	16.36	12.45	10.12	11.19	10.83	13.07	13.85	14.19	20.76
Median percent relative bias across characteristics		7.62	12.95	5.21	12.00	7.50	4.84	8.12	6.02	8.47	8.42	8.71	15.91
Percentage of characteristics with significant bias		72.81	27.50	52.13	34.44	41.05	47.47	11.94	48.42	37.89	13.16	28.41	28.57
Median effect size		0.10	0.20	0.05	0.08	0.09	0.06	0.10	0.09	0.08	0.10	0.12	0.21
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.28	3.86*	0.87*	1.00	0.29	0.32	1.59*	0.17	1.10	4.22*	2.93*	0.39
Effect size for difference ²		0.01	‡	0.03	0.03	0.01	0.01	‡	#	0.03	0.10	0.07	0.01

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
HSDEG	High school degree type												
Before imputation													
Mean percent relative bias across characteristics		6.02	5.02	6.77	6.87	5.88	6.40	3.79	6.92	9.17	6.12	5.29	9.66
Median percent relative bias across characteristics		2.94	2.74	3.35	4.07	4.12	3.19	3.09	4.04	4.15	2.66	2.50	6.23
Percentage of characteristics with significant bias		54.31	37.50	50.52	31.71	34.09	42.27	14.81	48.39	34.04	10.00	27.38	27.37
Median effect size		0.03	0.04	0.05	0.06	0.05	0.04	0.03	0.05	0.07	0.04	0.05	0.11
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.25	‡	0.53*	0.07	0.17	0.04	0.94	0.25	0.62	1.37*	1.01*	0.34
Effect size for difference ²		‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
HSGPA	Grade point average in high school												
Before imputation													
Mean percent relative bias across characteristics		14.65	8.88	11.39	12.62	12.70	9.87	10.39	14.13	13.96	16.11	13.59	22.15
Median percent relative bias across characteristics		10.44	5.94	6.95	9.08	7.09	4.76	8.22	10.17	7.35	12.06	7.33	18.61
Percentage of characteristics with significant bias		82.61	34.78	65.63	45.45	52.69	63.54	10.77	71.28	60.87	34.21	30.68	39.80
Median effect size		0.11	0.10	0.09	0.09	0.10	0.06	0.08	0.10	0.09	0.13	0.10	0.22
After imputation													
Percentage difference between pre- and post-imputation means ¹		5.94*	8.27	0.64	3.35	4.91*	3.88*	12.25	7.14*	7.74*	24.75*	25.51*	2.11
Effect size for difference ²		0.07	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	0.05

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
HSGRADYM	High school graduation year and month												
Before imputation													
Mean percent relative bias across characteristics		9.20	8.18	7.90	10.72	8.26	6.98	9.58	7.63	10.18	11.54	9.11	11.91
Median percent relative bias across characteristics		5.69	8.08	3.19	7.17	5.41	3.35	5.70	4.60	6.29	7.59	5.57	6.43
Percentage of characteristics with significant bias		76.72	4.44	48.45	31.18	36.46	47.00	6.85	50.52	38.78	14.63	29.21	31.68
Median effect size		0.07	0.14	0.04	0.06	0.06	0.05	0.06	0.06	0.06	0.07	0.07	0.09
After imputation													
Percentage difference between pre- and post-imputation means ¹		#	0.06	0.01	0.02	#	#	0.02	#	#	0.03	#	0.02
Effect size for difference ²		#	0.13	0.02	0.04	0.01	#	0.03	0.01	#	0.06	0.01	0.05
HSGRADYY	High school graduation year												
Before imputation													
Mean percent relative bias across characteristics		6.11	7.80	5.95	5.80	7.69	6.89	4.34	8.27	8.79	6.41	6.99	10.88
Median percent relative bias across characteristics		2.91	3.72	2.82	2.87	4.33	3.26	2.65	4.09	4.26	3.16	4.65	6.62
Percentage of characteristics with significant bias		62.07	4.76	56.99	35.00	48.31	50.52	7.69	51.11	43.48	12.12	30.23	21.05
Median effect size		0.04	0.08	0.04	0.05	0.06	0.04	0.05	0.06	0.06	0.04	0.06	0.12
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.01*	0.02	#	#	0.01	0.01	#	0.02	0.01	#	0.01	0.01
Effect size for difference ²		0.01	0.05	#	0.01	0.03	0.03	0.01	0.05	0.04	#	0.02	0.01

See notes at end of table.

Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution: 2015–16—Continued

Variable	Variable label	Overall	Public less-than-2-year	Public 2-year	Public 4-year non-doctorate-granting primarily subbaccalaureate	Public 4-year non-doctorate-granting primarily baccalaureate	Public 4-year doctorate-granting	Private nonprofit less-than-4-year	Private nonprofit 4-year non-doctorate-granting	Private nonprofit 4-year doctorate-granting	Public less-than-2-year	Private for-profit 2-year	Private for-profit 4-year
HSTYPE	Type of high school attended												
Before imputation													
Mean percent relative bias across characteristics		11.15	11.55	10.84	14.47	12.22	10.33	12.08	10.80	13.24	12.54	15.51	15.07
Median percent relative bias across characteristics		7.17	8.42	5.56	9.07	8.77	4.61	9.11	6.36	8.26	8.87	7.89	9.34
Percentage of characteristics with significant bias		78.26	16.67	51.02	31.18	44.33	48.51	13.89	55.10	38.00	8.75	26.67	27.72
Median effect size		0.10	0.17	0.05	0.09	0.09	0.07	0.10	0.08	0.08	0.06	0.11	0.11
After imputation													
Percentage difference between pre- and post-imputation means ¹		1.56*	7.45*	2.11*	5.48*	1.15	1.04*	2.51	2.98*	2.97*	13.73*	8.53*	1.18
Effect size for difference ²		‡	‡	‡	‡	‡	‡	‡	0.10	‡	‡	‡	‡
IMMAGE	Age when arrived in the United States												
Before imputation													
Mean percent relative bias across characteristics		19.26	‡	25.15	29.56	18.95	17.38	19.84	16.45	17.58	29.09	22.09	37.86
Median percent relative bias across characteristics		11.58	‡	18.00	23.22	13.09	11.14	13.84	10.57	10.57	21.86	20.29	26.72
Percentage of characteristics with significant bias		62.39	‡	50.54	32.47	19.75	45.45	9.38	25.00	29.03	28.57	27.27	34.34
Median effect size		0.16	‡	0.12	0.19	0.17	0.13	0.18	0.14	0.12	0.35	0.20	0.33
After imputation													
Percentage difference between pre- and post-imputation means ¹		5.29*	‡	6.21*	15.89*	1.95	5.59*	2.45	1.98	1.57	6.84	24.01*	6.17*
Effect size for difference ²		0.09	‡	0.10	0.25	0.03	0.11	0.06	0.04	0.03	0.12	0.36	0.11

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
INATHAMT	Athletic scholarships												
Before imputation													
Mean percent relative bias across characteristics		9.23	4.18	10.81	8.56	19.00	13.05	17.15	6.39	7.40	11.00	9.01	15.72
Median percent relative bias across characteristics		5.16	4.52	4.78	5.07	14.78	5.28	12.38	2.79	3.30	5.64	3.30	10.14
Percentage of characteristics with significant bias		52.14	0.00	48.48	22.50	45.45	43.88	0.00	17.44	32.94	4.41	13.10	32.98
Median effect size		0.06	0.08	0.06	0.06	0.15	0.07	0.15	0.03	0.06	0.05	0.05	0.15
After imputation													
Percentage difference between pre- and post-imputation means ¹		2.12	‡	2.30	0.54	15.27	1.67	100.00	0.65	5.61	100.00	#	78.52
Effect size for difference ²		#	‡	#	#	0.01	#	0.03	#	0.01	0.02	‡	0.01
INCOME	Income and dependency in 2014												
Before imputation													
Mean percent relative bias across characteristics		17.54	12.16	19.86	11.90	8.22	11.71	7.46	9.44	13.88	7.04	6.71	14.88
Median percent relative bias across characteristics		6.66	9.44	7.28	7.16	3.60	5.19	3.29	5.51	7.83	2.78	2.24	10.80
Percentage of characteristics with significant bias		71.43	29.41	66.67	40.58	38.36	55.56	17.24	44.44	52.70	17.02	23.64	19.48
Median effect size		0.08	0.10	0.07	0.10	0.08	0.08	0.06	0.08	0.12	0.05	0.04	0.16
After imputation													
Percentage difference between pre- and post-imputation means ¹		12.10*	‡	16.74*	19.38*	8.97*	11.07*	‡	10.49*	11.43*	5.57*	7.87*	9.00*
Effect size for difference ²		0.16	‡	0.22	‡	‡	0.14	‡	‡	‡	‡	‡	‡

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
INCOME		Income level in 2014											
Before imputation													
Mean percent relative bias across characteristics		17.56	†	†	22.13	17.17	16.02	†	17.07	16.17	†	†	10.08
Median percent relative bias across characteristics		8.94	†	†	24.00	8.14	8.01	†	12.56	10.45	†	†	6.04
Percentage of characteristics with significant bias		55.71	†	†	0.00	22.22	50.00	†	33.96	47.37	†	†	16.36
Median effect size		0.11	†	†	1.00	0.16	0.12	†	0.14	0.12	†	†	0.07
After imputation													
Percentage difference between pre- and post-imputation means ¹		16.98*	†	†	‡	27.13*	20.43*	†	20.70*	19.11*	†	†	7.93*
Effect size for difference ²		0.22	†	†	‡	‡	0.28	†	0.24	0.23	†	†	0.10
INGRTAMT		Institutional grants											
Before imputation													
Mean percent relative bias across characteristics		8.04	4.18	10.15	8.43	18.19	10.07	15.72	6.47	6.91	11.15	9.06	13.98
Median percent relative bias across characteristics		4.35	4.52	4.70	5.01	14.18	4.07	10.58	2.86	3.63	5.52	3.26	9.62
Percentage of characteristics with significant bias		47.06	0.00	46.46	23.46	45.65	39.00	0.00	19.35	26.04	5.88	13.10	23.47
Median effect size		0.05	0.08	0.06	0.07	0.14	0.05	0.16	0.03	0.05	0.05	0.05	0.13
After imputation													
Percentage difference between pre- and post-imputation means ¹		1.71	‡	20.15*	20.02*	16.42*	0.44	28.81	1.32	4.17	52.41*	11.67	3.40
Effect size for difference ²		0.01	‡	0.03	0.04	0.06	#	0.07	0.01	0.03	0.08	0.02	0.01

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
INSMILAMT	Institution military/armed forces grants												
Before imputation													
Mean percent relative bias across characteristics		8.57	4.18	10.81	8.43	18.19	10.75	17.15	6.14	7.72	9.91	9.94	14.84
Median percent relative bias across characteristics		4.06	4.52	4.78	5.01	14.07	4.00	12.38	2.77	3.55	5.73	3.27	9.99
Percentage of characteristics with significant bias		48.33	0.00	48.48	22.22	43.48	42.57	0.00	17.78	28.87	4.48	14.12	25.25
Median effect size		0.05	0.08	0.06	0.06	0.14	0.05	0.15	0.03	0.05	0.05	0.05	0.13
After imputation													
Percentage difference between pre- and post-imputation means ¹		7.20	‡	21.70	16.47	21.56	8.62	#	5.80	31.82	7.05	10.37	8.56
Effect size for difference ²		#	‡	#	#	#	#	‡	#	0.01	#	0.01	0.01
INSTAMT	Institutional aid total												
Before imputation													
Mean percent relative bias across characteristics		8.04	4.18	10.15	8.43	18.19	10.07	15.72	6.47	6.90	11.15	9.06	13.98
Median percent relative bias across characteristics		4.35	4.52	4.70	5.01	14.18	4.07	10.58	2.82	3.63	5.52	3.26	9.62
Percentage of characteristics with significant bias		47.06	0.00	46.46	23.46	45.65	39.00	0.00	19.35	26.04	5.88	13.10	23.47
Median effect size		0.05	0.08	0.06	0.07	0.14	0.05	0.16	0.03	0.05	0.05	0.05	0.13
After imputation													
Percentage difference between pre- and post-imputation means ¹		1.80	‡	20.11*	20.59*	15.80*	0.86	25.16	1.07	4.55	53.49*	10.28	3.26
Effect size for difference ²		0.01	‡	0.03	0.04	0.05	#	0.07	0.01	0.03	0.09	0.02	0.01

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbacca- laureate	Public 4-year non- doctorate- granting primarily bacca- laureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
INSTCATGRT	Institutional categorical grants												
Before imputation													
Mean percent relative bias across characteristics		9.22	3.88	10.81	8.56	19.86	13.02	17.30	6.36	7.47	11.00	9.01	15.70
Median percent relative bias across characteristics		4.96	4.25	4.83	5.07	14.75	5.18	12.68	2.78	3.50	5.64	3.31	10.12
Percentage of characteristics with significant bias		51.28	0.00	48.48	22.50	46.07	42.86	0.00	19.77	32.56	4.41	13.10	34.04
Median effect size		0.06	0.07	0.06	0.06	0.16	0.07	0.15	0.03	0.06	0.05	0.05	0.15
After imputation													
Percentage difference between pre- and post- imputation means ¹		0.81	‡	4.95	40.74	20.45	7.26	2.45	0.83	3.68	39.79*	8.97	15.96*
Effect size for difference ²		#	‡	#	0.04	0.02	0.01	#	#	0.01	0.03	0.01	0.04
INSTNEED	Institutional need-based grants												
Before imputation													
Mean percent relative bias across characteristics		9.22	4.18	10.88	9.59	19.01	12.97	17.42	6.42	6.91	9.84	8.88	15.71
Median percent relative bias across characteristics		4.95	4.52	4.77	5.52	14.89	5.06	9.47	2.81	3.31	4.56	3.03	10.20
Percentage of characteristics with significant bias		52.99	0.00	48.48	23.46	43.18	42.86	0.00	16.47	37.35	4.55	13.25	32.98
Median effect size		0.06	0.08	0.06	0.07	0.15	0.07	0.13	0.03	0.06	0.05	0.04	0.15
After imputation													
Percentage difference between pre- and post- imputation means ¹		7.27*	‡	10.24	8.11	13.45	2.89	9.76	3.37	0.89	27.64	0.32	6.27
Effect size for difference ²		0.01	‡	0.01	0.01	0.03	0.01	0.02	0.01	#	0.03	#	0.02

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
INSTWRK Institutional work-study													
Before imputation													
Mean percent relative bias across characteristics		6.36	‡	7.58	6.63	11.62	8.45	5.41	6.02	6.90	8.38	7.08	11.37
Median percent relative bias across characteristics		2.74	‡	3.12	3.09	7.07	3.44	2.55	2.14	3.59	3.76	2.55	7.06
Percentage of characteristics with significant bias		47.46	‡	51.58	30.77	46.59	44.55	8.57	25.29	33.68	9.23	18.07	26.26
Median effect size		0.03	‡	0.05	0.05	0.08	0.05	0.04	0.03	0.05	0.04	0.04	0.12
After imputation													
Percentage difference between pre- and post-imputation means ¹		2.30	‡	8.49	5.65	17.67	3.31	#	2.91	5.23	100.00	100.00	#
Effect size for difference ²		#	‡	#	#	#	#	‡	#	#	0.02	0.02	‡
INSVETAMT Institution Veterans' education benefits													
Before imputation													
Mean percent relative bias across characteristics		8.58	4.18	10.81	8.43	18.19	10.75	17.15	6.14	7.72	11.00	9.01	14.84
Median percent relative bias across characteristics		4.07	4.52	4.78	5.01	14.06	3.99	12.38	2.77	3.55	5.64	3.30	10.04
Percentage of characteristics with significant bias		48.33	0.00	48.48	22.22	43.48	42.57	0.00	17.78	28.87	4.41	13.10	25.25
Median effect size		0.05	0.08	0.06	0.06	0.14	0.05	0.15	0.03	0.05	0.05	0.05	0.13
After imputation													
Percentage difference between pre- and post-imputation means ¹		3.63	‡	21.70	16.47	15.27	16.08	#	3.71	11.21	8.37	37.68	15.94
Effect size for difference ²		#	‡	#	#	#	#	‡	#	#	#	0.01	0.01

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbacca- laureate	Public 4-year non- doctorate- granting primarily bacca- laureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
ISTUINC	Independent students: income												
Before imputation													
Mean percent relative bias across characteristics		22.17	18.11	15.27	15.83	14.27	17.77	10.01	13.82	18.27	9.51	8.34	14.37
Median percent relative bias across characteristics		11.76	13.82	10.05	10.75	8.20	10.92	5.50	9.61	11.84	4.51	3.08	9.95
Percentage of characteristics with significant bias		66.38	38.46	68.00	42.25	32.88	58.54	29.17	43.84	42.11	20.00	29.09	21.35
Median effect size		0.12	0.12	0.13	0.14	0.14	0.13	0.07	0.12	0.15	0.07	0.05	0.12
After imputation													
Percentage difference between pre- and post- imputation means ¹		24.04*	16.67*	26.80*	31.00*	26.02*	26.31*	9.32	23.32*	24.92*	12.52*	14.49*	12.81*
Effect size for difference ²		0.16	0.16	0.25	0.22	0.24	0.17	0.06	0.20	0.21	0.10	0.12	0.05
ISTUINCX	Independent students: income (categorical)												
Before imputation													
Mean percent relative bias across characteristics		11.49	13.66	10.23	9.82	9.07	9.04	7.39	7.00	8.54	6.65	5.91	8.92
Median percent relative bias across characteristics		5.69	8.17	6.05	6.15	5.12	5.18	5.49	4.96	4.41	2.90	2.61	5.26
Percentage of characteristics with significant bias		66.96	40.00	57.53	39.68	31.34	59.26	69.23	43.28	36.99	26.83	23.08	17.86
Median effect size		0.06	0.11	0.09	0.11	0.10	0.08	0.04	0.06	0.07	0.05	0.05	0.06
After imputation													
Percentage difference between pre- and post- imputation means ¹		4.48*	‡	5.92*	7.26*	4.20*	2.73*	‡	4.75*	3.53*	5.67*	50.89*	2.40*
Effect size for difference ²		0.06	‡	0.09	‡	‡	0.03	‡	0.06	0.04	‡	‡	0.03

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
JOBEARN1	Job 1: earnings rate per hour												
Before imputation													
Mean percent relative bias across characteristics		11.41	8.58	10.76	14.53	11.21	8.83	12.56	10.82	11.03	15.08	14.68	14.07
Median percent relative bias across characteristics		6.72	7.74	5.39	8.99	7.18	5.10	7.51	6.99	5.76	10.15	8.37	8.98
Percentage of characteristics with significant bias		71.43	2.17	47.42	30.85	36.73	47.12	15.49	40.20	38.83	12.35	26.97	31.07
Median effect size		0.09	0.13	0.05	0.09	0.07	0.05	0.10	0.07	0.06	0.10	0.10	0.12
After imputation													
Percentage difference between pre- and post-imputation means ¹		1.24*	2.74	1.48	0.32	0.96	2.69*	15.60*	1.07	0.09	15.72*	25.24*	1.74
Effect size for difference ²		0.01	0.06	0.02	0.01	0.01	0.03	0.20	0.01	#	0.25	0.31	0.02
JOBEARN2	Job 2: earnings rate per hour												
Before imputation													
Mean percent relative bias across characteristics		18.76	10.42	21.41	19.80	18.20	15.59	15.05	17.06	16.02	18.49	18.03	31.11
Median percent relative bias across characteristics		13.50	5.60	14.14	13.93	13.09	8.76	10.31	13.56	12.02	10.36	12.31	24.64
Percentage of characteristics with significant bias		70.34	18.75	52.69	22.62	30.77	40.40	15.00	42.39	39.78	16.90	33.77	23.47
Median effect size		0.17	0.21	0.13	0.14	0.19	0.10	0.13	0.14	0.12	0.19	0.17	0.23
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.24	13.01	1.99	5.50	2.41	1.87	13.90*	5.39	1.67	2.06	9.43*	1.94
Effect size for difference ²		#	0.26	0.03	0.05	0.02	0.03	0.21	0.05	0.02	0.03	0.15	0.02

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
JOBEARN3	Job 3: earnings rate per hour												
Before imputation													
Mean percent relative bias across characteristics		53.71	‡	56.05	37.39	43.66	45.16	‡	39.57	40.97	33.29	34.09	115.41
Median percent relative bias across characteristics		35.40	‡	29.03	25.85	29.46	23.55	‡	33.83	35.80	31.25	26.95	54.66
Percentage of characteristics with significant bias		64.66	‡	47.37	15.25	49.15	42.86	‡	48.72	42.86	20.51	25.93	32.14
Median effect size		0.41	‡	0.40	0.38	0.58	0.26	‡	0.39	0.32	0.43	0.28	0.73
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.62	‡	0.02	7.10	3.03	2.42	‡	0.87	2.94	4.84	15.22*	1.50
Effect size for difference ²		0.01	‡	#	0.09	0.05	0.04	‡	0.01	0.04	0.08	0.27	0.02
JOBEARN4	Job 4: earnings rate per hour												
Before imputation													
Mean percent relative bias across characteristics		132.12	‡	55.42	113.70	82.84	85.72	‡	65.70	82.10	‡	‡	152.98
Median percent relative bias across characteristics		45.73	‡	31.78	69.47	63.64	40.04	‡	57.65	48.18	‡	‡	57.72
Percentage of characteristics with significant bias		53.21	‡	29.03	28.57	36.36	36.84	‡	42.86	40.00	‡	‡	20.27
Median effect size		0.58	‡	0.46	0.87	1.15	0.55	‡	0.87	0.81	‡	‡	1.07
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.28	‡	‡	‡	‡	7.33	‡	‡	13.33	‡	‡	19.36
Effect size for difference ²		#	‡	‡	‡	‡	0.08	‡	‡	0.12	‡	‡	0.28

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
JOBEARN5		Job 5: earnings rate per hour											
Before imputation													
Mean percent relative bias across characteristics		219.11	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Median percent relative bias across characteristics		47.71	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of characteristics with significant bias		33.33	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Median effect size		0.74	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
After imputation													
Percentage difference between pre- and post-imputation means ¹		‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Effect size for difference ²		‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
JOBENR1		Job 1: worked while enrolled in school											
Before imputation													
Mean percent relative bias across characteristics		11.35	8.78	10.57	14.28	11.13	8.49	11.88	10.52	10.74	14.64	14.47	14.21
Median percent relative bias across characteristics		6.55	6.74	5.36	8.92	6.56	4.71	6.97	6.69	5.41	9.51	8.66	8.85
Percentage of characteristics with significant bias		72.27	4.35	47.42	30.85	35.71	47.57	15.49	41.18	40.78	12.35	26.97	33.01
Median effect size		0.09	0.15	0.05	0.08	0.08	0.05	0.09	0.07	0.07	0.09	0.10	0.12
After imputation													
Percentage difference between pre- and post-imputation means ¹		1.03*	10.59	0.73	7.85*	7.46*	1.08	16.60*	0.15	1.91	22.22*	13.23*	0.91
Effect size for difference ²		0.01	0.11	0.01	0.09	0.08	0.01	0.21	#	0.02	0.26	0.16	0.01

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
JOBNR2	Job 2: worked while enrolled in school												
Before imputation													
Mean percent relative bias across characteristics		18.84	9.15	21.61	18.36	18.31	15.48	15.05	17.53	15.64	18.24	17.82	30.66
Median percent relative bias across characteristics		13.61	5.37	13.19	12.20	12.66	8.55	10.52	12.42	10.79	9.83	12.99	25.98
Percentage of characteristics with significant bias		70.34	12.50	51.61	23.17	35.56	41.41	7.50	44.09	41.76	18.57	36.36	25.51
Median effect size		0.17	0.20	0.13	0.15	0.19	0.10	0.15	0.14	0.11	0.20	0.17	0.24
After imputation													
Percentage difference between pre- and post-imputation means ¹		1.03	29.65	2.03	15.75*	6.26	0.79	9.35	0.47	3.53	17.66*	4.78	3.76
Effect size for difference ²		0.01	‡	0.02	0.17	0.07	0.01	0.09	#	0.04	0.19	0.05	0.04
JOBNR3	Job 3: worked while enrolled in school												
Before imputation													
Mean percent relative bias across characteristics		53.63	‡	51.59	36.73	43.75	43.13	‡	37.91	41.50	32.00	35.27	114.76
Median percent relative bias across characteristics		36.75	‡	26.63	20.89	31.46	22.69	‡	30.06	34.76	24.43	25.82	52.19
Percentage of characteristics with significant bias		65.52	‡	46.67	12.07	50.85	44.44	‡	50.00	42.86	12.82	28.85	32.53
Median effect size		0.41	‡	0.39	0.42	0.60	0.28	‡	0.37	0.30	0.43	0.29	0.72
After imputation													
Percentage difference between pre- and post-imputation means ¹		2.42	‡	6.35	7.76	2.60	0.90	‡	2.87	3.80	25.01	10.86	6.15
Effect size for difference ²		0.03	‡	0.07	0.08	‡	0.01	‡	0.03	0.04	‡	‡	‡

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbacca- laureate	Public 4-year non- doctorate- granting primarily bacca- laureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
JOBENR4	Job 4: worked while enrolled in school												
Before imputation													
Mean percent relative bias across characteristics		132.14	‡	55.42	94.96	79.24	84.78	‡	65.70	85.22	‡	‡	153.03
Median percent relative bias across characteristics		44.06	‡	31.78	48.06	59.53	40.52	‡	57.65	54.91	‡	‡	57.48
Percentage of characteristics with significant bias		54.13	‡	29.03	22.00	48.00	35.53	‡	42.86	39.34	‡	‡	20.27
Median effect size		0.57	‡	0.46	1.01	1.11	0.55	‡	0.87	0.82	‡	‡	1.10
After imputation													
Percentage difference between pre- and post- imputation means ¹		6.80	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	12.44
Effect size for difference ²		0.07	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
JOBENR5	Job 5: worked while enrolled in school												
Before imputation													
Mean percent relative bias across characteristics		219.11	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Median percent relative bias across characteristics		47.71	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of characteristics with significant bias		33.33	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Median effect size		0.74	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
After imputation													
Percentage difference between pre- and post- imputation means ¹		‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Effect size for difference ²		‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
JOBHOUR1	Job 1: hours worked per week												
Before imputation													
Mean percent relative bias across characteristics		11.37	8.84	10.65	14.31	11.10	8.52	12.34	10.45	10.76	14.75	14.49	14.22
Median percent relative bias across characteristics		6.46	6.58	5.30	9.08	6.94	4.92	6.97	6.58	5.38	9.78	8.46	8.93
Percentage of characteristics with significant bias		72.27	2.17	47.42	30.85	36.73	47.57	18.31	41.18	41.75	12.35	28.09	32.04
Median effect size		0.09	0.16	0.05	0.08	0.08	0.05	0.09	0.07	0.07	0.10	0.10	0.12
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.40	6.72	1.13*	5.45*	2.45*	1.44*	0.93	2.02*	0.90	0.71	1.86	0.02
Effect size for difference ²		0.01	0.15	0.03	0.14	0.05	0.03	0.02	0.04	0.02	0.01	0.05	#
JOBHOUR2	Job 2: hours worked per week												
Before imputation													
Mean percent relative bias across characteristics		18.99	11.32	21.76	19.17	18.46	15.54	14.80	17.96	15.75	18.24	17.79	29.31
Median percent relative bias across characteristics		14.23	9.43	13.33	13.42	12.19	8.57	10.35	12.73	10.74	9.90	12.64	24.10
Percentage of characteristics with significant bias		68.64	6.25	53.76	23.81	33.33	42.42	14.63	48.39	42.86	18.57	36.84	24.49
Median effect size		0.17	0.21	0.13	0.15	0.19	0.10	0.14	0.15	0.12	0.19	0.17	0.24
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.70	11.64	1.22	8.52*	0.68	0.30	10.63	0.11	1.58	4.79	9.44*	0.14
Effect size for difference ²		0.01	0.22	0.02	0.15	0.01	#	0.18	#	0.02	0.09	0.17	#

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
JOBHOUR3	Job 3: hours worked per week												
Before imputation													
Mean percent relative bias across characteristics		54.10	‡	51.59	39.27	43.98	43.39	‡	39.55	41.18	32.00	35.27	115.45
Median percent relative bias across characteristics		34.24	‡	26.63	26.81	31.49	22.04	‡	32.66	33.10	24.43	25.82	52.56
Percentage of characteristics with significant bias		65.52	‡	46.67	15.25	50.85	43.96	‡	50.65	44.16	12.82	28.85	31.33
Median effect size		0.41	‡	0.39	0.45	0.60	0.30	‡	0.36	0.31	0.43	0.29	0.73
After imputation													
Percentage difference between pre- and post-imputation means ¹		1.11	‡	5.74	24.79*	3.47	1.04	‡	0.46	0.08	1.24	17.41*	2.57
Effect size for difference ²		0.02	‡	0.09	0.35	0.05	0.02	‡	0.01	#	0.02	0.30	0.05
JOBHOUR4	Job 4: hours worked per week												
Before imputation													
Mean percent relative bias across characteristics		132.97	‡	55.42	96.63	79.24	86.90	‡	65.70	85.24	‡	‡	153.03
Median percent relative bias across characteristics		45.40	‡	31.78	48.24	59.53	41.86	‡	57.65	52.86	‡	‡	57.48
Percentage of characteristics with significant bias		55.05	‡	29.03	22.00	48.00	38.16	‡	42.86	40.00	‡	‡	20.27
Median effect size		0.57	‡	0.46	1.04	1.11	0.54	‡	0.87	0.82	‡	‡	1.10
After imputation													
Percentage difference between pre- and post-imputation means ¹		1.37	‡	‡	‡	‡	0.59	‡	‡	12.82	‡	‡	21.32
Effect size for difference ²		0.02	‡	‡	‡	‡	0.01	‡	‡	0.25	‡	‡	0.39

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbacca- laureate	Public 4-year non- doctorate- granting primarily bacca- laureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
JOBHOURS	Job 5: hours worked per week												
Before imputation													
Mean percent relative bias across characteristics		219.11	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Median percent relative bias across characteristics		47.71	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of characteristics with significant bias		33.33	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Median effect size		0.74	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
After imputation													
Percentage difference between pre- and post- imputation means ¹		‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Effect size for difference ²		‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
JOBMAJOR1	Job 1: job related to major or coursework												
Before imputation													
Mean percent relative bias across characteristics		11.33	8.78	10.52	14.13	11.08	8.48	11.94	10.51	10.79	14.61	14.44	14.25
Median percent relative bias across characteristics		6.63	6.74	4.99	8.61	6.88	4.87	7.14	6.42	5.98	9.13	8.58	8.75
Percentage of characteristics with significant bias		73.11	4.35	47.42	30.85	36.73	47.57	15.49	41.18	40.78	12.35	29.21	33.01
Median effect size		0.09	0.15	0.05	0.08	0.08	0.05	0.09	0.07	0.07	0.10	0.10	0.12
After imputation													
Percentage difference between pre- and post- imputation means ¹		1.48*	24.93*	1.26	7.65*	1.83	1.86*	10.42	0.63	0.05	7.44	15.12*	0.75
Effect size for difference ²		0.01	0.25	0.01	0.08	0.02	0.02	0.10	0.01	#	0.08	0.15	0.01

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
JOBMAJOR2	Job 2: job related to major or coursework												
Before imputation													
Mean percent relative bias across characteristics		18.88	9.15	21.58	18.57	18.34	15.40	15.24	17.41	15.60	18.29	17.96	30.68
Median percent relative bias across characteristics		13.48	5.37	13.13	12.90	12.72	8.06	10.80	12.23	11.19	9.84	12.70	26.02
Percentage of characteristics with significant bias		69.49	12.50	52.69	24.39	34.44	40.40	15.00	44.09	42.86	20.00	36.36	25.51
Median effect size		0.17	0.20	0.13	0.15	0.19	0.10	0.15	0.14	0.12	0.20	0.17	0.24
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.59	11.71	0.40	9.96*	0.51	1.98	23.89*	0.64	2.19	3.36	3.92	0.92
Effect size for difference ²		0.01	‡	#	0.10	0.01	0.02	0.24	0.01	0.02	0.04	0.04	0.01
JOBMAJOR3	Job 3: job related to major or coursework												
Before imputation													
Mean percent relative bias across characteristics		53.73	‡	51.23	35.24	43.65	43.68	‡	37.99	41.52	32.00	35.97	114.40
Median percent relative bias across characteristics		36.91	‡	25.79	25.00	31.44	23.19	‡	30.48	34.81	24.43	26.00	52.12
Percentage of characteristics with significant bias		64.66	‡	46.67	13.79	50.85	43.33	‡	50.00	42.86	12.82	27.78	32.53
Median effect size		0.41	‡	0.40	0.37	0.60	0.27	‡	0.37	0.30	0.43	0.32	0.72
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.29	‡	0.69	0.92	6.27	0.77	‡	8.42	3.94	7.05	0.07	4.34
Effect size for difference ²		#	‡	0.01	‡	‡	0.01	‡	0.09	0.04	‡	‡	0.04

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
JOBMAJOR4	Job 4: job related to major or coursework												
Before imputation													
Mean percent relative bias across characteristics		132.14	‡	55.42	94.96	79.24	84.78	‡	65.70	85.22	‡	‡	153.03
Median percent relative bias across characteristics		44.06	‡	31.78	48.06	59.53	40.52	‡	57.65	54.91	‡	‡	57.48
Percentage of characteristics with significant bias		54.13	‡	29.03	22.00	48.00	35.53	‡	42.86	39.34	‡	‡	20.27
Median effect size		0.57	‡	0.46	1.01	1.11	0.55	‡	0.87	0.82	‡	‡	1.10
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.15	‡	‡	‡	‡	3.30	‡	‡	‡	‡	‡	‡
Effect size for difference ²		#	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
JOBMAJOR5	Job 5: job related to major or coursework												
Before imputation													
Mean percent relative bias across characteristics		219.11	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Median percent relative bias across characteristics		47.71	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of characteristics with significant bias		33.33	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Median effect size		0.74	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
After imputation													
Percentage difference between pre- and post-imputation means ¹		‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Effect size for difference ²		‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
JOBONOFF1	Job 1: job on or off campus												
Before imputation													
Mean percent relative bias across characteristics		12.03	14.90	11.39	14.68	11.39	10.17	16.75	9.76	10.50	17.52	16.66	14.52
Median percent relative bias across characteristics		7.49	15.18	5.25	11.21	7.49	6.29	12.37	6.81	6.13	11.68	10.81	9.46
Percentage of characteristics with significant bias		68.07	36.84	45.36	28.26	36.46	53.92	18.84	36.73	32.00	12.66	36.36	33.98
Median effect size		0.09	0.20	0.06	0.09	0.09	0.07	0.16	0.07	0.08	0.15	0.12	0.13
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.26	0.91	0.72	3.84	1.07	0.69	17.02*	1.16	0.40	22.30*	9.67*	0.60
Effect size for difference ²		#	‡	0.02	0.07	0.02	0.01	0.25	0.01	#	0.33	0.18	0.01
JOBONOFF2	Job 2: job on or off campus												
Before imputation													
Mean percent relative bias across characteristics		21.79	3.46	26.32	20.91	21.59	21.12	20.86	18.91	21.39	22.97	20.43	34.21
Median percent relative bias across characteristics		14.68	3.46	14.68	13.79	16.22	11.65	15.68	16.21	16.24	17.44	12.92	27.37
Percentage of characteristics with significant bias		62.71	0.00	51.09	21.05	34.94	44.33	6.67	41.38	40.45	20.63	24.00	23.47
Median effect size		0.16	0.15	0.15	0.18	0.23	0.14	0.17	0.17	0.21	0.30	0.20	0.30
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.33	‡	1.09	16.86*	1.49	0.72	6.76	2.09	3.88	28.44*	22.64*	0.52
Effect size for difference ²		#	‡	0.02	0.25	0.02	0.01	‡	0.02	0.04	0.38	0.31	0.01

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbacca- laureate	Public 4-year non- doctorate- granting primarily bacca- laureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
JOBONOFF3	Job 3: job on or off campus												
Before imputation													
Mean percent relative bias across characteristics		67.56	‡	48.68	42.06	50.95	56.36	‡	46.76	46.72	43.13	43.44	121.75
Median percent relative bias across characteristics		39.05	‡	23.30	29.11	41.14	26.55	‡	34.21	40.29	39.43	34.79	59.64
Percentage of characteristics with significant bias		63.16	‡	36.62	14.81	49.12	40.91	‡	46.38	43.66	30.30	24.00	27.71
Median effect size		0.45	‡	0.35	0.52	0.76	0.31	‡	0.51	0.44	0.68	0.65	0.68
After imputation													
Percentage difference between pre- and post- imputation means ¹		0.44	‡	2.56	‡	9.82	0.96	‡	1.26	2.54	23.93*	‡	1.53
Effect size for difference ²		0.01	‡	‡	‡	‡	0.01	‡	0.01	0.03	‡	‡	‡
JOBONOFF4	Job 4: job on or off campus												
Before imputation													
Mean percent relative bias across characteristics		177.68	‡	71.96	‡	‡	81.52	‡	68.71	117.06	‡	‡	179.25
Median percent relative bias across characteristics		43.23	‡	31.31	‡	‡	37.89	‡	52.55	58.89	‡	‡	60.74
Percentage of characteristics with significant bias		44.04	‡	25.86	‡	‡	32.00	‡	36.36	39.66	‡	‡	21.62
Median effect size		0.52	‡	0.59	‡	‡	0.58	‡	0.89	1.01	‡	‡	1.03
After imputation													
Percentage difference between pre- and post- imputation means ¹		3.06	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Effect size for difference ²		‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
JOBONOFF5	Job 5: job on or off campus												
Before imputation													
Mean percent relative bias across characteristics		267.62	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Median percent relative bias across characteristics		64.23	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of characteristics with significant bias		25.84	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Median effect size		0.81	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
After imputation													
Percentage difference between pre- and post-imputation means ¹		‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Effect size for difference ²		‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
JOBROLE	Job: primary role as student or employee												
Before imputation													
Mean percent relative bias across characteristics		11.94	11.69	11.22	14.53	11.27	9.97	14.94	9.85	10.70	17.58	16.11	14.31
Median percent relative bias across characteristics		7.17	11.70	5.56	9.30	7.30	6.47	11.05	6.90	6.95	11.07	10.88	9.29
Percentage of characteristics with significant bias		69.75	4.00	46.39	31.18	36.46	51.96	18.57	40.40	38.61	12.50	36.36	33.01
Median effect size		0.09	0.18	0.06	0.09	0.08	0.07	0.13	0.07	0.08	0.13	0.13	0.13
After imputation													
Percentage difference between pre- and post-imputation means ¹		1.84*	11.23	3.89*	4.78*	1.42	4.03*	3.58	0.60	0.25	12.85*	29.75*	0.38
Effect size for difference ²		0.02	0.12	0.04	0.05	0.02	0.05	0.04	0.01	#	0.14	0.30	#

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
JOBWKST1	Job 1: work-study job												
Before imputation													
Mean percent relative bias across characteristics		12.81	14.90	11.47	14.94	12.12	11.33	16.27	10.76	14.19	17.26	16.64	15.94
Median percent relative bias across characteristics		8.38	15.18	5.17	11.31	8.41	6.50	12.20	6.52	9.14	10.69	10.81	10.36
Percentage of characteristics with significant bias		64.66	36.84	45.36	27.47	35.11	47.96	18.84	39.58	39.78	12.66	36.36	28.00
Median effect size		0.11	0.20	0.06	0.10	0.10	0.09	0.15	0.08	0.12	0.14	0.12	0.14
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.13	#	0.46	0.06	0.15	0.42	8.50*	1.53	1.23	13.36*	1.59	0.16
Effect size for difference ²		#	#	0.02	‡	‡	0.01	0.20	0.02	0.02	0.26	0.06	0.01
JOBWKST2	Job 2: work-study job												
Before imputation													
Mean percent relative bias across characteristics		23.64	3.46	26.51	21.46	22.03	21.69	21.00	18.76	28.03	22.96	20.35	43.07
Median percent relative bias across characteristics		18.56	3.46	14.77	15.83	16.82	12.79	15.51	14.27	24.72	18.74	12.84	35.97
Percentage of characteristics with significant bias		57.39	0.00	50.00	21.33	36.84	48.39	16.67	38.10	46.34	20.63	24.00	31.18
Median effect size		0.18	0.15	0.15	0.19	0.24	0.18	0.18	0.16	0.28	0.28	0.19	0.42
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.03	‡	0.45	1.65	0.69	1.58	2.34	1.22	5.98*	17.90*	13.05*	0.08
Effect size for difference ²		#	‡	0.01	‡	‡	0.03	‡	0.01	0.08	0.28	0.22	‡

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
JOBWKST3	Job 3: work-study job												
Before imputation													
Mean percent relative bias across characteristics		72.15	‡	48.68	49.24	55.88	53.90	‡	50.30	45.04	43.13	43.44	142.23
Median percent relative bias across characteristics		40.38	‡	23.30	39.64	47.54	28.73	‡	46.32	41.33	39.43	34.79	70.79
Percentage of characteristics with significant bias		64.22	‡	36.62	22.64	50.94	38.82	‡	50.85	49.18	30.30	24.00	35.90
Median effect size		0.52	‡	0.35	0.58	0.79	0.33	‡	0.56	0.45	0.68	0.65	0.81
After imputation													
Percentage difference between pre- and post-imputation means ¹		1.03	‡	0.05	7.60	4.72	0.01	‡	0.17	1.62	23.32*	‡	0.75
Effect size for difference ²		0.02	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
JOBWKST4	Job 4: work-study job												
Before imputation													
Mean percent relative bias across characteristics		173.72	‡	71.96	‡	‡	83.88	‡	70.73	81.43	‡	‡	211.72
Median percent relative bias across characteristics		45.66	‡	31.31	‡	‡	39.76	‡	54.06	59.58	‡	‡	63.65
Percentage of characteristics with significant bias		47.06	‡	25.86	‡	‡	32.35	‡	36.73	31.11	‡	‡	20.00
Median effect size		0.58	‡	0.59	‡	‡	0.64	‡	0.97	1.00	‡	‡	1.27
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.14	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Effect size for difference ²		‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbacca- laureate	Public 4-year non- doctorate- granting primarily bacca- laureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
JOBWKST5	Job 5: work-study job												
Before imputation													
Mean percent relative bias across characteristics		276.80	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Median percent relative bias across characteristics		65.77	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Percentage of characteristics with significant bias		25.30	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Median effect size		0.83	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
After imputation													
Percentage difference between pre- and post- imputation means ¹		‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
Effect size for difference ²		‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
LNREPAY	Expect help with repaying student loans												
Before imputation													
Mean percent relative bias across characteristics		16.06	15.07	20.03	21.43	14.08	11.44	12.41	13.24	11.00	10.55	12.78	16.91
Median percent relative bias across characteristics		10.91	11.06	11.09	15.54	9.51	5.13	7.53	8.07	7.80	7.84	8.32	12.05
Percentage of characteristics with significant bias		71.43	10.00	54.64	25.00	41.24	50.49	18.31	44.12	40.00	8.86	29.21	32.04
Median effect size		0.13	0.20	0.14	0.16	0.12	0.08	0.11	0.08	0.08	0.09	0.09	0.13
After imputation													
Percentage difference between pre- and post- imputation means ¹		0.17	0.17	2.28	6.30*	2.87	2.31*	1.73	1.90	0.18	1.51	7.66*	0.33
Effect size for difference ²		#	‡	0.03	0.09	0.04	0.03	0.02	0.02	#	0.02	0.11	0.01

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
LOANLIT1	Loan literacy: government can report unpaid debt to credit bureaus												
Before imputation													
Mean percent relative bias across characteristics		10.47	10.86	9.81	13.80	9.68	7.81	11.43	9.58	9.88	14.38	13.14	13.80
Median percent relative bias across characteristics		6.24	10.02	4.41	8.88	6.60	3.75	8.34	5.58	5.17	9.60	7.71	9.16
Percentage of characteristics with significant bias		71.43	22.00	47.42	31.58	33.00	46.67	19.44	47.06	33.65	12.05	28.57	37.50
Median effect size		0.08	0.16	0.05	0.08	0.07	0.05	0.09	0.07	0.06	0.07	0.10	0.11
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.35	1.00	1.66	1.60	1.21	0.14	0.88	1.38	0.03	8.68*	8.14*	0.46
Effect size for difference ²		#	0.01	0.02	0.02	0.01	#	0.01	0.02	#	0.10	0.09	0.01
LOANLIT2	Loan literacy: government can garnish wages for unpaid federal loan debt												
Before imputation													
Mean percent relative bias across characteristics		10.47	10.86	9.81	13.80	9.68	7.81	11.43	9.58	9.88	14.38	13.14	13.80
Median percent relative bias across characteristics		6.24	10.02	4.41	8.88	6.60	3.75	8.34	5.58	5.17	9.60	7.71	9.16
Percentage of characteristics with significant bias		71.43	22.00	47.42	31.58	33.00	46.67	19.44	47.06	33.65	12.05	28.57	37.50
Median effect size		0.08	0.16	0.05	0.08	0.07	0.05	0.09	0.07	0.06	0.07	0.10	0.11
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.69	4.56	2.80*	1.37	1.29	1.60*	4.20	0.05	0.92	9.00*	0.26	1.75
Effect size for difference ²		0.01	0.05	0.03	0.01	0.01	0.02	0.04	#	0.01	0.09	#	0.02

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbacca- laureate	Public 4-year non- doctorate- granting primarily bacca- laureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
LOANLIT3		Loan literacy: government can retain tax refunds, SS for loan debt											
Before imputation													
Mean percent relative bias across characteristics		10.47	10.86	9.81	13.80	9.68	7.81	11.43	9.58	9.88	14.38	13.14	13.80
Median percent relative bias across characteristics		6.24	10.02	4.41	8.88	6.60	3.75	8.34	5.58	5.17	9.60	7.71	9.16
Percentage of characteristics with significant bias		71.43	22.00	47.42	31.58	33.00	46.67	19.44	47.06	33.65	12.05	28.57	37.50
Median effect size		0.08	0.16	0.05	0.08	0.07	0.05	0.09	0.07	0.06	0.07	0.10	0.11
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.81	5.51	2.95*	1.65	1.43	0.44	4.83	1.22	0.31	6.06*	1.84	1.87
Effect size for difference ²		0.01	0.06	0.03	0.02	0.01	#	0.05	0.01	#	0.06	0.02	0.02
LOCALRES		Residence while enrolled											
Before imputation													
Mean percent relative bias across characteristics		9.64	8.46	10.19	11.18	11.46	9.00	9.55	8.81	8.21	9.68	10.42	13.78
Median percent relative bias across characteristics		5.41	4.38	4.69	7.52	7.95	3.02	3.16	4.45	5.27	4.31	4.48	9.46
Percentage of characteristics with significant bias		75.00	33.33	51.55	32.58	47.87	44.90	10.00	46.67	43.96	14.86	26.44	30.21
Median effect size		0.07	0.06	0.07	0.10	0.10	0.06	0.04	0.06	0.06	0.05	0.07	0.17
After imputation													
Percentage difference between pre- and post-imputation means ¹		4.85*	‡	3.66*	3.08	5.64*	2.23*	0.84	3.23*	1.25	1.76	1.89	5.24*
Effect size for difference ²		‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
MAJCHGFQ		Majors: frequency of formally changed											
Before imputation													
Mean percent relative bias across characteristics		13.94	‡	14.55	18.08	11.52	10.11	11.03	9.83	13.70	‡	14.12	14.96
Median percent relative bias across characteristics		10.00	‡	7.74	10.44	7.77	5.66	6.25	6.44	8.93	‡	9.51	9.93
Percentage of characteristics with significant bias		70.80	‡	60.82	34.41	38.54	48.00	19.44	44.90	41.41	‡	31.11	35.00
Median effect size		0.11	‡	0.08	0.10	0.08	0.07	0.10	0.07	0.09	‡	0.11	0.13
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.74	‡	1.41	4.87*	1.29	1.90*	0.06	0.15	0.72	‡	9.56*	0.83
Effect size for difference ²		0.01	‡	0.02	0.09	0.01	0.02	‡	#	0.01	‡	0.15	0.01
MERITNOATH		Institutional merit-only grants except for athletic scholarships											
Before imputation													
Mean percent relative bias across characteristics		9.22	4.18	10.81	8.54	19.00	12.71	20.21	6.40	7.38	10.97	9.80	15.72
Median percent relative bias across characteristics		4.91	4.52	4.92	5.01	14.78	4.93	13.29	3.04	3.72	5.55	3.00	10.14
Percentage of characteristics with significant bias		53.85	0.00	45.45	22.50	45.45	42.86	0.00	18.82	33.33	4.41	13.10	32.98
Median effect size		0.06	0.08	0.06	0.07	0.15	0.07	0.14	0.03	0.06	0.05	0.04	0.15
After imputation													
Percentage difference between pre- and post-imputation means ¹		6.66*	‡	0.18	19.19	25.09*	0.83	26.97	1.75	0.08	60.83	11.24	2.92
Effect size for difference ²		0.02	‡	#	0.03	0.06	#	0.04	0.01	#	0.04	0.01	#

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
MILTYPE	Military service type												
Before imputation													
Mean percent relative bias across characteristics		7.98	7.00	8.85	9.53	6.72	6.91	7.07	6.10	7.78	9.93	8.03	8.25
Median percent relative bias across characteristics		4.72	6.88	3.82	5.44	3.80	2.61	5.04	3.01	4.13	5.40	5.38	5.53
Percentage of characteristics with significant bias		73.95	13.51	53.06	40.00	39.18	55.34	17.14	41.84	45.54	21.25	35.63	35.29
Median effect size		0.06	0.12	0.05	0.06	0.05	0.05	0.07	0.04	0.05	0.09	0.07	0.08
After imputation													
Percentage difference between pre- and post- imputation means ¹		2.38*	3.96*	2.94*	2.98*	1.45*	1.43*	2.85*	1.89*	1.71*	4.44*	5.54*	5.06*
Effect size for difference ²		‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
MILTYPE2	Military service type (for dependency)												
Before imputation													
Mean percent relative bias across characteristics		7.31	6.44	8.36	8.56	7.63	7.86	4.90	7.83	8.07	7.04	6.64	7.15
Median percent relative bias across characteristics		3.79	4.19	3.88	5.23	4.97	3.78	3.87	5.19	4.32	4.26	3.98	4.88
Percentage of characteristics with significant bias		76.47	25.00	65.98	44.94	53.19	63.37	22.58	59.79	54.55	29.33	48.84	27.45
Median effect size		0.06	0.08	0.06	0.06	0.05	0.05	0.05	0.06	0.04	0.07	0.05	0.06
After imputation													
Percentage difference between pre- and post- imputation means ¹		1.24*	2.15*	1.60*	1.36*	0.59*	0.61*	1.63*	0.96*	1.10*	1.90*	2.40*	3.93*
Effect size for difference ²		‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
MNTRENT	Monthly mortgage or rent amount												
Before imputation													
Mean percent relative bias across characteristics		10.43	11.46	9.81	14.48	9.34	8.74	11.45	9.16	11.23	14.26	13.36	13.58
Median percent relative bias across characteristics		5.61	8.82	4.20	8.86	5.43	5.29	7.92	5.01	6.95	9.07	7.94	9.55
Percentage of characteristics with significant bias		71.43	10.42	46.39	28.72	26.00	51.43	18.06	32.67	41.75	10.71	30.77	31.73
Median effect size		0.07	0.16	0.04	0.07	0.06	0.06	0.09	0.06	0.07	0.07	0.11	0.10
After imputation													
Percentage difference between pre- and post-imputation means ¹		3.72*	2.23	0.72	5.12	4.56	5.09*	0.64	5.25*	3.39*	15.86*	9.17*	2.07
Effect size for difference ²		0.03	0.02	0.01	0.04	0.04	0.05	0.01	0.05	0.04	0.14	0.09	0.02
NFEDCUM1	Cumulative non-federal loan amount for undergraduate students												
Before imputation													
Mean percent relative bias across characteristics		8.58	7.97	8.03	10.78	7.44	6.44	11.13	7.34	8.36	13.10	9.70	11.20
Median percent relative bias across characteristics		5.26	7.33	3.08	6.97	4.46	3.15	7.61	3.63	4.08	9.22	5.94	8.04
Percentage of characteristics with significant bias		68.07	13.33	48.45	32.98	31.63	48.57	19.18	41.18	30.77	17.07	27.78	38.46
Median effect size		0.06	0.14	0.04	0.06	0.05	0.05	0.09	0.05	0.05	0.09	0.07	0.08
After imputation													
Percentage difference between pre- and post-imputation means ¹		17.67*	29.64	18.16*	58.37*	16.13*	19.06*	19.84	21.49*	14.66*	70.99*	36.77*	16.28*
Effect size for difference ²		0.04	0.02	0.02	0.10	0.03	0.04	0.04	0.06	0.04	0.16	0.09	0.04

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
NFEDCUM2	Cumulative non-federal loan amount for graduate students												
Before imputation													
Mean percent relative bias across characteristics		6.53	†	†	‡	9.35	6.65	†	10.98	7.16	†	†	10.74
Median percent relative bias across characteristics		3.75	†	†	‡	9.20	3.94	†	9.08	4.87	†	†	6.77
Percentage of characteristics with significant bias		32.94	†	†	‡	15.38	25.68	†	9.86	24.66	†	†	14.86
Median effect size		0.04	†	†	‡	0.10	0.04	†	0.09	0.06	†	†	0.08
After imputation													
Percentage difference between pre- and post-imputation means ¹		20.43*	†	†	‡	17.14	6.36	†	39.06*	25.13*	†	†	47.63*
Effect size for difference ²		0.04	†	†	‡	0.03	0.01	†	0.08	0.06	†	†	0.10
NUMJOB3	Job: number in 2015–16 (including work-study)												
Before imputation													
Mean percent relative bias across characteristics		10.40	10.51	9.90	13.59	9.76	7.85	11.27	9.38	9.85	14.15	13.47	13.77
Median percent relative bias across characteristics		6.26	10.13	4.79	8.66	6.40	3.84	7.93	5.69	5.27	9.99	7.89	9.12
Percentage of characteristics with significant bias		71.43	18.00	48.45	31.58	36.00	46.67	16.67	47.06	34.62	12.05	29.67	37.50
Median effect size		0.08	0.14	0.05	0.07	0.07	0.05	0.09	0.06	0.06	0.07	0.10	0.11
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.58	9.39	1.75	2.68	1.56	1.35	12.64*	1.00	1.37	16.90*	4.54*	0.91
Effect size for difference ²		‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
ORPHAN	Orphan, ward of court, emancipated minor, or in legal guardianship												
Before imputation													
Mean percent relative bias across characteristics		11.28	12.45	11.51	12.49	12.49	11.62	10.22	12.72	12.52	11.81	12.70	12.43
Median percent relative bias across characteristics		7.89	9.64	5.69	9.75	7.32	5.38	6.98	8.64	7.32	6.77	7.61	8.79
Percentage of characteristics with significant bias		80.67	39.39	69.07	47.83	52.04	60.19	28.57	67.00	59.41	36.71	40.91	34.62
Median effect size		0.09	0.14	0.09	0.08	0.09	0.09	0.11	0.10	0.08	0.09	0.09	0.10
After imputation													
Percentage difference between pre- and post-imputation means ¹		2.57*	9.36*	3.24*	5.18*	2.19*	1.93*	9.84*	0.87*	1.70*	2.11	5.17*	0.92*
Effect size for difference ²		0.06	‡	0.07	0.11	0.06	0.05	0.17	0.02	0.04	0.04	0.10	0.02
OTHFDGRT	Other federal grants (not Title IV)												
Before imputation													
Mean percent relative bias across characteristics		8.48	7.86	10.08	7.54	17.23	9.28	15.84	4.52	6.21	13.12	10.79	15.24
Median percent relative bias across characteristics		4.46	7.32	4.31	5.12	12.35	4.30	10.13	2.57	3.86	6.79	3.66	8.81
Percentage of characteristics with significant bias		43.70	0.00	41.41	22.62	41.76	36.00	0.00	16.13	26.32	9.33	11.49	21.21
Median effect size		0.05	0.11	0.06	0.07	0.13	0.05	0.16	0.02	0.06	0.09	0.05	0.18
After imputation													
Percentage difference between pre- and post-imputation means ¹		5.14	‡	17.83	20.88	13.75	0.10	#	32.85	15.96	#	9.07	22.52
Effect size for difference ²		#	‡	0.01	0.01	0.01	#	‡	0.01	0.01	‡	#	#

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
PAGI	Dependent students: parents adjusted gross income												
Before imputation													
Mean percent relative bias across characteristics		14.80	‡	13.21	14.81	8.90	12.10	10.07	13.04	13.38	14.46	9.61	43.20
Median percent relative bias across characteristics		9.11	‡	7.35	10.65	3.94	7.19	6.87	7.38	8.96	9.53	5.30	42.53
Percentage of characteristics with significant bias		77.67	‡	65.28	39.66	34.43	51.95	35.71	42.65	63.49	37.04	31.25	42.65
Median effect size		0.10	‡	0.10	0.14	0.10	0.09	0.09	0.12	0.15	0.17	0.10	0.50
After imputation													
Percentage difference between pre- and post-imputation means ¹		7.13*	‡	9.30*	15.05*	4.31*	7.65*	‡	6.64*	5.34*	4.02	‡	1.50*
Effect size for difference ²		0.06	‡	0.06	0.15	0.05	0.08	‡	0.05	0.05	0.04	‡	0.01
PAR1	Parent type 1 (for parents' highest education)												
Before imputation													
Mean percent relative bias across characteristics		9.08	9.95	8.36	10.93	7.50	7.26	10.98	8.00	8.95	11.45	10.16	10.24
Median percent relative bias across characteristics		5.48	10.06	3.15	5.98	4.91	3.20	7.53	4.55	5.06	7.16	7.10	6.66
Percentage of characteristics with significant bias		72.27	6.25	47.42	28.72	33.67	46.23	19.18	43.14	35.58	10.98	30.34	30.77
Median effect size		0.06	0.15	0.04	0.05	0.05	0.05	0.08	0.05	0.05	0.07	0.08	0.08
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.32	2.21	0.12	1.84	0.79	0.23	3.45	1.32	0.80	1.62	0.25	0.33
Effect size for difference ²		‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
PAR2	Parent type 2 (for parents' highest education)												
Before imputation													
Mean percent relative bias across characteristics		9.43	11.91	8.72	11.41	7.90	7.08	10.97	8.01	8.91	11.41	10.42	10.56
Median percent relative bias across characteristics		6.08	9.79	4.44	6.63	5.08	3.25	6.52	4.35	5.03	7.55	6.98	7.46
Percentage of characteristics with significant bias		73.11	14.00	52.04	25.53	29.29	49.06	15.07	43.14	31.73	12.20	28.89	35.58
Median effect size		0.06	0.17	0.05	0.06	0.05	0.04	0.08	0.05	0.04	0.09	0.08	0.08
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.59	2.15	0.91	0.68	1.95	0.56	2.02	0.59	0.31	1.09	1.17	1.40
Effect size for difference ²		0.01	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
PARBORN	Born in the U.S. (parents)												
Before imputation													
Mean percent relative bias across characteristics		10.26	10.83	9.74	13.99	9.71	8.58	11.95	9.24	9.76	13.63	13.13	13.61
Median percent relative bias across characteristics		6.35	10.10	4.08	8.92	6.64	3.74	8.77	5.25	5.22	8.38	7.62	9.44
Percentage of characteristics with significant bias		71.43	14.00	48.45	33.68	35.00	49.06	17.81	48.04	32.69	12.05	30.77	36.54
Median effect size		0.08	0.16	0.05	0.08	0.08	0.05	0.10	0.07	0.06	0.07	0.10	0.11
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.57	15.51*	2.01*	4.52	0.17	1.38	1.83	1.11	2.05	15.07*	9.85*	1.03
Effect size for difference ²		0.01	‡	0.02	0.05	#	0.02	‡	0.02	0.02	0.17	0.10	0.01

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
PARED1	Parent 1: highest education level												
Before imputation													
Mean percent relative bias across characteristics		8.90	10.37	8.37	11.08	7.46	7.09	10.86	7.83	8.79	11.15	9.98	10.16
Median percent relative bias across characteristics		5.50	8.74	3.53	6.20	4.57	3.08	7.73	4.13	4.69	7.10	6.52	6.70
Percentage of characteristics with significant bias		69.75	16.67	50.52	28.72	31.63	44.34	15.07	44.12	31.73	10.98	31.46	30.77
Median effect size		0.06	0.16	0.04	0.06	0.05	0.04	0.08	0.05	0.05	0.07	0.08	0.07
After imputation													
Percentage difference between pre- and post-imputation means ¹		5.56*	13.41	8.59*	12.64*	8.23*	4.38*	25.39*	5.97*	1.68*	27.26*	14.16*	6.85*
Effect size for difference ²		0.07	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
PARED2	Parent 2: highest education level												
Before imputation													
Mean percent relative bias across characteristics		9.10	11.23	8.31	10.72	7.43	7.12	11.18	7.87	8.60	11.17	9.95	10.24
Median percent relative bias across characteristics		5.58	10.00	3.99	6.12	4.67	3.57	7.75	3.89	4.70	7.46	6.66	7.22
Percentage of characteristics with significant bias		73.11	8.16	50.00	24.47	26.26	48.11	17.81	39.22	28.85	9.76	26.67	34.62
Median effect size		0.06	0.15	0.04	0.06	0.05	0.04	0.09	0.05	0.04	0.07	0.07	0.08
After imputation													
Percentage difference between pre- and post-imputation means ¹		1.83*	15.11*	1.94	2.82	2.89	2.12*	12.14*	2.90*	2.91*	17.84*	3.49	3.50*
Effect size for difference ²		0.02	‡	0.02	‡	‡	0.03	‡	0.04	0.04	‡	‡	0.04

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
PARHELP2	Help from parents: housing, tuition, and other expenses (including independent students)												
Before imputation													
Mean percent relative bias across characteristics		10.40	10.82	9.83	13.82	9.69	7.87	11.44	9.42	9.91	14.02	13.33	13.80
Median percent relative bias across characteristics		6.27	10.61	4.15	8.66	6.39	3.75	8.60	5.40	5.31	9.72	7.86	9.26
Percentage of characteristics with significant bias		71.43	20.00	48.45	31.58	35.00	46.67	19.44	44.12	34.62	12.05	29.67	37.50
Median effect size		0.08	0.14	0.05	0.08	0.07	0.05	0.09	0.07	0.06	0.07	0.10	0.11
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.79	3.60	0.50	10.74*	0.06	3.87*	11.82*	3.96*	5.54*	5.31	5.45*	5.46*
Effect size for difference ²		0.01	0.04	0.01	0.11	#	0.04	0.12	0.04	0.06	0.05	0.06	0.06
PARHPAMT2	Help from parents: amount parents helped pay for expenses in 2015–16 (including independent students)												
Before imputation													
Mean percent relative bias across characteristics		10.49	11.49	9.93	13.81	9.75	7.98	11.42	9.44	10.02	14.17	13.59	13.94
Median percent relative bias across characteristics		6.39	9.80	4.54	8.56	6.72	4.00	8.69	5.41	5.44	9.97	7.72	9.74
Percentage of characteristics with significant bias		72.27	26.00	47.42	30.53	35.00	50.48	19.44	47.06	34.62	13.25	30.77	36.54
Median effect size		0.08	0.15	0.05	0.08	0.08	0.06	0.09	0.06	0.06	0.07	0.10	0.11
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.79*	5.94	4.05*	14.56*	4.63*	4.80*	13.66*	5.03*	8.02*	10.50	7.55*	7.48*
Effect size for difference ²		0.02	‡	0.08	‡	0.10	0.06	‡	0.07	0.10	‡	0.13	0.10

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbacca- laureate	Public 4-year non- doctorate- granting primarily bacca- laureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
PFAMNUM	Dependent students: family size												
Before imputation													
Mean percent relative bias across characteristics		13.85	‡	10.88	12.83	7.43	8.22	7.86	10.09	8.02	12.10	8.28	38.94
Median percent relative bias across characteristics		6.54	‡	5.68	8.60	3.32	3.29	3.33	4.36	5.32	7.58	4.49	36.81
Percentage of characteristics with significant bias		76.70	‡	64.29	46.30	41.07	52.63	30.77	43.33	56.90	37.04	34.78	39.13
Median effect size		0.08	‡	0.09	0.12	0.09	0.07	0.06	0.08	0.09	0.14	0.08	0.46
After imputation													
Percentage difference between pre- and post- imputation means ¹		0.04	‡	0.11	0.22	0.33*	0.15	‡	0.42	0.40	0.12	‡	0.17
Effect size for difference ²		#	‡	#	0.01	0.01	#	‡	0.01	0.01	#	‡	#
PFEDTAX	Dependent students: parents federal tax paid												
Before imputation													
Mean percent relative bias across characteristics		17.69	12.19	18.97	18.93	13.19	17.46	12.34	15.66	17.09	12.84	10.16	45.85
Median percent relative bias across characteristics		11.09	9.10	11.66	13.45	5.83	9.52	5.54	8.93	10.17	8.27	5.82	46.65
Percentage of characteristics with significant bias		77.48	33.33	70.93	48.00	44.00	60.67	31.82	52.44	64.47	22.73	39.68	45.68
Median effect size		0.11	0.15	0.11	0.14	0.09	0.09	0.12	0.09	0.13	0.13	0.10	0.46
After imputation													
Percentage difference between pre- and post- imputation means ¹		7.90*	17.66*	12.65*	11.69	8.76*	10.68*	11.60	10.75*	6.00*	2.39	10.00	0.05
Effect size for difference ²		0.03	0.12	0.06	0.05	0.04	0.06	0.05	0.04	0.03	0.01	0.03	#

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
PHSLOAN Federal health professions loans													
Before imputation													
Mean percent relative bias across characteristics		6.02	‡	6.90	7.00	10.88	8.06	17.59	4.88	5.43	11.00	9.51	13.30
Median percent relative bias across characteristics		2.59	‡	3.31	3.45	6.04	3.10	10.47	2.27	2.60	4.36	3.65	8.43
Percentage of characteristics with significant bias		44.92	‡	47.87	28.05	36.78	41.58	1.82	19.77	27.37	7.46	14.29	24.24
Median effect size		0.03	‡	0.03	0.05	0.08	0.04	0.12	0.03	0.03	0.05	0.04	0.12
After imputation													
Percentage difference between pre- and post-imputation means ¹		7.34	‡	53.93	#	#	10.39*	#	4.98	1.51	#	#	#
Effect size for difference ²		#	‡	0.01	‡	‡	#	‡	#	#	‡	‡	‡
PINCOL Dependent students: number of family members in college													
Before imputation													
Mean percent relative bias across characteristics		16.40	‡	11.75	13.47	8.22	9.81	9.34	11.35	10.28	12.53	8.87	39.49
Median percent relative bias across characteristics		7.80	‡	6.85	9.27	3.07	4.08	3.84	6.29	6.95	5.43	4.39	38.81
Percentage of characteristics with significant bias		79.05	‡	64.38	37.93	40.68	54.55	33.33	47.69	59.68	30.00	32.65	40.85
Median effect size		0.09	‡	0.08	0.13	0.10	0.08	0.07	0.10	0.12	0.13	0.09	0.46
After imputation													
Percentage difference between pre- and post-imputation means ¹		2.37*	‡	2.23*	11.23*	3.25*	2.33*	‡	2.37*	0.24	1.04	1.51*	0.73
Effect size for difference ²		‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less-than-2-year	Public 2-year	Public 4-year non-doctorate-granting primarily subbaccalaureate	Public 4-year non-doctorate-granting primarily baccalaureate	Public 4-year doctorate-granting	Private nonprofit less-than-4-year	Private nonprofit 4-year non-doctorate-granting	Private nonprofit 4-year doctorate-granting	Public less-than-2-year	Private for-profit 2-year	Private for-profit 4-year
PRIMLANG English primary language spoken													
Before imputation													
Mean percent relative bias across characteristics		10.50	11.00	9.86	13.85	9.65	7.85	11.50	9.60	9.93	14.38	13.13	13.79
Median percent relative bias across characteristics		6.29	10.03	4.59	8.95	6.52	3.81	8.17	5.46	5.18	9.64	7.51	9.23
Percentage of characteristics with significant bias		71.43	20.00	47.42	30.53	35.00	47.62	19.44	47.06	33.65	12.05	28.57	37.50
Median effect size		0.08	0.15	0.05	0.08	0.07	0.05	0.09	0.07	0.06	0.07	0.10	0.11
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.63	0.15	2.05*	5.95*	1.81	1.18*	4.70*	2.27*	2.85*	11.66*	4.04	2.04*
Effect size for difference ²		0.01	‡	0.03	0.11	0.03	0.03	‡	0.04	0.03	‡	0.07	0.03
PRIMLGFAQ Frequency of speaking non-English language with primary caregiver													
Before imputation													
Mean percent relative bias across characteristics		17.20	‡	19.57	22.22	17.90	15.06	16.18	15.06	13.73	20.98	17.23	28.84
Median percent relative bias across characteristics		10.53	‡	11.10	15.23	11.62	9.07	13.37	11.49	8.15	14.58	14.64	22.30
Percentage of characteristics with significant bias		67.80	‡	59.14	34.62	35.63	48.48	4.44	35.87	31.91	21.74	34.52	26.53
Median effect size		0.11	‡	0.10	0.16	0.16	0.12	0.17	0.13	0.09	0.18	0.15	0.30
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.56	‡	0.84	3.19	2.17	2.56	2.07	1.62	2.47	3.89	6.05	2.65
Effect size for difference ²		0.01	‡	0.01	‡	‡	0.03	‡	0.02	0.03	‡	0.09	0.03

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
PRIVLOAN	Private (alternative) loans												
Before imputation													
Mean percent relative bias across characteristics		8.73	8.07	8.01	10.79	7.53	6.96	11.16	7.98	9.03	12.70	9.32	10.87
Median percent relative bias across characteristics		5.25	7.71	3.05	6.60	4.40	2.79	7.77	4.53	4.48	9.04	5.76	7.34
Percentage of characteristics with significant bias		75.63	15.56	47.42	29.79	33.67	43.81	19.18	47.06	40.38	15.85	28.89	27.88
Median effect size		0.06	0.13	0.04	0.06	0.05	0.02	0.09	0.05	0.04	0.08	0.07	0.07
After imputation													
Percentage difference between pre- and post-imputation means ¹		8.62*	63.97	46.91*	55.88*	10.95	2.16	31.25	8.65	7.48	60.03*	16.73*	23.66*
Effect size for difference ²		0.02	0.02	0.04	0.08	0.02	#	0.06	0.02	0.02	0.15	0.04	0.05
PROGSTAT	Completed degree program in 2015–16												
Before imputation													
Mean percent relative bias across characteristics		6.12	‡	7.60	7.30	6.00	5.75	7.83	4.49	5.02	6.51	6.42	8.27
Median percent relative bias across characteristics		3.18	‡	4.32	4.53	3.71	2.27	2.08	2.07	2.71	3.69	2.90	5.34
Percentage of characteristics with significant bias		67.80	‡	46.94	28.92	35.87	42.57	0.00	28.09	37.89	8.22	21.43	35.71
Median effect size		0.05	‡	0.06	0.07	0.06	0.03	0.04	0.03	0.04	0.03	0.05	0.10
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.55*	‡	0.56	0.61	0.28	0.88*	2.06	0.63	0.58	1.02	0.54	0.04
Effect size for difference ²		#	‡	0.01	0.01	#	0.01	0.02	0.01	0.01	0.01	0.01	#

See notes at end of table.

Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution: 2015–16—Continued

Variable	Variable label	Overall	Public less-than-2-year	Public 2-year	Public 4-year non-doctorate-granting primarily subbaccalaureate	Public 4-year non-doctorate-granting primarily baccalaureate	Public 4-year doctorate-granting	Private nonprofit less-than-4-year	Private nonprofit 4-year non-doctorate-granting	Private nonprofit 4-year doctorate-granting	Public less-than-2-year	Private for-profit 2-year	Private for-profit 4-year
PSECTYM	Year and month first enrolled in postsecondary education												
Before imputation													
Mean percent relative bias across characteristics		5.10	6.34	5.57	5.92	4.45	5.48	2.14	3.20	5.94	7.78	6.15	9.55
Median percent relative bias across characteristics		2.53	6.69	2.70	3.47	2.48	2.37	1.22	1.52	2.89	5.79	3.88	5.73
Percentage of characteristics with significant bias		54.31	31.58	52.13	41.03	33.75	51.04	2.17	28.41	36.36	28.95	34.12	17.35
Median effect size		0.04	0.08	0.04	0.05	0.05	0.04	0.02	0.03	0.05	0.07	0.06	0.10
After imputation													
Percentage difference between pre- and post-imputation means ¹		#	0.01	#	#	#	#	0.02	#	#	0.02	0.03	0.01
Effect size for difference ²		#	0.02	0.01	0.01	0.01	0.01	0.06	#	0.01	0.05	0.09	0.02
PSECTYR	Year first enrolled in postsecondary education												
Before imputation													
Mean percent relative bias across characteristics		5.04	5.87	5.54	5.68	4.36	5.54	2.12	3.18	6.03	7.60	6.13	9.49
Median percent relative bias across characteristics		2.38	5.88	2.59	3.64	2.49	2.46	1.51	1.48	3.14	5.25	4.26	5.82
Percentage of characteristics with significant bias		55.17	22.22	53.26	37.33	34.62	54.74	2.33	28.74	35.29	28.95	34.12	17.53
Median effect size		0.04	0.07	0.04	0.05	0.04	0.04	0.03	0.02	0.05	0.07	0.06	0.10
After imputation													
Percentage difference between pre- and post-imputation means ¹		#	0.01	#	0.01	#	#	0.02*	#	#	0.02*	0.03*	0.01
Effect size for difference ²		#	0.02	0.01	0.02	0.01	0.01	0.06	0.01	0.01	0.05	0.09	0.02

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
PTAXFILE	Dependent students: parents federal tax filed												
Before imputation													
Mean percent relative bias across characteristics		14.21	‡	12.83	14.56	8.62	12.03	9.89	12.82	13.40	12.82	8.70	40.49
Median percent relative bias across characteristics		7.95	‡	7.39	10.34	3.75	6.98	7.04	7.51	9.25	7.73	4.24	41.47
Percentage of characteristics with significant bias		72.82	‡	65.28	36.21	37.10	50.65	35.71	45.59	60.32	38.46	32.65	41.18
Median effect size		0.10	‡	0.10	0.14	0.10	0.09	0.09	0.12	0.16	0.15	0.09	0.46
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.44*	‡	1.06*	0.54	0.42*	0.20	‡	0.53*	1.35*	1.10*	‡	0.10
Effect size for difference ²		0.01	‡	0.02	‡	‡	0.01	‡	‡	0.03	‡	‡	‡
RAASIAN	Race: Asian												
Before imputation													
Mean percent relative bias across characteristics		5.28	‡	6.62	4.95	5.13	5.49	4.39	4.54	3.45	6.20	5.66	7.65
Median percent relative bias across characteristics		3.16	‡	3.30	3.59	3.76	2.63	2.27	2.48	2.23	3.90	3.70	6.21
Percentage of characteristics with significant bias		71.79	‡	62.37	35.06	38.10	56.12	12.50	33.71	41.76	13.43	35.00	34.69
Median effect size		0.04	‡	0.06	0.04	0.05	0.03	0.03	0.03	0.03	0.05	0.05	0.06
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.02	‡	0.19	0.19	0.01	0.32	0.06	0.10	0.23	0.10	0.44	0.02
Effect size for difference ²		#	‡	#	‡	#	#	‡	‡	#	‡	0.01	#

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
RABLACK	Race: Black or African-American												
Before imputation													
Mean percent relative bias across characteristics		5.28	‡	6.62	4.95	5.13	5.49	4.39	4.54	3.45	6.20	5.66	7.65
Median percent relative bias across characteristics		3.16	‡	3.30	3.59	3.76	2.63	2.27	2.48	2.23	3.90	3.70	6.21
Percentage of characteristics with significant bias		71.79	‡	62.37	35.06	38.10	56.12	12.50	33.71	41.76	13.43	35.00	34.69
Median effect size		0.04	‡	0.06	0.04	0.05	0.03	0.03	0.03	0.03	0.05	0.05	0.06
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.05	‡	0.37	0.07	0.18	0.04	2.51*	0.11	0.27	1.04	3.52*	0.65
Effect size for difference ²		#	‡	#	#	#	#	‡	#	#	0.01	0.04	0.01
RAINDIAN	Race: American Indian or Alaska Native												
Before imputation													
Mean percent relative bias across characteristics		5.28	‡	6.62	4.95	5.13	5.49	4.39	4.54	3.45	6.20	5.66	7.65
Median percent relative bias across characteristics		3.16	‡	3.30	3.59	3.76	2.63	2.27	2.48	2.23	3.90	3.70	6.21
Percentage of characteristics with significant bias		71.79	‡	62.37	35.06	38.10	56.12	12.50	33.71	41.76	13.43	35.00	34.69
Median effect size		0.04	‡	0.06	0.04	0.05	0.03	0.03	0.03	0.03	0.05	0.05	0.06
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.02	‡	0.03	0.28	0.19*	0.03	0.30*	0.04	0.01	#	0.13	0.20
Effect size for difference ²		#	‡	#	‡	‡	#	‡	‡	‡	‡	‡	0.01

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
RAINDTRB	Race: American Indian or Alaska Native recognized tribe												
Before imputation													
Mean percent relative bias across characteristics		51.42	‡	45.97	42.78	28.63	56.51	36.22	44.10	54.24	33.20	25.61	96.76
Median percent relative bias across characteristics		26.12	‡	19.89	30.76	14.76	30.48	40.20	30.70	29.60	32.73	15.36	60.19
Percentage of characteristics with significant bias		54.05	‡	46.84	21.82	22.81	44.83	45.45	29.03	40.00	35.71	23.33	30.34
Median effect size		0.28	‡	0.26	0.47	0.31	0.33	0.34	0.47	0.45	0.55	0.21	0.52
After imputation													
Percentage difference between pre- and post- imputation means ¹		1.72	‡	1.20	4.33	4.82	0.53	‡	2.25	3.83	‡	4.14	4.95
Effect size for difference ²		0.02	‡	0.01	‡	‡	0.01	‡	‡	‡	‡	‡	0.06
RAISLAND	Race: Native Hawaiian/other Pacific Islander												
Before imputation													
Mean percent relative bias across characteristics		5.28	‡	6.62	4.95	5.13	5.49	4.39	4.54	3.45	6.20	5.66	7.65
Median percent relative bias across characteristics		3.16	‡	3.30	3.59	3.76	2.63	2.27	2.48	2.23	3.90	3.70	6.21
Percentage of characteristics with significant bias		71.79	‡	62.37	35.06	38.10	56.12	12.50	33.71	41.76	13.43	35.00	34.69
Median effect size		0.04	‡	0.06	0.04	0.05	0.03	0.03	0.03	0.03	0.05	0.05	0.06
After imputation													
Percentage difference between pre- and post- imputation means ¹		0.02	‡	0.05	0.11	0.01	0.02	0.23	0.02	0.02	0.08	0.02	0.10
Effect size for difference ²		#	‡	#	‡	‡	‡	‡	‡	‡	‡	‡	#

See notes at end of table.

Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution: 2015–16—Continued

Variable	Variable label	Overall	Public less-than-2-year	Public 2-year	Public 4-year non-doctorate-granting primarily subbaccalaureate	Public 4-year non-doctorate-granting primarily baccalaureate	Public 4-year doctorate-granting	Private nonprofit less-than-4-year	Private nonprofit 4-year non-doctorate-granting	Private nonprofit 4-year doctorate-granting	Public less-than-2-year	Private for-profit 2-year	Private for-profit 4-year
RAWHITE	Race: White												
Before imputation													
Mean percent relative bias across characteristics		5.28	‡	6.62	4.95	5.13	5.49	4.39	4.54	3.45	6.20	5.66	7.65
Median percent relative bias across characteristics		3.16	‡	3.30	3.59	3.76	2.63	2.27	2.48	2.23	3.90	3.70	6.21
Percentage of characteristics with significant bias		71.79	‡	62.37	35.06	38.10	56.12	12.50	33.71	41.76	13.43	35.00	34.69
Median effect size		0.04	‡	0.06	0.04	0.05	0.03	0.03	0.03	0.03	0.05	0.05	0.06
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.04	‡	0.53	0.21	0.02	0.42	3.87*	#	0.35	0.72	3.33*	0.71
Effect size for difference ²		#	‡	0.01	#	#	#	‡	#	#	0.01	0.03	0.01
REANOAPA	Reason for not applying: did not want to take on debt												
Before imputation													
Mean percent relative bias across characteristics		14.61	4.19	14.32	25.59	14.85	13.41	21.84	15.98	20.98	27.17	34.47	64.22
Median percent relative bias across characteristics		6.86	2.84	10.13	19.58	10.47	6.31	13.28	11.54	14.14	25.64	35.06	46.95
Percentage of characteristics with significant bias		43.96	11.11	48.53	17.19	13.04	24.00	4.55	19.70	20.83	29.55	28.85	18.92
Median effect size		0.09	0.17	0.10	0.20	0.13	0.08	0.24	0.13	0.16	0.33	0.32	0.51
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.75	‡	1.32	4.10	1.05	1.37	45.40*	4.57	4.62	26.17*	10.76	18.31
Effect size for difference ²		0.01	‡	0.01	0.04	0.01	0.01	‡	0.05	0.05	‡	0.12	0.19

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
REANOAPB	Reason for not applying: forms were too much work												
Before imputation													
Mean percent relative bias across characteristics		14.61	4.19	14.32	25.59	14.85	13.41	21.84	15.98	20.98	27.17	34.47	64.22
Median percent relative bias across characteristics		6.86	2.84	10.13	19.58	10.47	6.31	13.28	11.54	14.14	25.64	35.06	46.95
Percentage of characteristics with significant bias		43.96	11.11	48.53	17.19	13.04	24.00	4.55	19.70	20.83	29.55	28.85	18.92
Median effect size		0.09	0.17	0.10	0.20	0.13	0.08	0.24	0.13	0.16	0.33	0.32	0.51
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.08	‡	0.82	1.87	1.83	1.24	1.30	3.19	1.38	4.72	1.35	0.18
Effect size for difference ²		#	‡	0.01	0.03	0.04	0.02	‡	0.05	0.03	‡	‡	#
REANOAPC	Reason for not applying: no information about how to apply												
Before imputation													
Mean percent relative bias across characteristics		14.61	4.19	14.32	25.59	14.85	13.41	21.84	15.98	20.98	27.17	34.47	64.22
Median percent relative bias across characteristics		6.86	2.84	10.13	19.58	10.47	6.31	13.28	11.54	14.14	25.64	35.06	46.95
Percentage of characteristics with significant bias		43.96	11.11	48.53	17.19	13.04	24.00	4.55	19.70	20.83	29.55	28.85	18.92
Median effect size		0.09	0.17	0.10	0.20	0.13	0.08	0.24	0.13	0.16	0.33	0.32	0.51
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.41	‡	0.24	0.02	4.18	1.24	4.86*	3.28	0.48	6.37	3.59	7.45
Effect size for difference ²		0.01	‡	#	#	0.08	0.02	‡	0.04	0.01	‡	‡	0.12

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbacca- laureate	Public 4-year non- doctorate- granting primarily bacca- laureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
REANOAPD	Reason for not applying: no need												
Before imputation													
Mean percent relative bias across characteristics		14.61	4.19	14.32	25.59	14.85	13.41	21.84	15.98	20.98	27.17	34.47	64.22
Median percent relative bias across characteristics		6.86	2.84	10.13	19.58	10.47	6.31	13.28	11.54	14.14	25.64	35.06	46.95
Percentage of characteristics with significant bias		43.96	11.11	48.53	17.19	13.04	24.00	4.55	19.70	20.83	29.55	28.85	18.92
Median effect size		0.09	0.17	0.10	0.20	0.13	0.08	0.24	0.13	0.16	0.33	0.32	0.51
After imputation													
Percentage difference between pre- and post- imputation means ¹		1.74	‡	2.10	1.41	3.19	2.84	70.64*	0.34	3.54	1.14	22.83	0.98
Effect size for difference ²		0.02	‡	0.02	0.01	0.03	0.03	‡	#	0.04	0.01	0.23	0.01
REANOAPE	Reason for not applying: thought ineligible												
Before imputation													
Mean percent relative bias across characteristics		14.61	4.19	14.32	25.59	14.85	13.41	21.84	15.98	20.98	27.17	34.47	64.22
Median percent relative bias across characteristics		6.86	2.84	10.13	19.58	10.47	6.31	13.28	11.54	14.14	25.64	35.06	46.95
Percentage of characteristics with significant bias		43.96	11.11	48.53	17.19	13.04	24.00	4.55	19.70	20.83	29.55	28.85	18.92
Median effect size		0.09	0.17	0.10	0.20	0.13	0.08	0.24	0.13	0.16	0.33	0.32	0.51
After imputation													
Percentage difference between pre- and post- imputation means ¹		2.59	‡	3.44	1.04	1.36	1.33	27.43*	7.33	8.03	28.36*	1.30	12.90*
Effect size for difference ²		0.03	‡	0.03	0.01	0.01	0.01	‡	0.07	0.08	0.28	0.01	0.13

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
REANOAPF	Reason for not applying for aid in NPSAS year: other												
Before imputation													
Mean percent relative bias across characteristics		14.61	4.19	14.32	25.59	14.85	13.41	21.84	15.98	20.98	27.17	34.47	64.22
Median percent relative bias across characteristics		6.86	2.84	10.13	19.58	10.47	6.31	13.28	11.54	14.14	25.64	35.06	46.95
Percentage of characteristics with significant bias		43.96	11.11	48.53	17.19	13.04	24.00	4.55	19.70	20.83	29.55	28.85	18.92
Median effect size		0.09	0.17	0.10	0.20	0.13	0.08	0.24	0.13	0.16	0.33	0.32	0.51
After imputation													
Percentage difference between pre- and post- imputation means ¹		1.16	‡	2.28	4.59	2.51	0.98	6.49	1.49	4.07	13.62*	10.96	9.67
Effect size for difference ²		0.02	‡	0.03	0.06	0.03	0.01	‡	0.02	0.06	‡	‡	0.12
REFUND1	Received a refund of scholarships or grants from NPSAS												
Before imputation													
Mean percent relative bias across characteristics		10.44	11.04	9.91	14.13	9.85	7.97	11.41	9.44	9.81	13.89	13.31	13.76
Median percent relative bias across characteristics		6.38	10.82	4.42	9.10	6.86	3.96	8.29	5.36	5.38	9.05	7.95	9.21
Percentage of characteristics with significant bias		71.43	18.00	48.45	32.63	36.00	46.67	19.44	46.08	33.65	9.64	30.77	38.46
Median effect size		0.08	0.16	0.05	0.08	0.08	0.05	0.10	0.07	0.05	0.07	0.10	0.11
After imputation													
Percentage difference between pre- and post- imputation means ¹		1.17*	6.31	1.12	1.12	1.45	1.23	0.20	0.42	3.99*	38.48*	0.10	0.62
Effect size for difference ²		0.01	0.07	0.01	0.01	0.02	0.01	#	#	0.04	0.41	#	0.01

See notes at end of table.

Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution: 2015–16—Continued

Variable	Variable label	Overall	Public less-than-2-year	Public 2-year	Public 4-year non-doctorate-granting primarily subbaccalaureate	Public 4-year non-doctorate-granting primarily baccalaureate	Public 4-year doctorate-granting	Private nonprofit less-than-4-year	Private nonprofit 4-year non-doctorate-granting	Private nonprofit 4-year doctorate-granting	Public less-than-2-year	Private for-profit 2-year	Private for-profit 4-year
REFUND2	Method of receiving refund from NPSAS												
Before imputation													
Mean percent relative bias across characteristics		17.93	16.70	22.68	23.52	16.03	13.55	19.25	15.84	15.78	34.74	23.31	20.46
Median percent relative bias across characteristics		9.72	12.51	13.83	15.69	10.89	7.58	13.69	9.89	9.27	28.37	17.99	13.62
Percentage of characteristics with significant bias		63.87	23.53	57.29	39.77	42.39	53.54	18.00	35.05	36.46	28.00	38.27	26.47
Median effect size		0.12	0.30	0.16	0.18	0.13	0.08	0.17	0.12	0.14	0.39	0.21	0.17
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.97	10.15	2.09	12.61*	2.42	0.62	35.05*	11.51*	2.24	68.53*	48.61*	4.14
Effect size for difference ²		0.02	‡	0.03	‡	‡	0.01	‡	0.12	0.05	0.69	0.53	0.06
REMETOOK	Remedial courses: took in 2015–16												
Before imputation													
Mean percent relative bias across characteristics		12.85	17.41	12.39	16.56	16.35	15.10	12.33	11.41	21.27	17.87	14.28	21.74
Median percent relative bias across characteristics		7.84	14.09	7.46	14.01	11.91	10.07	10.75	8.65	16.08	12.74	10.74	16.42
Percentage of characteristics with significant bias		60.87	20.00	52.58	31.87	34.78	48.45	18.92	28.09	37.78	29.17	31.71	33.33
Median effect size		0.07	0.29	0.07	0.12	0.14	0.10	0.13	0.09	0.18	0.18	0.12	0.18
After imputation													
Percentage difference between pre- and post-imputation means ¹		3.36*	3.62	5.41*	14.27*	6.47*	1.87	0.40	4.12	3.08	5.36	10.13*	6.06*
Effect size for difference ²		0.04	‡	0.05	0.17	0.09	0.03	‡	0.05	0.04	0.07	0.11	0.07

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
REMEVER	Remedial courses: ever taken												
Before imputation													
Mean percent relative bias across characteristics		7.70	6.64	8.52	8.91	7.59	7.06	10.15	6.62	9.55	11.70	9.63	11.36
Median percent relative bias across characteristics		3.36	5.61	4.34	4.61	5.19	3.70	6.85	3.94	5.76	7.60	6.22	5.19
Percentage of characteristics with significant bias		62.93	13.16	54.08	35.56	29.79	54.00	17.81	45.36	43.16	13.41	31.46	27.72
Median effect size		0.06	0.13	0.04	0.07	0.06	0.05	0.08	0.05	0.06	0.07	0.07	0.09
After imputation													
Percentage difference between pre- and post-imputation means ¹		9.46*	11.90	14.99*	17.12*	2.43	5.24*	0.58	0.65	0.48	5.35	0.89	8.17*
Effect size for difference ²		0.10	0.13	0.15	0.17	0.03	0.06	0.01	0.01	0.01	0.06	0.01	0.09
REMMATH	Remedial courses: number taken in math in 2015–16												
Before imputation													
Mean percent relative bias across characteristics		26.23	‡	20.57	30.57	30.34	40.80	33.41	25.82	44.84	42.41	29.32	55.17
Median percent relative bias across characteristics		18.54	‡	12.34	18.73	24.75	23.14	30.05	19.68	36.38	39.21	24.23	47.33
Percentage of characteristics with significant bias		56.14	‡	52.13	36.62	36.67	44.32	0.00	26.67	40.58	32.56	28.95	32.26
Median effect size		0.17	‡	0.11	0.24	0.32	0.31	0.37	0.23	0.45	0.57	0.25	0.53
After imputation													
Percentage difference between pre- and post-imputation means ¹		1.16	‡	1.29	6.97	11.00*	7.05*	‡	6.28	0.82	32.61*	6.63	7.86*
Effect size for difference ²		0.02	‡	0.02	‡	‡	0.09	‡	0.09	‡	‡	0.07	0.11

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
REMRW	Remedial courses: number taken in reading and/or writing in 2015–16												
Before imputation													
Mean percent relative bias across characteristics		26.16	‡	20.34	30.57	31.13	40.46	36.03	25.55	43.99	42.91	29.31	55.11
Median percent relative bias across characteristics		19.17	‡	12.36	17.86	25.09	23.55	30.56	20.01	33.29	40.48	23.35	46.29
Percentage of characteristics with significant bias		55.26	‡	52.13	33.33	36.07	46.07	7.14	25.33	42.03	31.82	28.95	27.96
Median effect size		0.17	‡	0.11	0.23	0.33	0.30	0.38	0.23	0.44	0.58	0.25	0.52
After imputation													
Percentage difference between pre- and post-imputation means ¹		1.55	‡	2.21	10.35	1.34	2.80	‡	6.29	4.90	6.45	3.16	7.09
Effect size for difference ²		0.02	‡	0.02	‡	‡	0.04	‡	‡	‡	‡	‡	0.08
SAGI	Independent students: adjusted gross income												
Before imputation													
Mean percent relative bias across characteristics		22.89	19.64	17.96	18.71	16.26	20.71	11.47	15.23	20.76	11.59	9.74	15.13
Median percent relative bias across characteristics		13.43	19.70	13.28	13.42	9.99	12.54	7.02	10.66	13.77	5.62	3.14	10.30
Percentage of characteristics with significant bias		71.05	46.15	62.67	42.86	32.43	66.67	39.13	38.89	44.59	21.74	29.09	19.28
Median effect size		0.13	0.17	0.15	0.16	0.16	0.14	0.09	0.13	0.18	0.10	0.06	0.12
After imputation													
Percentage difference between pre- and post-imputation means ¹		18.23*	4.19	21.57*	24.25*	21.05*	19.38*	9.33	17.49*	16.31*	6.25*	8.77*	11.37*
Effect size for difference ²		0.14	0.05	0.20	0.20	0.21	0.16	0.06	0.16	0.15	0.06	0.09	0.06

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
SEOGAMT		Federal Supplemental Educational Opportunity Grant (SEOG)											
Before imputation													
Mean percent relative bias across characteristics		7.19	3.95	7.60	10.28	10.90	10.71	11.87	4.97	6.68	11.91	9.13	18.06
Median percent relative bias across characteristics		2.97	4.27	3.02	5.05	6.87	3.90	3.44	2.69	3.27	4.78	2.86	11.15
Percentage of characteristics with significant bias		43.59	0.00	37.89	27.06	30.68	44.33	0.00	26.74	34.52	8.70	18.39	27.66
Median effect size		0.04	0.08	0.05	0.07	0.08	0.07	0.04	0.03	0.05	0.07	0.04	0.18
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.35	‡	9.03*	3.06	5.45	0.10	0.92	3.59*	3.07	45.60	8.87*	7.12
Effect size for difference ²		#	‡	0.01	#	0.01	#	#	0.01	0.01	0.09	0.02	0.02
SFEDTAX		Independent students: federal tax paid											
Before imputation													
Mean percent relative bias across characteristics		22.66	16.14	23.27	23.02	19.34	28.61	9.35	18.98	28.03	13.13	10.78	18.68
Median percent relative bias across characteristics		13.58	8.52	13.42	13.82	11.69	14.25	6.06	12.51	15.06	9.10	6.12	12.40
Percentage of characteristics with significant bias		72.50	35.00	65.96	40.48	37.65	63.64	21.15	40.86	50.54	28.79	37.50	34.62
Median effect size		0.13	0.13	0.11	0.13	0.13	0.13	0.08	0.12	0.16	0.09	0.09	0.12
After imputation													
Percentage difference between pre- and post-imputation means ¹		33.22*	3.46	40.19*	44.84*	40.87*	38.90*	28.64	36.07*	21.30*	17.66*	15.93*	19.39*
Effect size for difference ²		0.13	0.02	0.16	0.17	0.19	0.14	0.06	0.16	0.09	0.05	0.05	0.07

See notes at end of table.

Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution: 2015–16—Continued

Variable	Variable label	Overall	Public less-than-2-year	Public 2-year	Public 4-year non-doctorate-granting primarily subbaccalaureate	Public 4-year non-doctorate-granting primarily baccalaureate	Public 4-year doctorate-granting	Private nonprofit less-than-4-year	Private nonprofit 4-year non-doctorate-granting	Private nonprofit 4-year doctorate-granting	Public less-than-2-year	Private for-profit 2-year	Private for-profit 4-year
SFEDTAXD		Dependent students: federal tax paid											
Before imputation													
Mean percent relative bias across characteristics		15.37	16.31	15.10	16.22	9.88	14.50	12.39	13.52	14.45	12.85	9.83	40.35
Median percent relative bias across characteristics		8.47	16.31	8.92	11.39	4.01	8.53	3.53	6.92	8.94	6.67	5.43	41.30
Percentage of characteristics with significant bias		71.96	50.00	64.56	41.94	33.33	52.33	38.89	46.58	62.86	25.00	31.37	39.44
Median effect size		0.10	0.19	0.09	0.14	0.10	0.09	0.12	0.10	0.13	0.15	0.09	0.46
After imputation													
Percentage difference between pre- and post-imputation means ¹		12.85*	‡	10.24*	13.70	4.03	11.12	6.85	1.71	39.56	13.83	3.08	0.42
Effect size for difference ²		0.02	‡	0.03	0.04	0.01	0.01	0.02	#	0.03	0.03	0.01	#
SIBCOLFT		First sibling to go to college											
Before imputation													
Mean percent relative bias across characteristics		10.48	10.80	9.80	13.82	9.69	7.86	11.36	9.57	9.87	14.35	13.15	13.85
Median percent relative bias across characteristics		6.23	9.88	4.46	8.81	6.64	3.79	8.04	5.46	5.20	9.75	7.45	9.13
Percentage of characteristics with significant bias		71.43	22.00	46.39	30.53	34.00	46.67	19.44	47.06	32.69	12.05	28.57	37.50
Median effect size		0.08	0.15	0.05	0.08	0.07	0.05	0.09	0.07	0.06	0.07	0.10	0.11
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.01	6.54	0.48	5.80*	0.71	0.50	3.19	1.97	0.34	5.07	2.62	1.85
Effect size for difference ²		#	0.07	#	0.06	0.01	0.01	0.03	0.02	#	0.05	0.03	0.02

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbacca- laureate	Public 4-year non- doctorate- granting primarily bacca- laureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
SINCOL	Independent students: number of family members in college												
Before imputation													
Mean percent relative bias across characteristics		9.03	12.13	9.58	8.84	7.44	8.35	8.85	6.65	6.95	6.77	5.77	9.58
Median percent relative bias across characteristics		4.55	6.56	5.69	4.86	4.06	5.55	6.48	4.64	3.96	3.06	2.22	5.53
Percentage of characteristics with significant bias		64.29	37.50	58.33	36.67	31.82	58.02	56.25	37.88	38.57	22.50	23.08	18.52
Median effect size		0.05	0.09	0.09	0.11	0.10	0.09	0.05	0.06	0.06	0.05	0.05	0.07
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.83*	‡	0.36	0.50	0.07	1.90*	0.99	0.34	0.14	0.82*	0.61	0.98*
Effect size for difference ²		‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡
SPINCOL	Independent students: spouse attending college												
Before imputation													
Mean percent relative bias across characteristics		20.56	‡	22.53	20.48	19.97	20.40	17.33	13.35	16.58	20.77	13.65	18.51
Median percent relative bias across characteristics		12.76	‡	13.03	15.18	14.45	13.72	17.37	7.82	12.75	10.47	5.94	12.90
Percentage of characteristics with significant bias		71.05	‡	59.04	38.10	44.12	52.27	53.85	41.10	41.56	32.26	28.81	23.66
Median effect size		0.14	‡	0.18	0.21	0.21	0.21	0.13	0.12	0.13	0.23	0.11	0.14
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.71	‡	1.61	1.29	0.05	0.38	‡	0.42	3.91*	0.38	2.96*	2.44*
Effect size for difference ²		0.01	‡	0.02	0.02	#	#	‡	0.01	0.05	‡	‡	0.03

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
SPSINC	Independent students: spouse's income												
Before imputation													
Mean percent relative bias across characteristics		32.14	‡	26.06	24.90	25.37	28.65	23.11	19.62	23.91	21.88	13.82	21.64
Median percent relative bias across characteristics		19.18	‡	18.63	17.66	19.66	17.46	21.39	15.64	16.35	11.66	7.28	15.91
Percentage of characteristics with significant bias		66.96	‡	57.75	36.51	32.35	55.56	33.33	35.82	38.36	30.30	31.48	16.09
Median effect size		0.18	‡	0.23	0.26	0.26	0.20	0.15	0.18	0.26	0.23	0.14	0.15
After imputation													
Percentage difference between pre- and post-imputation means ¹		26.57*	‡	30.06*	38.04*	24.05*	31.07*	‡	22.38*	18.88*	10.01*	5.77*	17.73*
Effect size for difference ²		0.18	‡	0.31	0.33	0.27	0.15	‡	0.20	0.19	0.08	0.05	0.11
SPSINCX	Independent students: spouse's income (categorical)												
Before imputation													
Mean percent relative bias across characteristics		20.88	‡	20.28	16.56	18.91	18.32	14.67	12.73	15.15	21.79	12.89	15.84
Median percent relative bias across characteristics		13.90	‡	13.06	11.72	13.46	12.57	14.79	8.37	11.63	14.96	7.05	12.35
Percentage of characteristics with significant bias		71.43	‡	57.75	33.90	35.94	55.00	58.33	42.86	42.03	37.93	36.54	17.07
Median effect size		0.14	‡	0.22	0.21	0.22	0.20	0.10	0.13	0.14	0.24	0.14	0.12
After imputation													
Percentage difference between pre- and post-imputation means ¹		4.22*	‡	7.73*	‡	‡	2.54*	‡	4.72*	4.95*	‡	‡	2.61*
Effect size for difference ²		0.06	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	0.04

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
STABEVR	Ever study abroad during undergraduate education												
Before imputation													
Mean percent relative bias across characteristics		10.34	10.26	9.81	13.95	9.89	8.63	11.12	9.44	9.69	13.87	13.12	13.66
Median percent relative bias across characteristics		6.35	10.36	4.16	9.17	7.16	4.02	8.72	5.30	4.90	9.51	7.62	9.47
Percentage of characteristics with significant bias		70.59	14.00	47.42	32.63	39.00	48.11	18.06	50.98	30.77	10.84	31.87	34.62
Median effect size		0.08	0.15	0.05	0.08	0.08	0.05	0.09	0.07	0.06	0.08	0.10	0.11
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.92*	0.10	0.27	0.52	1.10	0.38	1.37*	0.20	0.82	7.15*	1.75	1.69*
Effect size for difference ²		0.02	‡	0.01	0.01	0.02	0.01	‡	#	0.01	0.15	0.05	0.04
STABREG	Study abroad region												
Before imputation													
Mean percent relative bias across characteristics		34.72	‡	35.85	51.69	31.03	23.20	‡	23.95	14.53	28.00	34.95	71.01
Median percent relative bias across characteristics		26.44	‡	20.98	35.82	19.44	13.07	‡	16.06	9.78	24.53	28.88	45.74
Percentage of characteristics with significant bias		72.03	‡	41.25	26.67	41.54	46.94	‡	49.40	30.23	0.00	14.71	23.91
Median effect size		0.33	‡	0.22	0.47	0.32	0.21	‡	0.22	0.16	0.31	0.39	0.65
After imputation													
Percentage difference between pre- and post-imputation means ¹		2.80	‡	11.76*	5.11	13.00*	3.20	‡	5.81	4.74	59.36*	26.95*	8.42
Effect size for difference ²		0.04	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡	‡

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
STABTIME	Length of time studied abroad												
Before imputation													
Mean percent relative bias across characteristics		36.97	‡	32.60	57.38	31.55	24.08	‡	26.55	15.70	29.42	37.99	69.08
Median percent relative bias across characteristics		27.16	‡	18.82	34.32	19.25	12.94	‡	18.72	11.71	21.65	34.91	43.88
Percentage of characteristics with significant bias		72.88	‡	32.10	27.87	44.62	44.90	‡	50.00	29.89	6.00	11.94	21.51
Median effect size		0.32	‡	0.26	0.47	0.32	0.22	‡	0.24	0.16	0.32	0.42	0.66
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.88	‡	14.18*	32.49*	9.23	3.18	‡	5.74	1.92	41.39*	2.21	8.73
Effect size for difference ²		0.01	‡	0.17	‡	‡	0.03	‡	0.08	0.03	‡	‡	0.12
STATEAMT	State aid total												
Before imputation													
Mean percent relative bias across characteristics		7.59	4.18	9.11	8.62	18.20	9.81	17.15	6.25	6.86	11.16	10.05	13.85
Median percent relative bias across characteristics		3.41	4.52	3.53	5.37	14.09	4.13	12.38	2.80	3.54	4.91	3.23	8.61
Percentage of characteristics with significant bias		45.38	0.00	37.76	22.89	43.48	40.00	0.00	16.48	27.08	6.94	14.12	22.45
Median effect size		0.05	0.08	0.06	0.07	0.14	0.05	0.15	0.03	0.05	0.05	0.05	0.13
After imputation													
Percentage difference between pre- and post-imputation means ¹		7.71*	‡	14.04*	14.92*	15.12*	5.52*	18.82	2.30	2.53	28.58*	15.72*	5.30
Effect size for difference ²		0.03	‡	0.06	0.04	0.07	0.02	0.06	0.01	0.01	0.05	0.04	0.01

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
STAXFILE		Independent students: federal tax filed											
Before imputation													
Mean percent relative bias across characteristics		20.44	17.68	16.41	17.18	15.36	19.99	9.90	15.06	20.25	9.50	8.64	14.63
Median percent relative bias across characteristics		13.19	13.67	11.19	11.61	9.90	12.68	5.87	9.73	13.19	4.49	2.84	10.60
Percentage of characteristics with significant bias		69.91	38.46	65.33	45.71	29.73	66.67	34.78	40.28	43.24	19.57	27.27	19.28
Median effect size		0.13	0.13	0.14	0.15	0.14	0.13	0.08	0.13	0.18	0.07	0.05	0.12
After imputation													
Percentage difference between pre- and post-imputation means ¹		7.26*	7.52*	5.80*	4.28*	6.25*	4.52*	2.63*	3.40*	4.00*	4.06*	2.60*	3.21*
Effect size for difference ²		0.12	‡	‡	‡	0.11	0.08	‡	0.06	0.07	‡	‡	0.05
STAXFILED		Dependent students: federal tax filed											
Before imputation													
Mean percent relative bias across characteristics		15.46	16.31	13.85	15.74	9.46	12.96	11.47	13.90	14.07	12.69	9.60	41.38
Median percent relative bias across characteristics		8.86	16.31	8.80	10.37	3.45	6.92	2.18	8.58	8.80	6.15	5.16	42.73
Percentage of characteristics with significant bias		74.04	50.00	66.67	40.98	35.48	53.25	29.41	48.57	66.67	23.53	31.37	42.03
Median effect size		0.10	0.19	0.10	0.14	0.10	0.09	0.11	0.12	0.17	0.14	0.09	0.46
After imputation													
Percentage difference between pre- and post-imputation means ¹		3.82*	‡	7.81*	8.11*	2.56*	1.56*	2.92	1.59	1.29	3.76*	2.60*	0.08
Effect size for difference ²		0.04	‡	0.08	0.08	0.03	0.02	‡	0.02	0.01	0.04	0.03	#

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbacca- laureate	Public 4-year non- doctorate- granting primarily bacca- laureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
STGTAMT	State grants												
Before imputation													
Mean percent relative bias across characteristics		7.57	4.18	9.06	8.62	18.20	9.81	17.15	6.25	6.86	11.16	10.05	13.85
Median percent relative bias across characteristics		3.45	4.52	3.52	5.37	14.09	4.13	12.38	2.80	3.54	4.91	3.23	8.61
Percentage of characteristics with significant bias		45.38	0.00	37.76	22.89	43.48	40.00	0.00	16.48	27.08	6.94	14.12	22.45
Median effect size		0.05	0.08	0.06	0.07	0.14	0.05	0.15	0.03	0.05	0.05	0.05	0.13
After imputation													
Percentage difference between pre- and post- imputation means ¹		8.33*	‡	13.45*	16.81*	16.21*	6.17*	24.59	2.25	3.94	37.57*	17.39	6.51
Effect size for difference ²		0.03	‡	0.05	0.05	0.08	0.03	0.08	0.01	0.01	0.06	0.04	0.01
STMERIT	State merit-only grants												
Before imputation													
Mean percent relative bias across characteristics		8.10	4.09	9.60	8.43	19.78	10.62	24.06	5.93	7.66	11.87	10.82	12.27
Median percent relative bias across characteristics		3.78	5.52	3.93	5.01	14.81	4.17	13.65	2.53	3.44	4.34	3.45	7.87
Percentage of characteristics with significant bias		49.17	0.00	39.80	22.22	44.68	43.56	0.00	17.98	30.93	5.88	14.12	36.36
Median effect size		0.04	0.08	0.06	0.06	0.14	0.05	0.15	0.02	0.05	0.05	0.05	0.12
After imputation													
Percentage difference between pre- and post- imputation means ¹		9.55*	‡	16.31	30.79	15.11	9.13	16.54	5.20	0.68	85.14	72.67	16.48
Effect size for difference ²		0.01	‡	0.01	0.03	0.02	0.02	0.01	0.01	#	0.03	0.03	#

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
STMILAMT	State military/armed forces grants												
Before imputation													
Mean percent relative bias across characteristics		8.21	4.09	9.79	8.43	18.19	10.74	17.15	6.13	7.71	11.87	10.83	14.84
Median percent relative bias across characteristics		3.53	5.52	3.81	5.01	14.06	4.06	12.38	2.68	3.49	4.45	2.88	10.04
Percentage of characteristics with significant bias		43.33	0.00	39.39	22.22	43.48	42.57	0.00	17.78	27.84	5.88	14.12	25.25
Median effect size		0.05	0.08	0.06	0.06	0.14	0.05	0.15	0.03	0.05	0.05	0.05	0.13
After imputation													
Percentage difference between pre- and post-imputation means ¹		2.35	‡	6.79	16.47	37.97	6.55	#	7.71	11.79	#	#	#
Effect size for difference ²		#	‡	#	#	0.01	#	‡	#	#	‡	‡	‡
STNDMRT	State grants based both on need and merit												
Before imputation													
Mean percent relative bias across characteristics		8.18	4.09	9.75	8.43	18.69	10.61	17.15	6.16	7.69	11.87	10.81	14.82
Median percent relative bias across characteristics		3.34	5.52	3.99	5.01	13.00	4.32	12.38	2.67	3.60	4.45	2.99	10.11
Percentage of characteristics with significant bias		43.33	0.00	39.39	22.22	44.09	40.59	0.00	17.78	27.84	5.88	14.12	25.25
Median effect size		0.04	0.08	0.06	0.06	0.13	0.05	0.15	0.03	0.05	0.05	0.05	0.13
After imputation													
Percentage difference between pre- and post-imputation means ¹		6.38*	‡	10.42	6.61	1.48	8.07	#	3.57	1.27	95.16	75.01*	10.27
Effect size for difference ²		0.01	‡	0.01	0.01	#	0.01	‡	#	#	0.04	0.05	0.01

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbacca- laureate	Public 4-year non- doctorate- granting primarily bacca- laureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
STNDONLY	State need-based grants												
Before imputation													
Mean percent relative bias across characteristics		8.22	4.09	9.53	9.39	18.17	10.75	17.15	6.15	7.78	11.87	10.47	14.66
Median percent relative bias across characteristics		3.66	5.52	3.77	5.15	12.36	4.32	12.38	2.61	3.67	4.45	3.02	9.07
Percentage of characteristics with significant bias		46.67	0.00	42.86	24.10	45.65	43.56	0.00	16.85	28.87	5.88	12.94	22.22
Median effect size		0.05	0.08	0.06	0.07	0.13	0.06	0.15	0.03	0.05	0.05	0.04	0.13
After imputation													
Percentage difference between pre- and post- imputation means ¹		4.54*	‡	10.34*	9.70	16.61*	1.45	24.46	3.24	2.59	33.62	0.11	7.73
Effect size for difference ²		0.01	‡	0.02	0.02	0.07	#	0.08	0.01	0.01	0.05	#	0.01
STNOND1	State non-need grants												
Before imputation													
Mean percent relative bias across characteristics		7.42	4.18	8.47	9.69	18.77	9.96	17.15	6.27	6.86	11.16	10.05	13.85
Median percent relative bias across characteristics		3.46	4.52	3.69	5.45	13.28	4.32	12.38	2.78	3.61	4.91	3.23	8.61
Percentage of characteristics with significant bias		45.38	0.00	38.54	23.17	44.09	43.00	0.00	16.48	27.08	6.94	14.12	22.45
Median effect size		0.05	0.08	0.06	0.06	0.14	0.05	0.15	0.03	0.05	0.05	0.05	0.13
After imputation													
Percentage difference between pre- and post- imputation means ¹		0.21	‡	4.14	21.63	13.85	5.62	31.02	6.39	10.10	24.58	61.97	3.11
Effect size for difference ²		#	‡	0.01	0.03	0.01	0.01	0.02	0.01	0.01	0.01	0.04	#

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
STVETAMT	State Veterans' education benefits												
Before imputation													
Mean percent relative bias across characteristics		8.20	4.09	9.79	8.43	19.09	10.73	17.15	6.13	7.72	11.87	10.83	14.84
Median percent relative bias across characteristics		3.56	5.52	3.81	5.01	14.64	4.03	12.38	2.68	3.50	4.45	2.88	10.04
Percentage of characteristics with significant bias		44.17	0.00	39.39	22.22	44.09	42.57	0.00	17.78	27.84	5.88	14.12	25.25
Median effect size		0.05	0.08	0.06	0.06	0.14	0.05	0.15	0.03	0.05	0.05	0.05	0.13
After imputation													
Percentage difference between pre- and post-imputation means ¹		26.35	‡	39.22	16.47	4.46	25.31	#	89.62	14.65	22.18	#	22.91
Effect size for difference ²		0.01	‡	0.01	#	#	0.01	‡	0.01	#	#	‡	#
STWKAMT	State work-study												
Before imputation													
Mean percent relative bias across characteristics		6.14	‡	7.16	6.64	11.63	8.37	6.33	4.70	6.87	8.15	6.90	11.37
Median percent relative bias across characteristics		2.37	‡	3.20	3.05	7.05	3.90	3.64	1.90	3.59	3.80	2.41	7.06
Percentage of characteristics with significant bias		46.61	‡	51.06	30.77	46.59	45.54	12.50	27.06	32.63	9.38	16.87	26.26
Median effect size		0.03	‡	0.05	0.04	0.08	0.05	0.04	0.03	0.05	0.04	0.04	0.12
After imputation													
Percentage difference between pre- and post-imputation means ¹		3.86	‡	2.51	7.59	18.75	2.85	100.00	4.01	10.39*	#	100.00	12.16
Effect size for difference ²		#	‡	#	#	#	#	0.02	#	#	‡	0.01	#

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
TEACTDER		ACT derived composite score											
Before imputation													
Mean percent relative bias across characteristics		20.33	14.16	16.82	16.38	14.34	11.87	20.31	19.03	18.89	23.25	15.58	36.07
Median percent relative bias across characteristics		13.95	12.10	7.27	11.51	6.49	5.01	15.60	10.86	8.45	19.70	8.13	25.96
Percentage of characteristics with significant bias		79.49	8.33	63.92	40.00	46.81	61.86	22.73	63.54	51.65	35.53	22.99	40.40
Median effect size		0.14	0.19	0.10	0.11	0.10	0.08	0.19	0.14	0.12	0.18	0.11	0.32
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.96*	3.51	1.30*	4.19*	0.71*	0.43*	4.54*	1.46*	1.63*	17.07*	19.38*	7.76*
Effect size for difference ²		0.04	0.13	0.06	0.19	0.03	0.02	0.20	0.06	0.07	0.61	0.69	0.29
TESATDER		SAT derived composite score											
Before imputation													
Mean percent relative bias across characteristics		20.33	14.16	16.82	16.38	14.34	11.87	20.31	19.03	18.89	23.25	15.58	36.07
Median percent relative bias across characteristics		13.95	12.10	7.27	11.51	6.49	5.01	15.60	10.86	8.45	19.70	8.13	25.96
Percentage of characteristics with significant bias		79.49	8.33	63.92	40.00	46.81	61.86	22.73	63.54	51.65	35.53	22.99	40.40
Median effect size		0.14	0.19	0.10	0.11	0.10	0.08	0.19	0.14	0.12	0.18	0.11	0.32
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.76*	1.23	1.17*	3.76*	0.73*	0.38*	4.56*	1.27*	1.41*	15.31*	17.72*	6.96*
Effect size for difference ²		0.04	0.06	0.06	0.21	0.04	0.02	0.24	0.07	0.07	0.64	0.74	0.29

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
TETOOK	Took SAT or ACT exams												
Before imputation													
Mean percent relative bias across characteristics		12.37	6.59	9.98	10.85	9.90	8.42	9.14	11.91	11.65	14.03	10.55	20.59
Median percent relative bias across characteristics		9.20	4.20	5.93	8.64	4.92	3.98	6.68	7.32	5.59	10.19	7.04	16.87
Percentage of characteristics with significant bias		78.26	14.29	65.26	42.35	46.51	64.21	20.00	67.42	61.36	21.05	34.88	40.21
Median effect size		0.09	0.10	0.07	0.07	0.08	0.05	0.07	0.08	0.08	0.11	0.09	0.21
After imputation													
Percentage difference between pre- and post-imputation means ¹		2.97*	‡	3.00*	0.83	3.68*	1.39*	11.04	2.72*	2.42*	12.22*	6.99*	0.90
Effect size for difference ²		0.05	‡	0.03	0.01	0.06	0.03	0.11	0.06	0.05	0.13	0.08	0.01
TFEDAID	Federal aid total												
Before imputation													
Mean percent relative bias across characteristics		8.48	7.86	10.08	7.54	17.23	9.28	15.84	4.52	6.21	13.12	10.79	15.24
Median percent relative bias across characteristics		4.46	7.32	4.31	5.12	12.35	4.30	10.13	2.57	3.87	6.79	3.66	8.81
Percentage of characteristics with significant bias		43.70	0.00	41.41	22.62	41.76	36.00	0.00	16.13	26.32	9.33	11.49	21.21
Median effect size		0.05	0.11	0.06	0.07	0.13	0.05	0.16	0.02	0.06	0.09	0.05	0.18
After imputation													
Percentage difference between pre- and post-imputation means ¹		1.74	‡	0.90	3.76	4.30	0.93	14.77	0.46	0.01	3.34	1.45	0.86
Effect size for difference ²		0.01	‡	0.01	0.02	0.04	0.01	0.17	#	#	0.04	0.01	0.01

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
TFEDGRT	Federal grants												
Before imputation													
Mean percent relative bias across characteristics		8.48	7.86	10.08	7.54	17.23	9.28	15.84	4.52	6.21	13.12	10.79	15.24
Median percent relative bias across characteristics		4.46	7.32	4.31	5.12	12.35	4.30	10.13	2.57	3.86	6.79	3.66	8.81
Percentage of characteristics with significant bias		43.70	0.00	41.41	22.62	41.76	36.00	0.00	16.13	26.32	9.33	11.49	21.21
Median effect size		0.05	0.11	0.06	0.07	0.13	0.05	0.16	0.02	0.06	0.09	0.05	0.18
After imputation													
Percentage difference between pre- and post-imputation means ¹		1.93*	‡	2.71	3.17	13.36*	0.54	9.78	0.28	3.35	1.27	1.02	0.72
Effect size for difference ²		0.01	‡	0.02	0.02	0.09	#	0.11	#	0.01	0.01	0.01	0.01
TFEDLN	Federal student loans												
Before imputation													
Mean percent relative bias across characteristics		6.02	‡	6.90	7.00	10.88	8.06	17.59	4.88	5.43	11.00	9.51	13.30
Median percent relative bias across characteristics		2.59	‡	3.31	3.45	6.04	3.10	10.47	2.27	2.60	4.36	3.65	8.43
Percentage of characteristics with significant bias		44.92	‡	47.87	28.05	36.78	41.58	1.82	19.77	27.37	7.46	14.29	24.24
Median effect size		0.03	‡	0.03	0.05	0.08	0.04	0.12	0.03	0.03	0.05	0.04	0.12
After imputation													
Percentage difference between pre- and post-imputation means ¹		4.87*	‡	3.55*	4.66*	2.67	4.64*	9.53	2.82*	5.77	2.30	4.29*	2.12
Effect size for difference ²		0.02	‡	0.01	0.02	0.02	0.03	0.09	0.02	0.03	0.02	0.03	0.02

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
TFEDWRK	Federal work-study												
Before imputation													
Mean percent relative bias across characteristics		6.41	‡	7.11	6.67	11.53	8.59	7.64	4.76	6.87	9.19	8.05	13.95
Median percent relative bias across characteristics		2.59	‡	3.06	3.19	7.98	3.81	2.02	2.04	3.76	4.40	2.78	8.56
Percentage of characteristics with significant bias		45.76	‡	52.13	32.05	47.19	45.54	6.52	29.89	32.63	13.24	18.60	26.26
Median effect size		0.04	‡	0.05	0.05	0.08	0.05	0.03	0.03	0.05	0.06	0.04	0.13
After imputation													
Percentage difference between pre- and post-imputation means ¹		1.18	‡	1.79	12.30	7.65	1.17	49.26*	2.23*	2.81	77.68*	27.52*	17.74*
Effect size for difference ²		#	‡	#	0.01	0.01	#	0.04	0.01	0.01	0.06	0.02	0.02
TITIVAMT	Federal Title IV aid												
Before imputation													
Mean percent relative bias across characteristics		7.53	3.95	8.58	10.31	15.43	9.99	9.98	5.51	7.35	13.41	10.92	17.46
Median percent relative bias across characteristics		3.25	4.27	3.55	5.26	9.82	3.83	2.69	2.74	3.46	4.98	3.58	9.72
Percentage of characteristics with significant bias		42.50	0.00	38.14	26.44	45.16	40.59	8.00	22.83	30.21	9.86	13.64	25.49
Median effect size		0.04	0.08	0.05	0.06	0.10	0.06	0.04	0.03	0.05	0.07	0.04	0.18
After imputation													
Percentage difference between pre- and post-imputation means ¹		0.27	‡	0.28	3.62	0.47	0.18	3.71	1.32	0.27	4.32	0.91	1.57
Effect size for difference ²		#	‡	#	0.02	#	#	0.04	0.01	#	0.05	0.01	0.01

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
TOTAID	Total aid												
Before imputation													
Mean percent relative bias across characteristics		12.76	16.87	12.73	18.07	19.80	10.46	23.29	9.74	11.76	19.78	16.30	20.03
Median percent relative bias across characteristics		8.59	16.69	9.50	10.25	15.57	5.28	11.60	5.88	8.62	16.19	10.54	11.73
Percentage of characteristics with significant bias		60.68	5.77	48.96	36.56	37.76	40.78	2.90	35.35	30.39	14.81	29.21	24.75
Median effect size		0.08	0.23	0.11	0.12	0.17	0.08	0.16	0.07	0.08	0.19	0.14	0.18
After imputation													
Percentage difference between pre- and post-imputation means ¹		16.19*	33.83*	17.92*	9.39*	9.01*	5.84*	3.17	10.40*	8.56*	5.95	13.36*	8.52*
Effect size for difference ²		0.12	0.31	0.12	0.07	0.09	0.06	0.04	0.11	0.08	0.06	0.13	0.09
TOTGRT	Total grants												
Before imputation													
Mean percent relative bias across characteristics		12.85	16.54	12.75	18.03	19.97	10.48	23.16	9.79	11.24	19.66	16.23	19.40
Median percent relative bias across characteristics		8.94	15.81	9.31	10.53	16.28	5.17	12.13	5.94	8.51	15.79	10.85	10.87
Percentage of characteristics with significant bias		60.68	0.00	47.92	38.71	39.80	40.78	2.90	35.35	30.39	14.81	30.34	22.77
Median effect size		0.08	0.23	0.11	0.11	0.18	0.08	0.16	0.07	0.08	0.19	0.14	0.18
After imputation													
Percentage difference between pre- and post-imputation means ¹		18.06*	14.88	17.98*	8.42	2.51	6.28*	4.13	16.15*	5.60	0.74	14.06*	10.18*
Effect size for difference ²		0.10	0.13	0.12	0.06	0.02	0.04	0.04	0.13	0.04	0.01	0.13	0.08

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
TOTLOAN	Total loans												
Before imputation													
Mean percent relative bias across characteristics		10.31	7.78	8.92	11.91	11.27	9.37	17.60	9.45	10.24	17.59	13.48	17.15
Median percent relative bias across characteristics		5.02	6.93	3.57	6.80	6.38	3.93	10.34	5.00	5.49	11.30	8.54	12.45
Percentage of characteristics with significant bias		66.67	15.56	45.92	31.91	29.70	40.57	5.26	41.18	34.62	22.89	25.27	34.62
Median effect size		0.05	0.12	0.04	0.06	0.08	0.03	0.09	0.06	0.05	0.16	0.10	0.14
After imputation													
Percentage difference between pre- and post- imputation means ¹		2.78	17.26	1.54	7.45*	0.18	1.95	7.23	3.65	2.78	5.87	12.60*	8.81*
Effect size for difference ²		0.01	0.07	0.01	0.03	#	0.01	0.07	0.03	0.02	0.05	0.10	0.07
TOTWKST	Work-study												
Before imputation													
Mean percent relative bias across characteristics		6.58	‡	7.62	6.68	11.55	8.61	7.64	6.00	6.98	9.31	8.25	13.97
Median percent relative bias across characteristics		2.93	‡	3.21	3.38	7.66	3.47	2.02	2.14	3.74	4.08	3.18	8.59
Percentage of characteristics with significant bias		47.46	‡	53.68	32.05	46.07	42.57	6.52	25.27	32.63	13.24	18.60	26.26
Median effect size		0.04	‡	0.05	0.05	0.08	0.05	0.03	0.03	0.05	0.06	0.04	0.13
After imputation													
Percentage difference between pre- and post- imputation means ¹		0.20	‡	0.64	9.25	8.52	0.36	53.79*	0.21	0.29	83.34*	24.98*	15.36
Effect size for difference ²		#	‡	#	0.01	0.01	#	0.04	#	#	0.06	0.02	0.01

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbacca- laureate	Public 4-year non- doctorate- granting primarily bacca- laureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
USBORN	Born in the U.S. (student)												
Before imputation													
Mean percent relative bias across characteristics		9.56	9.97	10.08	13.06	8.34	7.38	12.87	9.29	8.58	13.04	12.23	13.37
Median percent relative bias across characteristics		5.47	9.37	4.05	8.62	5.70	3.88	7.56	5.59	3.88	6.80	7.16	8.98
Percentage of characteristics with significant bias		67.23	20.00	52.04	36.17	31.00	46.67	25.68	45.10	30.77	19.28	35.16	34.62
Median effect size		0.07	0.16	0.05	0.07	0.06	0.05	0.09	0.06	0.04	0.08	0.09	0.11
After imputation													
Percentage difference between pre- and post- imputation means ¹		8.21*	4.59	9.00*	10.47*	8.28*	7.94*	0.31	4.73*	6.70*	13.30*	15.43*	6.90*
Effect size for difference ²		0.11	‡	0.13	0.15	0.12	0.11	#	0.07	0.08	0.23	0.23	0.09
USEIDR	Likelihood of using income-driven student loan repayment plans												
Before imputation													
Mean percent relative bias across characteristics		29.14	8.97	50.34	42.42	30.74	25.68	23.72	21.17	20.16	14.16	15.94	33.11
Median percent relative bias across characteristics		21.60	11.94	26.13	23.70	23.48	16.58	16.90	15.73	13.43	9.74	11.50	26.06
Percentage of characteristics with significant bias		69.49	0.00	46.15	19.77	43.68	50.51	18.97	32.99	36.17	9.72	17.65	23.30
Median effect size		0.29	0.25	0.33	0.35	0.30	0.24	0.24	0.20	0.20	0.12	0.13	0.33
After imputation													
Percentage difference between pre- and post- imputation means ¹		2.90	‡	6.82	22.35*	8.67*	4.16	47.41*	6.21	5.17*	9.95	12.42	4.30
Effect size for difference ²		0.03	‡	0.08	0.30	‡	0.05	‡	0.08	0.06	0.11	0.13	0.06

See notes at end of table.

**Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution:
2015–16—Continued**

Variable	Variable label	Overall	Public less- than- 2-year	Public 2-year	Public 4-year non- doctorate- granting primarily subbaccalaureate	Public 4-year non- doctorate- granting primarily baccalaureate	Public 4-year doctorate- granting	Private nonprofit less- than- 4-year	Private nonprofit 4-year non- doctorate- granting	Private nonprofit 4-year doctorate- granting	Public less- than- 2-year	Private for-profit 2-year	Private for-profit 4-year
USELFP		Likelihood of using loan forgiveness program											
Before imputation													
Mean percent relative bias across characteristics		28.04	6.80	48.19	37.07	28.28	24.17	16.87	20.50	20.19	13.58	14.37	30.71
Median percent relative bias across characteristics		19.41	2.75	27.43	22.67	21.21	16.86	10.36	15.67	16.22	10.28	11.26	23.75
Percentage of characteristics with significant bias		70.34	0.00	46.07	30.49	45.35	48.48	7.02	38.54	44.21	5.88	15.66	26.73
Median effect size		0.29	0.12	0.33	0.30	0.27	0.23	0.16	0.17	0.19	0.14	0.13	0.30
After imputation													
Percentage difference between pre- and post-imputation means ¹		2.05	‡	3.74	5.92	13.07*	4.24	12.55	5.40	1.77	12.18	10.86*	6.84*
Effect size for difference ²		0.02	‡	0.04	0.07	0.14	0.04	‡	0.06	0.03	0.14	0.13	0.08
VOHELP		Vocational rehabilitation and training											
Before imputation													
Mean percent relative bias across characteristics		8.18	4.18	9.15	9.59	19.01	12.29	17.15	6.57	6.38	11.16	9.92	15.61
Median percent relative bias across characteristics		4.44	4.52	3.69	5.06	14.79	5.21	12.38	2.79	3.54	4.91	3.31	10.00
Percentage of characteristics with significant bias		48.28	0.00	38.78	23.46	45.45	43.30	0.00	18.60	29.76	6.94	14.29	29.79
Median effect size		0.05	0.08	0.06	0.06	0.15	0.07	0.15	0.03	0.06	0.05	0.05	0.15
After imputation													
Percentage difference between pre- and post-imputation means ¹		4.32	‡	18.33	14.31	5.65	10.76	27.39	23.49	2.79	11.87	5.30	10.85
Effect size for difference ²		#	‡	0.01	0.01	#	#	0.03	0.01	#	0.01	#	#

See notes at end of table.

Table J-74. Summary of item nonresponse bias analysis for all students, by selected variables and control and level of institution: 2015–16—Continued

Variable	Variable label	Overall	Public less-than-2-year	Public 2-year	Public 4-year non-doctorate-granting primarily subbaccalaureate	Public 4-year non-doctorate-granting primarily baccalaureate	Public 4-year doctorate-granting	Private nonprofit less-than-4-year	Private nonprofit 4-year non-doctorate-granting	Private nonprofit 4-year doctorate-granting	Public less-than-2-year	Private for-profit 2-year	Private for-profit 4-year
WAIVNOEMP	Institutional tuition & fee waivers except for those to staff												
Before imputation													
Mean percent relative bias across characteristics		8.05	4.18	10.11	8.43	18.02	9.89	15.43	6.43	6.81	11.00	9.01	13.96
Median percent relative bias across characteristics		4.37	4.52	4.82	5.12	12.92	3.86	10.47	2.85	3.52	5.64	3.30	9.59
Percentage of characteristics with significant bias		48.74	0.00	45.92	23.46	43.48	39.00	0.00	19.57	27.08	4.41	13.10	24.49
Median effect size		0.05	0.08	0.06	0.06	0.14	0.05	0.16	0.03	0.05	0.05	0.05	0.13
After imputation													
Percentage difference between pre- and post-imputation means ¹		1.01	‡	32.59	41.58	7.42	1.69	53.52	4.45	3.13	6.61	4.56	17.75
Effect size for difference ²		#	‡	0.02	0.03	0.01	#	0.04	#	#	#	#	0.02

Rounds to zero.

‡ Not applicable.

‡ Reporting standards not met (fewer than 30 unweighted nonrespondents).

* The difference between the weighted pre- and post-imputation means (using the student analysis weights) is significant at the 0.05 level. For categorical variables, at least one category difference is significant.

¹ For categorical variables, this is the size-weighted average percentage difference across categories pre- and post-imputation. “Size” refers to the unweighted count of eligible students in a category.² For categorical variables, the effect size is calculated as the square root of the sum over categories of the squared differences over weighted post-imputation means, using the student analysis weight. For continuous variables it is calculated as the weighted difference over the post-imputation standard deviation.

NOTE: Relative bias and effect size before imputation are calculated using the weighted differences between respondent and full-sample means, using the student base weight (student sampling weight adjusted for student multiplicity and unknown eligibility). Relative bias is defined as 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. Characteristics that did not meet reporting standards were excluded from calculation of summary statistics. The variables shown in the table are variables that were imputed. Some of these variables were used to derive analysis variables but are not analysis variables themselves. For a full list of analysis variables, see appendix N.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

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Appendix K: Weighted-Analysis Considerations

The NPSAS:16 sampling design was a stratified two-stage design. A stratified sample of postsecondary institutions was selected with probabilities proportional to a composite measure of size at the first stage, and a stratified systematic sample of students was selected from sample institutions at the second stage. At the first stage, about 29 percent of the eligible institutions were selected, but the institution sampling rates varied considerably by institutional sampling strata.¹ At the second stage, several groups of students were sampled at higher rates than other students, as described in chapter 2.

When analyzing data from a survey with a complex sample design, such as NPSAS:16, the design needs to be taken into account. A common assumption for variance estimation is that the survey used simple random sampling, rather than using a complex 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 that were developed to address this issue include first-order Taylor-series expansion of the variance equation, bootstrap replication, balanced repeated replication, and the Jackknife approach (see, e.g., Wolter 1985). 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:

SUDAAN: <http://www.rti.org/sudaan>;

Stata: <http://www.stata.com>;

SAS: <http://www.sas.com>;

R: <https://www.r-project.org/>;

WesVar: <https://www.westat.com/our-work/information-systems/wesvar-support>;

SPSS: <http://www.spss.com>; and

NCES PowerStats: <http://nces.ed.gov/datalab/index.aspx>.

When computing standard errors by using Taylor-series approximation, analysts should use the variables ANALSTR and ANALPSU in specifying analysis strata and

¹ From about 4 percent for for-profit less-than-2-year institutions to 100 percent for public 4-year doctorate-granting institutions. For more details, see chapter 2.

analysis primary sampling units (PSUs). 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 student (analysis) weight (WTA000).

Below is an example of generic SUDAAN code to produce estimates and standard errors, using Taylor-series approximation and not accounting for the FPC. 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 in order to run this analysis.

```
PROC DESCRIPT DATA=/* INSERT FILENAME */ DESIGN=WR;  
NEST ANALSTR 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 FANALSTR, FANALPSU, FANALSSU, and PSUCOUNT in specifying analysis strata, analysis PSUs, analysis secondary sampling units (SSUs), and estimated number of PSUs in the stratum. This method of variance estimation accounts for the 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 the FPC. The dataset must be sorted by the analysis strata, analysis PSUs, and analysis SSUs in order to run this analysis.

```

PROC DESCRIPT DATA=/* INSERT FILENAME */ DESIGN=WOR;
  NEST FANALSTR FANALPSU FANALSSU;
  TOTCNT PSUCOUNT _MINUS1__ __ZERO_;
  WEIGHT WTA000;
  VAR /* INSERT VARIABLES */;
  SUBPOPN /* INSERT DOMAIN OF INTEREST */;
  PRINT NSUM MEAN SEMEAN / STYLE=NCHS;
RUN;

```

When computing standard errors by using bootstrap replication, the analyst should specify the bootstrap weights WTA001–WTA200 in addition to specifying WTA000.

Below is an example of generic SUDAAN code to produce estimates and standard errors with the use of bootstrap replication. 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;

```

If one must perform an analysis of NPSAS:16 data without using one of the software packages for analysis of complex survey data, then the design effects tables that are presented in appendix L 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 L-3 shows design effects (DEFFs) and square roots of design effects (DEFTs) for undergraduate students at public 2-year institutions. If one has computed a statistic not listed in the table (e.g., mean Stafford Loan amount) for this domain of students, then the summary statistics from table L-3 suggest that the standard error based on the assumption of a simple random sample design be multiplied by a survey DEFT of about 1.23 (the median for this domain). The range of DEFTs shown in table L-3

for this domain, however, is about zero to 2.33. See chapter 7 for more discussion about the use of design effects.

Appendix K 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.

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Appendix L: Design Effects

Table L-1. Design effects for all undergraduate students: 2015-16

Variable	Defined as	Percent estimate	Design standard error	Simple random sample standard error	DEFT ¹	DEFF ²
				error		
Received any aid	TOTAID>0	72.35	0.22	0.15	1.45	2.11
Received any federal aid	TFEDAID>0	54.53	0.12	0.17	0.71	0.50
Received any state grant aid	STGTAMT>0	21.88	0.31	0.14	2.25	5.08
Received any Institution grant aid	INGRTAMT>0	24.36	0.28	0.14	1.97	3.87
Received any work-study aid	TOTWKST>0	5.19	0.14	0.07	1.90	3.61
Received a Pell grant	PELLAMT>0	39.14	#	0.16	#	#
Received a Direct Loan	STAFFAMT>0	36.24	0.07	0.16	0.45	0.20
Subsidized	STAFSUB>0	31.45	#	0.16	#	#
Unsubsidized	STAFUNSB>0	30.28	#	0.15	#	#
Married	SMARITAL=2	15.14	0.20	0.12	1.67	2.80
U.S. citizen	CITIZEN2=1	92.66	0.19	0.09	2.23	4.95
Enrolled in a bachelor's degree program	UGDEG=3	46.69	0.25	0.17	1.50	2.25
Enrolled exclusively full-time	ATTNPTRN=1	43.59	0.37	0.17	2.24	5.02
Enrolled part-time or part-year	ATTNSTAT in (3, 4, 5, 6)	62.34	0.25	0.16	1.54	2.39
Received any employer aid	EMPLYAM3>0	6.02	0.14	0.08	1.76	3.11
Worked while in school	JOBENR in (2, 3)	60.89	0.27	0.16	1.67	2.78
Worked full-time while in school	JOBENR=3	25.17	0.25	0.15	1.74	3.04
Worked part-time while in school	JOBENR=2	35.71	0.28	0.16	1.72	2.95
Has a disability	DISABLE=1	19.49	0.21	0.13	1.60	2.55
Attended more than one Institution in 2015–16	STUDMULT>1	9.73	0.33	0.10	3.29	10.82
Has dependents other than a spouse	DEPANY=1	23.85	0.28	0.14	1.95	3.79
U.S. Armed Forces veteran	VETERAN=1	4.86	0.11	0.07	1.48	2.18
Ever attended a community college	EVER2PUB=1	61.95	0.21	0.16	1.29	1.67
Major with a focus in STEM	STEMMAJ in (1, 2)	23.71	0.24	0.14	1.66	2.75
Summary statistics						
Minimum		†	†	†	#	#
25th percentile		†	†	†	1.37	1.89
Median		†	†	†	1.66	2.76
75th percentile		†	†	†	1.92	3.70
Maximum		†	†	†	3.29	10.82

† 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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table L-2. Design effects for undergraduate students at public less-than-2-year institutions: 2015-16

Variable	Defined as	Percent estimate	Design standard error	Simple random sample standard error	DEFT ¹	DEFF ²
				error		
Received any aid	TOTAID>0	71.01	5.98	2.39	2.50	6.23
Received any federal aid	TFEDAID>0	45.21	1.97	2.63	0.75	0.56
Received any state grant aid	STGTAMT>0	8.43	1.85	1.47	1.26	1.60
Received any Institution grant aid	INGRTAMT>0	23.00	5.72	2.22	2.57	6.62
Received any work-study aid	TOTWKST>0	1.26	1.06	0.59	1.80	3.24
Received a Pell grant	PELLAMT>0	37.32	1.51	2.55	0.59	0.35
Received a Direct Loan	STAFFAMT>0	15.97	0.50	1.93	0.26	0.07
Subsidized	STAFSUB>0	13.96	#	1.83	#	#
Unsubsidized	STAFUNSB>0	14.20	#	1.84	#	#
Married	SMARITAL=2	18.96	1.24	2.07	0.60	0.36
U.S. citizen	CITIZEN2=1	96.75	1.66	0.94	1.77	3.15
Enrolled in a bachelor's degree program	UGDEG=3	†	†	†	†	†
Enrolled exclusively full-time	ATTNPTRN=1	65.21	5.65	2.51	2.25	5.04
Enrolled part-time or part-year	ATTNSTAT in (3, 4, 5, 6)	72.01	5.47	2.37	2.31	5.33
Received any employer aid	EMPLYAM3>0	4.76	1.62	1.12	1.44	2.07
Worked while in school	JOBENR in (2,3)	49.35	4.72	2.64	1.79	3.20
Worked full-time while in school	JOBENR=3	16.93	2.90	1.98	1.47	2.15
Worked part-time while in school	JOBENR=2	32.42	3.62	2.47	1.47	2.15
Has a disability	DISABLE=1	20.67	2.53	2.14	1.18	1.40
Attended more than one institution in 2015–16	STUDMULT>1	2.93	1.09	0.89	1.23	1.50
Has dependents other than a spouse	DEPANY=1	41.58	2.09	2.60	0.80	0.65
U.S. Armed Forces veteran	VETERAN=1	6.30	1.10	1.28	0.86	0.74
Ever attended a community college	EVER2PUB=1	40.99	2.64	2.60	1.02	1.04
Major with a focus in STEM	STEMMAJ in (1, 2)	6.95	1.95	1.34	1.45	2.12
Summary statistics						
Minimum		†	†	†	#	#
25th percentile		†	†	†	0.75	0.56
Median		†	†	†	1.26	1.60
75th percentile		†	†	†	1.79	3.20
Maximum		†	†	†	2.57	6.62

† 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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table L-3. Design effects for undergraduate students at public 2-year institutions: 2015-16

				Simple random sample		
		Percent	Design	standard		
Variable	Defined as	estimate	standard error	error	DEFT ¹	DEFF ²
Received any aid	TOTAID>0	58.39	0.46	0.39	1.16	1.34
Received any federal aid	TFEDAID>0	40.02	0.25	0.39	0.63	0.40
Received any state grant aid	STGTAMT>0	22.55	0.60	0.33	1.79	3.22
Received any Institution grant aid	INGRTAMT>0	6.52	0.36	0.20	1.83	3.35
Received any work-study aid	TOTWKST>0	1.89	0.25	0.11	2.33	5.43
Received a Pell grant	PELLAMT>0	33.85	0.18	0.38	0.48	0.23
Received a Direct Loan	STAFFAMT>0	14.40	0.08	0.28	0.30	0.09
Subsidized	STAFSUB>0	12.34	#	0.26	#	#
Unsubsidized	STAFUNSB>0	10.06	#	0.24	#	#
Married	SMARITAL=2	18.20	0.42	0.31	1.37	1.89
U.S. citizen	CITIZEN2=1	91.57	0.32	0.22	1.46	2.13
Enrolled in a bachelor's degree program	UGDEG=3	†	†	†	†	†
Enrolled exclusively full-time	ATTNPTRN=1	24.47	0.51	0.34	1.49	2.22
Enrolled part-time or part-year	ATTNSTAT in (3, 4, 5, 6)	81.80	0.37	0.31	1.20	1.45
Received any employer aid	EMPLYAM3>0	5.10	0.21	0.18	1.22	1.48
Worked while in school	JOBENR in (2,3)	66.59	0.51	0.38	1.36	1.85
Worked full-time while in school	JOBENR=3	31.02	0.47	0.37	1.27	1.61
Worked part-time while in school	JOBENR=2	35.57	0.53	0.38	1.37	1.89
Has a disability	DISABLE=1	20.62	0.40	0.32	1.24	1.53
Attended more than one institution in 2015–16	STUDMULT>1	9.72	0.27	0.24	1.16	1.34
Has dependents other than a spouse	DEPANY=1	27.71	0.45	0.36	1.26	1.59
U.S. Armed Forces veteran	VETERAN=1	5.33	0.18	0.18	1.01	1.02
Ever attended a community college	EVER2PUB=1	100.00	#	#	†	†
Major with a focus in STEM	STEMMAJ in (1, 2)	16.98	0.36	0.30	1.20	1.45
Summary statistics						
Minimum		†	†	†	#	#
25th percentile		†	†	†	1.01	1.02
Median		†	†	†	1.23	1.50
75th percentile		†	†	†	1.37	1.89
Maximum		†	†	†	2.33	5.43

† 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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table L-4. Design effects for undergraduate students at public 4-year non-doctorate-granting primarily sub-baccalaureate institutions: 2015-16

Variable	Defined as	Percent estimate	Design standard error	Simple random sample standard error	DEFT ¹	DEFF ²
				error		
Received any aid	TOTAID>0	60.28	1.14	0.69	1.65	2.73
Received any federal aid	TFEDAID>0	43.18	0.67	0.70	0.96	0.93
Received any state grant aid	STGTAMT>0	14.66	0.84	0.50	1.69	2.84
Received any Institution grant aid	INGRTAMT>0	11.73	1.02	0.45	2.24	5.03
Received any work-study aid	TOTWKST>0	1.48	0.24	0.17	1.40	1.97
Received a Pell grant	PELLAMT>0	35.25	0.61	0.67	0.90	0.82
Received a Direct Loan	STAFFAMT>0	17.48	0.29	0.54	0.53	0.28
Subsidized	STAFSUB>0	14.85	#	0.50	#	#
Unsubsidized	STAFUNSB>0	12.17	#	0.46	#	#
Married	SMARITAL=2	18.05	0.85	0.54	1.58	2.48
U.S. citizen	CITIZEN2=1	91.71	0.87	0.39	2.23	4.95
Enrolled in a bachelor's degree program	UGDEG=3	20.27	1.49	0.57	2.63	6.93
Enrolled exclusively full-time	ATTNPTRN=1	22.47	1.11	0.59	1.88	3.54
Enrolled part-time or part-year	ATTNSTAT in (3, 4, 5, 6)	78.87	0.94	0.58	1.63	2.66
Received any employer aid	EMPLYAM3>0	8.23	0.91	0.39	2.34	5.49
Worked while in school	JOBENR in (2,3)	66.22	1.30	0.67	1.95	3.79
Worked full-time while in school	JOBENR=3	30.17	1.46	0.65	2.26	5.11
Worked part-time while in school	JOBENR=2	36.05	1.17	0.68	1.73	3.00
Has a disability	DISABLE=1	19.68	0.75	0.56	1.34	1.80
Attended more than one Institution in 2015–16	STUDMULT>1	7.38	0.37	0.37	0.99	0.98
Has dependents other than a spouse	DEPANY=1	23.95	1.31	0.60	2.18	4.75
U.S. Armed Forces veteran	VETERAN=1	5.06	0.33	0.31	1.08	1.17
Ever attended a community college	EVER2PUB=1	27.97	1.44	0.63	2.28	5.19
Major with a focus in STEM	STEMMAJ in (1, 2)	18.02	0.94	0.54	1.74	3.03
Summary statistics						
Minimum		†	†	†	#	#
25th percentile		†	†	†	1.04	1.07
Median		†	†	†	1.67	2.79
75th percentile		†	†	†	2.20	4.85
Maximum		†	†	†	2.63	6.93

† 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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table L-5. Design effects for undergraduate students at public 4-year non-doctorate-granting primarily baccalaureate institutions: 2015-16

Variable	Defined as	Percent estimate	Design standard error	Simple random sample standard error	DEFT ¹	DEFF ²
Received any aid	TOTAID>0	77.56	0.79	0.61	1.29	1.67
Received any federal aid	TFEDAID>0	62.41	0.88	0.71	1.24	1.55
Received any state grant aid	STGTAMT>0	31.39	1.58	0.68	2.32	5.36
Received any Institution grant aid	INGRTAMT>0	23.93	1.51	0.63	2.42	5.85
Received any work-study aid	TOTWKST>0	4.08	0.51	0.29	1.75	3.08
Received a Pell grant	PELLAMT>0	40.28	0.55	0.72	0.77	0.59
Received a Direct Loan	STAFFAMT>0	43.99	0.48	0.73	0.66	0.44
Subsidized	STAFSUB>0	36.32	#	0.71	#	#
Unsubsidized	STAFUNSB>0	35.44	#	0.70	#	#
Married	SMARITAL=2	12.82	1.24	0.49	2.52	6.36
U.S. citizen	CITIZEN2=1	92.13	0.83	0.39	2.11	4.45
Enrolled in a bachelor's degree program	UGDEG=3	93.55	1.31	0.36	3.65	13.29
Enrolled exclusively full-time	ATTNPTRN=1	54.36	1.43	0.73	1.96	3.85
Enrolled part-time or part-year	ATTNSTAT in (3, 4, 5, 6)	49.55	1.45	0.73	1.98	3.91
Received any employer aid	EMPLYAM3>0	6.84	0.63	0.37	1.69	2.85
Worked while in school	JOBENR in (2, 3)	54.22	1.25	0.73	1.71	2.93
Worked full-time while in school	JOBENR=3	17.69	1.02	0.56	1.82	3.30
Worked part-time while in school	JOBENR=2	36.53	1.06	0.71	1.50	2.24
Has a disability	DISABLE=1	16.89	0.93	0.55	1.69	2.87
Attended more than one institution in 2015–16	STUDMULT>1	8.93	0.57	0.42	1.35	1.84
Has dependents other than a spouse	DEPANY=1	15.87	1.13	0.54	2.11	4.46
U.S. Armed Forces veteran	VETERAN=1	3.54	0.31	0.27	1.14	1.29
Ever attended a community college	EVER2PUB=1	37.88	2.03	0.71	2.86	8.17
Major with a focus in STEM	STEMMAJ in (1, 2)	29.85	1.33	0.67	1.98	3.91
Summary statistics						
Minimum		†	†	†	#	#
25th percentile		†	†	†	1.27	1.61
Median		†	†	†	1.73	3.00
75th percentile		†	†	†	2.11	4.46
Maximum		†	†	†	3.65	13.29

† 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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table L-6. Design effects for undergraduate students at public 4-year doctorate-granting institutions: 2015-16

Variable	Defined as	Percent estimate	Design standard error	Simple random sample standard error	DEFT ¹	DEFF ²
				error		
Received any aid	TOTAID>0	81.08	0.31	0.28	1.10	1.20
Received any federal aid	TFEDAID>0	62.68	0.27	0.35	0.77	0.59
Received any state grant aid	STGTAMT>0	28.32	0.47	0.33	1.44	2.07
Received any Institution grant aid	INGRTAMT>0	35.39	0.47	0.35	1.35	1.83
Received any work-study aid	TOTWKST>0	6.09	0.26	0.17	1.50	2.26
Received a Pell grant	PELLAMT>0	38.51	0.19	0.35	0.55	0.30
Received a Direct Loan	STAFFAMT>0	51.54	0.18	0.36	0.50	0.25
Subsidized	STAFSUB>0	43.37	#	0.36	#	#
Unsubsidized	STAFUNSB>0	43.06	#	0.36	#	#
Married	SMARITAL=2	7.81	0.26	0.19	1.34	1.80
U.S. citizen	CITIZEN2=1	93.28	0.30	0.18	1.63	2.67
Enrolled in a bachelor's degree program	UGDEG=3	97.15	0.22	0.12	1.85	3.42
Enrolled exclusively full-time	ATTNPTRN=1	56.27	0.57	0.36	1.58	2.50
Enrolled part-time or part-year	ATTNSTAT in (3, 4, 5, 6)	38.99	0.43	0.35	1.22	1.49
Received any employer aid	EMPLYAM3>0	5.02	0.22	0.16	1.41	1.99
Worked while in school	JOBENR in (2,3)	56.37	0.51	0.36	1.42	2.02
Worked full-time while in school	JOBENR=3	13.44	0.37	0.25	1.51	2.27
Worked part-time while in school	JOBENR=2	42.93	0.51	0.36	1.42	2.00
Has a disability	DISABLE=1	17.27	0.40	0.27	1.45	2.09
Attended more than one institution in 2015–16	STUDMULT>1	10.79	0.25	0.23	1.10	1.22
Has dependents other than a spouse	DEPANY=1	10.14	0.33	0.22	1.51	2.28
U.S. Armed Forces veteran	VETERAN=1	3.04	0.11	0.12	0.88	0.78
Ever attended a community college	EVER2PUB=1	39.49	0.46	0.36	1.30	1.70
Major with a focus in STEM	STEMMAJ in (1, 2)	36.74	0.47	0.35	1.35	1.83
Summary statistics						
Minimum		†	†	†	#	#
25th percentile		†	†	†	0.99	0.99
Median		†	†	†	1.35	1.83
75th percentile		†	†	†	1.48	2.18
Maximum		†	†	†	1.85	3.42

† 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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table L-7. Design effects for undergraduate students at private nonprofit less-than-4-year institutions: 2015-16

Variable	Defined as	Percent estimate	Design standard error	Simple random sample standard error	DEFT ¹	DEFF ²
Received any aid	TOTAID>0	81.77	1.88	1.15	1.64	2.67
Received any federal aid	TFEDAID>0	74.65	2.52	1.29	1.95	3.81
Received any state grant aid	STGTAMT>0	12.42	6.86	0.98	7.00	48.97
Received any Institution grant aid	INGRTAMT>0	12.95	3.38	1.00	3.39	11.48
Received any work-study aid	TOTWKST>0	1.19	0.59	0.32	1.84	3.38
Received a Pell grant	PELLAMT>0	62.77	1.89	1.44	1.32	1.74
Received a Direct Loan	STAFFAMT>0	60.05	0.69	1.46	0.47	0.22
Subsidized	STAFSUB>0	57.05	#	1.47	#	#
Unsubsidized	STAFUNSB>0	54.89	#	1.48	#	#
Married	SMARITAL=2	16.52	1.34	1.10	1.22	1.48
U.S. citizen	CITIZEN2=1	93.46	2.23	0.73	3.03	9.20
Enrolled in a bachelor's degree program	UGDEG=3	†	†	†	†	†
Enrolled exclusively full-time	ATTNPTRN=1	80.35	8.51	1.18	7.21	51.94
Enrolled part-time or part-year	ATTNSTAT in (3, 4, 5, 6)	58.99	6.22	1.46	4.26	18.12
Received any employer aid	EMPLYAM3>0	3.72	1.11	0.56	1.97	3.89
Worked while in school	JOBENR in (2,3)	61.75	2.59	1.44	1.79	3.21
Worked full-time while in school	JOBENR=3	31.35	3.39	1.38	2.46	6.06
Worked part-time while in school	JOBENR=2	30.39	4.10	1.37	3.00	8.98
Has a disability	DISABLE=1	25.68	3.67	1.30	2.83	7.99
Attended more than one institution in 2015–16	STUDMULT>1	8.75	2.63	0.84	3.14	9.83
Has dependents other than a spouse	DEPANY=1	44.05	3.61	1.48	2.45	5.99
U.S. Armed Forces veteran	VETERAN=1	7.01	1.91	0.76	2.52	6.34
Ever attended a community college	EVER2PUB=1	49.52	5.61	1.49	3.78	14.27
Major with a focus in STEM	STEMMAJ in (1, 2)	5.19	1.76	0.66	2.67	7.10
Summary statistics						
Minimum		†	†	†	#	#
25th percentile		†	†	†	1.64	2.67
Median		†	†	†	2.46	6.06
75th percentile		†	†	†	3.14	9.83
Maximum		†	†	†	7.21	51.94

† 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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table L-8. Design effects for undergraduate students at private nonprofit 4-year non-doctorate-granting institutions: 2015-16

Variable	Defined as	Percent estimate	Design standard error	Simple random sample standard error	DEFT ¹	DEFF ²
				error		
Received any aid	TOTAID>0	86.47	0.52	0.38	1.37	1.88
Received any federal aid	TFEDAID>0	67.91	0.66	0.52	1.26	1.58
Received any state grant aid	STGTAMT>0	19.00	0.72	0.44	1.63	2.66
Received any Institution grant aid	INGRTAMT>0	53.37	1.04	0.56	1.86	3.45
Received any work-study aid	TOTWKST>0	17.39	0.83	0.42	1.96	3.82
Received a Pell grant	PELLAMT>0	41.57	0.37	0.55	0.67	0.44
Received a Direct Loan	STAFFAMT>0	57.33	0.33	0.55	0.60	0.36
Subsidized	STAFSUB>0	49.35	#	0.56	#	#
Unsubsidized	STAFUNSB>0	49.93	#	0.56	#	#
Married	SMARITAL=2	16.97	0.57	0.42	1.37	1.87
U.S. citizen	CITIZEN2=1	94.48	0.45	0.26	1.77	3.12
Enrolled in a bachelor's degree program	UGDEG=3	85.02	1.30	0.40	3.25	10.58
Enrolled exclusively full-time	ATTNPTRN=1	63.86	1.09	0.54	2.04	4.14
Enrolled part-time or part-year	ATTNSTAT in (3, 4, 5, 6)	44.18	0.82	0.56	1.47	2.16
Received any employer aid	EMPLYAM3>0	6.63	0.42	0.28	1.52	2.30
Worked while in school	JOBENR in (2,3)	53.01	0.91	0.56	1.64	2.68
Worked full-time while in school	JOBENR=3	20.51	0.69	0.45	1.53	2.33
Worked part-time while in school	JOBENR=2	32.50	0.80	0.52	1.52	2.32
Has a disability	DISABLE=1	19.04	0.68	0.44	1.55	2.40
Attended more than one institution in 2015–16	STUDMULT>1	8.57	0.56	0.31	1.79	3.21
Has dependents other than a spouse	DEPANY=1	22.45	0.74	0.47	1.59	2.54
U.S. Armed Forces veteran	VETERAN=1	4.02	0.41	0.22	1.85	3.41
Ever attended a community college	EVER2PUB=1	33.12	0.81	0.53	1.53	2.35
Major with a focus in STEM	STEMMAJ in (1, 2)	24.93	1.03	0.48	2.12	4.49
Summary statistics						
Minimum		†	†	†	#	#
25th percentile		†	†	†	1.37	1.87
Median		†	†	†	1.54	2.37
75th percentile		†	†	†	1.82	3.31
Maximum		†	†	†	3.25	10.58

† 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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table L-9. Design effects for undergraduate students at private nonprofit 4-year doctorate-granting institutions: 2015-16

Variable	Defined as	Percent estimate	Design standard error	Simple random sample standard error	DEFT ¹	DEFF ²
				error		
Received any aid	TOTAID>0	87.03	0.52	0.39	1.34	1.79
Received any federal aid	TFEDAID>0	61.80	0.54	0.56	0.96	0.92
Received any state grant aid	STGTAMT>0	17.12	0.80	0.43	1.84	3.38
Received any Institution grant aid	INGRTAMT>0	59.63	0.95	0.57	1.68	2.82
Received any work-study aid	TOTWKST>0	16.48	0.76	0.43	1.79	3.20
Received a Pell grant	PELLAMT>0	33.51	0.42	0.54	0.76	0.58
Received a Direct Loan	STAFFAMT>0	53.23	0.30	0.57	0.53	0.28
Subsidized	STAFSUB>0	46.69	#	0.57	#	#
Unsubsidized	STAFUNSB>0	47.13	#	0.57	#	#
Married	SMARITAL=2	13.07	0.55	0.39	1.43	2.04
U.S. citizen	CITIZEN2=1	92.73	0.53	0.30	1.76	3.10
Enrolled in a bachelor's degree program	UGDEG=3	92.89	1.15	0.30	3.88	15.06
Enrolled exclusively full-time	ATTNPTRN=1	58.49	1.29	0.57	2.28	5.19
Enrolled part-time or part-year	ATTNSTAT in (3, 4, 5, 6)	38.57	0.96	0.56	1.72	2.95
Received any employer aid	EMPLYAM3>0	11.11	0.78	0.36	2.16	4.65
Worked while in school	JOBENR in (2,3)	52.97	0.90	0.57	1.56	2.43
Worked full-time while in school	JOBENR=3	20.88	0.74	0.47	1.58	2.50
Worked part-time while in school	JOBENR=2	32.09	0.74	0.54	1.37	1.88
Has a disability	DISABLE=1	16.53	0.67	0.43	1.57	2.45
Attended more than one institution in 2015–16	STUDMULT>1	8.17	0.36	0.32	1.13	1.28
Has dependents other than a spouse	DEPANY=1	20.57	0.95	0.47	2.04	4.18
U.S. Armed Forces veteran	VETERAN=1	3.62	0.34	0.22	1.58	2.50
Ever attended a community college	EVER2PUB=1	32.09	1.02	0.54	1.90	3.61
Major with a focus in STEM	STEMMAJ in (1, 2)	29.45	0.84	0.52	1.61	2.58
Summary statistics						
Minimum		†	†	†	#	#
25th percentile		†	†	†	1.23	1.53
Median		†	†	†	1.58	2.50
75th percentile		†	†	†	1.81	3.29
Maximum		†	†	†	3.88	15.06

† 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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table L-10. Design effects for undergraduate students at for-profit less-than-2-year institutions: 2015-16

Variable	Defined as	Percent estimate	Design standard error	Simple random sample standard error	DEFT ¹	DEFF ²
				error		
Received any aid	TOTAID>0	83.50	0.95	0.75	1.27	1.61
Received any federal aid	TFEDAID>0	78.29	1.05	0.83	1.26	1.59
Received any state grant aid	STGTAMT>0	5.59	1.16	0.47	2.50	6.24
Received any Institution grant aid	INGRTAMT>0	8.99	2.26	0.58	3.90	15.19
Received any work-study aid	TOTWKST>0	0.86	0.29	0.19	1.58	2.49
Received a Pell grant	PELLAMT>0	68.00	1.00	0.94	1.06	1.13
Received a Direct Loan	STAFFAMT>0	56.02	0.44	1.00	0.44	0.19
Subsidized	STAFSUB>0	52.96	#	1.01	#	#
Unsubsidized	STAFUNSB>0	52.20	#	1.01	#	#
Married	SMARITAL=2	12.36	1.31	0.67	1.96	3.85
U.S. citizen	CITIZEN2=1	94.85	1.36	0.45	3.03	9.18
Enrolled in a bachelor's degree program	UGDEG=3	†	†	†	†	†
Enrolled exclusively full-time	ATTNPTRN=1	81.83	2.94	0.78	3.77	14.19
Enrolled part-time or part-year	ATTNSTAT in (3, 4, 5, 6)	69.28	2.40	0.93	2.57	6.63
Received any employer aid	EMPLYAM3>0	1.61	0.29	0.25	1.15	1.33
Worked while in school	JOBENR in (2,3)	56.95	1.82	1.00	1.82	3.30
Worked full-time while in school	JOBENR=3	27.72	1.59	0.91	1.75	3.07
Worked part-time while in school	JOBENR=2	29.23	1.14	0.92	1.23	1.52
Has a disability	DISABLE=1	21.87	1.25	0.84	1.50	2.24
Attended more than one institution in 2015–16	STUDMULT>1	4.91	0.46	0.44	1.06	1.12
Has dependents other than a spouse	DEPANY=1	43.23	1.71	1.00	1.70	2.90
U.S. Armed Forces veteran	VETERAN=1	4.94	1.98	0.44	4.52	20.41
Ever attended a community college	EVER2PUB=1	38.95	2.21	0.99	2.24	5.00
Major with a focus in STEM	STEMMAJ in (1, 2)	8.25	2.61	0.56	4.68	21.91
Summary statistics						
Minimum		†	†	†	#	#
25th percentile		†	†	†	1.15	1.33
Median		†	†	†	1.70	2.90
75th percentile		†	†	†	2.57	6.63
Maximum		†	†	†	4.68	21.91

† 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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table L-11. Design effects for undergraduate students at for-profit 2-year institutions: 2015-16

Variable	Defined as	Percent estimate	Design standard		Simple random sample standard error	DEFT ¹	DEFF ²
			error	error	error		
Received any aid	TOTAID>0	81.86	1.02	0.50	2.02	4.08	
Received any federal aid	TFEDAID>0	75.99	0.74	0.56	1.33	1.78	
Received any state grant aid	STGTAMT>0	9.38	1.37	0.38	3.61	13.01	
Received any Institution grant aid	INGRTAMT>0	11.65	1.72	0.42	4.11	16.87	
Received any work-study aid	TOTWKST>0	1.32	0.21	0.15	1.42	2.01	
Received a Pell grant	PELLAMT>0	66.24	0.63	0.62	1.02	1.05	
Received a Direct Loan	STAFFAMT>0	51.92	0.25	0.65	0.38	0.14	
Subsidized	STAFSUB>0	49.84	#	0.65	#	#	
Unsubsidized	STAFUNSB>0	48.31	#	0.65	#	#	
Married	SMARITAL=2	16.48	1.28	0.48	2.64	6.98	
U.S. citizen	CITIZEN2=1	91.43	2.51	0.37	6.88	47.27	
Enrolled in a bachelor's degree program	UGDEG=3	†	†	†	†	†	
Enrolled exclusively full-time	ATTNPTRN=1	74.09	2.23	0.57	3.90	15.20	
Enrolled part-time or part-year	ATTNSTAT in (3, 4, 5, 6)	70.68	1.08	0.59	1.82	3.32	
Received any employer aid	EMPLYAM3>0	2.15	0.24	0.19	1.25	1.57	
Worked while in school	JOBENR in (2,3)	55.26	0.90	0.65	1.39	1.93	
Worked full-time while in school	JOBENR=3	30.41	0.93	0.60	1.55	2.39	
Worked part-time while in school	JOBENR=2	24.85	0.68	0.56	1.21	1.46	
Has a disability	DISABLE=1	24.70	0.79	0.56	1.41	1.98	
Attended more than one institution in 2015–16	STUDMULT>1	4.88	0.26	0.28	0.92	0.85	
Has dependents other than a spouse	DEPANY=1	43.45	1.23	0.65	1.90	3.61	
U.S. Armed Forces veteran	VETERAN=1	7.43	0.64	0.34	1.87	3.51	
Ever attended a community college	EVER2PUB=1	37.70	1.53	0.63	2.41	5.83	
Major with a focus in STEM	STEMMAJ in (1, 2)	6.89	0.82	0.33	2.48	6.15	
Summary statistics							
Minimum		†	†	†	#	#	
25th percentile		†	†	†	1.21	1.46	
Median		†	†	†	1.55	2.39	
75th percentile		†	†	†	2.48	6.15	
Maximum		†	†	†	6.88	47.27	

† 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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table L-12. Design effects for undergraduate students at for-profit 4-year institutions: 2015-16

Variable	Defined as	Percent estimate	Design standard		Simple random sample standard	DEFT ¹	DEFF ²
			error	error	error		
Received any aid	TOTAID>0	90.10	0.42	0.21	1.98	3.90	
Received any federal aid	TFEDAID>0	77.73	0.47	0.30	1.59	2.53	
Received any state grant aid	STGTAMT>0	9.41	1.02	0.21	4.91	24.07	
Received any Institution grant aid	INGRTAMT>0	36.88	2.64	0.34	7.68	58.95	
Received any work-study aid	TOTWKST>0	1.17	0.15	0.08	1.93	3.72	
Received a Pell grant	PELLAMT>0	63.56	0.50	0.34	1.46	2.13	
Received a Direct Loan	STAFFAMT>0	66.84	0.24	0.34	0.70	0.49	
Subsidized	STAFSUB>0	62.86	#	0.34	#	#	
Unsubsidized	STAFUNSB>0	62.27	#	0.35	#	#	
Married	SMARITAL=2	25.75	0.75	0.31	2.39	5.73	
U.S. citizen	CITIZEN2=1	96.19	0.36	0.14	2.62	6.85	
Enrolled in a bachelor's degree program	UGDEG=3	57.13	2.91	0.35	8.24	67.84	
Enrolled exclusively full-time	ATTNPTRN=1	54.08	3.43	0.36	9.64	93.00	
Enrolled part-time or part-year	ATTNSTAT in (3, 4, 5, 6)	76.19	1.33	0.30	4.36	19.02	
Received any employer aid	EMPLYAM3>0	8.55	0.54	0.20	2.70	7.30	
Worked while in school	JOBENR in (2,3)	67.97	0.89	0.33	2.67	7.13	
Worked full-time while in school	JOBENR=3	46.37	1.05	0.36	2.96	8.75	
Worked part-time while in school	JOBENR=2	21.59	0.87	0.29	2.97	8.82	
Has a disability	DISABLE=1	25.08	0.68	0.31	2.20	4.83	
Attended more than one institution in 2015–16	STUDMULT>1	15.96	5.13	0.26	19.60	384.35	
Has dependents other than a spouse	DEPANY=1	52.52	1.16	0.36	3.27	10.68	
U.S. Armed Forces veteran	VETERAN=1	11.89	0.67	0.23	2.91	8.49	
Ever attended a community college	EVER2PUB=1	48.59	0.75	0.36	2.11	4.43	
Major with a focus in STEM	STEMMAJ in (1, 2)	18.25	1.00	0.28	3.63	13.20	
Summary statistics							
Minimum		†	†	†	#	#	
25th percentile		†	†	†	1.95	3.81	
Median		†	†	†	2.69	7.22	
75th percentile		†	†	†	4.00	16.11	
Maximum		†	†	†	19.60	384.35	

† 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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table L-13. Design effects for dependent undergraduate students: 2015-16

Variable	Defined as	Percent estimate	Design standard error	Simple random sample standard error	DEFT ¹	DEFF ²
				error		
Received any aid	TOTAID>0	77.11	0.35	0.21	1.67	2.80
Received any federal aid	TFEDAID>0	58.80	0.28	0.24	1.14	1.30
Received any state grant aid	STGTAMT>0	27.22	0.43	0.22	1.93	3.72
Received any Institution grant aid	INGRTAMT>0	33.69	0.36	0.23	1.56	2.42
Received any work-study aid	TOTWKST>0	8.28	0.21	0.14	1.53	2.35
Received a Pell grant	PELLAMT>0	36.59	0.23	0.24	0.98	0.96
Received a Direct Loan	STAFFAMT>0	39.96	0.23	0.24	0.94	0.89
Subsidized	STAFSUB>0	32.70	0.22	0.23	0.93	0.86
Unsubsidized	STAFUNSB>0	33.27	0.20	0.23	0.87	0.76
Married	SMARITAL=2	†	†	†	†	†
U.S. citizen	CITIZEN2=1	93.33	0.23	0.12	1.84	3.38
Enrolled in a bachelor's degree program	UGDEG=3	58.43	0.32	0.24	1.32	1.75
Enrolled exclusively full-time	ATTNPTRN=1	54.73	0.43	0.25	1.73	2.99
Enrolled part-time or part-year	ATTNSTAT in (3, 4, 5, 6)	45.10	0.39	0.25	1.59	2.52
Received any employer aid	EMPLYAM3>0	4.31	0.14	0.10	1.43	2.04
Worked while in school	JOBENR in (2,3)	54.44	0.37	0.25	1.49	2.22
Worked full-time while in school	JOBENR=3	10.31	0.25	0.15	1.64	2.69
Worked part-time while in school	JOBENR=2	44.13	0.35	0.25	1.42	2.03
Has a disability	DISABLE=1	17.22	0.27	0.19	1.45	2.11
Attended more than one institution in 2015–16	STUDMULT>1	10.54	0.19	0.15	1.26	1.59
Has dependents other than a spouse	DEPANY=1	†	†	†	†	†
U.S. Armed Forces veteran	VETERAN=1	0.49	0.04	0.03	1.21	1.45
Ever attended a community college	EVER2PUB=1	49.07	0.33	0.25	1.34	1.79
Major with a focus in STEM	STEMMAJ in (1, 2)	28.39	0.34	0.22	1.53	2.35
Summary statistics						
Minimum		†	†	†	0.87	0.76
25th percentile		†	†	†	1.21	1.45
Median		†	†	†	1.44	2.08
75th percentile		†	†	†	1.59	2.52
Maximum		†	†	†	1.93	3.72

† 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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table L-14. Design effects for independent undergraduate students: 2015-16

Variable	Defined as	Percent estimate	Design standard error		Simple random sample standard error	DEFT ¹	DEFF ²
			error	error	error		
Received any aid	TOTAID>0	67.45	0.34	0.21	0.21	1.59	2.53
Received any federal aid	TFEDAID>0	50.14	0.27	0.23	0.23	1.21	1.46
Received any state grant aid	STGTAMT>0	16.39	0.36	0.17	0.17	2.11	4.46
Received any Institution grant aid	INGRTAMT>0	14.77	0.41	0.16	0.16	2.56	6.56
Received any work-study aid	TOTWKST>0	2.01	0.14	0.06	0.06	2.22	4.92
Received a Pell grant	PELLAMT>0	41.76	0.25	0.22	0.22	1.10	1.21
Received a Direct Loan	STAFFAMT>0	32.43	0.24	0.21	0.21	1.11	1.22
Subsidized	STAFSUB>0	30.17	0.22	0.21	0.21	1.06	1.12
Unsubsidized	STAFUNSB>0	27.21	0.20	0.20	0.20	1.01	1.03
Married	SMARITAL=2	30.71	0.35	0.21	0.21	1.66	2.77
U.S. citizen	CITIZEN2=1	91.97	0.27	0.12	0.12	2.16	4.65
Enrolled in a bachelor's degree program	UGDEG=3	34.61	0.48	0.22	0.22	2.24	5.03
Enrolled exclusively full-time	ATTNPTRN=1	32.14	0.57	0.21	0.21	2.70	7.29
Enrolled part-time or part-year	ATTNSTAT in (3, 4, 5, 6)	80.07	0.31	0.18	0.18	1.73	3.00
Received any employer aid	EMPLYAM3>0	7.78	0.23	0.12	0.12	1.89	3.58
Worked while in school	JOBENR in (2,3)	67.52	0.39	0.21	0.21	1.82	3.33
Worked full-time while in school	JOBENR=3	40.46	0.40	0.22	0.22	1.81	3.28
Worked part-time while in school	JOBENR=2	27.05	0.39	0.20	0.20	1.93	3.74
Has a disability	DISABLE=1	21.82	0.30	0.19	0.19	1.62	2.63
Attended more than one institution in 2015–16	STUDMULT>1	8.90	0.60	0.13	0.13	4.65	21.59
Has dependents other than a spouse	DEPANY=1	48.38	0.45	0.23	0.23	1.96	3.85
U.S. Armed Forces veteran	VETERAN=1	9.35	0.20	0.13	0.13	1.50	2.25
Ever attended a community college	EVER2PUB=1	75.19	0.34	0.20	0.20	1.73	3.00
Major with a focus in STEM	STEMMAJ in (1, 2)	18.89	0.33	0.18	0.18	1.87	3.50
Summary statistics							
Minimum		†	†	†	†	1.01	1.03
25th percentile		†	†	†	†	1.55	2.39
Median		†	†	†	†	1.82	3.30
75th percentile		†	†	†	†	2.13	4.56
Maximum		†	†	†	†	4.65	21.59

† 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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table L-15. Design effects for low-income undergraduate students: 2015-16

Variable	Defined as	Percent estimate	Design standard error	Simple random sample standard error	DEFT ¹	DEFF ²
				error		
Received any aid	TOTAID>0	78.45	0.47	0.28	1.67	2.78
Received any federal aid	TFEDAID>0	67.09	0.53	0.32	1.65	2.72
Received any state grant aid	STGTAMT>0	30.84	0.61	0.32	1.92	3.68
Received any Institution grant aid	INGRTAMT>0	22.41	0.47	0.29	1.62	2.63
Received any work-study aid	TOTWKST>0	6.58	0.28	0.17	1.63	2.64
Received a Pell grant	PELLAMT>0	65.20	0.52	0.33	1.57	2.47
Received a Direct Loan	STAFFAMT>0	34.41	0.42	0.33	1.30	1.68
Subsidized	STAFSUB>0	33.61	0.42	0.33	1.29	1.66
Unsubsidized	STAFUNSB>0	27.00	0.39	0.31	1.27	1.62
Married	SMARITAL=2	3.37	0.20	0.12	1.61	2.59
U.S. citizen	CITIZEN2=1	90.15	0.42	0.21	2.06	4.25
Enrolled in a bachelor's degree program	UGDEG=3	41.41	0.53	0.34	1.57	2.46
Enrolled exclusively full-time	ATTNPTRN=1	46.66	0.61	0.34	1.78	3.17
Enrolled part-time or part-year	ATTNSTAT in (3, 4, 5, 6)	63.25	0.51	0.33	1.52	2.32
Received any employer aid	EMPLYAM3>0	3.54	0.20	0.13	1.55	2.40
Worked while in school	JOBENR in (2,3)	51.09	0.57	0.34	1.64	2.70
Worked full-time while in school	JOBENR=3	16.51	0.38	0.26	1.49	2.23
Worked part-time while in school	JOBENR=2	34.59	0.55	0.33	1.68	2.81
Has a disability	DISABLE=1	21.27	0.43	0.28	1.53	2.33
Attended more than one institution in 2015–16	STUDMULT>1	9.50	0.38	0.20	1.90	3.63
Has dependents other than a spouse	DEPANY=1	16.59	0.45	0.26	1.75	3.06
U.S. Armed Forces veteran	VETERAN=1	3.37	0.17	0.12	1.33	1.77
Ever attended a community college	EVER2PUB=1	61.27	0.55	0.34	1.63	2.65
Major with a focus in STEM	STEMMAJ in (1, 2)	24.31	0.42	0.30	1.42	2.02
Summary statistics						
Minimum		†	†	†	1.27	1.62
25th percentile		†	†	†	1.51	2.27
Median		†	†	†	1.62	2.61
75th percentile		†	†	†	1.67	2.80
Maximum		†	†	†	2.06	4.25

† 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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table L-16. Design effects for middle-income undergraduate students: 2015-16

Variable	Defined as	Percent estimate	Design standard error	Simple random sample standard error	DEFT ¹	DEFF ²
				error		
Received any aid	TOTAID>0	74.44	0.34	0.21	1.62	2.64
Received any federal aid	TFEDAID>0	58.39	0.32	0.23	1.36	1.86
Received any state grant aid	STGTAMT>0	24.06	0.39	0.20	1.90	3.62
Received any Institution grant aid	INGRTAMT>0	25.02	0.39	0.21	1.92	3.69
Received any work-study aid	TOTWKST>0	5.69	0.18	0.11	1.67	2.80
Received a Pell grant	PELLAMT>0	42.54	0.30	0.23	1.26	1.60
Received a Direct Loan	STAFFAMT>0	39.85	0.26	0.23	1.14	1.30
Subsidized	STAFSUB>0	37.34	0.25	0.23	1.11	1.23
Unsubsidized	STAFUNSB>0	32.81	0.24	0.22	1.09	1.18
Married	SMARITAL=2	9.77	0.23	0.14	1.62	2.62
U.S. citizen	CITIZEN2=1	93.04	0.23	0.12	1.87	3.49
Enrolled in a bachelor's degree program	UGDEG=3	44.10	0.38	0.24	1.60	2.56
Enrolled exclusively full-time	ATTNPTRN=1	43.39	0.45	0.24	1.91	3.64
Enrolled part-time or part-year	ATTNSTAT in (3, 4, 5, 6)	63.02	0.35	0.23	1.53	2.36
Received any employer aid	EMPLYAM3>0	5.22	0.18	0.11	1.67	2.79
Worked while in school	JOBENR in (2,3)	64.39	0.33	0.23	1.47	2.17
Worked full-time while in school	JOBENR=3	26.47	0.34	0.21	1.63	2.66
Worked part-time while in school	JOBENR=2	37.91	0.33	0.23	1.43	2.05
Has a disability	DISABLE=1	19.65	0.30	0.19	1.57	2.46
Attended more than one institution in 2015–16	STUDMULT>1	9.73	0.38	0.14	2.74	7.49
Has dependents other than a spouse	DEPANY=1	23.76	0.35	0.20	1.73	3.00
U.S. Armed Forces veteran	VETERAN=1	4.80	0.15	0.10	1.48	2.19
Ever attended a community college	EVER2PUB=1	63.94	0.30	0.23	1.32	1.74
Major with a focus in STEM	STEMMAJ in (1, 2)	22.96	0.32	0.20	1.60	2.55
Summary statistics						
Minimum		†	†	†	1.09	1.18
25th percentile		†	†	†	1.40	1.95
Median		†	†	†	1.60	2.56
75th percentile		†	†	†	1.70	2.90
Maximum		†	†	†	2.74	7.49

† 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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table L-17. Design effects for high-income undergraduate students: 2015-16

Variable	Defined as	Percent estimate	Design standard error	Simple random sample standard error	DEFT ¹	DEFF ²
				error		
Received any aid	TOTAID>0	62.69	0.54	0.31	1.73	2.99
Received any federal aid	TFEDAID>0	35.53	0.44	0.31	1.40	1.96
Received any state grant aid	STGTAMT>0	9.41	0.34	0.19	1.77	3.12
Received any Institution grant aid	INGRTAMT>0	24.89	0.42	0.28	1.50	2.26
Received any work-study aid	TOTWKST>0	2.95	0.17	0.11	1.58	2.49
Received a Pell grant	PELLAMT>0	8.54	0.24	0.18	1.35	1.81
Received a Direct Loan	STAFFAMT>0	31.01	0.40	0.30	1.35	1.81
Subsidized	STAFSUB>0	18.15	0.32	0.25	1.30	1.68
Unsubsidized	STAFUNSB>0	28.45	0.36	0.29	1.22	1.49
Married	SMARITAL=2	36.33	0.54	0.31	1.74	3.02
U.S. citizen	CITIZEN2=1	94.25	0.27	0.15	1.78	3.18
Enrolled in a bachelor's degree program	UGDEG=3	56.53	0.57	0.32	1.77	3.13
Enrolled exclusively full-time	ATTNPTRN=1	41.15	0.61	0.32	1.92	3.67
Enrolled part-time or part-year	ATTNSTAT in (3, 4, 5, 6)	60.19	0.48	0.32	1.51	2.27
Received any employer aid	EMPLYAM3>0	9.84	0.36	0.19	1.86	3.47
Worked while in school	JOBENR in (2,3)	63.20	0.50	0.31	1.59	2.52
Worked full-time while in school	JOBENR=3	30.68	0.53	0.30	1.78	3.15
Worked part-time while in school	JOBENR=2	32.52	0.46	0.30	1.50	2.25
Has a disability	DISABLE=1	17.55	0.37	0.25	1.51	2.29
Attended more than one institution in 2015–16	STUDMULT>1	9.94	0.32	0.19	1.66	2.76
Has dependents other than a spouse	DEPANY=1	30.73	0.56	0.30	1.86	3.46
U.S. Armed Forces veteran	VETERAN=1	6.34	0.25	0.16	1.58	2.51
Ever attended a community college	EVER2PUB=1	58.76	0.46	0.32	1.44	2.08
Major with a focus in STEM	STEMMAJ in (1, 2)	24.59	0.47	0.28	1.66	2.76
Summary statistics						
Minimum		†	†	†	1.22	1.49
25th percentile		†	†	†	1.47	2.17
Median		†	†	†	1.59	2.51
75th percentile		†	†	†	1.77	3.13
Maximum		†	†	†	1.92	3.67

† 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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table L-18. Design effects for all graduate students: 2015-16

Variable	Defined as	Percent estimate	Design standard error	Simple random sample standard error	DEFT ¹	DEFF ²
				error		
Received any aid	TOTAID>0	71.60	0.50	0.29	1.69	2.86
Received any federal aid	TFEDAID>0	41.61	0.16	0.32	0.49	0.24
Received any state grant aid	STGTAMT>0	2.25	0.30	0.10	3.14	9.85
Received any Institution grant aid	INGRTAMT>0	25.66	0.70	0.28	2.46	6.06
Received any work-study aid	TOTWKST>0	2.24	0.26	0.10	2.73	7.45
Received any assistantship	GRASTAMT>0	7.74	0.38	0.17	2.17	4.69
Received a Direct Loan	STAFFAMT>0	39.95	#	0.32	#	#
Married	SMARITAL=2	37.58	0.69	0.32	2.18	4.77
U.S. citizen	CITIZEN2=1	84.55	0.59	0.24	2.51	6.30
Enrolled in a master's degree program	GRADDEG=1	68.54	0.78	0.30	2.57	6.60
Enrolled exclusively full-time	ATTNPTRN=1	42.66	0.76	0.32	2.37	5.60
Enrolled part-time or part-year	ATTNSTAT in (3, 4, 5, 6)	63.71	0.61	0.31	1.94	3.75
Received any employer aid	EMPLYAM3>0	12.96	0.44	0.22	2.01	4.03
Worked while in school	JOBENR_GR in (2,3)	66.34	0.67	0.31	2.17	4.69
Worked full-time while in school	JOBENR_GR=3	46.38	0.62	0.32	1.92	3.70
Worked part-time while in school	JOBENR_GR=2	19.96	0.50	0.26	1.93	3.74
Has a disability	DISABLE=1	11.97	0.45	0.21	2.13	4.52
Attended more than one institution in 2015–16	STUDMULT>1	4.51	0.62	0.14	4.59	21.02
Has dependents other than a spouse	DEPANY=1	32.27	0.64	0.30	2.09	4.38
U.S. Armed Forces veteran	VETERAN=1	5.29	0.16	0.15	1.10	1.20
1–2 years between bachelor's degree and graduate school	1<=GRADGAP<=2	25.03	0.59	0.28	2.09	4.39
Major with a focus in STEM	STEMMAJ in (1, 2)	23.11	0.64	0.27	2.34	5.48
Summary statistics						
Minimum		†	†	†	#	#
25th percentile		†	†	†	1.92	3.70
Median		†	†	†	2.13	4.52
75th percentile		†	†	†	2.46	6.06
Maximum		†	†	†	4.59	21.02

† 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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table L-19. Design effects for graduate students at public 4-year institutions: 2015-16

Variable	Defined as	Percent estimate	Design standard error	Simple random sample standard error	DEFT ¹	DEFF ²
				error		
Received any aid	TOTAID>0	67.28	0.83	0.52	1.59	2.54
Received any federal aid	TFEDAID>0	34.69	0.18	0.53	0.35	0.12
Received any state grant aid	STGTAMT>0	3.43	0.37	0.20	1.84	3.39
Received any Institution grant aid	INGRTAMT>0	23.95	0.82	0.47	1.73	2.99
Received any work-study aid	TOTWKST>0	1.39	0.26	0.13	2.03	4.13
Received any assistantship	GRASTAMT>0	12.56	0.74	0.37	2.00	3.98
Received a Direct Loan	STAFFAMT>0	33.67	#	0.53	#	#
Married	SMARITAL=2	35.66	0.90	0.53	1.70	2.89
U.S. citizen	CITIZEN2=1	81.80	0.82	0.43	1.91	3.67
Enrolled in a master's degree program	GRADDEG=1	67.72	1.01	0.52	1.94	3.77
Enrolled exclusively full-time	ATTNPTRN=1	38.52	1.04	0.54	1.92	3.67
Enrolled part-time or part-year	ATTNSTAT in (3, 4, 5, 6)	64.64	0.84	0.53	1.59	2.53
Received any employer aid	EMPLYAM3>0	12.07	0.65	0.36	1.81	3.27
Worked while in school	JOBENR_GR in (2,3)	63.16	1.05	0.54	1.95	3.82
Worked full-time while in school	JOBENR_GR=3	41.50	0.95	0.55	1.73	3.00
Worked part-time while in school	JOBENR_GR=2	21.65	0.82	0.46	1.80	3.22
Has a disability	DISABLE=1	11.44	0.58	0.35	1.64	2.68
Attended more than one institution in 2015–16	STUDMULT>1	3.59	0.31	0.21	1.51	2.27
Has dependents other than a spouse	DEPANY=1	27.09	0.87	0.49	1.75	3.07
U.S. Armed Forces veteran	VETERAN=1	4.16	0.19	0.22	0.85	0.72
1–2 years between bachelor's degree and graduate school	1<=GRADGAP<=2	24.66	0.82	0.48	1.71	2.91
Major with a focus in STEM	STEMMAJ in (1, 2)	27.42	0.77	0.50	1.56	2.44
Summary statistics						
Minimum		†	†	†	#	#
25th percentile		†	†	†	1.56	2.44
Median		†	†	†	1.73	2.99
75th percentile		†	†	†	1.91	3.67
Maximum		†	†	†	2.03	4.13

† 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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table L-20. Design effects for graduate students at private nonprofit 4-year institutions: 2015-16

Variable	Defined as	Percent estimate	Design standard error	Simple random sample standard error	DEFT ¹	DEFF ²
				error		
Received any aid	TOTAID>0	74.53	0.78	0.47	1.67	2.78
Received any federal aid	TFEDAID>0	44.32	0.30	0.54	0.56	0.32
Received any state grant aid	STGTAMT>0	1.42	0.52	0.13	4.05	16.40
Received any Institution grant aid	INGRTAMT>0	27.42	1.21	0.48	2.51	6.29
Received any work-study aid	TOTWKST>0	3.53	0.53	0.20	2.65	7.00
Received any assistantship	GRASTAMT>0	4.32	0.34	0.22	1.56	2.45
Received a Direct Loan	STAFFAMT>0	41.81	#	0.53	#	#
Married	SMARITAL=2	37.80	1.25	0.52	2.40	5.76
U.S. citizen	CITIZEN2=1	85.80	0.92	0.38	2.45	6.01
Enrolled in a master's degree program	GRADDEG=1	69.46	1.07	0.50	2.15	4.64
Enrolled exclusively full-time	ATTNPTRN=1	42.54	1.16	0.53	2.17	4.71
Enrolled part-time or part-year	ATTNSTAT in (3, 4, 5, 6)	60.60	1.03	0.53	1.96	3.84
Received any employer aid	EMPLYAM3>0	13.96	0.69	0.37	1.86	3.46
Worked while in school	JOBENR_GR in (2,3)	66.97	1.08	0.51	2.13	4.53
Worked full-time while in school	JOBENR_GR=3	47.94	1.06	0.54	1.96	3.85
Worked part-time while in school	JOBENR_GR=2	19.03	0.69	0.42	1.64	2.68
Has a disability	DISABLE=1	10.56	0.66	0.33	2.01	4.02
Attended more than one institution in 2015–16	STUDMULT>1	2.81	0.23	0.18	1.27	1.61
Has dependents other than a spouse	DEPANY=1	31.96	1.15	0.50	2.28	5.20
U.S. Armed Forces veteran	VETERAN=1	4.87	0.24	0.23	1.02	1.04
1–2 years between bachelor's degree and graduate school	1<=GRADGAP<=2	25.37	0.92	0.47	1.96	3.84
Major with a focus in STEM	STEMMAJ in (1, 2)	19.81	1.24	0.43	2.89	8.36
Summary statistics						
Minimum		†	†	†	#	#
25th percentile		†	†	†	1.56	2.45
Median		†	†	†	1.96	3.85
75th percentile		†	†	†	2.40	5.76
Maximum		†	†	†	4.05	16.40

† 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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

Table L-21. Design effects for graduate students at for-profit 4-year institutions: 2015-16

Variable	Defined as	Percent estimate	Design standard error	Simple random sample standard error	DEFT ¹	DEFF ²
				error		
Received any aid	TOTAID>0	78.89	0.71	0.49	1.46	2.12
Received any federal aid	TFEDAID>0	61.65	0.15	0.59	0.26	0.07
Received any state grant aid	STGTAMT>0	0.34	0.11	0.07	1.50	2.26
Received any Institution grant aid	INGRTAMT>0	26.04	2.92	0.53	5.53	30.59
Received any work-study aid	TOTWKST>0	0.76	0.22	0.10	2.06	4.26
Received any assistantship	GRASTAMT>0	0.24	0.07	0.06	1.10	1.20
Received a Direct Loan	STAFFAMT>0	60.52	#	0.59	#	#
Married	SMARITAL=2	45.34	2.12	0.60	3.53	12.49
U.S. citizen	CITIZEN2=1	91.83	1.11	0.33	3.36	11.26
Enrolled in a master's degree program	GRADDEG=1	68.41	2.00	0.56	3.57	12.74
Enrolled exclusively full-time	ATTNPTRN=1	61.83	3.56	0.58	6.08	37.00
Enrolled part-time or part-year	ATTNSTAT in (3, 4, 5, 6)	72.42	1.55	0.54	2.88	8.27
Received any employer aid	EMPLYAM3>0	12.81	1.04	0.40	2.58	6.64
Worked while in school	JOBENR_GR in (2,3)	78.09	1.01	0.50	2.03	4.13
Worked full-time while in school	JOBENR_GR=3	61.93	1.31	0.58	2.25	5.05
Worked part-time while in school	JOBENR_GR=2	16.16	1.00	0.44	2.26	5.12
Has a disability	DISABLE=1	20.24	1.70	0.48	3.51	12.33
Attended more than one institution in 2015–16	STUDMULT>1	15.73	5.59	0.44	12.75	162.51
Has dependents other than a spouse	DEPANY=1	56.95	1.92	0.60	3.21	10.32
U.S. Armed Forces veteran	VETERAN=1	12.15	0.97	0.39	2.46	6.04
1–2 years between bachelor's degree and graduate school	1<=GRADGAP<=2	25.30	1.40	0.52	2.68	7.19
Major with a focus in STEM	STEMMAJ in (1, 2)	17.39	1.39	0.46	3.05	9.31
Summary statistics						
Minimum		†	†	†	#	#
25th percentile		†	†	†	1.50	2.26
Median		†	†	†	2.58	6.64
75th percentile		†	†	†	3.51	12.33
Maximum		†	†	†	12.75	162.51

† 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, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

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Appendix M: Imputations

Table M-1. Preimputation versus postimputation frequency distribution for eight variables: 2015-16

Variable	Percent		Relative difference ¹
	Preimputation frequency	Postimputation frequency	
Dependency status			
Dependent	44.6	46.5	-4.3
Independent	55.4	53.5	3.4
Dependents - has dependent children			
No	78.5	77.8	0.9
Yes	21.5	22.2	-3.3
Dependents - has dependents			
No dependents	77.0	76.2	1.0
Has dependents	23.0	23.8	-3.5
Parent 1: highest education level			
Don't know	0.5	0.4	20.0
Did not complete high school	10.9	9.3	14.7
High school diploma or equivalent	22.2	21.0	5.4
Vocational/technical training	4.8	5.0	-4.2
Associate's degree	9.5	10.0	-5.3
Some college but no degree	12.8	13.7	-7.0
Bachelor's degree	22.4	23.3	-4.0
Master's degree or equivalent	12.0	12.3	-2.5
Professional degree	2.5	2.6	-4.0
Doctoral degree (PhD, EdD, etc.)	2.4	2.4	#
Student's marital status			
Single, divorced, or widowed	81.3	81.1	0.2
Married	17.4	17.6	-1.1
Separated	1.3	1.3	#
Military service type			
No military service	91.5	93.7	-2.4
Active duty	1.9	1.4	26.3
Reserves	0.2	0.1	50.0
Veteran	6.4	4.8	25.0
National guard	#	#	#
Independent students: number of family members in college			
Not applicable	48.5	46.5	4.1
One	45.6	47.3	-3.7
Two	5.1	5.4	-5.9
Three	0.5	0.6	-20.0
Four	0.1	0.1	#
Five	#	#	#
Six	#	#	#
Citizenship			
US citizen	92.5	92.1	0.4
Resident alien	4.0	4.1	-2.5
Foreign or international student	3.5	3.8	-8.6

Rounds to zero.

¹ Relative difference = [(Preimputation - Postimputation)/Preimputation] * 100.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

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Appendix N: Analysis Variables

Table N-1. Analysis variables: 2015-16

Variable name	Subject	Variable label
ACCREDREG	Institutional characteristics	Regional accreditation agency
ACCREDTYP	Institutional characteristics	Accreditation type
AGE	Student's characteristics	Age as of 12/31/2015
AGEGROUP	Student's characteristics	Age groups as of 12/31/2015
AGEPSE	Student's characteristics	Age at start of postsecondary education
AIDAPP	Financial aid: Application	Applied for any aid
AIDAPP2	Financial aid: Application	Applied for any aid (including non-federal only)
AIDCST	Financial aid: Ratios	Ratio of total aid to student budget
AIDCST3	Financial aid: Ratios	Ratio of aid (excluding Parent PLUS Loans) to student budget
AIDCTRL	Institution type	NPSAS institution control (with multiple)
AIDLEVL	Institution type	NPSAS institution level (with multiple)
AIDSECT	Institution type	NPSAS institution sector (with multiple)
AIDSECTG	Institution type	NPSAS institution type: Graduate (with multiple)
AIDSNEED	Financial aid: Need	Aid amount exceeding federal need
AIDSRC	Financial aid: Package	Aid package by source of aid
AIDSRCG	Financial aid: Package	Graduate aid package by source of aid
AIDTYPE	Financial aid: Package	Aid package by type of aid
AIDTYPEG	Financial aid: Package	Graduate aid package by type of aid
ALTONLN	Education: Courses	Alternative courses: NPSAS classes taken completely online
ALTONLN2	Education: Courses	Alternative courses: program at NPSAS was entirely online
ANALPSU	Survey Weights	Analysis replicate (PSU) for all students
ANALSTR	Survey Weights	Analysis stratum for all students
ASIANATYPE	Student's characteristics	Asian type
ATTEND	Education: Attendance	Attendance intensity in fall
ATTEND2	Education: Attendance	Attendance intensity in fall (half-time)
ATTNPT	Education: Attendance	Attendance intensity (half-time)
ATTNPTRN	Education: Attendance	Attendance intensity (all schools)
ATTNSTAT	Education: Attendance	Attendance pattern
AWAREIDR	Finances	Aware of income-driven student loan repayment plans
AWARELFP	Finances	Aware of student loan forgiveness programs
BANK1	Finances	Bank accounts: had checking or savings account
BANK2	Finances	Bank accounts: individual or shared
BAYEAR	Education: Attainment	Year received bachelor's degree
BAYEARM	Education: Attainment	Year and month received bachelor's degree
BORAMT1	Financial aid: Borrowed cumulative	Cumulative amount borrowed for undergrad
BORAMT2	Financial aid: Borrowed cumulative	Cumulative amount borrowed for grad
BORAMT3	Financial aid: Borrowed cumulative	Cumulative amount borrowed for undergraduate and graduate
BUDGETAJ	Institution price	Student budget (attendance adjusted)
BUDNONAJ	Institution: expenses	Non-tuition expense budget (attendance adjusted)
CAGI	Finances: Income	Adjusted Gross Income (AGI)
CALSYS	Institutional characteristics	Institution calendar system
CAMPAMT	Financial aid: Federal	Federal campus-based aid (Perkins, SEOG, FWS)
CC2000	Institution type	Carnegie Classification (2000) for NPSAS institution

See notes at end of table.

Table N-1. Analysis variables: 2015-16—Continued

Variable name	Subject	Variable label
CC2010B	Institution type	Carnegie Classification 2010: Basic classification
CC2010C	Institution type	Carnegie Classification 2010: Basic classification (collapsed)
CC2015B	Institution type	Carnegie Classification 2015: Basic classification
CC2015C	Institution type	Carnegie Classification 2015: Basic classification (collapsed)
CENSUSDIV	Institutional characteristics	Census division
CINCOME	Finances: Income	Total income (continuous)
CITIZEN2	Student's characteristics	Citizenship
CLOCK	Institutional characteristics	Clock hour only
CNTLAFFI	Institution type	Institutional control of affiliation
COLLGRAD	Education: Program	Graduating senior from a bachelor's degree program in 2015-16
COMPT087	Survey sample	Comparable to 1987 NPSAS
CONTROL	Institution type	NPSAS institution control
CRBALCR	Finances	Credit cards: balance carried over each month
CRBALDUE	Finances	Credit cards: balance due on all credit cards
CRNUMCRD	Finances	Credit cards: number of credit cards in own name
CRTUIT	Finances	Credit cards: used credit cards to pay tuition and fees in 2015-16
CRTUIT2	Finances	Credit cards: only source available to pay tuition and fees in 2015-16
CSTBKSDG	Finances	Cost of digital textbooks (student reported)
CSTBKSPR	Finances	Cost of print-only textbooks (student reported)
CSTOTHER	Finances	Cost of other required course materials (student reported)
CSTSUPP	Finances	Cost of required supplies (student reported)
CSTTECH	Finances	Cost of required technology (student reported)
CSTTOTAL	Finances	Total cost of required course materials (student reported)
CUMLNTP1	Financial aid: Borrowed cumulative	Cumulative loan type for undergrad
CUMLNTP2	Financial aid: Borrowed cumulative	Cumulative loan type for grad
CUMLNTP3	Financial aid: Borrowed cumulative	Cumulative loan type for undergrad and grad
DECMAS	Education: Program	Formally declared major field of study
DEGPR	Education: Attainment	Prior degree earned since high school
DEGPRAA	Education: Attainment	Prior degree: associate's degree
DEGPRBA	Education: Attainment	Prior degree: 4-year bachelor's degree
DEGPRCRT	Education: Attainment	Prior degree: undergraduate certificate/diploma
DEGPRDOC	Education: Attainment	Prior degree: doctorate or professional degree
DEGPRHIGH	Education: Attainment	Highest prior degree earned since high school
DEGPRMS	Education: Attainment	Prior degree: master's degree
DEGPRPTB	Education: Attainment	Prior degree: post-BA certificate
DEGPRPTM	Education: Attainment	Prior degree: post-MA certificate
DELAYENR	Education: Attendance	Delayed enrollment into PSE: Number of years
DEPANY	Student's family	Dependents: Has any dependents
DEPCARE	Student's family	Dependents: child in paid childcare
DEPCHILD	Student's family	Dependents: Has dependent children
DEPCOL	Student's family	Independent students: Number of dependents in college
DEPCOLCS	Finances	Amount contributed to college costs for dependents in 2015-16
DEPCOST	Student's family	Dependents: children in paid childcare - monthly costs

See notes at end of table.

Table N-1. Analysis variables: 2015-16—Continued

Variable name	Subject	Variable label
DEPEND	Student's characteristics	Dependency status
DEPEND2	Student's characteristics	Dependency status (3 categories)
DEPEND4	Student's characteristics	Dependency status (4 categories)
DEPEND5A	Student's characteristics	Dependency and marital status (separated is married)
DEPEND5B	Student's characteristics	Dependency and marital status (separated is unmarried)
DEPINC	Finances: Income	Dependent students: Parents' income
DEPNUM	Student's family	Dependents: Has any dependents (number)
DEPNUMCH	Student's family	Dependents: Has dependent children (number)
DEPNUMOT	Student's family	Dependents: Has dependent(s) other than children (number)
DEPOTCST	Student's family	Dependents: monthly cost of supporting dependents other than children
DEPOTHER	Student's family	Dependents: Has dependent(s) other than children
DEPTYPE	Student's family	Dependents: Types of dependents
DEPYNG	Student's family	Dependents: age of youngest child
DERMAJ	Education: Program	Derived major: 2010 6-digit CIP code
DIS16A	Disabilities	Disability: deaf or serious difficulty hearing
DIS16B	Disabilities	Disability: blind or serious difficulty seeing
DIS17A	Disabilities	Disability: serious difficulty concentrating, remembering, deciding
DIS17B	Disabilities	Disability: serious difficulty walking or climbing stairs
DISABLE	Disabilities	Disability: has some type of disability
DISTANCE	Institutional characteristics	Distance from student's home (in miles) to NPSAS institution
DISTNCED	Institutional characteristics	Institution offers instruction exclusively online
DISTYPES	Disabilities	Disability: main type of condition or impairment
DODAMT	Financial aid: Other	Department of Defense (military) aid
DSTUINC	Finances: Income	Dependent students: Income
E01	Education: Attendance	Monthly enrollment status (half-time) 2015/07
E02	Education: Attendance	Monthly enrollment status (half-time) 2015/08
E03	Education: Attendance	Monthly enrollment status (half-time) 2015/09
E04	Education: Attendance	Monthly enrollment status (half-time) 2015/10
E05	Education: Attendance	Monthly enrollment status (half-time) 2015/11
E06	Education: Attendance	Monthly enrollment status (half-time) 2015/12
E07	Education: Attendance	Monthly enrollment status (half-time) 2016/01
E08	Education: Attendance	Monthly enrollment status (half-time) 2016/02
E09	Education: Attendance	Monthly enrollment status (half-time) 2016/03
E10	Education: Attendance	Monthly enrollment status (half-time) 2016/04
E11	Education: Attendance	Monthly enrollment status (half-time) 2016/05
E12	Education: Attendance	Monthly enrollment status (half-time) 2016/06
EFC	Financial aid: Need	Expected Family Contribution
EFCAID	Financial aid: Need	Aid subject to federal EFC limitation
EFFORT20	Financial aid: Ratios	Net price after grants and loans as percent of income
EFFORT3	Financial aid: Ratios	Net price after grants as percent of income
EFFORT9	Financial aid: Ratios	Net tuition after all grants as percent of income
ELAPSE	Education: Attendance	Number of months between high school completion and postsecondary entry
EMPLWAIV	Financial aid: Grants	Institutional tuition waivers for staff
EMPLYAM3	Financial aid: Grants	Employer aid (student & parents)
EMPLYAMT	Financial aid: Grants	Employer aid (includes college staff)
ENLEN	Education: Attendance	Number of total months enrolled

See notes at end of table.

Table N-1. Analysis variables: 2015-16—Continued

Variable name	Subject	Variable label
ENR01	Education: Attendance	Monthly enrollment status 2015/07
ENR02	Education: Attendance	Monthly enrollment status 2015/08
ENR03	Education: Attendance	Monthly enrollment status 2015/09
ENR04	Education: Attendance	Monthly enrollment status 2015/10
ENR05	Education: Attendance	Monthly enrollment status 2015/11
ENR06	Education: Attendance	Monthly enrollment status 2015/12
ENR07	Education: Attendance	Monthly enrollment status 2016/01
ENR08	Education: Attendance	Monthly enrollment status 2016/02
ENR09	Education: Attendance	Monthly enrollment status 2016/03
ENR10	Education: Attendance	Monthly enrollment status 2016/04
ENR11	Education: Attendance	Monthly enrollment status 2016/05
ENR12	Education: Attendance	Monthly enrollment status 2016/06
ENRFALL	Education: Attendance	Enrolled any time between July and December, 2015
ENRFSIZE	Institutional characteristics	NPSAS institution fall enrollment
ENRSPR	Education: Attendance	Enrolled any time between January and June, 2016
ENRSTAT	Education: Attendance	Enrollment pattern
ESUBMX2	Financial aid: Federal loans	Direct Subsidized Loan individual maximum
ETOTMX2	Financial aid: Federal loans	Direct Subsidized and Unsubsidized Loan individual total maximum
EVER2PUB	Education: Attendance	Ever attended community college
EVER4YR	Education: Attendance	Ever attended 4-year institution
FAMHELP	Finances	Other financial support received
FAMHPAM	Finances	Help from family and friends: total amount in 2015-16
FEDAPP	Financial aid: Application	Applied for federal aid
FEDBEN	Finances: Support	Received federal benefit: Any
FEDBENA	Finances: Support	Received federal benefit: Food Stamp Benefit
FEDBENB	Finances: Support	Received federal benefit: Free or Reduced-price School Lunch Benefits
FEDBENC	Finances: Support	Received federal benefit: Supplemental Security Income Benefits
FEDBEND	Finances: Support	Received federal benefit: TANF Benefits
FEDBENE	Finances: Support	Received federal benefit: WIC Benefits
FEDCUM1	Financial aid: Borrowed cumulative	Cumulative federal loan amount for undergrad
FEDCUM2	Financial aid: Borrowed cumulative	Cumulative federal loan amount for grad
FEDCUM3	Financial aid: Borrowed cumulative	Cumulative federal loan amount for undergrad and grad
FEDDUE1	Financial aid: Federal loans	Cum. federal loan amount owed, principal & interest, undergraduate
FEDDUE2	Financial aid: Federal loans	Cum. federal loan amount owed, principal & interest, graduate
FEDDUE3	Financial aid: Federal loans	Cum. federal loan amount owed, principal & interest, undergrad & grad
FEDGRPCT	Financial aid: Ratios	Ratio of federal grants to total aid
FEDLNPAK	Financial aid: Package	Federal loan package by type of loan
FEDNEED	Financial aid: Federal	Federal need-based aid
FEDOWE1	Financial aid: Borrowed cumulative	Cumulative federal loan amount owed for undergrad
FEDOWE2	Financial aid: Borrowed cumulative	Cumulative federal loan amount owed for grad
FEDOWE3	Financial aid: Borrowed cumulative	Cumulative federal loan amount owed for undergrad or grad

See notes at end of table.

Table N-1. Analysis variables: 2015-16—Continued

Variable name	Subject	Variable label
FEDPACK	Financial aid: Package	Federal aid package by type of aid
FEDPCT	Financial aid: Ratios	Ratio of federal aid to total aid
FGRTLN	Financial aid: Federal	Total federal loans and grants
FIN2000	Finances	Financial security: \$2,000 within the next month
FINLIT1	Finances	Financial literacy: Effect of inflation on purchasing
FINLIT2	Finances	Financial literacy: Effect of interest on savings
FINLIT3	Finances	Financial literacy: Effect of diversification on risk
FINLITALL	Finances	Financial literacy: Correctly answered all three items
FINLITTOT	Finances	Financial literacy: Number of correct responses
GAINSUR	Financial aid: Institutional	Graduate assistantship: included health insurance
GENDER	Student's characteristics	Gender
GLOANSR2	Financial aid: Package	Loan package by type of loan
GLOANSRC	Financial aid: Package	Loan package by source of loan
GPA	Education: Program	Estimated grade point average
GPACAT	Education: Program	Estimated grade point average (Categorical)
GPLUSAMT	Financial aid: Federal loans	Direct PLUS Loans to graduate students
GPLUSCUM	Financial aid: Borrowed cumulative	Cumulative Graduate PLUS Loan amount
GPLUSRAT	Financial aid: Ratios	Ratio of Graduate PLUS Loans to total loans
GRADDEG	Education: Program	Graduate degree program
GRADGAP	Education: Attendance	Years between BA and graduate school
GRADGAPM	Education: Attendance	Months between BA and graduate school
GRADGPG	Education: Program	Graduate degree programs
GRADLVL	Education: Program	Graduate class level
GRADMAJ	Education: Program	Graduate field of study
GRADPGM	Education: Program	Graduate programs
GRADPYM	Education: Program	Year and month began graduate degree
GRADPYR	Education: Program	Year began graduate degree
GRADSTAT	Education: Attendance	Graduate degree and attendance pattern
GRASTAMT	Financial aid: Other	Total assistantships amount
GRGRDAMT	Financial aid: Other	Other graduate assistantship amount
GRINFEL	Financial aid: Grants	Graduate fellowship amount
GRJOBHR	Financial aid: Institutional	Graduate school job: hours worked per week
GRJOBWK	Financial aid: Institutional	Graduate school job: proportion of weeks worked
GRNTSRC	Financial aid: Package	Grant package by source of grant
GRRESAMT	Financial aid: Other	Graduate research assistantship amount
GRTCST	Financial aid: Ratios	Ratio of grant aid to student budget
GRTEAAMT	Financial aid: Other	Graduate teaching assistantship amount
GRTPTCT	Financial aid: Ratios	Ratio of grants to total aid
GRTPTCTN	Financial aid: Ratios	Ratio of grant aid to tuition
GRTSNEED	Financial aid: Need	Grant amount exceeding federal need
HBCU	Institutional characteristics	Historical black college indicator
HCHONORS	High school	Number of honors subjects
HCMATHHI	High school	Highest level of math completed or planned
HCSCINUM	High school	Number of science courses taken
HCTKBIOL	High school	Took or planned to take biology

See notes at end of table.

Table N-1. Analysis variables: 2015-16—Continued

Variable name	Subject	Variable label
HCTKCHEM	High school	Took or planned to take chemistry
HCTKPHYS	High school	Took or planned to take physics
HCYSENGL	High school	Years completed or planned English
HCYSLANG	High school	Years completed or planned foreign languages
HCYSMATH	High school	Years completed or planned math
HCYSSCIE	High school	Years completed or planned science
HCYSSOCI	High school	Years completed or planned social studies
HIGHLVEX	Education: Program	Highest level of education ever expected
HISPANIC	Student's characteristics	Race: Hispanic or Latino origin
HISPTYPE	Student's characteristics	Hispanic type
HLOFFER	Institutional characteristics	Highest level of offering at NPSAS institution
HOMELESS2	Student's characteristics	At risk of homelessness or homeless
HOMESTUD	Finances	Student owns home or pays mortgage
HSCRDAP	High school	Took AP courses while in high school
HSCRDCOL	High school	Took college-level courses while in high school
HSCRDIB	High school	Took IB courses while in high school
HSDEG	High school	High school degree type
HSGPA	High school	Grade point average in high school
HSGRADYM	High school	High school completion date (year and month)
HSGRADYY	High school	High school graduation year
HSIZE	Student's family	Family size (dependent & independent)
HSTKANY	High school	Took any college credits in high school
HSTYPE	High school	Type of high school last attended
IMMIMAGE	Student's characteristics	Age when arrived in the United States
IMMIGEN	Student's characteristics	Immigrant generational status
IMMIGRA	Student's characteristics	Immigrant status
INATHAMT	Financial aid: Grants	Athletic scholarships
INCOME	Finances: Income	Total income by dependency (categorical)
INCOMEG	Finances: Income	Total income (categorical)
INCPCT1	Financial aid: Ratios	Student budget as percent of income
INCPCT2	Financial aid: Ratios	Tuition as percent of income
INCQUART	Finances: Income	Income quartile: all students
INDEPINC	Finances: Income	Independent students: student and spouse's income
INGRTAMT	Financial aid: Grants	Institutional grants total
INJURIS	Institution: expenses	Tuition jurisdiction
INLNAMT	Financial aid: Institutional	Institutional loans
INPCTTN	Financial aid: Ratios	Ratio of graduate assistantships and institutional grants to tuition
INSMERIT	Financial aid: Grants	Institutional merit-only grants
INSMILAMT	Financial aid: Grants	Institution military/armed forces grants
INSTAMT	Financial aid: Institutional	Institutional aid total
INSTCAT	Institution type	Institutional category
INSTCAT2	Institution type	Institutional category and control
INSTCST	Financial aid: Ratios	Ratio of graduate assistantships and institutional grants to student budget
INSTGPCT	Financial aid: Ratios	Ratio of institutional grants to total aid
INSTNEED	Financial aid: Grants	Institutional need-based grants
INSTNOND	Financial aid: Grants	Institutional non-need & merit grants

See notes at end of table.

Table N-1. Analysis variables: 2015-16—Continued

Variable name	Subject	Variable label
INSTNOND1	Financial aid: Grants	Institutional non-need grants
INSTPACK	Financial aid: Package	Aid package with institutional aid
INSTPCT	Financial aid: Ratios	Ratio of institution aid to total aid
INSTSTAT	Institutional characteristics	NPSAS institution state
INSTWRK	Financial aid: Institutional	Institutional work-study
INSVETAMT	Financial aid: Grants	Institutional Veterans' education benefits
INSWAIV	Financial aid: Grants	Institutional tuition & fee waivers
ISTUINC	Finances: Income	Independent students: Income (continuous)
JOBANY	Employment	Job: Had job while enrolled in 2015-16 (excl. work-study)
JOBANY2	Employment	Job: Had job while enrolled in 2015-16 (incl. work-study)
JOBANY2_GR	Employment	Job: Had job while enrolled in 2015-16 (incl. assistantship/traineeship)
JOBANY3	Employment	Job: Had job at any time in 2015-16 (including work-study)
JOBANY3_GR	Employment	Job: Had job at any time in 2015-16 (incl. assistantship/traineeship)
JOBANY_GR	Employment	Job: Had job while enrolled in 2015-16 (excl. assistantship/traineeship)
JOBENR	Employment	Jobs while enrolled: work intensity (excluding work-study)
JOBENR2	Employment	Jobs while enrolled: work intensity (including work-study)
JOBENR2_GR	Employment	Jobs while enrolled: work intensity (incl. assistantship/traineeship)
JOBENR3	Employment	Job: work intensity (including work-study)
JOBENR_GR	Employment	Jobs while enrolled: work intensity (excl. assistantship/traineeship)
JOBHOUR	Employment	Jobs while enrolled: Hours worked per week (excluding work-study)
JOBHOUR2	Employment	Jobs while enrolled: Hours worked per week (including work-study)
JOBHOUR2_GR	Employment	Jobs while enrolled: Hours per week (incl. assistantship/traineeship)
JOBHOUR3	Employment	Job: Hours worked per week (including work-study)
JOBHOUR_GR	Employment	Jobs while enrolled: Hours per week (excl. assistantship/traineeship)
JOBMAJOR	Employment	Jobs while enrolled: Related to major or field of study (excl. work-study)
JOBMAJOR2	Employment	Jobs while enrolled: Related to major or field of study (incl. work-study)
JOBMAJOR3	Employment	Job: Related to major or field of study (incl. work-study)
JOBONOFF	Employment	Jobs while enrolled: Located primarily on or off campus (excl. work-study)
JOBRATE	Employment	Jobs while enrolled: Hourly earnings rate (excl. work-study) in 2015-16
JOBRATE2	Employment	Jobs while enrolled: Hourly earnings rate (incl. work-study) in 2015-16
JOBRATE3	Employment	Job: Hourly earnings rate (including work-study) in 2015-16
JOBRATE_GR	Employment	Jobs while enrolled: Hourly earnings (excl. assistantship/traineeship)
JOBROLE	Employment	Job: Primary role as student or employee (excluding work-study)
JOBROLE2	Employment	Job: Primary role as student or employee (including work-study)
JOBROLE_GR	Employment	Job: Primary role as student or employee
JOBTYP2	Employment	Type of job student had while enrolled (including work-study)
JOBTYP2_GR	Employment	Type of job student had while enrolled (including graduate school jobs)
LEVEL	Institution type	NPSAS institution level
LNREPAY	Financial aid: Loans	Expect help with repaying student loans
LOANCST2	Financial aid: Ratios	Ratio of loans to student budget (includes Parent PLUS Loans)
LOANLIT1	Finances	Loan literacy: Govt. can report unpaid debt to credit bureaus
LOANLIT2	Finances	Loan literacy: Govt. can garnish wages for unpaid fed. loan debt
LOANLIT3	Finances	Loan literacy: Govt. can retain tax refunds, Soc Sec for loan debt
LOANLITALL	Finances	Loan literacy: Correctly answered all three items
LOANLITTOT	Finances	Loan literacy: Number of correct responses
LOANPCT	Financial aid: Ratios	Ratio of loans to total aid (excluding Parent PLUS Loans)

See notes at end of table.

Table N-1. Analysis variables: 2015-16—Continued

Variable name	Subject	Variable label
LOANPCT2	Financial aid: Ratios	Ratio of loans to total aid (including Parent PLUS Loans)
LOANSRC	Financial aid: Package	Loan package by source of loan
LOCALE	Institutional characteristics	Degree of urbanization
LOCALEST	Student's characteristics	Degree of urbanization of student's permanent address
LOCALRES	Student's characteristics	Residence while enrolled
MAJCHGFQ	Education: Program	Majors: frequency of formally changed
MAJORCTE	Education: Program	Major field of study in career and technical education (CTE) field
MAJORSNF	Education: Program	Major field of study classified by the National Science Foundation (NSF)
MAJORS	Education: Program	Field of study or major (detailed)
MAJORS12	Education: Program	Field of study or major: Undergraduate
MAJORS23	Education: Program	Field of study: undergraduate (23 categories)
MAJORS2Y	Education: Program	Field of study: undergraduate (11 categories)
MAJORS4Y	Education: Program	Field of study: undergraduate (10 categories)
MAJORSGR	Education: Program	Graduate field of study or major
MERITCID	Financial aid: Total	Total merit-only grants
MFT	Education: Attendance	Number of full-time months enrolled
MHT	Education: Attendance	Months enrolled half-time
MILTOT	Financial aid: Total	Total federal and non-federal Military/Armed Forces grants
MILTYPE	Student's characteristics	Military type
MILTYPE2	Student's characteristics	Military type (for dependency)
MLT	Education: Attendance	Months enrolled less than half-time
MNTRENT	Finances	Monthly mortgage or rent amount
MPT	Education: Attendance	Number of part-time months enrolled
MSISTAT	Institutional characteristics	Minority Serving Institution indicator
NEEDAID	Financial aid: Total	Total need-based grant aid
NEEDAID1	Financial aid: Total	Total need-based aid
NETCST1	Financial aid: Net price	Student budget minus all aid
NETCST10	Financial aid: Net price	Tuition and fees minus federal grants
NETCST12	Financial aid: Net price	Tuition and fees minus state grants
NETCST13	Financial aid: Net price	Tuition and fees minus institutional grants
NETCST14	Financial aid: Net price	Tuition and fees minus all non-federal grants
NETCST15	Financial aid: Net price	Tuition and fees minus state and institutional grants
NETCST16	Financial aid: Net price	Student budget minus federal and state grants
NETCST17	Financial aid: Net price	Student budget minus all grants and loans
NETCST2	Financial aid: Net price	Student budget minus federal grants
NETCST20	Financial aid: Net price	Student budget minus all grants & loans (incl Parent PLUS Loans)
NETCST3	Financial aid: Net price	Student budget minus all grants
NETCST41	Financial aid: Net price	Student budget minus all aid except private loans
NETCST43	Financial aid: Net price	Student budget minus all aid except loans
NETCST44	Financial aid: Net price	Tuition and fees minus all graduate assistantships and institutional grants
NETCST9	Financial aid: Net price	Tuition and fees minus all grants
NFEDCUM1	Financial aid: Borrowed cumulative	Cumulative non-federal loan amount for undergrad
NFEDCUM2	Financial aid: Borrowed cumulative	Cumulative non-federal loan amount for grad

See notes at end of table.

Table N-1. Analysis variables: 2015-16—Continued

Variable name	Subject	Variable label
NFEDCUM3	Financial aid: Borrowed cumulative	Cumulative non-federal loan amount for undergrad and grad
NP16ID	Survey sample	Case ID
NUMJOB	Employment	Jobs while enrolled: Number in 2015-16 (excluding work-study)
NUMJOB2	Employment	Jobs while enrolled: Number in 2015-16 (including work-study)
NUMJOB2_GR	Employment	Jobs while enrolled: Number in 2015-16 (incl. assistantship/traineeship)
NUMJOB3	Employment	Job: Number in 2015-16 (including work-study)
NUMJOB3_GR	Employment	Job: Number in 2015-16 (including assistantship/traineeship)
NUMJOB_GR	Employment	Jobs while enrolled: Number in 2015-16 (excl. assistantship/traineeship)
OBereg	Institutional characteristics	NPSAS institution region
ORPHAN2	Student's characteristics	Orphan, ward of court, emancipated minor, or in legal guardianship
OTHFDGRT	Financial aid: Grants	Other federal grants (not Title IV)
OTHGTAMT	Financial aid: Grants	Outside grants (private & employer)
OTHRSCR	Financial aid: Other	Outside sources total
OTHTYPE	Financial aid: Other	Total other type of aid (Direct PLUS, job training, VA)
OTHTYPE2	Financial aid: Other	Total other type of aid including work-study
OWEAMT1	Financial aid: Borrowed cumulative	Amount still owed on all undergraduate loans
OWEAMT2	Financial aid: Borrowed cumulative	Amount still owed on all graduate loans
OWEAMT3	Financial aid: Borrowed cumulative	Amount still owed on all education loans
PAGI	Finances: Income	Dependent students: Parents adjusted gross income
PAR1	Parents and family	Parent type 1 (for parents' highest education)
PAR2	Parents and family	Parent type 2 (for parents' highest education)
PARBORN	Student's characteristics	Parent born in US, PR, or US Territory
PARED1	Parents and family	Parent 1 highest education level
PARED2	Parents and family	Parent 2 highest education level
PAREduc	Parents and family	Parents' highest education level
PARFEMED	Parents and family	Female parent's highest education level
PARHELP	Finances	Help from parents: housing, tuition, and other expenses
PARHELP2	Finances	Help from parents: housing, tuition, other expenses (incl. independent students)
PARHPAMT	Finances	Help from parents: amount parents helped pay for expenses in 2015-16
PARHPAMT2	Finances	Help from parents: amount parents helped pay for expenses (incl. independent students)
PARMALED	Parents and family	Male parent's highest education level
PCTALL	Finances: Income	Income percentile rank for all students
PCTALLFTFY	Finances: Income	Income percentile rank for full-time, full-year students
PCTDEP	Finances: Income	Income percentile dependent students
PCTENR2M	Institutional characteristics	Percent enrolled: two or more races
PCTENRAN	Institutional characteristics	Percent enrolled: American Indian/Alaskan Native
PCTENRAP	Institutional characteristics	Percent enrolled: Asian/Pacific Islander
PCTENRAS	Institutional characteristics	Percent enrolled: Asian
PCTENRBK	Institutional characteristics	Percent enrolled: black, non-Hispanic
PCTENRHS	Institutional characteristics	Percent enrolled: Hispanic
PCTENRNH	Institutional characteristics	Percent enrolled: Native Hawaiian or other Pacific Islander

See notes at end of table.

Table N-1. Analysis variables: 2015-16—Continued

Variable name	Subject	Variable label
PCTENRNR	Institutional characteristics	Percent enrolled: Nonresident Alien
PCTENRUN	Institutional characteristics	Percent enrolled: Race/ethnicity unknown
PCTENRWH	Institutional characteristics	Percent enrolled: white
PCTINDEP	Finances: Income	Income percentile independent students
PCTPOV	Finances: Income	Income percent of poverty level
PDADED	Parents and family	Father's highest education level
PELLAMT	Financial aid: Federal grants	Federal Pell grant
PELLCST	Financial aid: Ratios	Ratio of Pell grant to student budget
PELLCUM	Financial aid: Federal grants	Cumulative Pell amount
PELLFST	Financial aid: Federal grants	First year received a Pell grant
PELLLST	Financial aid: Federal grants	Last year received a Pell grant
PELLPACK	Financial aid: Package	Aid package with Pell grants
PELLRAT1	Financial aid: Ratios	Ratio of Pell grant to total aid
PELLRAT2	Financial aid: Ratios	Ratio of Pell grant to total grants
PELLYRS	Financial aid: Federal grants	Number of years received Pell grants
PERKAMT	Financial aid: Federal loans	Perkins loan
PERKCUM1	Financial aid: Borrowed cumulative	Cumulative Perkins amount for undergrad
PERKCUM2	Financial aid: Borrowed cumulative	Cumulative Perkins amount for grad
PERKCUM3	Financial aid: Borrowed cumulative	Cumulative Perkins amount for undergrad and grad
PFAMNUM	Parents and family	Dependent students: Family size
PFEDTAX	Finances: Income	Dependent students: Parents federal tax paid
PGMAIDLG	Education: Program	Graduate program and largest financial aid type
PGMSEC	Education: Program	Graduate program and institution type
PHSLOAN	Financial aid: Federal loans	Federal health professions loans
PINCOL	Parents and family	Dependent students: Number of family members in college
PLUSAMT	Financial aid: Federal loans	Direct PLUS Loans to parents
PLUSCUM	Financial aid: Borrowed cumulative	Cumulative Parent PLUS Loans
PLUSPCT	Financial aid: Ratios	Ratio of Parent PLUS Loans to total aid
PMARITAL	Parents and family	Dependent students: Parents' marital status
PMOMED	Parents and family	Mother's highest education level
PRIMLANG	Student's characteristics	Primary language spoken
PRIMLGFAQ	Student's characteristics	Frequency of speaking non-English language with primary caregiver
PRIVAI	Financial aid: Grants	Private source grants
PRIVAMT	Financial aid: Other	Total private sources grants and loans
PRIVLOAN	Financial aid: Loans	Private (alternative) loans
PRIVLRAT	Financial aid: Ratios	Ratio of private loans to total loans
PRIVPACK	Financial aid: Package	Package of private and non-private loans
PRIVPCT	Financial aid: Ratios	Ratio of private loans to total aid
PROGSTAT	Education: Attainment	Completed degree program in 2015-16
PSECTYM	Education: Attendance	Year and month first enrolled in postsecondary education
PSECTYR	Education: Attendance	Year first enrolled in postsecondary education
PTAXFILE	Finances: Income	Dependent students: Parents federal tax filed
RAASIAN	Student's characteristics	Race: Asian

See notes at end of table.

Table N-1. Analysis variables: 2015-16—Continued

Variable name	Subject	Variable label
RABLACK	Student's characteristics	Race: Black or African American
RACE	Student's characteristics	Race/ethnicity (with multiple)
RACE2	Student's characteristics	Race/ethnicity (with multiple) without foreign students
RACECEN	Student's characteristics	Race/ethnicity census categories
RACESEX	Student's characteristics	Race/ethnicity (with multiple) and gender
RAINDIAN	Student's characteristics	Race: American Indian or Alaska Native
RAINDTRB	Student's characteristics	Race: American Indian or Alaska Native recognized tribe
RAISLAND	Student's characteristics	Race: Native Hawaiian or other Pacific Islander
RAWHITE	Student's characteristics	Race: White
REANOAPA	Financial aid: Application	Reason for not applying: did not want to take on the debt
REANOAPB	Financial aid: Application	Reason for not applying: forms were too much work
REANOAPC	Financial aid: Application	Reason for not applying: no information about how to apply
REANOAPD	Financial aid: Application	Reason for not applying: no need
REANOAPE	Financial aid: Application	Reason for not applying: thought ineligible
REANOAPF	Financial aid: Application	Reason for not applying: other
REFUND1	Financial aid	Received a refund of scholarships, grants, or loans from NPSAS
REFUND2	Financial aid	Method of receiving refund from NPSAS
REMETOOK	Education: Courses	Remedial courses: took in 2015-16
REMEVER	Education: Courses	Remedial courses: ever taken
REMMATH	Education: Courses	Remedial courses: number taken in math in 2015-16
REMRW	Education: Courses	Remedial courses: number taken in reading/writing in 2015-16
REMSTAT	Education: Courses	Remedial courses: Year taken and subjects taken in 2015-16
RISKIND2	Student's characteristics	Index of risk and nontraditional students, modified
RISKINDX	Student's characteristics	Index of risk and nontraditional students
SAGI	Finances: Income	Independent students: Adjusted gross income
SAMESTAT	Student's characteristics	Attend institution in state of legal residence
SECTOR1	Institution type	NPSAS institution type (IPEDS sector)
SECTOR10	Institution type	NPSAS institution sector - 10 categories
SECTOR11	Institution type	NPSAS institution sector - 11 categories
SECTOR4	Institution type	NPSAS institution sector (4 with multiple)
SELECTV2	Institutional characteristics	Selectivity (4-year nonprofit institutions)
SELECTV3	Institutional characteristics	Selectivity (All 4-year institutions)
SEOGAMT	Financial aid: Grants	Federal Supplemental Educational Opportunity Grant (SEOG)
SFAMNUM	Student's family	Independent students: Family size
SFEDTAX	Finances: Income	Independent students: Federal tax paid
SFEDTAXD	Finances: Income	Dependent student: Federal tax paid
SIBCOLFT	Parents and family	First sibling to go to college
SIBINCOL	Parents and family	Dependent students: Have siblings in college
SINCOL	Student's family	Independent students: Number of family members in college
SINGLPAR	Student's characteristics	Single parent, independent student
SJHOURS	Employment	Work-study job: hours worked per week
SJMAJOR	Employment	Work-study job: related to major or coursework
SJONOFF	Employment	Work-study job: located primarily on or off campus
SJRATE	Employment	Work-study job: Hourly earnings rate
SJWKST	Employment	Work-study job: had work-study job in 2015-16
SMARITAL	Student's characteristics	Marital status

See notes at end of table.

Table N-1. Analysis variables: 2015-16—Continued

Variable name	Subject	Variable label
SNEED1	Financial aid: Need	Student budget minus EFC
SNEED2	Financial aid: Need	Student budget minus EFC minus total aid
SNEED3	Financial aid: Need	Student budget minus EFC minus federal grants
SNEED4	Financial aid: Need	Student budget minus EFC and aid subject to EFC limitation
SNEED5	Financial aid: Need	Student budget minus EFC minus all grants
SNEED7	Financial aid: Need	Student budget minus EFC, federal and state grants
SNEED8	Financial aid: Need	Student budget minus EFC & federal, state, and other grants
SNEED9	Financial aid: Need	Student budget minus EFC & all aid except private loans
SPINCOL	Student's family	Independent students: Spouse attending college
SPSINC	Finances: Income	Independent students: Spouse's income
STABEVR	Education: Experiences	Ever studied abroad during undergraduate education
STABREG	Education: Experiences	Study abroad region
STABTIME	Education: Experiences	Length of time studied abroad
STAFCT1	Financial aid: Federal loans	Direct Subsidized Loan maximum
STAFCT2	Financial aid: Federal loans	Direct Subsidized and Unsubsidized Loan total maximum
STAFFAMT	Financial aid: Federal loans	Direct Subsidized and Unsubsidized Loans
STAFFST	Financial aid: Federal loans	Year of first Direct Subsidized or Unsubsidized Loan
STAFNST	Financial aid: Federal loans	Year of last Direct Subsidized or Unsubsidized Loan
STAFSUB	Financial aid: Federal loans	Direct Subsidized Loans
STAFTYPE	Financial aid: Federal loans	Direct Subsidized and Unsubsidized Loan types received
STAFUNSB	Financial aid: Federal loans	Direct Unsubsidized Loans
STAFYRS	Financial aid: Federal loans	Number of years received Direct Subsidized or Unsubsidized Loans
STAPCT	Financial aid: Ratios	Ratio of state aid to total aid
STATEAMT	Financial aid: State	State aid total
STATNEED	Financial aid: State	State need-based grants
STATNOND	Financial aid: State	State non-need & merit grants
STAXFILE	Finances: Income	Independent students: Federal tax filed
STAXFILED	Finances: Income	Dependent student: Federal tax filed
STEMMAJ	Education: Program	Major field of study with a focus on STEM fields
STEMMAJ2	Education: Program	Major field of study with a focus on STEM fields (in degree program)
STFCUM1	Financial aid: Borrowed cumulative	Cumulative Direct Subsidized and Unsubsidized Loans for undergrad
STFCUM2	Financial aid: Borrowed cumulative	Cumulative Direct Subsidized and Unsubsidized Loans for grad
STFCUM3	Financial aid: Borrowed cumulative	Cumulative Direct Subsidized & Unsubsidized Loans for undergrad & grad
STGRPCT	Financial aid: Ratios	Ratio of state grants to total aid
STGTAMT	Financial aid: State	State grants total
STLNAMT	Financial aid: State	State loans
STMERIT	Financial aid: State	State merit-only grants
STMILAMT	Financial aid: State	State military/armed forces grants
STNDMRT	Financial aid: State	State grants based both on need and merit
STNDONLY	Financial aid: State	State need-based only grants
STNOND1	Financial aid: State	State non-need grants
STSBCUM1	Financial aid: Borrowed cumulative	Cumulative Direct Subsidized Loans for undergrad

See notes at end of table.

Table N-1. Analysis variables: 2015-16—Continued

Variable name	Subject	Variable label
STSBCUM2	Financial aid: Borrowed cumulative	Cumulative Direct Subsidized Loans for grad
STSBCUM3	Financial aid: Borrowed cumulative	Cumulative Direct Subsidized Loans for undergrad and grad
STSUBMX	Financial aid: Federal loans	Direct Subsidized Loan program maximum
STTOTMX	Financial aid: Federal loans	Direct Subsidized and Unsubsidized Loan program maximum
STUDMULT	Education: Attendance	Number of institutions attended
STUSERV1	Institutional characteristics	Institution offers employment services
STUSERV2	Institutional characteristics	Institution offers placement services
STUSERV3	Institutional characteristics	Institution offers on-campus child care
STUSTATE	Student's characteristics	State of legal residence
STVETAMT	Financial aid: State	State Veterans' education benefits
STWKAMT	Financial aid: State	State work-study
STYPELST	Student's characteristics	Student type indicator
SUBCUM1	Financial aid: Borrowed cumulative	Cumulative Direct Subsidized and Perkins Loans for undergrad
SUBCUM2	Financial aid: Borrowed cumulative	Cumulative Direct Subsidized and Perkins Loans for grad
SUBCUM3	Financial aid: Borrowed cumulative	Cumulative Direct Subsidized and Perkins Loans for undergrad and grad
SUBLOAN	Financial aid: Federal loans	Federal subsidized loans (Direct Subsidized & Perkins)
T4LNAMT1	Financial aid: Federal loans	Title IV loans (excludes Parent PLUS Loans)
T4LNAMT2	Financial aid: Federal loans	Title IV loans (includes Parent PLUS Loans)
TEACHGRT	Financial aid: Federal grants	Federal TEACH grant amount
TEACTDER	Student's characteristics	ACT derived composite score
TESATDER	Student's characteristics	SAT derived composite score
TETOOK	Student's characteristics	Took SAT or ACT exams
TFEDAID	Financial aid: Federal	Total federal aid (excludes Veterans'/DOD)
TFEDAID2	Financial aid: Federal	Total federal aid (includes Veterans'/DOD)
TFEDAID6	Financial aid: Federal	Total federal aid (excludes Parent PLUS Loans and Veterans'/DOD)
TFEDGRT	Financial aid: Federal grants	Total federal grants (excludes Veterans'/DOD)
TFEDGRT2	Financial aid: Federal grants	Total federal grants and Veterans'/DOD
TFEDLN	Financial aid: Federal loans	Total federal loans (excludes Parent PLUS Loans)
TFEDLN2	Financial aid: Federal loans	Total federal loans (includes Parent PLUS Loans)
TFEDWRK	Financial aid: Federal	Federal work-study
TGRTLN	Financial aid: Total	Total loans and grants
TITIVAMT	Financial aid: Federal	Total federal Title IV aid
TNFEDAID	Financial aid: Total	Total non-federal aid
TNFEDGRT	Financial aid: Total	Total non-federal grants
TNFEDLN	Financial aid: Total	Total non-federal loans
TOTAID	Financial aid: Total	Total aid amount
TOTAID2	Financial aid: Total	Total federal (Title IV), state, & institutional aid
TOTAID4	Financial aid: Total	Total aid excluding Parent PLUS Loans
TOTAID6	Financial aid: Total	Total aid (excludes Parent PLUS Loans and Veterans'/DOD)
TOTAID7	Financial aid: Total	Total aid (excludes Veterans'/DOD)
TOTAID8	Financial aid: Total	Total aid excluding private loans
TOTAL	Institutional characteristics	NPSAS institution 12-month total enrollment

See notes at end of table.

Table N-1. Analysis variables: 2015-16—Continued

Variable name	Subject	Variable label
TOTDUE1	Financial aid: Total	Cum. amount owed, principal & interest, all loans for undergraduate
TOTDUE2	Financial aid: Total	Cum. amount owed, principal & interest, all loans for graduate
TOTDUE3	Financial aid: Total	Cum. amount owed, principal & interest, all education loans
TOTGRT	Financial aid: Total	Total grants
TOTGRT2	Financial aid: Total	Total grants and Veterans'/DOD
TOTGRT4	Financial aid: Total	Total state and institutional grants
TOTGRT5	Financial aid: Total	Total graduate grants/fellowships excluding employer aid
TOTLOAN	Financial aid: Total	Total loans (excluding Parent PLUS Loans)
TOTLOAN2	Financial aid: Total	Total loans (including Parent PLUS Loans)
TOTLOAN3	Financial aid: Total	Total loans excluding private loans
TOTNOND3	Financial aid: Total	Institutional no-need and state no-need grants
TOTWKST	Financial aid: Total	Total work-study
TUITION2	Institution price	Tuition and fees paid
UGDEG	Education: Program	Undergraduate degree program
UGLVL1	Education: Program	Class level
UGLVL2	Education: Program	Class level (for loans)
UNSBLOAN	Financial aid: Total	Total unsubsidized loans (all sources)
USBORN	Student's characteristics	Born in the U.S. (student)
USEIDR	Finances	Likelihood of using income-driven student loan repayment plans
USELFP	Finances	Likelihood of using loan forgiveness program
VADODAMT	Financial aid: Other	Federal Veterans' benefits and Department of Defense
VADODAMT2	Financial aid: Other	Federal Veterans' benefits (excluding housing) and DOD
VETBEN	Financial aid: Other	Federal Veterans' education benefits
VETBEN2	Financial aid: Other	Federal Veterans' education benefits (excluding housing)
VETBENSRC	Financial aid: Other	Type of recipient of federal Veterans' education benefits
VETERAN	Student's characteristics	Veteran status
VETERAN2	Student's characteristics	Veteran status (for dependency)
VETPROG1	Institutional characteristics	Institution offers Yellow Ribbon Program for Veterans
VETPROG2	Institutional characteristics	Institution offers credit for military training
VETPROG3	Institutional characteristics	Institution offers dedicated point of contact for Veterans, military
VETPROG4	Institutional characteristics	Institution has recognized student Veteran organization
VETPROG5	Institutional characteristics	Institution is member of Servicemembers Opportunity Colleges
VETTOT	Financial aid: Total	Total federal and non-federal Veterans' education benefits
VOHELP	Financial aid: State	Vocational rehabilitation and training
WORKPCT	Financial aid: Ratios	Ratio of work-study to total aid

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16).

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Appendix O: 2014-15–16 National Postsecondary Student Aid Study (NPSAS:16) Field Test

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Section 1. Overview of NPSAS:16

This appendix describes the methods and results for the field test of the 2015–16 National Postsecondary Student Aid Study (NPSAS:16), conducted for the National Center for Education Statistics (NCES), U.S. Department of Education. NPSAS serves as a comprehensive, nationwide study of how students and their families pay for postsecondary education, and it includes a nationally representative sample of both aided and nonaided students pursuing all levels of postsecondary education in the United States. These students attend all types and levels of postsecondary institutions that are eligible to distribute student aid authorized under Title IV of the Higher Education Act, including public and private institutions, for-profit and nonprofit institutions, and less-than-2-year institutions to 4-year colleges and universities. NPSAS also serves as the base-year data collection for two longitudinal studies—the Beginning Postsecondary Students Longitudinal Study (BPS) and the Baccalaureate and Beyond Longitudinal Study (B&B)—in alternating cycles. NPSAS:16 will serve as the base year for the B&B:16 cohort of students who earned bachelor’s degrees in the 2015–16 academic year.

The NPSAS:16 field test took place during the 2014–15 academic year, with the full-scale study following in the 2015–16 academic year. The purpose of the NPSAS:16 field test was to fully test all procedures, methods, protocols, and systems of the study in a realistic environment prior to implementing the full-scale study. These procedures and systems were based on established protocols from previous cycles of NPSAS and other NCES postsecondary education studies.

Unless otherwise indicated, a criterion probability level of .05 was used for all tests of significance conducted for the NPSAS:16 field test evaluations. Throughout this document, reported numbers of sample institutions and sample members have been rounded to ensure the confidentiality of the individual. As a result, row and column entries in tables may not sum to their respective totals, and reported percentages may differ somewhat from those that would result from these rounded numbers. The following sections provide an overview of the field test design and results.

1.1 Sampling Design

The NPSAS:16 field test was based on a sample of students in Title IV eligible postsecondary institutions throughout the United States during the 2014–15

academic year. The institution sample included all institution types—public, private nonprofit, and private for-profit institutions—at the 4-year, 2-year, and less-than-2-year levels. A sample of 300 institutions was selected purposively in order to exclude large institutions and systems likely to be selected with certainty (i.e., probability of selection equal to one). Institutions unlikely to participate based on past experience were also excluded.

Student samples for the full-scale study were selected from institution enrollment lists provided by the sampled institutions. The final sample included a total of 4,540 students. Because NPSAS:16 serves as the base year data collection for the B&B cohort of baccalaureate recipients, an emphasis was placed on selecting students receiving bachelor's degrees for the NPSAS:16 field test sample. All sampling procedures and methods implemented on the NPSAS:16 field test were developed in consultation with a Technical Review Panel (TRP) composed of nationally recognized experts in higher education.

1.2 Institution Data Collection

1.2.1 Instrumentation

The data elements collected in the student records instrument for the NPSAS:16 field test were substantively similar to items collected in prior rounds of NPSAS, including enrollment at the NPSAS institution, student characteristics, costs of attendance, and financial aid awarded to the student. The student records instrument was prepared with input from the study's TRP and through feedback from focus groups conducted with staff from institutions that participated in the NPSAS:12 student records collection. The feedback provided by focus group participants helped to improve usability of the instrument and definitions of existing items.

The NPSAS:16 field-test student records instrument was designed to be completed in three modes: (1) web mode, in which institution staff keyed student data directly into a web-based application on the Postsecondary Data Portal (PDP) website; (2) Excel mode, in which institutions keyed or copied and pasted student data into a spreadsheet template offline and then uploaded the completed template to the PDP website; or (3) CSV mode, in which institutions prepared data files offline according to our file specifications and then uploaded the completed files to the PDP website. Institutions could use any combination of these modes to provide student records data.

1.2.2 Data collection design and systems

Institutions selected for the NPSAS:16 field test were contacted and encouraged to participate in the study by institution contactors who worked with the institution to obtain enrollment lists and, subsequently, student records for the students selected for the field test sample. The new PDP website was used to aid in data collection, offering a single location to house information about the study, contact information for the help desk and project staff, and multiple methods through which institutions could provide the requested data.

1.3 Student Interview Data Collection

The design of the NPSAS:16 student interview included core data elements from previous NPSAS interviews and several new items, and was optimized for multiple modes of administration (including mobile devices). The design also included a new module-based interview structure.

1.3.1 Instrumentation

Interview items were prepared with input from the study's TRP and through feedback from cognitive interviews. The feedback provided by cognitive interview participants helped to construct new items and refine current survey items. In addition, several experiments and instrument evaluation items were administered in the NPSAS:16 field-test student interview.

For the NPSAS:16 field test, a single web-based survey instrument was developed to be administered in two modes: web and telephone. The interview was produced with “device-optimized pages” based on HTML5 web standards that ensured the instrument formatting would look appropriate on all screen sizes. This screen-size optimization allowed respondents to complete the interview on a desktop or laptop computer and provided a more mobile-friendly design for respondents who wished to complete the interview on a tablet or smart phone. Selected analyses in this report include “mobile” as a separate mode.

NPSAS staff created the NPSAS:16 survey instrument using Hatteras, a proprietary web-based system in which staff developed, reviewed, tested, modified, and communicated changes to specifications and code for the instrument. Staff stored all information relating to the instrument in a structured query language (SQL) server database that they made accessible through web browser interfaces. Hatteras provided specification, programming, testing interfaces, and data transfer for the NPSAS instrument.

The temporal stability of responses to interview questions was evaluated through a reinterview containing a subset of items from the main interview. Reinterviews were conducted approximately 2 to 4 weeks after the initial interview and, preferably, in the same administration mode as the initial interview. We also evaluated the instrument coders, item nonresponse, timing, and use of help text and conversion text.

1.3.2 Data collection design and systems

All aspects of the study were monitored using the Integrated Management System (IMS), a project management tool designed to give project staff and clients ready access to a repository of reports, critical project information, and deliverables, including the current project schedule, monthly progress reports, daily data collection reports and status reports, project plans and specifications, project deliverables, instrument specifications, a link to the instrumentation system, staff contacts, the project bibliography, and a document archive.

The Receipt Control System (RCS) was used to control and monitor all activities related to data collection, including tracing and locating. Through RCS applications, project staff were able to perform such activities as e-mailing groups of sample members, preparing lead letters and follow-up mailings, executing batch tracing, reviewing locating information, tracking case statuses, and viewing data collection interviewer (DCI) comments. The RCS was fully integrated with the Computer-Assisted Telephone Interviewing Case Management System (CATI-CMS) and Tracing Case Management System (Tracing CMS) so that all systems needing sample member data accessed a single database. Case status changes in the interview, CATI-CMS, or Tracing CMS automatically triggered updates to the RCS during overnight processes, providing integration between the data collection systems and the ability to identify problems and implement solutions quickly and effectively.

The CATI-CMS scheduled telephone calls to be made by DCIs and tracked call outcomes. Using the CATI-CMS, DCIs could send an e-mail containing login credentials to callers who chose to complete the interview via the Web.

The tracing CMS was used to locate the sample members that DCIs could not locate. This system allowed tracers to review all case data, including DCI comments in the CATI-CMS, and to use various search methods to locate sample members.

1.4 Experiments

The NPSAS:16 field test included several instrumentation experiments. Two of these were designed to assess survey fatigue and measurement error among interview respondents. The first of these involved a set of fictitious loan items asking respondents to react to two items about nonexistent student loans, one placed early in the survey and the other placed late in the survey. The second experiment involved administering two parallel survey items with reversed wording to assess whether sample members responded consistently across items.

The NPSAS:16 field test included additional experiments to test item designs for three survey items: Advanced Placement (AP)/International Baccalaureate (IB)/college-level coursetaking in high school, parents' highest level of education, and undergraduate study abroad experience.

Finally, an experiment was designed to test whether a “foot in the door” approach (Freedman and Fraser, 1966), in which a small request is followed by a larger request, could be used to encourage more sample members to begin the survey. The survey instrument was broken into two modules designed to take approximately 15 minutes each to complete; NPSAS staff randomly assigned sample members to either the experimental (module) group or the control group (which received a request to complete the full 30-minute survey). Sample members in the experimental group were also assigned to one of two incentive conditions.

1.5 Planned Changes for the Full-Scale Study

This section summarizes the recommended changes planned for the NPSAS:16 full-scale study based on the results of the field test. Key changes for the full-scale study include the following:

- Term collection in student records will be revised to include sessions that are shorter than one month (such as “mini-mesters”).
- Based on the results of module experiment, the full-scale survey will be offered as one inclusive 30-minute interview, not in modules.
- The interviewer training will be enhanced to provide more hands-on practice with the CATI-CMS, review of the frequently asked questions, conversational interview techniques, and on-screen interviewer instructions.

Section 2. Institution Data Collection

This section provides detail about the institution data collection procedures for the field test, including the institution sampling design, contacting and recruiting, enrollment and student records acquisition systems, data collection outcomes, and evaluation.

2.1 Institution Sampling

This section summarizes the sampling methods implemented for selecting institutions for the NPSAS:16 field test, including discussion of institution eligibility requirements.

2.1.1 *Institution universe for NPSAS:16*

The target population for NPSAS:16 includes nearly all Title IV participating postsecondary institutions in the 50 states, the District of Columbia, and Puerto Rico.¹ The field test institution frame was constructed from the Integrated Postsecondary Education Data System (IPEDS):2012–13 header, Institutional Characteristics (IC), Completions, and Full-year Enrollment files. Large systems and institutions likely to be selected with certainty (i.e., probability of selection equal to one) in the full-scale study were removed from the field test frame, so that those institutions are not burdened with both field test and full-scale data collections.²

To be eligible for the NPSAS:16 field test, an institution was required (during the 2014–15 academic year) to

- offer an educational program designed for persons who had completed secondary education;
- offer at least one academic, occupational, or vocational program of study lasting at least 3 months or 300 clock hours;
- offer courses that were open to more than the employees or members of the company or group (e.g., union) that administered the institution;
- be located in the 50 states, the District of Columbia, or Puerto Rico;

¹Title IV participating institutions excluded from the target population are the five U.S. service academies. These academies are not eligible for this financial aid study because of their unique funding/tuition base.

²It is possible that certain institutions will be selected for both the field-test and full-scale studies, such as small systems and community colleges that offer a small number of bachelor's degrees in select fields.

- be other than a U.S. service academy; and
- have a signed Title IV participation agreement with the U.S. Department of Education.

As indicated above, institutions providing only avocational, recreational, or remedial courses or only in-house courses for their own employees were excluded.

2.1.2 Institution sample for NPSAS:16

Three hundred institutions were purposively sampled to allow for some flexibility in the sample, such as excluding institutions unlikely to participate based on past experience. The institutions were stratified by ten sectors, which are based on institutional level, control, and highest level of offering:

1. public less-than-2-year;
2. public 2-year;
3. public 4-year non-doctorate-granting;
4. public 4-year doctorate-granting;
5. private nonprofit less-than-4-year;
6. private nonprofit 4-year non-doctorate-granting;
7. private nonprofit 4-year doctorate-granting;
8. private for-profit less-than-2-year;
9. private for-profit 2-year; and
10. private for-profit 4-year.

Table O-1 shows the count of sampled institutions, by control and level of institution.

Table O-1. Counts of sampled institutions, by control and level of institution: 2014-15

Control and level of institution	Sampled institutions
Total	300
Public	
Less-than-2-year	10
2-year	10
4-year non-doctorate-granting	110
4-year doctorate-granting	#
Private nonprofit	
Less-than-4-year	10
4-year non-doctorate-granting	130
4-year doctorate-granting	20
Private for-profit	
Less-than-2-year	10
2-year	10
4-year	10

Rounds to zero.

NOTE: Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16) Field Test.

2.2 Institution Data Collection Design and Outcomes

This section provides the design and results of institution recruitment and the data collection activities associated with enrollment lists and student records. Of the 300 eligible institutions, 91 percent provided enrollment lists. Because the requirements for field test sampling were met after sampling 150 enrollment lists, the remaining institutions were not required to provide lists, but many were collected as a test of procedures and systems. Of the 150 institution lists from which students were sampled, 97 percent provided data from student records for the sample students.

2.2.1 Institution recruitment and contacting

Prior to institution recruitment, each of the sampled institutions was contacted by telephone to verify the address, confirm eligibility for the sample (as appropriate), and update contact information for the institution’s chief administrator (e.g., the president or chancellor). Institution recruitment began with an initial mailing to the chief administrators (CAs) at each institution. The mailing contained the following materials:

- a cover letter, printed on NCES letterhead, that provided the list of organizations that have endorsed NPSAS:16 and background information on NPSAS, and prompted the CA to designate a member of the institution’s staff to serve as the coordinator for completing the NPSAS data requests;

- a NPSAS brochure summarizing the study's objectives and providing background information and key findings from past NPSAS cycles; and
- a schedule and flowchart of all NPSAS data collection activities.

Once designated by the CA, institution coordinators received a similar informational mailing. Three institution contactors were trained to contact institutions, answer questions about the study, and prompt coordinators to provide the requested data. Institution contactors also worked with the coordinator to set a customized deadline for the student enrollment list, based on the institution's term structure. Institutions at which the academic year was divided into distinct terms were asked to provide the start and end dates for the term that includes the date April 30, 2015; their deadline was then set for 2 weeks after the start of that term. Schools with continuous enrollment were asked to provide their list by March 31, 2015. Institution contactors periodically followed up with each institution to answer questions and prompt for completion of the list by the scheduled due date. At any time during institution data collection, institution coordinators with questions or concerns were encouraged to contact the project help desk either by e-mail or by calling the toll-free number. Of the 300 eligible institutions, 96 percent agreed to participate.

All institution data collection was conducted through the NCES PDP, a website that was designed to provide institutions with one institution website for all NCES postsecondary institution sample studies. The PDP is a secure platform for providing the requested electronic data and provides reliable, user-friendly access to both general and study-specific documents and instructions. In addition to study-specific information, users can access information about frequently asked questions (FAQs) that bridge NCES studies; use of the PDP; and contact information for the help desk, RTI staff, and NCES staff. Figure O-1 shows the home page of the PDP.

Figure O-1. Postsecondary Data Portal (PDP) home page

ies NATIONAL CENTER FOR EDUCATION STATISTICS

GET STARTED → LOGIN FORGOT USERNAME OR PASSWORD?

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Home About FAQs Contact Welcome to the NCES Postsecondary Data Portal

— Welcome to the —
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Beginning Postsecondary Students Longitudinal Study

B&B
Baccalaureate and Beyond Longitudinal Study

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- RTI Institution Contact **Tiffany Mattox** or 1-855-500-1441
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2.2.2 *Student enrollment list acquisition*

Institutions were asked to provide enrollment list information for all NPSAS-eligible students enrolled at any time between July 1, 2014, and April 30, 2015 (March 31 for continuous-enrollment institutions). Institutions were encouraged to upload their student enrollment list using the secure upload interface on the website. Section 3.1.2 lists the items requested for each enrollee.

A total of 270 lists were received, and less than 10 institutions explicitly refused to provide an enrollment list. Prompting follow-up was suspended once a sufficient number of lists for student sampling were received per stratum. The first 150 lists that met the sample size goals by institution stratum and passed quality control checks were used for selecting samples of students. In general, about half of the institutions in each stratum provided lists that were used for sampling students. The percentage of institutions providing enrollment lists across strata ranged from about 63 percent to 100 percent. The lowest participation rates were among the private for-profit 4-year institutions. Table O-2 presents enrollment list collection results by control and level of institution. Only 30 percent of participating institutions were able to provide the enrollment list within 2 weeks of the start of the term that includes April 30. This information, along with historical information from past NPSAS studies, will be considered when scheduling and planning the flow of full-scale list processing and student data collection.

Table O-2. Enrollment list receipt, by control and level of institution: 2014-15

	Total eligible institutions	Institution-level response rate		Sampled students
		Number	Percent	
Total	300	270	91.2	4,540
Level of institution				
Less-than-2-year	10	10	100.0	210
2-year	20	20	90.9	580
4-year non-doctorate-granting	240	220	90.0	2,820
4-year doctorate-granting	20	20	100.0	920
Control of institution				
Public	130	120	92.1	1,740
Private nonprofit	150	140	91.3	2,130
Private for profit	20	20	85.7	670
Control and level of institution				
Public				
Less-than-2-year	#	#	100.0	30
2-year	10	10	90.9	320
4-year non-doctorate-granting	110	100	91.8	1,390
Private nonprofit				
Less-than-4-year	#	#	83.3	150
4-year non-doctorate-granting	120	110	90.2	1,060
4-year doctorate-granting	20	20	100.0	920
Private for profit				
Less-than-2-year	#	#	100.0	180
2-year	10	10	100.0	110
4-year	10	10	62.5	380

Rounds to zero.

NOTE: All percentages are unweighted and based on the number of eligible schools within the row under consideration. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015-16 National Postsecondary Student Aid Study (NPSAS:16) Field Test.

Several evaluation activities were conducted to review enrollment lists for accuracy and completeness. Accuracy errors were identified by comparing institution-provided data to the IPEDS data for the institutions. Institutions submitting student counts with discrepancies when compared to IPEDS were contacted to reconcile the data. Approximately 76 percent of the 200 enrollment lists that were reviewed for quality had no problems. The presence of key variables on enrollment lists was also evaluated. As noted in section 3.1.2, several new items were added to the enrollment list in the NPSAS:16 field test that were not collected in previous NPSAS studies. Table O-3 contains the percentage of students for whom these data were provided for institutions whose lists were used for sampling.

Table O-3. New enrollment list items: student coverage rate: 2014-15

	Number of students	Percentage of students ¹
Enrollment in high school (or completion program)	316,640	84.4
Date of first enrollment (at postsecondary level)	334,410	89.1
GPA	343,230	91.4
Number of credits accumulated	351,480	93.6
Account status	302,100	80.5
Race/ethnicity	298,280	79.5
Gender	372,590	99.3
Veteran status	208,730	55.6
First-time graduate student at the NPSAS institution	35,680	76.0

Rounds to zero.

¹ Of the 150 sampled enrollment lists, the overall percentage of students for whom this data element was provided. The percentage shown for first-time graduate student at the NPSAS institution is of the total number of graduate students on the sampled lists.

NOTE: GPA = grade point average; NPSAS = National Postsecondary Student Aid Study. All percentages are unweighted and based on the number of students within the row under consideration. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16) Field Test.

2.2.3 Student records collection

The data elements collected in the student records instrument for the NPSAS:16 field test were substantively similar to items collected in prior rounds of NPSAS, including enrollment at the NPSAS institution, student characteristics, costs of attendance, and financial aid awarded to the student. The student records instrument was prepared with input from the study’s TRP and through feedback from focus groups conducted with institutions that participated in the NPSAS:12 student records collection. The feedback provided by focus group participants helped to improve usability of the instrument and definitions of existing items.

The NPSAS:16 field-test student records instrument was designed to be completed in three modes: (1) web mode, in which institution staff keyed student data directly into a web-based application on the PDP website; (2) Excel mode, in which institutions keyed or copied and pasted student data into a spreadsheet template offline and then uploaded the completed template to the PDP website; or (3) CSV mode, in which institutions prepared data files offline according to our file specifications and then uploaded the completed files to the PDP website. Institutions could use any combination of these modes to provide student records data.

The NPSAS:16 field-test student records instrument primarily consisted of items that were collected as part of NPSAS:12. The instrument was divided into four content sections: (1) General Student Information, which included student demographic characteristics and contact information; (2) Enrollment, which included degree program, major or field of study, class level, and enrollment intensity; (3) Budget,

which included budgeted costs of attendance; and (4) Financial Aid, which collected federal, state, institution, graduate, and private or other government financial aid received by the student. The instrument also included new items, such as secondary major, remedial coursetaking, and items specific to the B&B cohort. Section 4.5 includes a list of all items collected in the NPSAS:16 field-test student records instrument.

Instrument modifications were made to further two primary goals: (1) to promote consistency in data elements collected across studies that collect postsecondary student records data, and (2) to improve the usability of the instrument across all modes and the clarity of item definitions provided to institutions. Several changes were made to the NPSAS:16 field test student records instrument that were designed to improve both data quality and the user experience. For example, the “look and feel” of the instrument was modified to improve ease of navigation and aesthetic appeal for institution staff providing data. Item definitions were improved based on feedback from the TRP and focus group participants. For example, the class level item was revised to include improved instructions and credit-hour guidelines for determining student class level. Additionally, the Excel template was modified to include item-level help text as in-cell comments, allowing users to conveniently access item definitions by hovering their cursor over the item label.

For institutions that were selected to provide student records, data collection began with an informational mailing sent to the institution coordinator. The mailings included a Quick Guide to Providing Student Records Data and instructions for accessing the student records instrument on the PDP. Institution contactors made periodic follow-up calls to answer coordinators’ questions and prompt them to provide the requested data.

Of the 150 institutions that were asked to provide student records data, 97 percent provided data for at least one sampled student. Table O-4 shows the institution participation rate for student records by control and level of institution, and figure O-2 shows the modes chosen by participating institutions.

Table O-4. Student records receipt, by control and level of institution: 2014-15

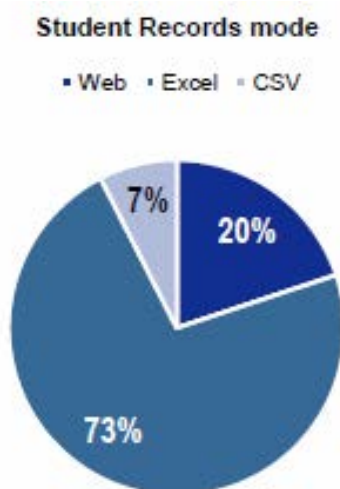
	Total eligible institutions selected for SR	Institution-level response rate	
		Number	Percent
Total	150	150	96.7
Level of institution			
Less-than-2-year	10	10	100.0
2-year	10	10	100.0
4-year non-doctorate-granting	120	110	96.6
4-year doctorate-granting	20	10	93.3
Control of institution			
Public	60	60	96.9
Private nonprofit	80	70	97.4
Private for profit	10	10	91.7
Control and level of institution			
Public			
Less-than-2-year	#	#	100.0
2-year	10	10	100.0
4-year non-doctorate-granting	60	50	96.4
Private nonprofit			
Less-than-4-year	#	#	100.0
4-year non-doctorate-granting	60	60	98.3
4-year doctorate-granting	20	10	93.3
Private for profit			
Less-than-2-year	#	#	100.0
2-year	#	#	100.0
4-year	10	#	80.0

Rounds to zero.

NOTE: All percentages are unweighted and based on the number of eligible schools within the row under consideration. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015-16 National Postsecondary Student Aid Study (NPSAS:16) Field Test.

Figure O-2. NPSAS:16 field test student records participation, by mode: 2014-15



SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015-16 National Postsecondary Student Aid Study (NPSAS:16) Field Test.

Student records data were reviewed for data quality, including item-level completeness. To improve missingness rates, an “Unknown” option was added for several items. As in past rounds of NPSAS, the items with the highest rates of missingness were generally those that are not always recorded in institutions’ record systems, including marital status (13 percent missing, 33 percent Unknown) and veteran status (5 percent missing, 21 percent Unknown).

2.3 Institution Data Conclusions

Of the 300 eligible institutions, 91 percent provided student enrollment lists. The requirements for student sampling were met after 150 institutions’ lists were sampled; therefore, the remaining institutions were not required to provide lists, but many were collected as a test of procedures and systems. Of the 150 institutions from which students were sampled, 97 percent provided data from student records for the sample students.

As evidenced by the high institution participation rates, no significant problems were experienced during the field test institution data collection. The procedures, materials, and systems used for institution recruitment, list collection, and student records collection were well received by institution staff and institution contactors. Institution staff provided feedback to the institution contactors on the data collection systems and procedures, and this feedback was shared with project staff in weekly quality control meetings and in a debriefing that was held after data collection

ended. Institution staff reported positive feedback on the design and usability of the instrument and PDP, and there were relatively few questions about the items that were revised prior to the field test.

One notable outcome from the field-test student records collection was that Excel mode surpassed web mode in popularity among institutions. While not a perfect predictor of the full-scale collection (larger student sample sizes in the full scale may lead more institutions to choose CSV mode), it is reasonable to expect that the majority of institutions will upload their data in the full-scale collection.

Section 3. Student Data Collection

This section provides detail about the field test student sampling design and procedures, data collection procedures, interview instrument design, experiments, and outcomes of data collection.

3.1 Student Sampling

This section summarizes the sampling methods implemented for selecting student sample members for the NPSAS:16 field test, including discussion of student eligibility requirements.

3.1.1 *Student universe for NPSAS:16*

Students eligible for the NPSAS:16 field test were those who attended a NPSAS-eligible institution during the 2014–15 academic year and who were

- enrolled in either (1) an academic program; (2) at least one course for credit that could be applied toward fulfilling the requirements for an academic degree; (3) exclusively noncredit remedial coursework but who the institution has determined are eligible for Title IV aid; or (4) an occupational or vocational program that required at least 3 months or 300 clock hours of instruction to receive a degree, certificate, or other formal award;
- not concurrently enrolled in high school; and
- not enrolled solely in a General Educational Development (GED) or other high school completion program.

3.1.2 *Student sample for NPSAS:16*

The NPSAS:16 field test year covers the time period from July 1, 2014, to June 30, 2015, to coincide with the federal financial aid award year. To facilitate timely completion of data collection and data file preparation, institutions were asked to submit enrollment lists for all eligible students enrolled at any time between July 1 and April 30 or, for institutions with continuous enrollment, between July 1 and March 31. The March 31 deadline for continuous-enrollment institutions was used for the field test due to the compressed data collection schedule and will not be used in the full-scale study.

Analyses conducted for previous cycles of NPSAS (most recently, NPSAS:12) have shown that the terms beginning in May and June add little to enrollment and aid totals. Therefore, May–June starters were excluded from the NPSAS:16 field test to allow institutions to provide enrollment lists earlier, which in turn allowed the student interview process to begin earlier. In the full-scale study, poststratification of survey estimates based on IPEDS records on enrollment and National Student Loan Data System (NSLDS) records on financial aid distributed will adjust for the survey year's inclusion of any terms that begin by April 30 and the consequent exclusion of a small number of students newly enrolled in May or June.

To create the student sampling frame, each participating institution was asked to submit a list of eligible students. The following data were requested for each enrollee:

- full name;
- Social Security number (SSN);
- student ID number (if different from SSN);
- student level (undergraduate, masters, doctoral-research/scholarship/other, doctoral-professional practice, other graduate);
- undergraduate degree program;
- date of first enrollment;
- date of birth;
- class level of undergraduates;
- potential baccalaureate recipient indicator;
- major or Classification of Instructional Programs (CIP) code; and
- contact information.

Additionally, the following data items were requested in the field test to check what data institutions are able to provide:

- veteran status;
- grade point average (GPA);
- number of credits accumulated;
- account status (past due, etc.);
- race/ethnicity;
- gender;
- first-time graduate student indicator;

- high school graduation date; and
- student's high school enrollment status.

Student sample sizes for the field test were formulated to ensure representation of various types of students. Specifically, the sample included a large number of potential baccalaureate recipients to provide a sufficient sample size to obtain a sample yield of at least 1,000 students for the B&B field test. As shown in table O-5, the NPSAS:16 field test sample included 4,540 students, of which 2,410 were baccalaureate recipients, 1,660 were other undergraduate students, and 470 were graduate students. There were nine student sampling strata:

- Five sampling strata for undergraduate students:
 - baccalaureate STEM majors;
 - baccalaureate business majors;
 - baccalaureate teacher majors;
 - all other baccalaureate students; and
 - other undergraduate students.
- Four sampling strata for graduate students:
 - master's students;
 - doctoral science, technology, engineering, and mathematics (STEM) majors;
 - doctoral other majors; and
 - other graduate students.

The student sampling procedures implemented in the field test were comparable to those planned for the full-scale study. Students were sampled on a flow basis as student lists were received using stratified systematic sampling procedures and fixed rates according to student and institution sampling strata. It was determined that about 150 lists were sufficient for sampling. Sample yield was monitored and sampling rates were adjusted when necessary to produce a sample of the required sample size for the field test. Quality control procedures were implemented to ensure that students enrolled at multiple NPSAS institutions were not entered into the student sample more than once.

Table O-5. Counts and percentages of field test student sample, by control and level of institution and student types: 2014-15

Control and level of institution	Total sample		Student type					
	Number	Percent	Baccalaureate recipient ¹		Other undergraduate		Graduate ²	
			Number	Percent	Number	Percent	Number	Percent
Total	4,540	100.0	2,410	100.0	1,660	100.0	470	100.0
Public								
Less-than-2-year	30	0.6	†	†	30	1.7	†	†
2-year	320	7.1	†	†	320	19.4	†	†
4-year non-doctorate-granting	1,390	30.6	1,160	48.0	180	10.6	60	11.9
4-year doctorate-granting	#	#	#	#	#	#	#	#
Private nonprofit								
Less-than-4-year	150	3.3	†	†	150	9.1	†	†
4-year non-doctorate-granting	1,060	23.4	690	28.8	310	18.7	60	12.1
4-year doctorate-granting	920	20.3	380	15.7	190	11.6	350	74.3
Private for-profit								
Less-than-2-year	180	4.1	†	†	180	11.1	†	†
2-year	110	2.4	†	†	110	6.6	†	†
4-year	380	8.3	180	7.5	190	11.2	10	1.7

Rounds to zero.

† Not applicable.

¹ Includes all baccalaureate recipients.² Includes master's, doctoral, and other graduate students.

NOTE: Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015-16 National Postsecondary Student Aid Study (NPSAS:16) Field Test.

3.1.3 Bachelor's degree recipients sample

Institutions that award baccalaureate degrees were asked to identify baccalaureate recipients; however, instead of waiting until June for institutions to positively identify these students and submit lists, the enrollment lists for 4-year institutions included an indicator of students who received or would potentially receive a baccalaureate degree during the NPSAS year (indicates as “yes,” “no,” or “don’t know”).

The percentage of students identified on the lists as being potential baccalaureate recipients who did not actually receive their bachelor's degree in the NPSAS year (i.e., the false positive rate) was expected to be high. Therefore, the NPSAS sampling rates for students identified as potential baccalaureates and other undergraduate students were adjusted to yield the appropriate sample sizes after accounting for the expected false positive and false negative rates by sector. Table O-6 shows that, of the 1,600 students who were sampled as potential baccalaureate recipients and completed an interview, about 320 were not baccalaureate recipients—for a false positive rate of 20 percent. Conversely, of the 1,170 students who were sampled as other undergraduate or graduate students and completed an interview, about 20 were baccalaureate recipients, for a false negative rate of 2 percent.

Table O-6. Baccalaureate recipient status determination, by sample student type: 2014-15

Student type	Students interviewed	Confirmed baccalaureate recipient	
		Number	Percent
Total	2,770	1,300	46.9
Baccalaureate recipient	1,600	1,280	80.1
Other undergraduate and graduate	1,170	20	1.7

NOTE: Students interviewed include all eligible sample members who completed the interview. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16) Field Test.

3.2 Student Interview Data Collection

NPSAS:16 field-test staff assessed data collection outcomes by reviewing the number of NPSAS:16 field-test sample members located and interviewed. Methods for maximizing response to the study survey include tracing of sample members, thorough training for all data collection staff, a sophisticated case management system, a carefully designed survey instrument, and detailed plans for refusal aversion and conversion.

Tracing NPSAS:16 field test sample members. NPSAS:16 field-test staff incorporated an integrated tracing approach designed to yield the maximum number of located cases with the least expense. During the field test, we evaluated the effectiveness of these procedures for the full-scale study effort. The steps of our tracing plan include matching student list information with the Department of Education's Central Processing System (CPS), the NSLDS, National Change of Address (NCOA) database, LexisNexis Premium Address, Phone Append, and e-mail search services, and other databases; moving new contacting information quickly into CATI so that the new information can be used immediately; maintaining regular contact with sample members through letters, postcards, and e-mails; CATI tracing; and intensive tracing.

Training for data collection staff. Telephone data collection was conducted at RTP's Research Operations Center (ROC). NPSAS staff at the ROC included quality control supervisors (QCSs) and DCIs.

Training programs for these staff members are critical to maximizing response rates and collecting accurate and reliable data. The DCI training included an overview of the study, background, and objectives, and a thorough review of the data collection instrument. QCSs received training in the following areas:

- providing direct supervision during data collection;
- handling refusals;
- monitoring interviews and maintaining records of monitoring results;
- problem resolution;
- case review;
- specific project procedures and protocols;
- reviewing CATI reports; and
- monitoring data collection progress.

At the conclusion of training, all staff met certification requirements by successfully completing a certification interview. This evaluation consisted of a full-length interview with project staff observing and evaluating interviewers, as well as an oral evaluation of interviewers' knowledge of the study's FAQs. Quality control supervisors, who are responsible for all supervisory tasks, attended project-specific training for QCSs in addition to learning the content of the DCI training.

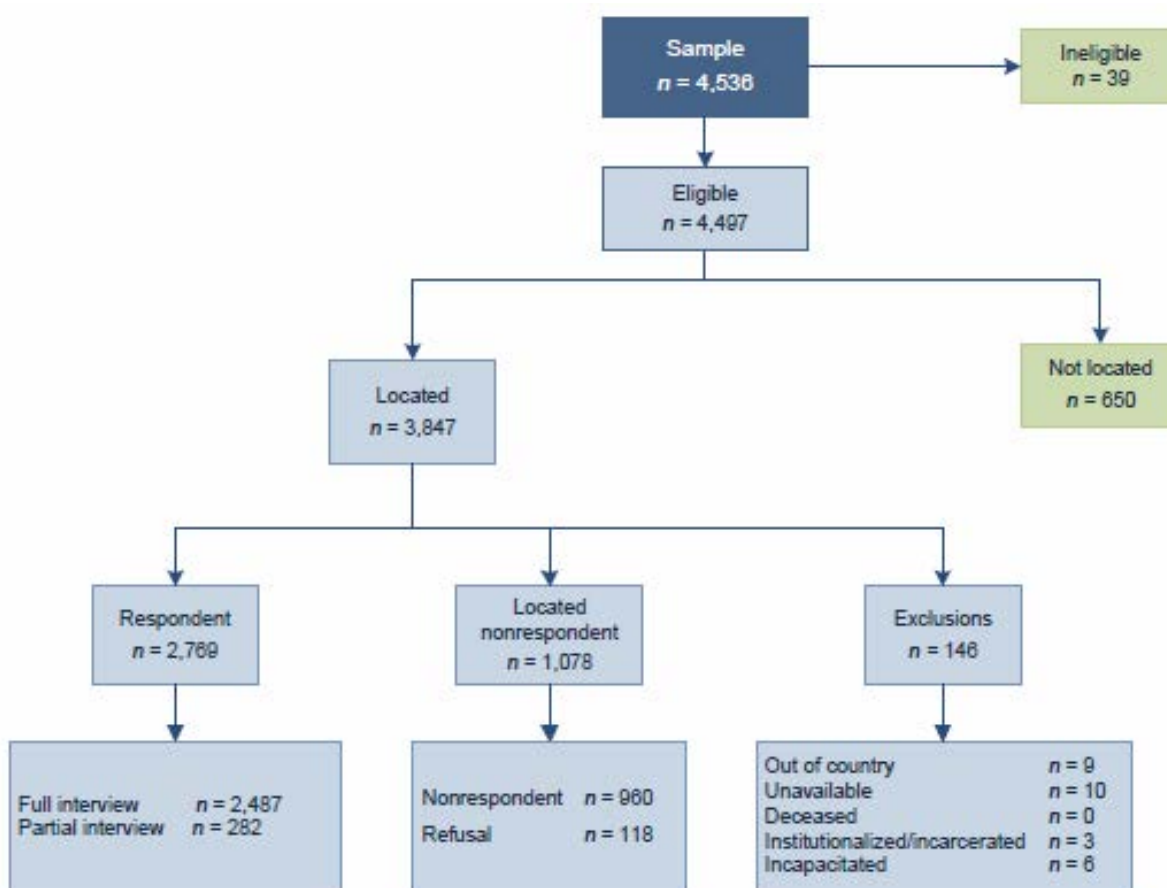
Case Management System. Student interviews were conducted using a single web-based survey instrument for both web and CATI data collection. The data collection

activities were accomplished through the CMS, which provides access to locating information and call histories, appointments, and survey status.

Incentives. For the first time, sample members were given the option of receiving their incentives by check, which was typically delivered in 3 to 4 weeks, or by PayPal, which could be accomplished immediately upon completion of a module or completed survey. Approximately 35 percent of respondents chose to receive their incentive by PayPal.

Data collection locating and interviewing results can be found in figure O-3.

Figure O-3. Locating and interviewing outcomes



3.3 Student Interview Instrument

The core data elements collected in the NPSAS:16 field-test student interview included long-standing NPSAS items such as student high school characteristics, postsecondary enrollment, major or field of study, postsecondary education financial

aid sources and amounts, student employment and earnings, parent and family characteristics, and student demographic characteristics. New interview items included questions about private loans for undergraduate and graduate students, steps taken to prepare for a teaching certificate at the K–12 level, type of Asian origin, and type of mental or emotional condition or impairment.

Traditionally, the NPSAS student interview has been administered in sections that contained questions relating to a general content area, such as financial aid or employment. The six key content areas represented in the instrument included Enrollment, Education Experiences, Financial Aid, Employment, Income and Expenses, and Background. The survey guided respondents through the interview according to skip logic that took into account information recorded as the respondent progressed through the interview.

As part of an experiment to test whether the stated survey length would affect participation rates, the field-test student interview was reorganized into a two-module structure, with overarching content areas distributed across the two modules. These content areas remained substantively the same as in prior NPSAS surveys, and the order of questions remained the same whether respondents were in the control or experimental groups; however, module 1 was designed to include the highest priority data points, and module 2 collected the remaining information. Respondents in the control group had a seamless transition through the interview, not informed that they were in any particular module. Following are descriptions of the content areas and the specific data collected within each module:

Module 1. Enrollment items collected in module 1 first determined eligibility for the NPSAS study as well as for membership in the B&B cohort. Relatively extensive information was collected in module 1 for detail on enrollment at the sampled institution (referred to as the NPSAS institution) in the 2014–15 academic year, including degree type, dates attended, enrollment intensity, undergraduate or graduate year or level at the NPSAS institution, and expected date of degree completion. High school completion information, previous postsecondary degrees earned, and enrollment information for all institutions attended in the 2014–15 academic year were also collected here. A few demographic items (date of birth, marital status, and gender) were included at the end of the Enrollment section in module 1 for purposes of routing.

Education Experiences items in the first module gathered information on high school experiences, including taking of the SAT and ACT exams. This section included an instrument experiment: a control and an experimental version asked, in differing formats, if respondents had taken AP, IB, and other college-level courses in

high school (see section 1.4 for more detail about instrument experiments). In addition, this section collected GPA and information regarding online coursetaking in postsecondary education. B&B-eligible respondents were asked about their graduate school plans.

Financial Aid items in module 1 collected the most critical financial aid information for respondents including receipt of private organization and employer grants or scholarships, veteran's benefits, federal loans, private loans, and other sources of aid used in the 2014–15 academic year. Information about tuition refunds received during the 2014–15 academic year and the overall amount borrowed for the 2014–15 academic year in federal loans and private loans was also collected. Survey fatigue and measurement error were measured with an item asking about a fictitious loan (see section 3.4.2 for more information about these items).

Employment items captured in the first module were basic and included only whether the respondent had been employed between July 2014 and June 2015 and if they had any kindergarten-through-12th grade (K–12) teaching experience or plans for becoming being a K–12 teacher. Respondents who were not currently teaching but had considered teaching were asked to provide the steps they had taken to prepare for a teaching career. An additional item in this section asked how important certain nonsalary characteristics were in choosing a job.

Income and Expenses items in module 1 collected respondents' annual income, spouse's income, number of children and other dependents, and monthly costs of other dependents.

Background items in module 1 obtained information about student demographic characteristics such as United State citizenship, immigration status, and race and ethnicity, and included an instrument experiment related to parents' highest levels of education.

Module 2. Enrollment items in module 2 were brief and collected information only on whether respondents had ever attended a 2- or 4-year postsecondary institution.

Education Experiences items in this module gathered additional information on high school experiences, including estimate of grades earned and mathematics courses taken. College education experiences asked about in module 2 included major or field of study, any remedial coursework taken, and highest degree ever expected. These items included an instrument experiment on any undergraduate study abroad experiences. Items asking about NPSAS institution satisfaction were collected and used to measure survey fatigue and measurement error. B&B-eligible respondents were asked to code their last high school attended.

Financial Aid items in the second module asked for more detail on financial aid, including overall amount borrowed for the 2014–15 academic year as well as for all undergraduate and/or graduate education, including proportion of total loans still owed; whether family or friends would assist in repaying loans. Those who did not apply for financial aid in the 2014–15 academic year were asked why they had not. A related series of questions asked all respondents their perception of their unmet need and any reasons for choosing not to accept loans. Questions asked those with graduate-level assistantships, fellowships, or traineeships about pay and other details related to these school jobs. An additional item about a fictitious loan was also collected.

Employment items were generally more comprehensive in module 2, asking for information about all paid employers that respondents had between July 2014 and June 2015; whether the respondent worked while attending school or worked while not attending school; earnings; and average hours worked per week. Respondents were asked whether they considered themselves primarily a student or an employee. Questions related to future employment were asked of B&B-eligible respondents, including career planning services used at the NPSAS institution, work plans for the upcoming year, and perceptions about future occupation and wages.

Income and Expenses items in the second module collected information such as costs of dependents, including day care and dependent college expenses. Additional items included whether the respondent had received help from family or friends for college expenses; use of and amount owed on credit cards, checking or savings accounts held; on- or off-campus residence during the academic year; monthly rent or mortgage amount; and receipt of untaxed benefits. Information collected about dependent respondents' families included parents' marital status, income, and the number of other dependents supported by parents and in college.

Background information in module 2 consisted of ZIP code of permanent residence, whether English was their first language and frequency of speaking first (non-English) language in high school, military service, and disability status. The section also collected information on family members of respondents, including if spouse was also in college in the 2014–15 academic year and whether any siblings attended college before the respondent did.

The interview modules and content areas in each module are summarized in figure O-4. For the complete NPSAS:16 instrument facsimile, see section 4.6.

Figure O-4. NPSAS:16 field-test interview modules and topics: 2014-15¹ Only B&B-eligible respondents received these items.² Survey fatigue and measurement error items.³ Instrument experiment items.

NOTE: B&B = Baccalaureate and Beyond Longitudinal Study; NPSAS = National Postsecondary Student Aid Study.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16) Field Test.

Interview administration. For telephone interviews, the interviewer accessed the web instrument through RTP's CATI-CMS, which assigned cases to be called and provided the appropriate screens and scripts to be used during CATI. To minimize mode effects, NPSAS project staff incorporated the following specific methodological features into the instrument to provide web respondents with the assistance normally provided by a trained interviewer:

- help text on every form to define key terms and clarify question intent;
- pop-up messages to correct responses that were out of range or in an incorrect format;
- conversion text to encourage responses to critical items when these items were left unanswered; and
- pop-up messages prompting sample members to provide a response when three consecutive questions were left unanswered.

Additionally, the survey included instructions on each screen for telephone interviewers, indicating how each question was to be administered (e.g., whether the response options were to be read aloud, when to probe).

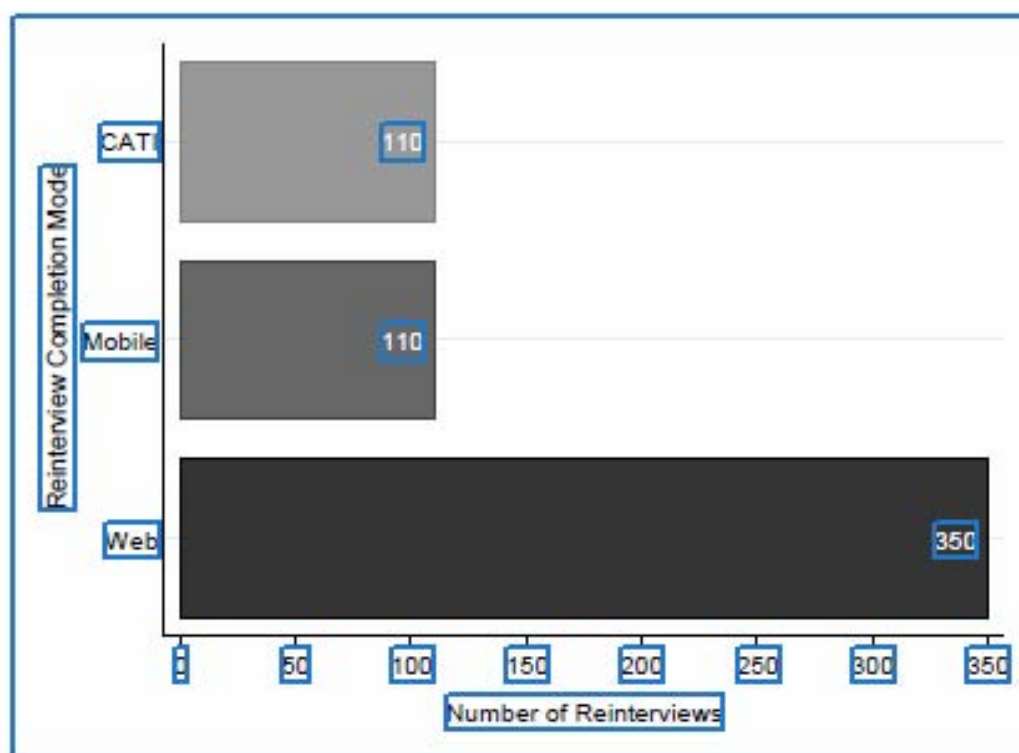
3.3.1 *Student reinterview analysis*

The reliability of self-reported responses to interview questions is an important element of data quality in survey research. One method of measuring reliability involves temporal stability, or how constant study members' responses remain over time. To evaluate the reliability of responses collected in the NPSAS:16 field-test interview, NPSAS staff developed a reinterview containing about 90 items selected from the main field-test interview. Specific items from the main interview believed to have relatively high levels of temporal stability were selected for inclusion in the reinterview. Some items were also selected if they were part of an instrument experiment in the main interview or were new to NPSAS and not previously tested for reliability.

All sample members who completed the main interview were given the option to self-select into the reinterview sample. Of 2,490 respondents who completed the main interview, 1,470 agreed to complete the reinterview. Each member of the reinterview sample was contacted 2 to 4 weeks after completing the main interview and was asked to participate in a 5- to 10-minute reliability reinterview. The reinterview was completed by 580 respondents (a response rate of 40 percent) and, on average, took 5 minutes to complete.

Reinterview sample members were prompted to complete the reinterview in the same mode in which they completed the main interview, either by CATI or via the web. For analysis, the web completion mode was separated into two categories to distinguish interviews completed on a mobile device (e.g., smartphone or tablet). Of the 580 completed reinterviews, only 2 percent completed in a mode different from their main interview completion mode. Given this high rate of mode agreement (98 percent), mode switchers are hereafter excluded from the analyses in order to provide consistent and accurate item comparisons without potential mode effects within sample members. Of the 570 respondents who completed the reinterview in the same mode, 61.4 percent completed via web, 18.8 percent completed on a mobile device, and 19.8 percent completed through CATI. Figure O-5 shows the distribution of reinterview responses by mode.

Figure O-5. Number of reinterviews, by mode of administration: 2014-15



NOTE: Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015-16 National Postsecondary Student Aid Study (NPSAS:16) Field Test.

Table O-7 shows reliability estimates for the items included in the reinterview. The questions in the reinterview pertained to five content areas from the main interview: Enrollment, Education Experiences, Financial Aid, Employment, and Background. For each item, table O-7 shows the number of cases, percent agreement between the

main interview and reinterview, and relational statistic. For discrete items, percent agreement was based on the extent to which responses to the initial interview matched exactly to the reinterview responses. For continuous items, responses were considered to be in agreement if the initial interview responses were within one standard deviation of the reinterview responses. Not all questions were applicable to all respondents. Because of this, answer comparisons were only conducted for items to which at least 10 respondents provided answers in both the main interview and the reinterview. Items with fewer than 10 comparable responses were excluded from the analysis.

The relational statistics quantified the strength of association between the pairs of items being compared. For each statistic, 1.00 was indicative of a perfect correlation (i.e., an exact match between the item on the initial interview and the same item on the reinterview for all respondents). Cramer's V was used as the relational statistic for items with discrete, unordered response categories (e.g., yes/no). Kendall's tau-b (τ_b) estimated the relationship between items with ordered categories (e.g., strongly disagree, somewhat disagree, neither agree nor disagree, somewhat agree, strongly agree). Lastly, the Pearson product-moment correlation coefficient (r) was used for items yielding interval responses (e.g., amount of federal student loans in the 2014–15 academic year).

Table O-7. Reliability estimates for items included in the reinterview, by content area: 2014-15

Item	Item label	Total		
		Number of cases	Percent agreement	Relational statistic
Enrollment				
N16ADIPL	Type of high school completion	510	97.2	0.79
N16ADGBMY	Date first attended NPSAS	510	82.8	0.91
N16APGMSMY	Date began graduate studies	60	76.3	0.93
Education Experiences				
N16BIBEXP	Version 1: took IB courses while in high school	260	99.6	0.71
N16BIB	Version 2: took IB courses while in high school	230	98.3	0.67
N16BAP	Version 2: took AP courses while in high school	250	94.3	0.89
N16BAPEXP	Version 1: took AP courses while in high school	260	92.2	0.84
N16BCOLLEXP	Version 1: took college-level courses while in high school	260	92.2	0.82
N16BOTHONL	Components of classes conducted online: other	190	91.9	0.17
N16BCOLL	Version 2: took college-level courses while in high school	240	91.2	0.79
N16BMATHNUM	Number of math courses taken since July 2014	40	88.6	0.81 ²
N16BONLDISC	Components of classes conducted online: discussions	190	84.9	0.58
N16BMATHREM	Taken basic or developmental math courses since July 2014	20	84.2	0.70
N16BONLHW	Components of classes conducted online: homework or problem sets	190	82.7	0.23
N16BPRTONLIN	Any classes at NPSAS partially online in 2014–15 academic year	540	81.2	0.62
N16BONLEXAM	Components of classes conducted online: exams or quizzes	190	78.4	0.43
N16BREADNUM	Number of reading courses taken since July 2014	50	77.8	0.76 ²
N16BONLORIEN	Components of classes conducted online: orientation/first day of class	190	74.6	0.34
N16BREADREM	Taken basic/developmental English/writing/reading since July 2014	30	73.1	0.46
N16BONLPRES	Components of classes conducted online: lectures or presentations	190	66.5	0.34

Continued

Table O-7. Reliability estimates for items included in the reinterview, by content area: 2014-15—Continued

Item	Item label	Total		
		Number of cases	Percent agreement	Relational statistic
Financial Aid				
N16CAIDAST2	Graduate aid 2014–15: assistantships	60	100.0	1.00
N16CAIDTSH2	Graduate aid 2014–15: traineeships	60	100.0	†
N16CAIDVET2	Graduate aid 2014–15: veterans education benefits	60	100.0	1.00
N16CAIDVET1	Undergraduate aid 2014–15: veterans education benefits	500	99.8	0.97
N16CAIDFELL1	Undergraduate aid 2014–15: fellowship	500	99.4	0.70
N16CAIDFELL2	Graduate aid 2014–15: fellowship	60	98.3	0.86
N16CAIDINT2	Graduate aid 2014–15: internship, clinical residency	60	98.3	†
N16CAIDLOAN2	Graduate aid 2014–15: loans	60	98.3	0.97
N16CAIDFOR2	Graduate aid 2014–15: foreign support	60	98.3	†
N16CFEDLN	Took out federal loans	300	95.3	0.56
N16CAIDFAM2	Graduate aid 2014–15: parents/family/friends financial assistance	60	95.0	0.84
N16CAIDEMP2	Graduate aid 2014–15: employer financial assistance	60	95.0	0.77
N16CAIDWKST1	Undergraduate aid 2014–15: work-study	500	94.2	0.79
N16CAIDOTH1	Undergraduate aid 2014–15: other source of aid	500	94.2	0.51
N16CAIDEMP1	Undergraduate aid 2014–15: employer financial assistance	500	94.0	0.53
N16CAIDPRV2	Graduate aid 2014–15: scholarship from private organization	60	93.3	0.68
N16CAIDOTH2	Graduate aid 2014–15: other source of aid	60	93.3	0.48
N16CAIDLOAN1	Undergraduate aid 2014–15: loans	500	90.7	0.81
N16CFEDAMT	Amount borrowed in federal loans in 2014–15 academic year	260	90.4	0.53 ¹
N16CAIDGRT2	Graduate aid 2014–15: grants or scholarship from government/NPSAS	60	90.0	0.79
N16CAIDPRV1	Undergraduate aid 2014–15: scholarship from private organization	500	87.5	0.59
N16CAIDGRT1	Undergraduate aid 2014–15: grants or scholarship from government/NPSAS	500	86.5	0.68
N16CAIDFAM1	Undergraduate aid 2014–15: parents/family/friends financial assistance	500	84.3	0.69
N16CDCMAXLN	Chose to accept max amount of federal loans in 2014–15 academic year	240	81.8	0.57
N16CAIDEARN1	Undergraduate aid 2014–15: earnings from employment	500	80.4	0.57
N16CAIDEARN2	Graduate aid 2014–15: earnings from employment	60	80.0	0.60

Continued

Table O-7. Reliability estimates for items included in the reinterview, by content area: 2014-15—Continued

Item	Item label	Total		
		Number of cases	Percent agreement	Relational statistic
Employment				
N16DHIWAGE	Future expected wages: highest possible beginning salary	240	94.3	0.30 ¹
N16DEXPWAGE	Future expected wages: most likely beginning salary	250	92.5	0.64 ¹
N16DLOWAGE	Future expected wages: lowest possible beginning salary	250	89.8	0.69 ¹
Background				
N16FFLANG	First language respondent learned to speak	570	97.7	0.79
N16FDISTZIP	Zip code of permanent residence	490	91.2	††
N16FPAR1GRAD	Version 2: parent 1: type of graduate degree	30	90.6	0.84 ²
N16FPAR2GATE	Version 2: parent 2: completed college degree	260	90.5	0.75
N16FPAR2NO	Version 2: parent 2: no college degree	130	89.1	0.87 ²
N16FPAR2GRAD	Version 2: parent 2: type of graduate degree	20	88.9	0.87 ²
N16FPAR1GATE	Version 2: parent 1: completed college degree	280	88.6	0.59 ²
N16FMOMED	Version 1: mother's highest level of education completed	290	86.4	0.88 ²
N16FPAR1YES	Version 2: parent 1: type of college degree	120	85.5	0.80 ²
N16FPAR2YES	Version 2: parent 2: type of college degree	100	84.5	0.71 ²
N16FDADED	Version 1: father's highest level of education completed	290	83.6	0.81 ²
N16FPAR1NO	Version 2: parent 1: no college degree	120	83.5	0.82 ²
N16FPAR1	Version 2: parent 1: identification	280	82.3	0.79
N16FPAR2	Version 2: parent 2: identification	270	79.5	0.62

† Not available. Statistics were not computed because the reinterview responses had less than two nonmissing levels.

†† Not available. Statistic was not computed because number of discrete values is too great.

¹ Pearson's product-moment correlation coefficient *r* was used. NOTE: The relational statistic presented is Cramer's *V*.

² The relational statistic presented is Kendall's tau-b.

NOTE: AP = Advanced Placement; IB = International Baccalaureate; NPSAS = National Postsecondary Student Aid Study. The relational statistic presented is Cramer's *V*, unless otherwise footnoted.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015-16 National Postsecondary Student Aid Study (NPSAS:16) Field Test.

Overall, results of the reinterview analysis indicate that the survey yields data of high quality, with consistently reliable results. Nearly 90 percent of the variables for which agreement statistics were calculated (56 out of 63) had agreement rates over 80 percent; and more than half of the variables (34 out of 63) had agreement rates over 90 percent.

Many items with the highest levels of agreement in the reinterview came from one of two questions, referred to here as the “financial aid gates.” These items were presented as checkbox lists, and their purpose was to collect a respondent’s entire student aid package by asking for all the types of aid the respondent had taken out for the academic year. One financial aid gate was constructed for undergraduate students, and a parallel item was added for graduate students based on the financial aid options available to them. Two of the 10 items on the undergraduate gate, *Undergraduate aid 2014–15: fellowship* and *Undergraduate aid 2014–15: Veterans education benefits* had nearly perfect agreement rates at 99.4 and 99.8 percent, respectively. For graduate students, 7 of the 13 items had agreement rates over 98 percent, with *Graduate aid 2014–15: assistantships*, *Graduate aid 2014–15: traineeships*, and *Graduate aid 2014–15: veterans education benefits* all exhibiting 100 percent agreement. The lowest rates of agreement from the financial aid gates came from *Undergraduate aid 2014–15: earnings from employment* and *Graduate aid 2014–15: earnings from employment*, although the agreement rates for these items were still relatively high at 80 percent.

Items with some of the lowest rates of agreement in the reinterview pertained to a question designed to identify the components of courses students took online. The item *Components of classes conducted online: lectures or presentations* had the lowest rate of agreement in the reinterview at 66.5 percent, and *Components of classes conducted online: orientation/first day of class* was the third lowest with a rate of 74.6 percent. The lower rates of agreement on these items indicate some uncertainty on the part of respondents in identifying or classifying course components that are delivered online.

Two of three instrument experiments were also part of the reinterview (further details regarding these and other instrument experiments and their main-interview results can be found in section 3.4). Items from a high school coursetaking experiment and a parents’ highest level of education experiment were tested for reliability. A control and an experimental version of the coursetaking experiment asked about AP, IB, and other college-level courses. All the items in both versions (control and experimental) had agreement rates over 90 percent, and there were no statistically significant differences between the two versions in terms of agreement between the main interview and reinterview. Items related to the parents’ highest level of education experiment also had high levels of agreement. Eleven out of the 12 parental education items achieved an agreement rate over 80 percent, and, much

like the coursetaking experiment, no statistical significance was found in terms of agreement rate between the control and experimental versions of the items.

The reliability results overall suggest many of the items will yield high-quality data in the full-scale instrument. For the few items with lower agreement rates, the levels of reliability may be improved by updating question wording or providing clearer definitions to future respondents.

3.3.2 *Instrument coders*

The NPSAS:16 field-test student interview used assisted coding systems, or “coders,” to provide standardized codes on text string responses for additional postsecondary institutions attended in the 2014–15 academic year, majors or fields of study, future occupations, and last high school attended. For each of these, respondents first entered text strings, then matched their entry to options search results returned from an underlying database of standardized terms. Following are descriptions of the individual coding systems and sources:

- **Postsecondary Institution:** NPSAS survey staff developed the postsecondary institution coder from the set of institutions contained in IPEDS, developed by NCES (<http://nces.ed.gov/ipeds/>). For this coder, data from prior years supplemented data from the 2012–13 Institution Characteristics Header file. This coder coded any postsecondary institutions the respondent attended, other than the NPSAS institution, during the 2014–15 academic year. For any institutions not listed in the database, the coder retained text strings; and respondents were asked to provide the control (e.g., public or private) and level (e.g., 4-year or 2-year) of the institution.
- **High School:** NPSAS survey staff developed the high school coder using the Private School Universe Survey for private schools (<http://nces.ed.gov/surveys/pss/>) and the Common Core of Data for public schools (<http://nces.ed.gov/ccd/>). For the private schools, data from prior years supplemented data from the 2011–12 school year file. For the public schools, data from prior years supplemented data from the preliminary 2011–12 school year file. For schools not identified within the high school coder, the coder retained the entered text string and asked respondents to supply the school type, district or county name, and the highest and lowest grade levels at the school. The high school coder was not used for students who identified themselves as home schooled or as last attending a foreign high school.
- **Major:** NPSAS survey staff constructed the major coder using the 2010 CIP taxonomy, also developed by NCES (<http://nces.ed.gov/ipeds/cipcode>). For any majors or fields of study not found in the CIP database, the coder asked respondents to select a general major area and a specific discipline.
- **Occupation:** NPSAS survey staff built the occupation coder from the Occupational Information Network Online (O*NET OnLine) database (<http://onetonline.org>),

Version 19.0. For any occupations not listed in the database, the coder asked respondents to provide a general area, specific area, and finally a detailed classification area for the occupation.

Recoding. Project staff randomly selected 25 percent of the major and occupation codes chosen in the student interview for recoding, a process in which expert coding staff review the codes chosen in the survey and determine whether a different selection more accurately described the text string provided by the respondent. Overall, for the major code review, expert coding staff agreed with the response chosen in the interview 87.3 percent of the time. For the occupation code review, expert coding staff agreed with 95.9 percent of responses chosen in the interview.

A significant difference in recode rates occurred between web and mobile modes of administration in the major coder. Expert coders agreed with major codes chosen by mobile respondents approximately 93.6 percent of the time, whereas they agreed with major codes chosen by web mode respondents only 88.5 percent of the time ($\chi^2(1, N = 675) = 3.82, p = .05$). The occupation coder showed no significant differences in recode rates between modes of administration. However, on the occupation coder for mobile respondents, expert coders agreed with their selection 100 percent of the time.

Table O-8 shows the rate of recoded values (recoded same as original, recoded to different value, or text string too vague to code) chosen by the expert coding staff for the major and occupation coders in the survey.

Table O-8. Summary of recoding results, by coder type and mode of administration: 2014-15

Coding type	Percent of recoded values											
	Recoded same as original				Recoded to a different value				Text string too vague to code			
	Overall	Web	Mobile	Telephone	Overall	Web	Mobile	Telephone	Overall	Web	Mobile	Telephone
Major	87.3	88.5	93.6	94.8	12.2	11.5	5.9	5.2	#	†	#	†
Occupation	95.9	94.7	100.0	96.0	4.1	5.3	†	4.0	†	†	†	†

† Not applicable.

Rounds to zero.

NOTE: Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16) Field Test.

Upcoding. In a process known as upcoding, expert coding staff assigned a code for any text string for which a code had not been selected in the survey. Text strings from the elementary/secondary school coder required the most upcoding at approximately 22 percent, while text strings from the IPEDS institution coder required 9.3 percent upcoding; the major coder required 7.0 percent upcoding; and the occupation coder required 5.6 percent upcoding. Text strings from web and mobile interviews generally required more upcoding than telephone interviews. Telephone interviewers received special training on the use of coders, which provided them with extra facility using them. Results of the upcoding process are shown in table O-9.

Table O-9. Summary of upcoding results, by mode of administration and coding system: 2014-15

Coding system	Percent of text strings upcoded			
	Overall	Web	Mobile	Telephone
Elementary/secondary schools	22.2	24.1	18.9	18.3
IPEDS institutions	9.3	9.5	13.0	4.3
Major	7.0	5.6	8.9	4.7
Occupation	5.6	5.1	7.0	5.7

NOTE: IPEDS = Integrated Postsecondary Education Data System.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16) Field Test.

3.3.3 Item nonresponse

The rate of nonresponse for individual items in the student interview is used to identify potentially troublesome survey items and to better understand the experiences of respondents completing the interview. In the NPSAS:16 field-test student interview, total nonresponse rates were calculated for items with missing data administered to at least 10 respondents. Overall, the item-level nonresponse analysis showed that, of the 441 NPSAS:16 field-test student interview items, only 23 items had more than 10 percent missing data. Two interview questions accounted for 16 of these items. These items asked respondents to identify math and reading courses taken in the academic year. Each item on these two questions (N16BMATHTYP and N16BREADTYP) possessed the same item-level nonresponse, and thus the set of items was collapsed into two rows in table O-10, leaving 9 items presented with more than 10 percent missing data.

Table O-10. Item nonresponse for items with more than 10 percent of data missing: 2014-15

Item	Item Label	Overall		Web		Telephone		Mobile	
		Number administered to	Percent missing	Number administered to	Percent missing	Number administered to	Percent missing	Number administered to	Percent missing
N16BREADTYP	Reading courses taken since July 2014	60	19.6	30	17.6	10	16.7	20	25.0
N16BMATHTYP	Math courses taken since July 2014	50	19.6	20	16.7	10	11.1	10	30.8
N16BASACOUNA	Group 1: last country in which studied abroad	110	19.3	80	19.0	10	0.0	30	24.0
N16BSABCONT1	Group 1: last continent in which studied abroad	110	18.4	80	17.9	10	0.0	30	24.0
N16AHSCMP	Currently completing high school requirements	10	18.2	#	25.0	#	50.0	10	0.0
N16CUGPRVEST	Estimated total amount borrowed in private loans for undergrad education	100	13.0	60	13.8	10	0.0	40	14.3
N16EKIDCOL1	Dependent in college in 2014-15 academic year	50	11.1	30	3.0	10	0.0	10	35.7
N16EOTDEPAMT	Amount per month spent financially supporting others	70	10.4	40	8.1	10	11.1	20	14.3
N16CGRTAAMT	Amount of graduate teaching assistantships in 2014-15 academic year	10	10.0	10	10.0	†	†	†	†

Rounds to zero.

NOTE: Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015-16 National Postsecondary Student Aid Study (NPSAS:16) Field Test.

The items with the overall highest observed nonresponse rates were *reading courses taken since July 2014* (N16BREADTYP) and *math courses taken since July 2014* (N16BMATHTYP). On each of these forms, respondents were asked to select the courses they had taken since July 2014 from a list of eight course titles; each course title represented an item on the form. Nonresponse rates for these forms were calculated based on missingness of all items on each form. Of the 60 respondents who received *reading courses taken since July 2014* (N16BREADTYP), approximately 20 percent did not select any item on the form. Similarly, of the 50 respondents who received *math courses taken since July 2014* (N16BMATHTYP), 20 percent did not select any item on the form.

The next highest overall nonresponse rates came from a series of dropdowns from which respondents were asked to select the continent on which they studied abroad and then asked to select the country in which they studied abroad. These items, *group 1: last continent in which studied abroad* (N16BSABCONT1) and *group 1: last country in which studied abroad* (N16BASACOUNA), appeared only to respondents who reported having studied abroad during their undergraduate education. Of the 110 respondents who received both items, N16BASACOUNA had a nonresponse rate of 19 percent, and N16BSABCONT1 had a nonresponse rate of 18 percent.

The remaining 5 of the 9 items with nonresponse rates of 10 percent or greater were items that asked respondents to report information about specific financial amounts or personal and family events occurring during the 2014–15 academic year. The financial amount items included *estimated total amount borrowed in private loans for undergraduate education* (N16CUGPRVEST), *amount per month spent financially supporting others* (N16EOTDEPAMT), and *amount of graduate teaching assistantships in 2014–15 academic year* (N16CGRTAAMT). The event items included *currently completing high school requirements* (N16AHSCMP) and *dependent in college in 2014–15 academic year* (N16EKIDCOL1). Nonresponse rates for these 5 items ranged from 10 percent to 18 percent.

Item-level nonresponse rates were also examined by mode of administration for the 23 survey items with more than 10 percent missing data. Only one item had significant differences in nonresponse rates between modes. For *Dependent in college in 2014–15 academic year* (N16EKIDCOL1), the nonresponse rate of mobile respondents (36 percent) was significantly more than that of web respondents (3 percent) ($\chi^2(1, N = 53) = 6.63, p < .01$).

3.3.4 Help text analysis

In the NPSAS:16 field-test student interview, respondents and telephone interviewers were able to click a help button provided on each survey screen to obtain question-specific help text. In addition, some questions included embedded hyperlinks to the help text on specific terms in the question itself. Whether accessed through the help button or through a hyperlink, each question had unique help text that provided definitions of key terms and phrases used in question wording and response options, and provided any other explanations thought to help clarify and standardized meaning for respondents. The number of times that respondents or interviewers accessed the help text relative to the number of times questions were administered determined the overall rate of help text access, which was less than 1 percent (0.25 percent) for those items administered to more than 25 respondents. Table O-11 shows the interview questions with the highest rates of help text access, by mode of administration.

The form-level rate of help text access was analyzed, by mode of interview administration, to identify questions that may have been problematic for users. Seven survey questions administered to at least 25 respondents had an overall help text access rate of 2 percent or greater. *Group 2: took AP, IB, or college-level courses while in high school* (N16BAPIBCOLL) had the highest observed rate at approximately 4 percent. This question, which asked respondents if they had ever taken any AP, IB, or college-level courses while in high school, was the second version of an instrument formatting experiment asking about these types of courses (see section 3.4 for more information on the instrument experiments). This “Group 2” version listed all the courses on a single screen in a yes/no grid. Telephone interviewers used the help text on this item at a higher rate (13.5 percent) than web respondents (3.5 percent) ($\chi^2(1, N = 865) = 17.72, p < .01$) and significantly more than mobile respondents (1.1 percent) ($\chi^2(1, N = 400) = 23.47, p < .01$). This difference was expected as telephone interviewers are trained to access help text when respondents express confusion or have additional questions on particular survey items.

Aid amount from fellowships, private scholarships, employment aid, and veteran benefits (N16COTGRTAMT) had the second highest help text access rate at 3 percent. This form asked respondents to report the amount of aid they received in fellowships, private scholarships, employment aid, or veterans benefits, depending on which of those four they selected in the preceding question. Telephone interviewers used this help text at a significantly higher rate (14.3 percent) than web respondents (1.8 percent) ($\chi^2(1, N = 135) = 6.33, p < .05$). However, the difference between the rate of help text access between telephone interviewers and mobile respondents, who did not access the help text on this item at all, was not significant.

The remaining 5 items with an overall help text access rate of 2 percent or greater generally did not show significant differences in help text use across the three modes. *Type of math course taken in high school* (N16BHSMATH), *Credit card amount carried over each month* (N16ECARRYBAL), *Took out private loans in 2014–15 academic year* (N16CPRVLN), and *Math courses taken since July 2014* (N16BMATHHTYP) all had help text rates between 2 and 3 percent, yet none differed significantly across modes. *Total amount borrowed in private loans for undergraduate education* (N16CUGPRVT) did show significant differences in the rate at which telephone interviewers used the help text (6.7 percent), which was significantly more than both web respondents (1.8 percent) and mobile respondents (1.5 percent) ($\chi^2(1, N = 1,308) = 13.94, p < .001$) and ($\chi^2(1, N = 604) = 10.67, p < .01$) respectively).

Table O-11. Interview questions with highest rates of help text access, by mode of administration: 2014-15

Question	Question description	Mode of administration							
		Overall		Web		Telephone		Mobile	
		Number administered to	Percent of help text access	Number administered to	Percent of help text access	Number administered to	Percent of help text access	Number administered to	Percent of help text access
N16BAPIBCOLL	Group 2: took AP, IB, or college-level courses while in high school	1100	3.9	710	3.5	110	13.5	270	1.1
N16COTGRTAMT	Aid amount from fellowships, private scholarships, employment aid, and Veteran benefits	160	3.2	110	1.8	20	14.3	30	0.0
N16BHSMATH	Type of math course taken in high school	1100	2.8	690	2.3	120	4.8	290	3.1
N16ECARRYBAL	Credit card amount carried over each month	1430	2.8	940	3.4	140	1.4	350	1.7
N16CPRVLN	Took out private loans in 2014-15 academic year	1490	2.8	970	2.8	160	3.1	360	2.5
N16CUGPRVT	Total amount borrowed in private loans for undergraduate education	1680	2.3	1100	1.8	180	6.7	410	1.5
N16BMATHTYP	Math courses taken since July 2014	50	2.2	20	0.0	10	11.1	10	0.0

Rounds to zero.

NOTE: AP = Advanced Placement; IB = International Baccalaureate. Table is based on the rates of help text access for interview items administered to a minimum of 25 respondents. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015-16 National Postsecondary Student Aid Study (NPSAS:16) Field Test.

3.3.5 Conversion text analysis

In an effort to minimize item-level nonresponse in the NPSAS:16 field-test student interview, the survey used conversion text to encourage reluctant respondents to provide a response. When encountered in the web and mobile interview modes, conversion text essentially mimicked the refusal conversion strategy that would have been attempted by a telephone interviewer. In the NPSAS:16 field-test student interview, a subset of 28 items were considered critical enough to require conversion text. If the respondent left one of these critical items blank, the survey displayed the item again, with additional text emphasizing the importance of the item and sometimes also displaying a “don’t know” response option.

To determine a conversion rate for items with conversion text, the total number of responses on each of the critical items after the survey displayed conversion text was divided by the total number of cases for which the conversion text was triggered. Items for which conversion text was triggered fewer than five times were excluded from the analysis. Overall, conversion text led to an item response 72 percent of the time after being displayed. Web interviews accounted for 58 percent of the total instances in which conversion text was triggered and 61 percent of the total converted instances. Mobile interviews accounted for 25 percent of the total instances in which conversion text was triggered and 25 percent of the total converted instances. The remaining 17 percent of total instances in which conversion text was triggered occurred in telephone interviews, accounting for 14 percent of the total converted instances.

Conversion rates for individual items ranged from 47 percent to 100 percent. Table O-12 displays the rates of conversion for the critical items, overall and by mode of administration. Of the 13 critical items for which conversion text was triggered five times or more, only 4 items had conversion rates lower than 70 percent. Some of these requested more sensitive information than other items, such as *parent’s (or guardian’s) income in 2014* (N16EPARNC), *respondent’s income in 2014* (N16EINCOM), and *race* (N16FRAC1).

Two survey items triggered conversion text at least 100 times: *future expected wages* (N16DFUTWAGES) and *parents’ (or guardians’) income in 2014* (N16EPARNC). *Future expected wages* asked respondents to predict their expected future earnings in the job they intended to have after finishing their bachelor’s degrees. This item had a conversion rate of 65 percent. The *parents’ (or guardians’) income in 2014* item had a conversion rate of 62 percent, including conversion to a “don’t know” response. For both items, there were no significant differences across modes of administration.

Only one item showed significant differences in conversion rates between modes of administration. *Race* (N16FRAC1) had the lowest rate of conversion to a valid response of any of the critical items, at 47 percent. This was due in part to the low level of conversion for telephone interviews (8 percent). This differed significantly from the conversion rate of mobile respondents (67 percent) ($\chi^2(1, N = 39) = 4.78, p < .05$) and web respondents (53 percent) ($\chi^2(1, N = 69) = 4.07, p < .05$). The differences between modes and the overall conversion rate may be indicative of the sensitivity associated with reporting race and were expected.

Table O-12. Conversion rates for critical items, by mode of administration: 2014-15

Item	Item description	Total					Web				
		Number of cases	Number converted	Total percent converted	Percent converted to a valid response	Percent converted to a "don't know"	Number of cases	Number converted	Total percent converted	Percent converted to a valid response	Percent converted to a "don't know"
N16AELIG	Attended NPSAS during 2014-15 academic year	10	10	100.0	100.0	0.0	#	#	100.0	100.0	0.0
N16APRDG	Earned prior degrees or certificates	10	10	100.0	100.0	0.0	#	#	100.0	100.0	0.0
N16FHISP	Respondent of Hispanic or Latino origin	10	10	100.0	100.0		#	#	100.0	100.0	
N16COTGRTAMT	Aid amount from fellowships, private scholarships, employment aid, and Veteran benefits	70	70	98.6	98.6		40	40	97.7	97.7	
N16DWKHREN01	Employer1: hours worked per week while attending in 2014-15	10	10	88.9	88.9		10	10	100.0	100.0	
N16AMONTHS1	NPSAS attendance: monthly attendance July 2014- December 2014	20	20	88.2	88.2		10	10	92.3	92.3	
N16EINCSP	Spouse's income in 2014	10	10	84.6	61.5	23.1	10	10	83.3	33.3	50.0
N16AMONTHS2	NPSAS attendance: monthly attendance January 2015-May 2015	40	30	81.6	81.6		20	20	83.3	83.3	
N16EDPNUM	Number of people financially supported by parents in college in 2014-15	10	10	75.0	75.0		10	10	100.0	100.0	
N16DFUTWAGES	Future expected wages	100	70	65.4	65.4		70	40	66.7	66.7	
N16EPARNC	Parent's or guardian's income in 2014	100	60	61.8	23.5	38.2	60	40	67.3	30.9	36.4
N16EINCOM	Respondent's income in 2014	30	20	61.5	42.3	19.2	10	10	63.6	45.5	18.2
N16FRAC1	Race	60	30	46.9	46.9		40	20	52.8	52.8	

Continued

Table O-12. Conversion rates for critical items, by mode of administration: 2014-15—Continued

Item	Item description	Mobile					Telephone				
		Number of cases	Number converted	Total percent converted	Percent converted to a valid response	Percent converted to a "don't know"	Number of cases	Number converted	Total percent converted	Percent converted to a valid response	Percent converted to a "don't know"
N16AELIG	Attended NPSAS during 2014-15 academic year	10	10	100.0	100.0	0.0	†	†			
N16APRDG	Earned prior degrees or certificates	#	#	100.0	100.0	0.0	†	†			
N16FHISP	Respondent of Hispanic or Latino origin	#	#	100.0	100.0		†	†			
N16COTGRTAMT	Aid amount from fellowships, private scholarships, employment aid, and Veteran benefits	10	10.0	100.0	100.0		10	10.0	100.0	100.0	
N16DWKHREN01	Employer1: hours worked per week while attending in 2014-15	#	#	50.0	50.0		#	#	100.0	100.0	
N16AMONTHS1	NPSAS attendance: monthly attendance July 2014–December 2014	#	#	50.0	50.0		#	#	100.0	100.0	
N16EINCSP	Spouse's income in 2014	10	10	83.3	83.3	0.0	#	#	100.0	100.0	0.0
N16AMONTHS2	NPSAS attendance: monthly attendance January 2015–May 2015	10	10	90.0	90.0		#	#	50.0	50.0	
N16EDPNUM	Number of people financially supported by parents in college in 2014-15	#	#	50.0	50.0		#	#	50.0	50.0	
N16DFUTWAGES	Future expected wages	30	20	71.9	71.9		10	#	16.7	16.7	
N16EPARNC	Parent's or guardian's income in 2014	20	10	40.0	13.3	26.7	30	20	62.5	15.6	46.9
N16EINCOM	Respondent's income in 2014	10	#	42.9	28.6	14.3	10	10	75.0	50.0	25.0

Continued

Table O-12. Conversion rates for critical items, by mode of administration: 2014-15—Continued

Item	Item description	Mobile					Telephone				
		Number of cases	Number converted	Total percent converted	Percent converted to a valid response	Percent converted to a "don't know"	Number of cases	Number converted	Total percent converted	Percent converted to a valid response	Percent converted to a "don't know"
N16FRAC1	Race	20	10	66.7	66.7		10	#	7.7	7.7	

† Not applicable.

Rounds to zero.

NOTE: NPSAS = National Postsecondary Student Aid Study. Critical items where conversion text was triggered fewer than five times were excluded. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015-16 National Postsecondary Student Aid Study (NPSAS:16) Field Test.

3.3.6 *Instrument timing analysis*

The time required for each respondent to complete the NPSAS:16 field-test student interview was collected and analyzed in order to promote efficiency for the full-scale student interview. Special attention was paid to the average time it took respondents to complete the interview based on mode of administration and particular student types, including those eligible for the B&B study.

As discussed above, the NPSAS:16 field-test student interview was organized into a two-module structure that asked a random sample of respondents to consider completing a 15-minute interview and, at the conclusion of that first module, whether they would consent to completing another 15-minute module either immediately or at a future time. These respondents were placed into one of two incentive groups: (1) \$15 to complete each module or (2) \$20 upon completion of the first module and \$10 upon completion of the second module. A control group was asked to complete the entire 30-minute interview (modules 1 and 2) in one sitting. The order of questions remained the same whether respondents were in the control or the experimental group.

To analyze the time required to complete the student interview, interview time outliers, partial interviews, and interviews completed in multiple sessions were excluded. Module experiment treatment-group respondents who completed only the first module of the interview were treated as partial interviews and excluded. Respondents in the module experiment treatment groups who completed both modules of the interview were combined for comparison to the control group. Table O-13 provides detail on the 2,770 interview completes by whether they were included in the timing analysis.

Table O-13. Count and proportion of NPSAS interviews, by whether included in timing analysis and interview type: 2014-15

	Number of cases	Percent
Total interviews (including partials)	2,770	100.0
Total Interviews included in timing report	1,600	57.8
Control group		
Completed full interview	630	22.7
Module groups		
Completed Modules 1 and 2	970	35.0
Interviews excluded from timing report	1,170	42.2
Control group interviews completed in more than one session	270	9.7
Experimental group modules completed in more than one session	550	19.9
Total interview time outliers	120	4.3
Partial interviews	230	8.3

NOTE: Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16) Field Test.

To calculate the time required to complete the interview, a time stamp was embedded on each web screen, or form, of the interview. To get the start time, a start timer recorded the clock time on a respondent's or telephone interviewer's computer when a form was first loaded. To get the end time, an end timer recorded the clock time when the "Next" button on the form was clicked. The time for each form was calculated by subtracting the start time from the end time. Total interview time was calculated by adding the times recorded for each form. Overall, the NPSAS:16 student interview took an average of 34.25 minutes to complete.

Each interview was completed either by CATI or a self-administered web interview. For analysis, the web-completion mode was separated into two categories to set apart interviews completed on a mobile device (e.g., smartphone or tablet) from those completed on a nonmobile device. Web interviews (nonmobile devices) took the least amount of time of all the modes, at 32.69 minutes. This time was significantly less than interviews completed on mobile devices, which took 34.12 minutes ($t(1385) = 2.33, p < .05$), and significantly less than CATI interviews, which took 42.27 minutes ($t(1287) = 13.74, p < .001$). The difference between CATI (42.27 minutes) and mobile interviews (34.12 minutes) was also significant ($t(526) = 10.78, p < .001$). The longer time to complete, especially for CATI interviews, was expected because these questions must be read aloud to respondents.

Differences between the module and control groups in terms of timing burden were not expected, given that the interview questions were offered in the same order and to the same respondent types regardless of experiment group. As expected, there were only small differences between the overall average times by experiment group,

none of which was statistically significant. Table O-14 provides the average time to complete the full interview by experiment group and by mode of interview administration.

Table O-14. Average time in minutes to complete the full interview, by module experiment group and mode of administration: 2014-15

Experiment Group	Mode of administration							
	All		Web		Mobile		CATI	
	Number of cases	Average time	Number of cases	Average time	Number of cases	Average time	Number of cases	Average time
All completed interviews	1600	34.25	1070	32.69	310	34.12	210	42.27
Control group	630	34.01	450	32.69	110	33.08	80	43.09
Module group	970	34.42	630	32.69	200	34.69	140	41.81

NOTE: CATI = computer-assisted telephone interviewing. The timing analysis included only cases that completed the interview in one session; partial interviews and outliers were excluded. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015-16 National Postsecondary Student Aid Study (NPSAS:16) Field Test.

Module 1 of the student interview contained the most critical questions in the field test. It was followed by abbreviated Locating and Incentive sections administered only to the module experiment groups prior to their being offered the option to continue with module 2. Module 2 consisted of the remaining interview items and was followed by the full Locating and Incentive sections. The information provided by module-group respondents in the abbreviated Locating section was used for routing in the full Locating section so as not to collect duplicative information from these respondents. Thus, shorter timing for the full Locating section was expected of the module-group respondents. The final section was a short debriefing section, which collected information regarding respondents' participation in the study. Table O-15 shows the average time in minutes to complete each section by experiment group. Note that the control group did not receive times for the (abbreviated) module 1 Locating or module 1 Incentive sections because they were not administered these sections.

Generally, only small differences were found between the control and module groups in terms of section timing. As expected, the full Locating section took the control group significantly longer to complete (4.76 minutes) in comparison to the module groups (2.57 minutes) ($t(731) = 13.20, p < .001$). No other sections showed significant timing differences between the control and module groups.

Table O-15. Average time in minutes to complete the full interview, by interview section and experiment group: 2014-15

Interview section	Experiment Group					
	All interviews		Control Group		Module group	
	Number of cases	Average time	Number of cases	Average time	Number of cases	Average time
Total full interview	1600	34.25	630	34.01	970	34.42
Module 1	1550	12.76	610	12.51	940	12.92
Module 1 Locating	380	1.6	†	†	380	1.60
Module 1 Incentives	960	0.48	†	†	960	0.48
Module 2	1590	15.38	620	15.18	970	15.50
Locating	730	3.47	300	4.76	430	2.57
Incentives	1480	2.83	590	2.85	890	2.82
Debriefing	1370	1.05	550	1.10	820	1.02

† Not applicable: Control group respondents were not offered these sections

NOTE: timing analysis included only cases that completed the interview in one session; partial interviews and outliers were excluded. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16) Field Test.

In addition to experiment groups, the NPSAS:16 field test also contained distinct respondent subgroups based on student type. Two important subgroups included (1) respondents eligible for the B&B cohort and (2) graduate students. B&B-eligible respondents received more items than other respondents, including the Locating section, which collected their contact information to reach them later for participation in the longitudinal B&B study, as well as a few additional questions within the interview. Graduate students received some different questions than undergraduate respondents related to their graduate studies, but, overall, they received fewer total questions.

Table O-16 provides a breakdown of the average time to completion for these student subgroups and by mode of administration. As expected, B&B-eligible respondents took longer to complete the interview than other student types, averaging 37.40 minutes. This was significantly longer than other undergraduate students, who took just 32.45 minutes ($t(1,414) = 9.91, p < .001$). Graduate student respondents, as expected, took less time than all undergraduate respondents to complete the interview with an average of 28.68 minutes, which was significantly less time than the B&B-eligible respondents (37.40 minutes) and the other undergraduate respondents (32.45 minutes) ($t(876) = 5.05, p < .001$) and ($t(908) = 11.20, p < .001$) respectively). As stated, these differences were expected given that these respondent subgroups received some different sets of items within the interview.

Table O-16. Average time in minutes to complete the full interview, by respondent subgroup and mode of administration: 2014-15

Status	All respondents		Mode of administration					
			Web		Mobile		CATI	
	Number of cases	Average time	Number of cases	Average time	Number of cases	Average time	Number of cases	Average time
All completed interviews	1,600	34.25	1070	32.69	310	34.12	210	42.27
B&B-eligible	730	37.4	520	35.99	140	37.16	70	47.92
Other undergraduates	690	32.45	420	30.39	150	32.15	120	39.84
Graduate students	190	28.68	140	27.23	30	29.88	20	36.78

NOTE: CATI = computer-assisted telephone interviewing. The timing analysis included only cases that completed the interview in one session; partial interviews and outliers were excluded. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015-16 National Postsecondary Student Aid Study (NPSAS:16) Field Test.

Average times to administer each individual form within the interview were also analyzed. The forms with the highest average administration times are listed in table O-17. Among the highest overall form times were four coders: one for occupation (N16DEXOCC), a major coder (N16BMAJ1), a postsecondary institution coder (N16ASCH01), and a high school coder (N16BHSCDR). The longer time to complete these forms was expected given that coders required the respondent or telephone interviewer to (1) enter text strings on the form, (2) hit “Enter” to conduct a keyword search on an underlying database, and (3) select a response from the returned list of possible matches. (Coders are described in more detail in section 3.3.2.) The coder for expected occupation (N16DEXOCC) had the longest average form time at 68.31 seconds. This form asked B&B-eligible respondents to identify the occupation they expected to have upon completion of their bachelor’s degree.

Two forms designed to collect information about the respondent’s entire student financial aid package (N16CAIDGATE1 and N16CAIDGATE2) also had high administration times. These financial aid gates were presented as checkbox lists and asked respondents to select all the types of aid he or she had taken out for the academic year. These longer administration times were expected given the large number of items on the forms and the detailed nature of the questions. Three textbox entry forms appear in table O-17 as well (N16CCSTBKS, N16DFUTWAGES, and N16COTGRTAMT). Both *Cost of required textbooks and materials* (N16CCSTBKS) and *Amount of fellowships, private scholarships, employer assistance, or veterans benefits* (N16COTGRTAMT) required respondents to recall dollar amounts of money spent or received on certain items. *Future expected wages* (N16DFUTWAGES) was also a textbox entry form, although it did not require recall of information like the others. Instead, it required respondents to consider and report their expected salaries in a job after completion of their bachelor’s degrees.

The form *Nonmonetary benefits of education* (N16DEDBENFTS) was also a multi-item form. It asked respondents to weigh against salary the relative importance of things like balancing work and family or being seen as an expert in one’s field.

Table O-17. Ten longest average form times observed in the interview: 2014-15

Form	Form description	Type	Number of cases	Mean (seconds)
N16DEXOCC	Expected occupation	Coder	730	68.31
N16BMAJ1	Primary major at NPSAS	Coder	1620	56.79
N16CAIDGATE1	Undergraduate aid in the 2014–15 academic year	Checkbox list	1640	51.34
N16ASCH01	Other school 1 attendance: School name	Coder	170	49.58
N16CCSTBKS	Cost of required textbooks and materials	Textbox	1680	46.87
N16CAIDGATE2	Graduate aid in the 2014–15 academic year	Checkbox list	200	46.60
N16BHSCDR	Last high school attended	Coder	250	45.15
N16DEDBENFTS	Nonmonetary benefits of education	Likert	1850	44.95
N16DFUTWAGES	Future expected wages	Textbox	730	38.89
N16COTGRTAMT	Amount of fellowships, private scholarships, employer assistance, or Veterans benefits	Textbox	490	38.65

NOTE: The timing analysis included only cases that completed the interview in one session; partial interviews and outliers were also excluded. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16) Field Test.

Lastly, the timing of the NPSAS:16 field test reinterview was analyzed. A subset of items were re-administered to main interview respondents in the form of a reinterview to evaluate the reliability of responses collected in the main field-test interview. (A full description of the results are presented in section 3.3.1.) The reinterview was completed by 580 respondents and included 40 questions from the main interview. On average, the reinterview took 4.43 minutes to complete by web, 4.73 minutes to complete on a mobile device, and 5.35 minutes to administer on the telephone (table O-18). The difference between CATI reinterviews (5.35 minutes) and web reinterviews (4.43 minutes) was statistically significant ($t(472) = -3.08, p < .01$). Other differences between modes were not significant.

Table O-18. Average time in minutes to complete NPSAS:16 reinterview, overall and by mode of administration: 2014-15

Mode of administration	Number of cases	Average time
Total	580	4.68
Web	350	4.43
Mobile	110	4.73
CATI	120	5.35

NOTE: CATI = computer-assisted telephone interviewing.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–16 National Postsecondary Student Aid Study (NPSAS:16) Field Test.

3.4 Student Interview Experiments

Several experiments and methodological item evaluations were included in the NPSAS:16 field-test student interview to inform the instrument design for the full-scale data collection. The following section discusses the design, implementation, and results of these experiments.

3.4.1 *Evaluation of burden and motivation to participate*

In part because the NPSAS:16 field test is newly optimized for completion on devices of all screen sizes, including handheld devices, the field test was used to experiment whether the stated length of the interview, typically 30 minutes, would affect participation rates, particularly for respondents completing the interview on smaller-sized devices such as a mobile phone. Following a “foot in the door” approach (Freedman and Fraser, 1966), in which a small request is followed by a larger request, the survey instrument was divided into two modules to determine if breaking the survey into two smaller tasks would increase participation rates. All cases were offered a total incentive of up to \$30, but the distribution of the amount differed depending on the field test condition to which each sample member was randomly assigned. In the experimental condition, a random subset of sample members were asked to complete a 15-minute interview, and at the conclusion of the interview, were asked to complete another 15-minute interview for an additional incentive. A control group was asked to complete the entire 30-minute interview in one sitting.

Sample members were randomly assigned into one of three conditions described below.

1. Treatment Group 1: Sample members were asked to first complete a 15-minute survey for an incentive offer of \$15. At the end of the first module, respondents were offered the option to continue with the second module to receive another \$15 (for a total of \$30 for the survey). This group included 1,508 cases (49 percent of experimental cases).
2. Treatment Group 2: Sample members were asked to complete module 1 for an initial incentive offer of \$20, then offered the opportunity to continue with module 2 to receive another \$10 (for a total of \$30 for the survey). This group included 1,563 cases (51 percent of experimental cases).
3. Control Group: Sample members were asked to complete the 30-minute survey and were offered a \$30 incentive. This group included 1,465 cases.

Field test results indicated that the highest completion rates occurred with the control group (group 3), while the \$15 experimental group (group 1) experienced the

lowest overall response rate. The following section describes the 15 hypotheses pertaining to the module experiment and discusses the results of the experiments. Figure O-6 and tables 19 through 32 summarize the field test results.

Hypothesis 1: Response rates will not be different for the two treatment groups combined than for the control group.

Table O-19 provides overall response rates by module experiment group. Overall response rates did not significantly differ by module experiment group, with the control group responding at 62.5 percent compared to the module group at 61.1 percent ($\chi^2 (1, N = 4,497) = 0.92, p = 0.34$).

Table O-19. Response rates, by module experiment group

Response status	Module experiment		Total (%)
	Control group (%)	Module group (%)	
Respondent	62.5	61.1	61.6
Nonrespondent	37.5	38.9	38.4

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–2016 National Postsecondary Student Aid Study (NPSAS:16) Field Test.

Hypothesis 2: Response rates for the first module will not be different for the two treatment groups combined than for the control group.

Table O-20 provides response rates for the first module by module experiment group. Response rates for module 1 did not significantly differ by module experiment group, with the control group completing module 1 at 61.5 percent compared with the module group at 60.3 percent ($\chi^2 (1, N = 4,497) = 0.59, p = 0.44$).

Table O-20. Module 1 response rates, by module experiment group

Module 1 completion status	Module experiment		Total (%)
	Control group (%)	Module group (%)	
Module 1 complete	61.5	60.3	60.7
Module 1 not complete	38.5	39.7	39.3

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–2016 National Postsecondary Student Aid Study (NPSAS:16) Field Test.

Hypothesis 3: Response rates for the second module will not be different for the two treatment groups combined than for the control group.

Table O-21 provides response rates for the second module by module experiment group. For this analysis, module 2 response was characterized by a sumstat of 2690 - Final Complete. The control group had a significantly higher module 2 response rate at 59.5 percent compared to the module group at 53.1 percent ($X^2(1, N= 4,497) = 16.80, p < .001$).

Table O-21. Module 2 response rates, by module experiment group

Module 2 completion status	Module Experiment		Total (%)
	Control Group (%)	Module Group (%)	
Module 2 complete	59.5	53.1	55.3
Module 2 not complete	40.5	46.9	44.7

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–2016 National Postsecondary Student Aid Study (NPSAS:16) Field Test.

Hypothesis 4: Breakoff rates will not be different for the control group than for the two treatment groups combined.

Table O-22 provides breakoff rates by module experiment group, along with the chi-squared significance test. This analysis includes all cases that completed enough of the interview to be considered “completed” cases. In this analysis, there are no significant differences between the rate of breakoffs for the module group (31.6 percent) versus the control group (28.7 percent).

Table O-22. Breakoff rates and frequency, by module experiment group

Breakoff status	Module experiment					
	Control group		Module group		Total	
	Freq	%	Freq	%	Freq	%
Yes, broke off	278	28.7	569	31.6	847	30.6
Not a breakoff	690	71.3	1232	68.4	1922	69.4
Total	968	100	1801	100	2769	100

Pearson $\chi^2(1) = 2.4503$ Pr = 0.118

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–2016 National Postsecondary Student Aid Study (NPSAS:16) Field Test.

The same analysis was conducted only with respondents who completed a full interview.

Table O-23 shows that, for the final complete cases, the module group had significantly higher breakoff rates, at 32.9 percent, compared with the control group at 28.9 percent ($2(1, N = 2487) = 4.32, p < .05$).

Table O-23. Breakoff rates and frequency of final completes by module experiment group

Breakoff status	Module experiment					
	Control group		Module group		Total	
	Freq	%	Freq	%	Freq	%
Yes, broke off	266	28.9	515	32.9	781	31.4
Not a breakoff	655	71.1	1051	67.1	1706	68.6
Total	921	100	1566	100	2487	100

Pearson $\chi^2(1) = 4.3175$ Pr = 0.038

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–2016 National Postsecondary Student Aid Study (NPSAS:16) Field Test.

Hypothesis 5: Participation rates will not be different for the two treatment groups combined than for the control group.

Table O-24 provides participation rates by module experiment group. Participation rates did not significantly differ by module experiment group, with the control group participating at 62.9 percent compared with the module group at 61.4 percent ($\chi^2(1, N = 4,536) = 0.99, p = 0.32$).

Table O-24. Participation rates by module experiment group

Participation status	Module experiment		
	Control group (%)	Module group (%)	Total (%)
Participant	62.9	61.4	61.9
Nonparticipant	37.1	38.6	38.1

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–2016 National Postsecondary Student Aid Study (NPSAS:16) Field Test.

Hypothesis 6: Mean time to complete the first module will not be different for the two treatment groups combined than for the control group.

This hypothesis was tested using timing data from the NPSAS:16 field test. Only full interviews, completed in one session were included in the analysis. Table O-25 shows no significant difference between the module group (12.91 minutes) and the control group (12.51 minutes). Worth noting is that the difference between them, though insignificant, is right on the cusp of showing statistical significance (rounded p -value = .05). The real difference between the two groups is just 25 seconds.

Table O-25. Mean time (in minutes) to complete module 1, by module group

	Mean	SD	(p-value)	Min	Max	N
Control group	12.51	3.95		4.84	25.60	607
Module group	12.92	4.16		5.03	25.52	944
Significance (t)	-1.95		0.05			

NOTE: This analysis included only cases that completed the full interview in one session. Other partial interviews and outliers were excluded.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–2016 National Postsecondary Student Aid Study (NPSAS:16) Field Test.

Hypothesis 7: Mean time to complete will not be higher for the first module for the two treatment groups combined than for the second module for the two treatment groups combined.

The same exclusions were made to test this hypothesis as with the previous, only with an additional subset to module group respondents. Table O-26 shows there was a significant difference in the time it took respondents to complete Module 2 (15.36 minutes) than module 1 (12.91 minutes) ($t(943) = -17.40, p < .01$).

Table O-26. Mean time (minutes) module group respondents took to complete modules 1 and 2

	Mean	SD	(p-value)	Min	Max	N
Module 1 Section time	12.91	4.15		5.03	25.52	943
Module 2 Section time	15.36	4.89		5.75	30.82	943
Significance (t)	-17.40		0.00			

NOTE: This analysis included only module group respondents that completed the full interview in one session. Other partial interviews and outliers were excluded.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–2016 National Postsecondary Student Aid Study (NPSAS:16) Field Test.

Hypothesis 8: Percentage differences between estimates and benchmarks will not be different for the control group than for the two treatment groups combined.

No analyses were performed for this hypothesis.

Hypothesis 9: Percentage differences between estimates and benchmarks will not be higher for the second module of the two treatment groups combined than for the first module of the two treatment groups combined.

No analyses were performed for this hypothesis.

Hypothesis 10: Item missingness rates for the first module will not be different for the control group than for the two treatment groups combined.

To calculate missingness (nonresponse) rates from the interview, items were considered missing if respondents saw an item and did not answer it. Items that were edited in data processing were not considered (e.g., carry-through missing value). Only completed interviews were considered in the rate calculations. Overall, the analysis of module 1 items showed no significant differences in nonresponse between the control and module group. Further analysis at the item level, showed significant differences in nonresponse in just 3 of the 203 items in module 1. These are presented in Table O-27.

Two of the items (N16DEXPFLD and N16DLEISTIME) can both be found on the form N16DEDBENFTS, which asks respondents to consider the importance of nonmonetary benefits like leisure time and being seen as an expert in one's field versus salary.

Table O-27. Module 1 items with significant differences in nonresponse between control and module groups

Item	Control rate	Module rate	N	Chi2	p-value
N16DEXPFLD	0.87	0.26	2487	4.541	0.033
N16DLEISTIME	0.76	0.19	2487	4.680	0.031
N16FUSBORN	0.33	0	2487	5.107	0.024

Source: U.S. Department of Education, National Center for Education Statistics, 2016 National Postsecondary Student Aid Study (NPSAS:16) field test.

Hypothesis 11: Item missingness rates will not be higher for the second module of the two treatment groups combined than for the first module of the two treatment groups combined.

As with the previous analysis, item nonresponse rates were calculated for module 1 items. To make the comparison, module 2 item nonresponse rates were also calculated and the dataset was subset to respondents in the module treatment group. The results showed significant differences in item nonresponse rates between the two modules.

Module 2 had a significantly higher nonresponse rate overall, at 1.43 percent, than module 1 at .40 percent ($\chi^2(1, N = 267,219) = 736.66, p < .001$).

Hypothesis 12: Percentages of substantive responses to fictitious issues will not be different for the control group than for the two treatment groups combined.

Two fictitious loan items were added to the NPSAS:16 FT to assess survey fatigue and measurement error. These items asked respondents if they approved or disapproved of a fictitious loan program. One item was placed in module 1 and the other in module 2. Table O-28 shows the percentage of substantive responses (approve or disapprove) and nonsubstantive (Don't know) responses by experiment group. As is evident from the chi-square significance tests, there were no significant differences in terms of substantive responses between the module and control groups in either the module 1 or module 2 fictitious item.

Table O-28. Responses to fictitious loan items by module experiment group

Fictitious item	Module experiment		
	Control group (%)	Module group (%)	Total (%)
Module 1			
Substantive	11.6	11.2	11.3
Nonsubstantive	88.4	88.8	88.7
Total	100	100	100
Pearson chi2(1) = 0.1337 Pr = 0.715			
Module 2			
Substantive	8.5	9.1	8.9
Nonsubstantive	91.5	90.9	91.1
Total	100	100	100
Pearson chi2(1) = 0.2506 Pr = 0.617			
N	916	1,559	2,475

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–2016 National Postsecondary Student Aid Study (NPSAS:16) Field Test.

Hypothesis 13. Percentages of substantive responses to fictitious issues will not be higher for the second module of the two treatment groups combined than for the first module of the two treatment groups combined.

To perform this analysis, the dataset was subset to module group respondents, and the responses from both module 1 and module 2 fictitious items were compared for all completed interviews. The significance test presented in table O-29 suggest there was no statistical significance between the substantive responses provided in module 1 versus module 2.

Table O-29: Comparison of modules - responses to fictitious loan items

Response	Fictitious item		
	Module 1 (%)	Module 2 (%)	Total (%)
Substantive	11.2	9.1	10.1
Nonsubstantive	88.8	90.9	89.9
Total	100	100	100
Pearson $\chi^2(1) = 3.6060$ Pr = 0.058			
<i>N</i>	1,559	1,559	3,118

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–2016 National Postsecondary Student Aid Study (NPSAS:16) Field Test.

Hypothesis 14: Participation rates will not be different for treatment group 1 than for treatment group 2.

Table O-30 provides participation rates across module treatment groups 1 and 2. Participation rates did not significantly differ by module treatment group, with the treatment group 1 participating at 59.7 percent compared to the treatment group 2 at 63.1 percent ($\chi^2(1, N=2,973) = 3.75, p = .053$). Worth noting is that the difference between participation rates, though insignificant, is right on the cusp of showing statistical significance (rounded p -value = .05).

Table O-30. Participation rates by module treatment group

Participation status	Module experiment		
	Control group (%)	Module group (%)	Total (%)
Participant	59.7	63.1	61.4
Nonparticipant	40.3	36.9	38.6

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–2016 National Postsecondary Student Aid Study (NPSAS:16) Field Test.

Hypothesis 15: Response rates will not be different for treatment group 1 than for treatment group 2.

Table O-31 provides response rates across module treatment groups 1 and 2. Response rates did not significantly differ by module treatment group, with the treatment group 1 responding at 59.4 percent compared to the treatment group 2 at 62.8 percent ($\chi^2(1, N = 2,949) = 3.42, p = 0.06$).

Table O-31. Response rates by module treatment group

Response status	Module treatment groups		
	Group 1 (%)	Group 2 (%)	Total (%)
Respondent	59.4	62.8	61.1
Nonrespondent	40.6	37.2	38.9

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015–2016 National Postsecondary Student Aid Study (NPSAS:16) Field Test.

Table O-32. Student interview participation rates, by module experiment group and control and level of institution: 2014-15

Control and level of institution and student type	Total Participants			Module Experiment		
	Total Sample	Number	Unweighted percent	Sample	NPSAS Participants	Participation Rate
Total	4,540	2770	61.0%	2970	1800	60.6%
Control and level of institution						
Public less-than-2-year	30	20	66.7%	20	10	50.0%
Public 2-year	320	160	50.0%	210	120	57.1%
Public 4-year non-doctorate-granting	1,380	890	64.5%	910	570	62.6%
Public 4-year doctorate-granting	0	0	0.0%	0	0	0.0%
Private nonprofit less-than-4-year	150	60	40.0%	100	40	40.0%
Private nonprofit 4-year non-doctorate-granting	1,050	720	68.6%	690	470	68.1%
Private nonprofit 4-year doctorate-granting	920	600	65.2%	610	400	65.6%
Private for-profit less-than-2-year	180	80	44.4%	120	60	50.0%
Private for-profit 2-year	110	40	36.4%	70	30	42.9%
Private for-profit 4-year	370	200	54.1%	250	130	52.0%

Continued

Table O-32. Student interview participation rates, by module experiment group and control and level of institution: 2014-15—Continued

Control and level of institution and student type	Total Participants			Treatment Group - \$20/\$10			Treatment Group - \$15/15		
	Total Sample	Number	Unweighted percent	Sample	NPSAS Participants	Participation Rate	Sample	NPSAS Participants	Participation Rate
Total	4,540	2770	61.0%	1510	900	59.6%	1470	930	63.3%
Control and level of institution									
Public less-than-2-year	30	20	66.7%	10	10	100.0%	10	0	0.0%
Public 2-year	320	160	50.0%	110	60	54.5%	110	60	54.5%
Public 4-year non-doctorate-granting	1,380	890	64.5%	460	280	60.9%	450	290	64.4%
Public 4-year doctorate-granting	0	0	0.0%	0	0	0.0%	0	0	0.0%
Private nonprofit less-than-4-year	150	60	40.0%	50	20	40.0%	50	20	40.0%
Private nonprofit 4-year non-doctorate-granting	1,050	720	68.6%	350	230	65.7%	330	240	72.7%
Private nonprofit 4-year doctorate-granting	920	600	65.2%	310	200	64.5%	300	200	66.7%
Private for-profit less-than-2-year	180	80	44.4%	60	30	50.0%	60	30	50.0%
Private for-profit 2-year	110	40	36.4%	40	10	25.0%	40	10	25.0%
Private for-profit 4-year	370	200	54.1%	130	70	53.8%	120	70	58.3%

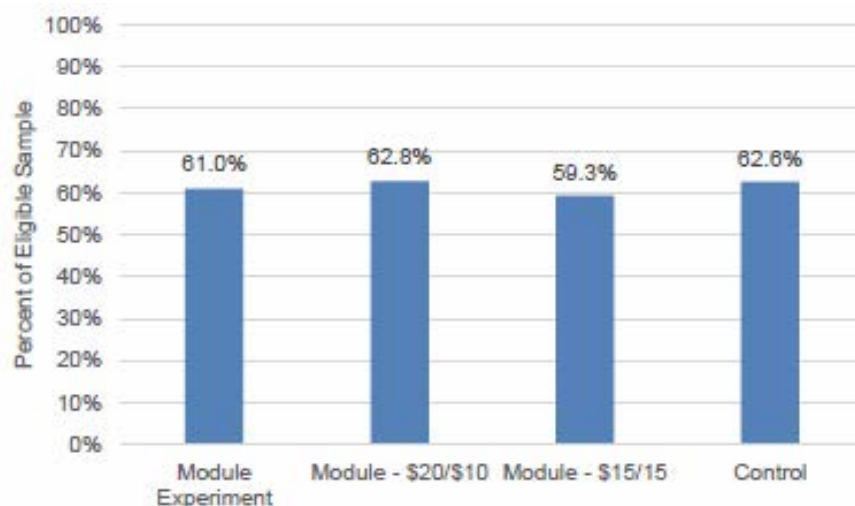
Continued

Table O-32. Student interview participation rates, by module experiment group and control and level of institution: 2014-15—Continued

Control and level of institution and student type	Total Participants			Control		
	Total Sample	Number	Unweighted percent	Sample	NPSAS Participants	Participation Rate
Total	4,540	2770	61.0%	1560	980	62.8%
Control and level of institution						
Public less-than-2-year	30	20	66.7%	10	10	100.0%
Public 2-year	320	160	50.0%	110	50	45.5%
Public 4-year non-doctorate-granting	1,380	890	64.5%	480	330	68.8%
Public 4-year doctorate-granting	0	0	0.0%	0	0	0.0%
Private nonprofit less-than-4-year	150	60	40.0%	50	20	40.0%
Private nonprofit 4-year non-doctorate-granting	1,050	720	68.6%	370	260	70.3%
Private nonprofit 4-year doctorate-granting	920	600	65.2%	310	200	64.5%
Private for-profit less-than-2-year	180	80	44.4%	60	30	50.0%
Private for-profit 2-year	110	40	36.4%	40	20	50.0%
Private for-profit 4-year	370	200	54.1%	130	70	53.8%

NOTE: Sample members included in the module experiment were offered either \$20 or \$15 to complete a 15-minute module in their initial survey invitation, and then asked to complete a second 15-minute module for \$10 or \$15, depending on their assigned group. Control group sample members were offered \$30 for a 30-minute interview. Details may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015-16 National Postsecondary Student Aid Study (NPSAS:16) Field Test.

Figure O-6. Student interview completion rates, by module experiment group: 2014-15

SOURCE: U.S. Department of Education, National Center for Education Statistics, 2015-16 National Postsecondary Student Aid Study (NPSAS:16) Field Test.

3.4.2 Assessing survey fatigue and measurement error

In order to assess the extent of survey fatigue and measurement error in the NPSAS:16 field-test student interview, several new items were added, including a set of fictitious loan items, in which interview respondents were asked to react to nonexistent student loans, and a set of items where question wording was reversed to gauge the attention of respondents.

Fictitious loans. Survey questions that ask respondents' opinions on fictitious issues are suggestive of the level at which respondents are engaged while answering survey items and can therefore help to serve as indicators of the level of measurement error in the survey (Bishop, Tuchfarber, and Oldendick, 1986). In the NPSAS:16 field-test student interview, two questions were created that referenced fictitious loans: the "AssistNow" loan program and the "SponsorMeNow" loan program (see figure O-7). These items asked respondents to report whether they approved, disapproved, or didn't know of these programs. One item was placed in module 1 and the other in module 2.

Figure O-7. NPSAS:16 field test fictitious loan items

Module 1

Do you approve or disapprove of the AssistNow loan program?

☐ Approve

☐ Disapprove

☐ Don't know

Module 2

Do you approve or disapprove of the SponsorMeNow loan program?

☐ Approve

☐ Disapprove

☐ Don't know

The “approve” and “disapprove” responses to these items were coded as “substantive,” and “don’t know” responses were coded as “nonsubstantive,” because these loans did not factually exist at the time of the survey creation. Across both items, approximately 90 percent of respondents selected the “don’t know” option. The module 1 item produced 88 percent nonsubstantive answers compared to the module 2 question at 91 percent ($\chi^2(2, N = 4,974) = 8.61, p < .05$). The high rate of nonsubstantive answers (i.e., don’t know) across both items suggests respondents provided thoughtful answers to the NPSAS:16 field-test survey items generally, regardless of the placement of the items near the beginning or even toward the end of the survey.

Reversed wording items. Creating parallel items with reversed question wording is another measure of survey fatigue and measurement error commonly used in psychometrics. In the NPSAS:16 field-test student interview, two parallel items asked respondents to report satisfaction with their studies at their NPSAS institution on a 5-point agreement scale (see figure O-8). The first item was worded in a positive way, “I’m satisfied with my studies at NPSAS.” The second item asked a parallel question with reversed wording, “I am unhappy with my studies at NPSAS.” The reversed wording technique postulates that respondents will be unlikely to report being satisfied and unhappy at the same time if they are paying attention to the question stem. Both of these items in the field test interview were located in the second module of the survey, with other items asked in between. See figure O-8.

Figure O-8. NPSAS:16 field test reversed wording items

Please use a number from 1 to 5 to respond to the following statement.

I was satisfied with my studies at Duke University.

- ☐ 1 (Completely disagree)
- ☐ 2 (Somewhat disagree)
- ☐ 3 (Neither disagree nor agree)
- ☐ 4 (Somewhat agree)
- ☐ 5 (Completely agree)

Please use a number from 1 to 5 to respond to the following statement.

Generally, I was unhappy with my studies at Duke University.

- ☐ 1 (Completely disagree)
- ☐ 2 (Somewhat disagree)
- ☐ 3 (Neither disagree nor agree)
- ☐ 4 (Somewhat agree)
- ☐ 5 (Completely agree)

The responses to the item with the “unhappy” question wording stem were recoded to reflect a positive scale, and item responses across both questions were then compared for agreement, with approximately 83 percent of respondents agreeing with themselves. This finding, coupled with those of the fictitious loan questions, suggests that respondents experienced minimal survey fatigue in the field-test student interview, also bolstering the assumption that the student interview collected reasonably precise and accurate data from respondents.

3.4.3 Item design experiments

Three item design experiments were administered in the NPSAS:16 field-test student interview, with a randomized 50 percent of respondents receiving a control item, and the other 50 percent of respondents receiving the experimental versions of the items. These experiments covered the following topics: AP/IB/college level course-taking in high school, parents’ highest level of education, and undergraduate study abroad experience.

AP, IB, and college-level coursetaking. In previous NPSAS student interviews, these items to assess the prevalence of AP, IB, and college-level coursetaking in high school were administered as a grid with all three course types on one screen, each

with corresponding yes/no response options. In the NPSAS:16 field-test student interview, the grid version of the item was the control item, while the experimental version was rendered as 3 separate sequential items asking about this coursetaking as individual questions (see figure O-9).

Figure O-9. NPSAS:16 field test AP, IB, and college-level coursetaking items

Control Item

Next, we have some questions regarding your education experiences.

While in high school, did you take any...

	Yes	No
Advanced Placement (AP) courses?	<input type="radio"/>	<input type="radio"/>
International Baccalaureate (IB) courses?	<input type="radio"/>	<input type="radio"/>
College-level courses, not including AP or IB, for which you earned college credit?	<input type="radio"/>	<input type="radio"/>

Experimental Version

Next, we have some questions regarding your education experiences.

While in high school, did you take any Advanced Placement (AP) courses?

☐ Yes

☐ No

While in high school, did you take any International Baccalaureate (IB) courses?

☐ Yes

☐ No

While in high school, did you take any college-level courses, not including AP or IB, for which you earned college credit?

☐ Yes

☐ No

NOTE: AP = Advanced Placement; IB = International Baccalaureate.

This formatting experiment resulted in no missingness for the items in the experimental version, compared with the control-group grid format that had item

level missingness ranging from 2 percent to 6 percent. Specific rates of missingness for the grid items were 2 percent on AP courses ($\chi^2(1, N = 2,210) = 17.41, p < .001$), 3 percent on college-level courses ($\chi^2(1, N = 2,210) = 31.96, p < .001$), and 6 percent on IB courses ($\chi^2(1, N = 2,210) = 62.69, p < .001$), all of which were significantly higher than the 0 percent missingness rate found for the experimental-group version of the items. The experimental version of the items ($M = 22.04$ seconds, $SD = 6.17$) took slightly longer to administer than the control-group grid-format version ($M = 18.14$ seconds, $SD = 7.24$) ($t(2,210) = 13.62, p < .01$).

Parents' highest level of education. In past rounds of the NPSAS survey, respondents' parents' highest level of education was collected by asking mother and father's highest level of education, each as a separate interview item. The question wording text for each item explicitly referenced *mother* and *father*, and the response options included the same list of 10 ordered levels of education. An experimental version of these items was designed for the NPSAS:16 field-test student interview. In order to be more consistent with the Free Application for Federal Student Aid (FAFSA), in the experimental version, respondents were first able to select who they chose to identify as Parent 1 and Parent 2 (e.g., mother, stepmother, other female guardian, etc.), rather than being asked to answer uniquely about the education level of their mother and father. In addition to this new gate question, a series of screens was created for the experimental version to narrow down the highest level of education of each parent, thereby minimizing the number of response options on any individual screen. The hypothesis of this nested series was that fewer options on a screen would help with the rendering of the items on smaller screens (e.g., handheld devices). The series began with the question, "Did your [PARENT 1] complete a college degree?" Then respondents were routed to the shorter lists of education levels based on their responses. The control and experimental items are shown in figure O-10.

Figure O-10. NPSAS:16 field test parents' highest level of education items**Control Item**

What is the highest level of education your **mother** completed?

- ☐ Did not complete high school
- ☐ High school diploma or equivalent
- ☐ Vocational/technical training
- ☐ Some college but no degree
- ☐ Associate's degree (usually a 2-year degree)
- ☐ Bachelor's degree (usually a 4-year degree)
- ☐ Master's degree or equivalent
- ☐ Professional degree (chiropractic, dentistry, law, medicine, optometry, pharmacy, podiatry, or veterinary medicine)
- ☐ Doctoral degree (PhD, EdD, etc.)
- ☐ Don't know

Experimental Version

Did your **mother** (Parent 1) complete a college degree?

- ☒ Yes
- ☐ No
- ☐ Don't know

What is the highest level of education your **mother** (Parent 1) completed?

- ☐ Undergraduate certificate or diploma (usually less than 2 years), including those leading to a certification or license (example: cosmetology)
- ☐ Associate's degree (usually a 2-year degree)
- ☐ Bachelor's degree (usually a 4-year degree)
- ☒ Graduate degree

Thanks. Was this degree a...

- ☐ Master's degree or equivalent
- ☐ Professional degree (chiropractic, dentistry, law, medicine, optometry, pharmacy, podiatry, or veterinary medicine)
- ☐ Doctoral degree (PhD, EdD, etc.)

Experimental Version: If no college degree completed...

What is the highest level of education your **mother** (Parent 1) completed?

- ☐ Did not complete high school
- ☐ High school diploma or equivalent
- ☐ Some college but no degree
- ☐ Undergraduate certificate or diploma (usually less than 2 years), including those leading to a certification or license (example: cosmetology)

Ninety-three percent of respondents who received the experimental version of the items self-selected “mother” and “father” as the guardians on which to report highest levels of education. When comparing responses for those who selected “mother” in the experimental version to the responses of those who received the control-group “mother” item, there were no significant differences in the levels of education selected. However, the levels of education reported in the experimental version for those who self-selected “father” as one of their parents were significantly different than the education levels reported for the control-group “father” item ($\chi^2(10, N = 2,410) = 42.15, p < .001$), with more respondents selecting “don’t know” in the control item. The experimental version took significantly longer to complete ($M = 40.63$ seconds, $SD = 11.24$) than the original items ($M = 18.42$ seconds, $SD = 6.32$) ($t(2,487) = -61.21, p < .001$).

Undergraduate study abroad experience. Due to recent interest from TRPs, study abroad items from the NPSAS:08 full-scale student interview were reintroduced into the NPSAS:16 field-test student interview. To determine the best way to collect this information, an experiment was designed in which control group respondents received a textbox entry item to report the last country in which they studied abroad, and the remaining respondents received an experimental version of the item that had a screen with two separate dropdown menus: one to select the last continent in which they studied abroad, and the other to select a country within that continent. The control and experimental items are shown in figure O-11.

Figure O-11. NPSAS:16 field test undergraduate study abroad experience items

During your undergraduate education, have you ever studied abroad?

☒ Yes

☐ No

Control Item

In which country did you last study abroad?

(enter country)

Experimental Version

1. On which continent did you last study abroad?

2. In which country did you last study abroad?

The field-test data revealed that some respondents did not provide an appropriate answer for the text box entry control group item. Approximately 10 percent of respondents receiving this version of the item provided multiple countries, cities, or unusable responses. For the experimental dropdown version of the item, 23 percent of respondents selected the “other” continent option or left the item missing. The textbox entry item took respondents significantly less time to complete ($M = 8.74$ seconds, $SD = 3.40$), at just under 10 seconds, compared to the dropdown item ($M = 16.10$ seconds, $SD = 10.49$), which took 16 seconds ($t(225) = 6.90, p < .001$).

3.5 Student Interview Conclusions

NPSAS:16 field-test student interviews were conducted from March through June of 2015. Of the 4,536 sample members, 2,769 (or 61 percent) successfully completed a full interview or were considered to be final partial interviews. The NPSAS:16 field-test study included a data collection experiment that utilized a monetary incentive structure based upon modules.

Successful locating methods included matches with locating data sources: the Department of Education’s CPS, the NSLDS, NCOA, LexisNexis Premium Address, Phone Append, and e-mail search, and other databases. Overall, about 8 percent of the NPSAS:16 field-test sample required intensive tracing.

Fifty-two percent (1,438 cases) of the surveys were completed in the early response phase, which began in March 2015 and lasted approximately 3 weeks, and 42 percent (1,049 cases) were completed in the production phase. Sixty-three percent of interview respondents, including final partials, completed by web (1,737 interviews), 12 percent of NPSAS respondents completed interviews by telephone (339 interviews), and 25 percent completed the interview on a mobile device (693 interviews). Of the 2,769 NPSAS respondents, 1,333 (or 48 percent) required telephone contact to encourage participation.

The field-test interview was divided into two modules of approximately 15 minutes in duration to determine if breaking the survey into two smaller tasks would increase sample members' likelihood of participation. Field-test results indicated that the highest completion rates occurred with the control group, sample members who were asked to complete the full 30-minute interview for \$30, while the \$15 experimental group experienced the lowest overall response rate.

The NPSAS:16 field-test student interview was based primarily on core data elements used in previous NPSAS interviews, with the addition of several new items such as amount borrowed in private loans for undergraduate and graduate education through the end of the NPSAS academic year, steps taken to prepare for a teaching certificate at the K–12 level, type of Asian origin, and type of mental or emotional condition or impairment. NPSAS:16 also serves as the base-year study for follow-up contacts with respondents receiving their bachelor's degree in the base year. These respondents are eligible for the B&B study cohort.

On average, the field-test interview took 34.3 minutes to complete. Overall, web interviews took the least amount of time to complete at 32.7 minutes. This time was significantly less than interviews completed on mobile devices, which took 34.1 minutes, and significantly less than telephone interviews, which took 42.3 minutes. The time required to complete the interview varied by the respondent's status as a graduate respondent (28.7 minutes), an undergraduate respondent (32.5 minutes), or a B&B-eligible respondent (37.4 minutes).

Several item experiments in the NPSAS:16 field test interview examined survey fatigue and measurement error, and results showed that respondents generally did not experience survey fatigue and remained engaged throughout the interview. In addition, several item formatting experiments revealed that collecting data in a specific way increased data quality by reducing item missingness and generally decreasing respondent burden. Data quality in the field test increased when respondents were asked individual questions instead of using a grid, were asked to select a parent to report that parent's highest level of education instead of

predetermining the parent for them, and were asked to report their last study abroad country using a textbox instead of a continent dropdown and a country dropdown.

Evaluation of the quality of the data provided by the NPSAS:16 field-test student interview also showed that overarching methodological features built into the instrument, such as the design of assisted coding systems, conversion text, and help text, all aided in the successful administration of the interview. Eighty-seven percent of the major codes and 96 percent of occupation codes selected by the respondent or interviewer matched the codes selected by expert coders. Seventy-two percent of the cases where conversion text was triggered in the interview were converted to a response. Help text was utilized by telephone interviewers most often for item wording clarification. In addition, an item-level nonresponse analysis yielded only 23 out of 441 interview items with more than 10 percent, but no more than 20 percent, of data missing.

Debriefing of interviewers at the end of data collection indicated that frequent monitoring of telephone interviewers, quality circle meetings, and ongoing training were all useful as data collection quality control procedures. Most telephone interviewers indicated that they had all the tools necessary to successfully administer the NPSAS:16 student interview and provided recommendations for future training topics, particularly focusing on gaining sample member cooperation to complete interviews.

In order to fully inform decisions for NPSAS:16 full-scale student interview design, the data collection results will be coupled with field-test interviewer feedback, TRP suggestions, and cognitive interview respondent opinions.

Section 4. Recommendations for the NPSAS:16 Full-Scale Study

The NPSAS:16 field test was conducted to test and evaluate study methods and results prior to implementation of the full-scale study. The following recommendations are based on the field test experience.

4.1 Full-Scale Sample

For institution sampling, a new stratum will be added by splitting the public 4-year non-doctorate-granting institutions into two sectors: public 4-year institutions that are primarily sub-baccalaureate and those that are primarily baccalaureate. The sub-baccalaureate institutions are mainly community colleges that offer a small number of bachelor's degrees in select fields (referred to as CCBA's). Over 40 percent of students in public 4-year non-doctorate-granting institutions are in primarily sub-baccalaureate institutions, and the students and funding for the CCBA's are more similar to those of 2-year than to other 4-year institutions. Splitting the public 4-year non-doctorate-granting institutions into two sectors (rather than sampling them together and providing an indicator on the data files) allows for oversampling and control of the sample size of the CCBA's and students in them, including the baccalaureate recipients.

It is critical that the full-scale study achieve a sufficient yield of baccalaureate recipients for the longitudinal follow-up studies. As noted in section 3, institutions can have difficulty identifying baccalaureate recipients, resulting in false identifications (e.g., false positives and false negatives). The sampling rates for the baccalaureate recipient strata within each institution stratum will be increased in the full-scale study, while the sampling rates for the other undergraduate strata within each institution stratum will be decreased to account for the false identifications. The modification to the sampling rates will be based on baccalaureate false positive and false negative rates from the field-test interview and NPSAS:08 interview, the most recent study that generated a B&B cohort. Sample yield will be monitored by institutional and student sampling strata, and the sampling rates will be adjusted early, if necessary, to achieve the desired sample yields.

Several student subgroups will be intentionally sampled at rates different than their natural occurrence within the population due to specific analytic objectives. Student strata will be added accordingly to account for different sampling rates for these groups of students. To identify and sample veterans, the student enrollment lists received will be matched with a list from the U.S. Department of Veterans Affairs (VA) of veterans receiving benefits.

The following groups will be oversampled:

- baccalaureate recipients who are veterans;
- baccalaureate recipients from STEM programs;
- baccalaureate recipients from teacher education programs;
- other undergraduate students who are veterans;
- graduate students who are veterans;
- first-time graduate students;
- master's degree students in STEM programs;
- doctoral-research/scholarship/other students in STEM programs;
- students and baccalaureate recipients in public 4-year non-doctorate-granting institutions that are primarily sub-baccalaureate;
- undergraduate students at all award levels enrolled in for-profit institutions; and
- master's degree students enrolled in for-profit institutions.

Similarly, the following groups will be undersampled:

- baccalaureate recipients from business programs;
- master's degree students in education and business programs; and
- doctoral-research/scholarship/other students in education and business programs.

Because of their sheer number, sampling these last three groups in proportion to the population would make it difficult to draw inferences about the experiences of other baccalaureates, master's degree, and doctoral students, respectively.

In order to help the poststratification to financial aid totals, the student lists will be matched to NSLDS data, and the financial aid data will be used for student implicit stratification.

4.2 Institution Data Collection

Based on feedback from institutions, institution contactors, and other project staff, we will make minor changes to the student enrollment list and student records procedures and systems. Given the successful response to collecting the new student enrollment list items in the field test, those items will be included in the full-scale study, but their wording and descriptions will be improved. Given the increasing popularity of providing student records data by upload (Excel was the mode most widely used in the field test), we will focus on improving the usability and functionality of the Excel template and upload page on the PDP.

Based on feedback from institutions, institution contactors, and other project staff, the following additional changes are under consideration for the full-scale study:

- NPSAS survey staff will include the new enrollment list items (e.g., GPA, number of credits accumulated) in the full-scale enrollment lists and will be clear and specific when defining these items. Institutions were able to provide these data for a sufficient percentage of students (refer to section 2.2.2).
- NPSAS survey staff will revise term collection in student records to include sessions that are shorter than one month, which will allow for the collection of enrollment data for short terms (e.g., “mini-mesters” or “Maymesters”).
- Given the large portion of institutions for which NPSAS survey staff expect to upload student records data (using Excel or CSV mode), staff will improve the user interface to help institution coordinators more easily identify and correct data problems.

4.3 Student Interview Data Collection

The full-scale study will continue to use previously proven tracing and locating methods. Sample members will continue to receive postcards, e-mails, and text messages to remind them that they have been selected for the study, to provide easy access to the web survey, and to encourage their participation.

Debriefing of interviewers at the end of data collection indicated that frequent monitoring of telephone interviewers, quality circle meetings, and ongoing training were all useful as data collection quality control procedures. Most telephone interviewers indicated that they had all the tools necessary to successfully administer the NPSAS:16 student interview and provided recommendations for future training topics, particularly focusing on gaining sample member cooperation to complete interviews. Based on this feedback, the full-scale training protocol will be adjusted to include

- additional practice on the CATI-CMS,
- additional review of FAQs,

- expanded training on conversational interviewing, and
- more detailed coverage of interviewer instructions.

Based on the results of the module experiment, the full-scale survey will not be offered in modules but rather as one inclusive 30-minute interview. The primary content of the student interview will remain the same as in the field test; however, only one version of each of the three student interview experiments (high school course-taking, parents' highest level of education; study abroad) will be considered for the full-scale interview based on the field test data quality results, combined with feedback from cognitive interviews and the Technical Review Panel. The reinterview showed high reliability of items in the field test, and no items are slated for removal for the full-scale based solely on this analysis, although for items with relatively lower reliability rates, some updates to question wording or help text will be considered. Timing in the field test revealed a need to carefully consider if any items will be candidates for removal or further efficiencies in the full-scale interview. Analysis of interview administration tools in the field test, such as help text and conversion text, showed the continued utility of employing these features in the full-scale study to improve data quality.

4.4 Administrative Records Matching Recommendations

Administrative records matching for the full-scale study will be similar to procedures conducted in the field test for the CPS and NSLDS. A match with the CPS database for FAFSA data will occur for both the 2015–16 and 2016–17 academic years. Each student in the sample will be sent to CPS twice for the 2015–16 application data (once as students are selected for data collection purposes and one final time for deliverable data purposes). Each student will be sent to CPS one time for the 2016–17 data to be used in final data files. Students will likely be matched with the NSLDS database for federal loan and Pell Grant data at three different times during data collection: two interim matches will be performed in order to have preliminary data with which to work, as well as a one last match for final data.

In addition to matching with CPS and NSLDS, the full-scale study will involve administrative record matches with these additional databases: NSC for enrollment and degree data, ACT (for test scores and related information), and the College Board (for SAT test scores and related information). The match with NSC will be performed once all students have been sampled and will only occur one time toward the end of data collection. The database matches with ACT and the College Board will occur in a similar timeframe and will also be performed only one time for all sampled students.

4.5 NPSAS:16 Field Test Student Records Instrument Facsimile

CRSUNIT

Units per course

Description: The number of units the NPSAS institution typically awards for a standard academic course (e.g. English 101).

How many units of credit does your institution typically award upon satisfactory completion of a standard academic course (e.g. English 101)?

1 = One unit

2 = Three units

3 = Other Amount

4 = Differs by program, course, class level, or for some other reason

5 = Institution is clock hour only

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

BTMBEG[01-12]

Term 1-12 start date

Description: Start date for terms 1-12. Users were asked to enter the names and dates for up to 12 terms occurring at their institution between July 1, 2014 and June 30, 2015 prior to providing student level data. Terms were then preloaded into the instrument and users were asked to indicate each sampled student's enrollment status (e.g., full-time, half-time) and number of credit hours enrolled during each of the terms provided. If no term information was provided or if the institution had continuous enrollment, users were asked to indicate each sampled student's enrollment status during each of the twelve months occurring between July 1, 2014 and June 30, 2015.

Enter the name, start date, and end date of each of the terms/enrollment periods (sometimes referred to as payment periods) occurring at your institution between July 1, 2014 and June 30, 2015. Please include: Summer sessions. Short sessions longer than one month. Terms for special types of students (e.g. medical students). If your institution offers continuous enrollment, rather than terms with explicit start and end dates, leave this section blank. NOTE: Terms may start prior to July 1, 2014 or end after June 30, 2015, but some portion of the term must occur between July 1, 2014 and June 30, 2015. Later, you will be asked to indicate each sampled student's enrollment status (e.g. full-time, half-time) during each of the terms you provide above. If you do not provide term information on this page, you will later be asked to

indicate each sampled student's enrollment status during each of the twelve months occurring between July 1, 2014 and June 30, 2015.

Notes: If the institution gave a valid year but left the month blank, the month value was set to 00.

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

BTMEND[01-12]

Term 1-12 end date

Description: End date for terms 1-12. See BTMBEG01 for description.

Enter the name, start date, and end date of each of the terms/enrollment periods (sometimes referred to as payment periods) occurring at your institution between July 1, 2014 and June 30, 2015. Please include: Summer sessions. Short sessions longer than one month. Terms for special types of students (e.g. medical students). If your institution offers continuous enrollment, rather than terms with explicit start and end dates, leave this section blank. NOTE: Terms may start prior to July 1, 2014 or end after June 30, 2015, but some portion of the term must occur between July 1, 2014 and June 30, 2015. Later, you will be asked to indicate each sampled student's enrollment status (e.g. full-time, half-time) during each of the terms you provide above. If you do not provide term information on this page, you will later be asked to indicate each sampled student's enrollment status during each of the twelve months occurring between July 1, 2014 and June 30, 2015.

Notes: If the institution gave a valid year but left the month blank, the month value was set to 00.

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

ASTHDOB

Student date of birth

Description: Student's date of birth.

DOB (MM/YYYY)

Notes: This item was prefilled if a date of birth for the student was provided on the enrollment list and users were able to edit/update the entry in student records. If the institution gave a valid year but left the month blank, the month value was set to 00.

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

ASGENDER*Gender*

Description: Student's gender.

Gender

Notes: This item was prefilled if a gender for the student was provided on the enrollment list and users were able to edit/update the entry in student records.

1 = Male

2 = Female

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

AMARITAL*Marital status*

Description: Student's marital status.

Marital Status

1 = Not married (single, widowed, divorced)

2 = Married

3 = Separated

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

ACITIZEN*Citizenship*

Description: Student's citizenship status.

Citizenship Status

1 = US citizen or US national

2 = Resident alien

3 = Foreign/International student or Non-resident alien

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

AVETERAN*Veteran status*

Description: Indicates whether the student is a veteran of U.S. Armed Forces.

Veteran of U.S. Armed Forces?

Notes: This item was prefilled if a veteran status for the student was provided on the enrollment list and users were able to edit/update the entry in student records.

0 = No

1 = Yes

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

AHIGHSCH*High school degree*

Description: Student's type of high school degree.

High School Degree

1 = High school diploma

2 = GED or other equivalency

3 = High school completion certificate

4 = Foreign high school

5 = Home schooled

6 = No high school degree or certificate

Applies To: Undergraduate students.

Source: NPSAS:16 Field Test Student Records

ASHIGHYR*Year of high school degree*

Description: The year in which the student earned a high school degree.

Year of High School Degree

Notes: This item was prefilled if a high school completion year for the student was provided on the enrollment list and users were able to edit/update the entry in student records.

Applies To: Undergraduate students who have received a high school diploma, GED or other certificate of high school completion.

Source: NPSAS:16 Field Test Student Records

ASHISPAN*Hispanic status/ethnicity*

Description: Indicates whether the student's ethnicity is Hispanic or Latino.

Ethnicity

0 = Not Hispanic or Latino

1 = Hispanic or Latino

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

ASTWHITE*Race - white*

Description: Indicates whether the student's race is White.

Race (select all that apply) - White

Notes: This variable was imputed to 0 (NO) if it was left blank and any other race variable was set to 1 (YES). If all race variables were set to 0 (NO) then all were changed to -9 for "Missing".

0 = No

1 = Yes

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

ASTBLACK*Race - African American or black*

Description: Indicates whether the student's race is Black or African-American.

Race (select all that apply) - Black or African-American

Notes: This variable was imputed to 0 (NO) if it was left blank and any other race variable was set to 1 (YES). If all race variables were set to 0 (NO) then all were changed to -9 for "Missing".

0 = No

1 = Yes

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

ASTASIAN*Race - Asian*

Description: Indicates whether the student's race is Asian.

Race (select all that apply) - Asian

Notes: This variable was imputed to 0 (NO) if it was left blank and any other race variable was set to 1 (YES). If all race variables were set to 0 (NO) then all were changed to -9 for "Missing".

0 = No

1 = Yes

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

ASINDIAN*Race - American Indian or Alaska Native*

Description: Indicates whether the student's race is American Indian or Alaska Native.

Race (select all that apply) - American Indian or Alaska Native

Notes: This variable was imputed to 0 (NO) if it was left blank and any other race variable was set to 1 (YES). If all race variables were set to 0 (NO) then all were changed to -9 for "Missing".

0 = No

1 = Yes

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

ASISLAND*Race - Hawaiian/other Pacific Islander*

Description: Indicates whether the student's race is Native Hawaiian or other Pacific Islander.

Race (select all that apply) - Native Hawaiian or other Pacific Islander

Notes: This variable was imputed to 0 (NO) if it was left blank and any other race variable was set to 1 (YES). If all race variables were set to 0 (NO) then all were changed to -9 for "Missing".

0 = No

1 = Yes

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

PERMSTAT*Students permanent address state*

Description: The state of the student's permanent address.

Permanent Address State

Notes: Standard 2-character state codes have been replaced with 2-digit numeric codes.

1 = Alabama

2 = Alaska

3 = Arizona

4 = Arkansas

5 = California

6 = Colorado

7 = Connecticut

8 = Delaware

9 = District of Columbia

10 = Florida

11 = Georgia

12 = Hawaii

13 = Idaho

14 = Illinois

15 = Indiana

16 = Iowa

17 = Kansas

18 = Kentucky

19 = Louisiana

20 = Maine

21 = Maryland

22 = Massachusetts

23 = Michigan

24 = Minnesota

25 = Mississippi

26 = Missouri

27 = Montana

28 = Nebraska

29 = Nevada

30 = New Hampshire

31 = New Jersey

32 = New Mexico

33 = New York

34 = North Carolina

35 = North Dakota

36 = Ohio

37 = Oklahoma

38 = Oregon

39 = Pennsylvania

40 = Rhode Island

41 = South Carolina

42 = South Dakota

43 = Tennessee

44 = Texas

45 = Utah

46 = Vermont

47 = Virginia

48 = Washington

49 = West Virginia

50 = Wisconsin

51 = Wyoming

- 52 = Puerto Rico
- 53 = Canada
- 54 = American Samoa
- 55 = Guam
- 56 = Federated States of Micronesia
- 57 = Marshall Islands
- 58 = Northern Mariana Islands
- 59 = Palau
- 60 = Virgin Islands

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

SCHSTRES

Student permanent resident of institution state

Description: Indicates whether the student is a permanent resident of institution state.

Is the student a permanent resident of [NPSAS INSTITUTION STATE]?

Notes: The state of the institution was automatically filled in the question.

0 = Not a permanent resident

1 = Yes, a permanent resident

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

BENLADEG

Type of degree program

Description: Type of degree program in which the student was enrolled at the NPSAS institution.

Program/Degree

1 = Enrolled in undergraduate courses, not in a degree program

2 = Undergraduate certificate or diploma (occupational or technical program)

3 = Associate's degree

4 = Bachelor's degree

5 = Enrolled in graduate courses, not in a degree program

6 = Post-baccalaureate certificate program

7 = Dual bachelor's/master's degree

8 = Master's degree program

9 = Post-master's certificate

10 = Doctoral degree - research/scholarship

11 = Doctoral degree - professional practice

12 = Doctoral degree - other

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

BENADTYP

Graduate degree type

Description: Type of Master's or Doctoral degree program in which the student was enrolled at the NPSAS institution.

Graduate Degree Type

1 = Master of Science (MS)

2 = Master of Arts (MA)

3 = Master of Education (Med) or Teaching

(MAT)

4 = Master of Business Administration (MBA)

5 = Master of Public Administration (MPA)

6 = Master of Social Work (MSW)

7 = Master of Fine Arts (MFA)

8 = Master of Public Health (MPH)

9 = Master of Divinity (MDiv)

10 = Other master's degree program not listed

11 = Doctor of Philosophy (PhD)

12 = Doctor of Education (EdD)

13 = Doctor of Science or Engineering

14 = Doctor of Psychology (PsyD)

15 = Doctor of Business or Public Admin

(DBA, DPA)

16 = Doctor of Fine Arts (DFA)

17 = Doctor of Theology (ThD)

18 = Law (JD, LLB)

19 = Medicine or Osteopathic Medicine (MD,

DO)

20 = Dentistry (DDS, DMD)

21 = Chiropractic (DC, DCM)

22 = Pharmacy (PharmD)

23 = Optometry (OD)

24 = Podiatry (DPM, DP, PodD)

25 = Veterinary medicine (DVM)

26 = Other doctoral degree not listed

Applies To: Students enrolled in a Master's or Doctoral degree program.

Source: NPSAS:16 Field Test Student Records

BENLALVL

Student class level

Description: A classification of students typically based on the number of credit (unit) hours the student has passed.

Class Level

1 = First-year/Freshman

2 = Sophomore

3 = Junior

4 = Senior

5 = 5th Year or Higher Undergraduate

6 = Undergraduate (unclassified)

7 = Student with bachelor's or advanced degree taking undergraduate courses

8 = 1st year Graduate

9 = 2nd year Graduate

10 = 3rd year Graduate

11 = Beyond 3rd year Graduate

12 = Graduate (unclassified)

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

EEXPDEG

Expect to complete degree requirements by 6/30/2015

Description: Indicates whether the student is expected to complete degree requirements by 6/30/2015.

Expected to Complete Degree Requirements by 6/30/15?

0 = Does not expect to complete by 6/30/2015

1 = Yes, expects to complete by 6/30/2015

Applies To: Students enrolled in a degree program.

Source: NPSAS:16 Field Test Student Records

BENNFGPA

Cumulative GPA

Description: Student's cumulative, unweighted GPA. Cumulative (Unweighted) GPA

Notes: This format differs among institutions. Schools may have differing GPA scales, 4.0 scale, 100 scale, or something else.

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

BECURMAJ1

Current major 1

Description: The student's primary major or field of study.

Primary Major

Notes: This item was prefilled if a major or field of study for the student was provided on the enrollment list and users were able to edit/update the entry in student records.

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

BECIPMAJ1

CIP code for major 1

Description: 2010 CIP Code for the student's primary major or field of study. CIP (Classification of Instructional Programs) codes are used by the National Center for Education Statistics (NCES) for major of field of study reporting, assessment, and tracking. See <http://nces.ed.gov/ipeds/cipcode/> for more information on the CIP.

Primary Major CIP Code

Notes: This item was prefilled if a CIP code for the student was provided on the enrollment list and users were able to edit/update the entry in student records. Students with undeclared majors were set to 999999.

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

BECURMAJ2

Current major 2

Description: The student's secondary major or field of study.

Secondary Major

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

BECIPMAJ2

CIP code for major 2

Description: 2010 CIP Code for the student's secondary major or field of study. CIP (Classification of Instructional Programs) codes are used by the National Center for Education Statistics (NCES) for major of field of study reporting, assessment, and tracking. See <http://nces.ed.gov/ipeds/cipcode/> for more information on the CIP.

Secondary Major CIP Code

Notes: Students with undeclared majors were set to 999999.

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

BEUNDECL

Major undeclared

Description: Indicates whether the student's major is undeclared.

Check here if the student's major was undeclared.

0 = No, major is not undeclared

1 = Yes, major is undeclared

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

BEERDTMY

Date First Enrolled at NPSAS

Description: Date student first enrolled at the NPSAS institution.

First Enrolled at this Institution (MM/YYYY)

Notes: This format differs among institutions. Schools may have differing GPA scales, 4.0 scale, 100 scale, or something else.

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

BEFSTTM

First-time beginning student

Description: Indicates whether the student is a first-time beginning student. A first-time beginning student is defined as an undergraduate student who enrolled in college for the first time at the NPSAS institution between July 1, 2014 and April 30, 2015, and has not

completed a postsecondary class at this or any other postsecondary institutions prior to July 1, 2014; and did not transfer credits into this institution, other than advanced placement (AP) credits, international baccalaureate (IB) credits, or any other postsecondary credit earned prior to high school completion. Please note that this definition differs from the first-time full-time designation reported to IPEDS.

First-time Beginning Student?

0 = No, not a first time beginning student

1 = Yes, first time beginning student

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

BERECVBA

Received baccalaureate degree

Description: Indicates whether the student has received baccalaureate degree.

Ever Received Baccalaureate Degree?

0 = No, has not received baccalaureate degree

1 = Yes, has received baccalaureate degree

Applies To: Graduate students.

Source: NPSAS:16 Field Test Student Records

BEBADATE

Date obtained baccalaureate degree

Description: Date student obtained a baccalaureate degree.

Date Received (MM/YYYY)

Notes: If the institution gave a valid year but left the month blank, the month value was set to 00.

Applies To: Graduate students who have received a baccalaureate degree.

Source: NPSAS:16 Field Test Student Records

BREMEVER

Ever taken remedial course

Description: Indicates whether the student has ever taken any remedial or developmental courses.

Since completing high school, has the student taken any remedial or developmental courses to improve their basic skills in math, reading, or other subjects?

0 = No, has not ever taken remedial course

1 = Yes, has taken remedial course

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

BECLKHRS

Total clock hours in program

Description: Total number of clock hours required for program completion.

Number of Required Clock Hours For Program

Notes: Hours of 0 were set to -9

Applies To: Students enrolled in institutions that use clock hours.

Source: NPSAS:16 Field Test Student Records

BTTUITOT

Tuition total for all terms

Description: Total tuition and mandatory fees charged for the period(s) in which the student was enrolled between July 1, 2014 and June 30, 2015, prior to any discounts or waivers. This item refers to the specific amount charged for the student (typically obtained from the business or bursar's office), not the budgeted tuition amount or the average tuition amount charged for students.

Total Tuition and Mandatory Fees CHARGED

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

BTUNJURI

Tuition jurisdiction classification

Description: A classification of the student's residency for tuition purposes. An in-district student is a student who is a legal resident of the locality in which he/she attends school and thus is entitled to reduced tuition charges if offered by the institution. An in-state student is a student who is a legal resident of the state in which he/she attends school. An out-of-state student is a student who is not a legal resident of the state in which he/she attends school.

Residency for Tuition Purposes

Notes: Private institutions were coded as 0.

1 = In-district

2 = In-state

3 = Out-of-state

4 = No differential tuition based on residency

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

BTMST[01-12]

Attendance status terms 1-12

Description: Enrollment status for term 1. See BTMBEG01 for description.

Term 1 Enrollment Status

0 = Not enrolled

1 = Full-time

2 = 3/4-time

3 = Half-time

4 = Less Than Half-time

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

BTMHR[01-12]

Hours enrolled terms 1-12

Description: Number of credit units enrolled for term 1. See BTMBEG01 for description.

Term 1 Credit Units

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CNPERIOD

Budget period

Description: The period and enrollment intensity for which the student budget amounts provided in student records apply.

Budget Period

- 1 = Full-time, full-year
- 2 = Full-time, one term
- 3 = 3/4-time, full-year
- 4 = 3/4-time, one term
- 5 = Half-time, full-year
- 6 = Half-time, one term
- 7 = Less than half-time, full-year
- 8 = Less than half-time, one term
- 9 = Other

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CNLCLRES

Local residence

Description: Student's local residence for the purposes of determining the student's financial aid budget.

Budget - Student Residence

- 1 = On-campus or school-owned housing
- 2 = Off-campus without parents
- 3 = Off-campus with parents

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CTUITION

Budget amount for tuition/fees

Description: Amount budgeted for tuition and fees for financial aid awarding purposes.

Budget - Tuition/Fees (\$)

Notes: Tuition budget amounts of 0 were set to -9.

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CNEBOOKS

Budget amount for books/supplies

Description: Amount budgeted for books and supplies for financial aid awarding purposes.

Budget - Books/Supplies (\$)

Notes: If the budget amount for tuition was -9, the budget amount for books was set to -9. If the budget amount for tuition was greater than 0 and the budget amount for books was -9, the budget amount for books was set to 0.

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CNESROOM

Budget amount for room and board

Description: Amount budgeted for room and board for financial aid awarding purposes.

Budget - Room and Board (\$)

Notes: If the budget amount for tuition was -9, the budget amount for room and board was set to -9. If the budget amount for tuition was greater than 0 and the budget amount for room and board was -9, the budget amount for room and board was set to 0.

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CNEHLTH

Budget amount for health insurance

Description: Amount budgeted for health insurance for financial aid awarding purposes.

Budget - Health Insurance (\$)

Notes: If the budget amount for tuition was -9, the budget amount for health insurance was set to -9. If the budget amount for tuition was greater than 0 and the budget amount for health insurance was -9, the budget amount for health insurance was set to 0.

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CNETRANS

Budget amount for transportation

Description: Amount budgeted for transportation for financial aid awarding purposes.

Budget - Transportation (\$)

Notes: If the budget amount for tuition was -9, the budget amount for transportation was set to -9. If the budget amount for tuition was greater than 0 and the budget amount for transportation was -9, the budget amount for transportation was set to 0.

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CNESCOMP

Budget amount for computer technology

Description: Amount budgeted for computer technology for financial aid awarding purposes.

Budget - Computer/Technology (\$)

Notes: If the budget amount for tuition was -9, the budget amount for computer technology was set to -9. If the budget amount for tuition was greater than 0 and the budget amount for computer technology was -9, the budget amount for computer technology was set to 0.

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CNEOTHER

Budget amount for all other expenses

Description: Amount budgeted for all other expenses for financial aid awarding purposes.

Budget - All Other (\$)

Notes: If the budget amount for tuition was -9, the budget amount for all other expenses was set to -9. If the budget amount for tuition was greater than 0 and the budget amount for all other expenses was -9, the budget amount for all other expenses was set to 0.

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CFAWARN

Placed on financial aid warning

Description: Indicates whether the student was placed on financial aid warning at any time during the 2014-2015 academic year due to the institution's Satisfactory Academic Progress policy. Financial aid warning refers to a status an institution assigns to a student who is failing to make satisfactory academic progress.

Due to your institution's Satisfactory Academic Progress policy, at any time during the 2014-2015 academic year, was the student: Placed on Financial Aid Warning?

0 = No, not placed on financial aid warning

1 = Yes, placed on financial aid warning

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CFAPROB

Placed on financial aid probation

Description: Indicates whether the student was placed on financial aid probation at any time during the 2014-2015 academic year due to the institution's Satisfactory Academic Progress policy. Financial aid probation refers to a status an institution assigns to a student who is failing to make satisfactory academic progress and who successfully appeals.

Due to your institution's Satisfactory Academic Progress policy, at any time during the 2014-2015 academic year, was the student: Placed on Financial Aid Probation?

0 = No, not placed on financial aid probation

1 = Yes, placed on financial aid probation

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CFAINELG

Ineligible to receive Title IV financial aid

Description: Indicates whether the student was ineligible to receive Title IV financial aid at any time during the

2014-2015 academic year due to the institution's Satisfactory Academic Progress policy.

Due to your institution's Satisfactory Academic Progress policy, at any time during the 2014-2015 academic year, was the student: Ineligible to Receive Title IV Financial Aid?

0 = No, not ineligible to receive Title IV financial aid

1 = Yes, ineligible to receive Title IV financial aid

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CFAFEDAID

Received any federal aid

Description: Indicates whether the student received any federal aid for the July 1, 2014 - June 30, 2015 financial aid year.

Student had federal aid for the July 1, 2014 - June 30, 2015 financial aid year?

0 = No, did not receive federal aid

1 = Yes, received federal aid

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CFADPELL

Pell grant

Description: Pell grant amount awarded for the July 1, 2014 - June 30, 2015 financial aid year.

Enter the amounts awarded for each federal aid program.

Enter 0 for any program in which the student did not receive aid. Pell Grant (\$)

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CFASSTAF

Direct Subsidized (Stafford) loan

Description: Subsidized Stafford/Direct loan amount awarded for the July 1, 2014 - June 30, 2015 financial aid year.

Enter the amounts awarded for each federal aid program.

Enter 0 for any program in which the student did not receive aid. Subsidized Stafford/Direct Loan (\$)

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CFAUSTAF

Direct Unsubsidized (Stafford) loan

Description: Unsubsidized Stafford loan amount awarded for the July 1, 2014 - June 30, 2015 financial aid year.

Enter the amounts awarded for each federal aid program.

Enter 0 for any program in which the student did not receive aid. Unsubsidized Stafford/Direct Loan (\$)

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CFADPLUS

Parent PLUS loan

Description: Parent PLUS loan amount awarded for the July 1, 2014 - June 30, 2015 financial aid year.

Enter the amounts awarded for each federal aid program.

Enter 0 for any program in which the student did not receive aid. Parent PLUS Loan (\$)

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CFAGPLUS

Graduate PLUS loan

Description: Graduate PLUS loan amount awarded for the July 1, 2014 - June 30, 2015 financial aid year.

Enter the amounts awarded for each federal aid program.

Enter 0 for any program in which the student did not receive aid. Graduate PLUS Loan (\$)

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CFATEACH

Federal TEACH grant

Description: Federal TEACH grant amount awarded for the July 1, 2014 - June 30, 2015 financial aid year.

Enter the amounts awarded for each federal aid program.

Enter 0 for any program in which the student did not receive aid. Federal TEACH Grant (\$)

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CPERKINS

Perkins loan

Description: Perkins loan amount awarded for the July 1, 2014 - June 30, 2015 financial aid year.

Enter the amounts awarded for each federal aid program.

Enter 0 for any program in which the student did not receive aid. Perkins Loan (\$)

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CFAFSEOG

Federal SEOG grant

Description: Federal SEOG grant amount awarded for the July 1, 2014 - June 30, 2015 financial aid year.

Enter the amounts awarded for each federal aid program.

Enter 0 for any program in which the student did not receive aid. Federal SEOG Grant (\$)

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CFATDFWS

Federal work-study

Description: Federal work-study amount awarded for the July 1, 2014 - June 30, 2015 financial aid year. Federal Work-Study awarded refers to the maximum amount the student could earn through the Work-Study Program over the course of the academic year.

Enter the amounts awarded for each federal aid program.

Enter 0 for any program in which the student did not receive aid. Federal Work-Study AWARDED (\$)

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CFATDVET

Veteran benefits

Description: Veteran benefits amount awarded for the July 1, 2014 - June 30, 2015 financial aid year.

Enter the amounts awarded for each federal aid program.

Enter 0 for any program in which the student did not receive aid. Veterans Benefits (\$)

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CFAIRAQ

Iraq & Afghanistan service grant

Description: Iraq & Afghanistan service grant amount awarded for the July 1, 2014 - June 30, 2015 financial aid year.

Enter the amounts awarded for each federal aid program.

Enter 0 for any program in which the student did not receive aid. Iraq & Afghanistan Service Grant (\$)

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CFHLTHPR

Federal health professions loan

Description: Federal health professions loan amount awarded for the July 1, 2014 - June 30, 2015 financial aid year.

Enter the amounts awarded for each federal aid program.

Enter 0 for any program in which the student did not receive aid. Federal Health Professions Loan (\$)

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CFADISAD

Federal health professions disadvantaged loan

Description: Federal health professions disadvantaged loan amount awarded for the July 1, 2014 - June 30, 2015 financial aid year.

Enter the amounts awarded for each federal aid program.

Enter 0 for any program in which the student did not

receive aid. Federal Health Professions Disadvantaged Loan (\$)

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CFASTATAID

Received any state aid

Description: Indicates whether the student received any state aid for the July 1, 2014 - June 30, 2015 financial aid year.

Student had state aid for the July 1, 2014 - June 30, 2015 financial aid year?

0 = No, did not receive state aid

1 = Yes, received state aid

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CF01STATE

State aid program 1 name

Description: The name of the state aid program for state aid program 1.

State Aid Program 1 Name

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CF01STTYP

State aid program 1 type

Description: A classification of the type of state aid awarded for state aid program 1.

State Aid Program 1 Type

1 = Grants/scholarship, need-based

2 = Grants/scholarship, merit-based

3 = Grants/scholarship, both need and merit

4 = Grants/scholarship, neither need nor merit

5 = Tuition waiver

6 = Loan

7 = Work-study or assistantship

8 = Athletic scholarship

9 = Other

Applies To: Students who received state aid program 1.

Source: NPSAS:16 Field Test Student Records

C01STAMT

State aid program 1 amount

Description: State aid program 1 amount awarded for the July 1, 2014 - June 30, 2015 financial aid year.

State Aid Program 1 Amount (\$)

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CF02STATE

State aid program 2 name

Description: The name of the state aid program for state aid program 2.

State Aid Program 2 Name

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CF02STTYP

State aid program 2 type

Description: A classification of the type of state aid awarded for state aid program 2.

State Aid Program 2 Type

1 = Grants/scholarship, need-based

2 = Grants/scholarship, merit-based

3 = Grants/scholarship, both need and merit

4 = Grants/scholarship, neither need nor merit

5 = Tuition waiver

6 = Loan

7 = Work-study or assistantship

8 = Athletic scholarship

9 = Other

Applies To: Students who received state aid program 2.

Source: NPSAS:16 Field Test Student Records

C02STAMT

State aid program 2 amount

Description: State aid program 2 amount awarded for the July 1, 2014 - June 30, 2015 financial aid year.

State Aid Program 2 Amount (\$)

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CF03STATE

State aid program 3 name

Description: The name of the state aid program for state aid program 3.

State Aid Program 3 Name

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CF03STTYP

State aid program 3 type

Description: A classification of the type of state aid awarded for state aid program 3.

State Aid Program 3 Type

1 = Grants/scholarship, need-based

2 = Grants/scholarship, merit-based

3 = Grants/scholarship, both need and merit

4 = Grants/scholarship, neither need nor merit

5 = Tuition waiver

6 = Loan

7 = Work-study or assistantship

8 = Athletic scholarship

9 = Other

Applies To: Students who received state aid program 3.

Source: NPSAS:16 Field Test Student Records

C03STAMT

State aid program 3 amount

Description: State aid program 3 amount awarded for the July 1, 2014 - June 30, 2015 financial aid year.

State Aid Program 3 Amount (\$)

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CFAINSTAID

Received any institution aid

Description: Indicates whether the student received any institution aid for the July 1, 2014 - June 30, 2015 financial aid year.

Student had institution aid for the July 1, 2014 - June 30, 2015 financial aid year?

0 = No, did not receive institution aid

1 = Yes, received institution aid

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CFAITYP01

Institution aid program 1 type

Description: A classification of the type of institution aid awarded for institution aid program 1.

Institution Aid Program 1 Type

1 = Grants/scholarship, need-based

2 = Grants/scholarship, merit-based

3 = Grants/scholarship, both need and merit

4 = Grants/scholarship, neither need nor merit

5 = Tuition waiver

6 = Loan

7 = Work-study or assistantship

8 = Athletic scholarship

9 = Other

Applies To: Students who received institution aid program 1.

Source: NPSAS:16 Field Test Student Records

CFAIAMT01

Institution aid program 1 amount

Description: Institution aid program 1 amount awarded for the July 1, 2014 - June 30, 2015 financial aid year.

Institution Aid Program 1 Amount (\$)

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CFAITYP02

Institution aid program 2 type

Description: A classification of the type of institution aid awarded for institution aid program 2.

Institution Aid Program 2 Type

1 = Grants/scholarship, need-based

2 = Grants/scholarship, merit-based

3 = Grants/scholarship, both need and merit

4 = Grants/scholarship, neither need nor merit

5 = Tuition waiver

6 = Loan

7 = Work-study or assistantship

8 = Athletic scholarship

9 = Other

Applies To: Students who received institution aid program 2.

Source: NPSAS:16 Field Test Student Records

CFAIAMT02

Institution aid program 2 amount

Description: Institution aid program 2 amount awarded for the July 1, 2014 - June 30, 2015 financial aid year.

Institution Aid Program 2 Amount (\$)

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CFAITYP03

Institution aid program 3 type

Description: A classification of the type of institution aid awarded for institution aid program 3.

Institution Aid Program 3 Type

1 = Grants/scholarship, need-based

2 = Grants/scholarship, merit-based

3 = Grants/scholarship, both need and merit

4 = Grants/scholarship, neither need nor merit

5 = Tuition waiver

6 = Loan

7 = Work-study or assistantship

8 = Athletic scholarship

9 = Other

Applies To: Students who received institution aid program 3.

Source: NPSAS:16 Field Test Student Records

CFAIAMT03

Institution aid program 3 amount

Description: Institution aid program 2 amount awarded for the July 1, 2014 - June 30, 2015 financial aid year.

Institution Aid Program 3 Amount (\$)

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CFAGRAID*Received any graduate aid*

Description: Indicates whether the student received any graduate aid for the July 1, 2014 - June 30, 2015 financial aid year.

Student had graduate aid for the July 1, 2014 - June 30, 2015 financial aid year?

0 = No, did not receive graduate aid

1 = Yes, received graduate aid

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CFAGRTP01*Graduate aid program 1 type*

Description: A classification of the type of graduate aid awarded for graduate aid program 1.

Graduate Aid Program 1 Type

1 = Fellowship/scholarship

2 = Institutional loan

3 = Federal fellowship

4 = Federal traineeship

5 = Teaching assistantship/stipend

6 = Research assistantship/stipend

7 = Other assistantship/stipend

8 = Student tuition waivers

9 = Faculty/staff tuition waivers

10 = Institutional work study

Applies To: Students who received graduate aid program 1.

Source: NPSAS:16 Field Test Student Records

CFAGRAMT01*Graduate aid program 1 amount*

Description: Graduate aid program 1 amount awarded for the July 1, 2014 - June 30, 2015 financial aid year.

Graduate Aid Program 1 Amount (\$)

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CFAGRTP02*Graduate aid program 2 type*

Description: A classification of the type of graduate aid awarded for graduate aid program 2.

Graduate Aid Program 2 Type

1 = Fellowship/scholarship

2 = Institutional loan

3 = Federal fellowship

4 = Federal traineeship

5 = Teaching assistantship/stipend

6 = Research assistantship/stipend

7 = Other assistantship/stipend

8 = Student tuition waivers

9 = Faculty/staff tuition waivers

10 = Institutional work study

Applies To: Students who received graduate aid program 2.

Source: NPSAS:16 Field Test Student Records

CFAGRAMT02*Graduate aid program 2 amount*

Description: Graduate aid program 2 amount awarded for the July 1, 2014 - June 30, 2015 financial aid year.

Graduate Aid Program 2 Amount (\$)

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CFAGRTP03*Graduate aid program 3 type*

Description: A classification of the type of graduate aid awarded for graduate aid program 3.

Graduate Aid Program 3 Type

1 = Fellowship/scholarship

2 = Institutional loan

3 = Federal fellowship

4 = Federal traineeship

5 = Teaching assistantship/stipend

6 = Research assistantship/stipend

7 = Other assistantship/stipend

8 = Student tuition waivers

9 = Faculty/staff tuition waivers

10 = Institutional work study

Applies To: Students who received graduate aid program 3.

Source: NPSAS:16 Field Test Student Records

CFAGRAMT03*Graduate aid program 3 amount*

Description: Graduate aid program 3 amount awarded for the July 1, 2014 - June 30, 2015 financial aid year.

Graduate Aid Program 3 Amount (\$)

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CFAOTHGOV*Received any private or other government aid*

Description: Indicates whether the student received any private aid or other government aid for the July 1, 2014 - June 30, 2015 financial aid year.

Student had private aid or other government aid for the July 1, 2014 - June 30, 2015 financial aid year?

0 = No, did not receive private or other government aid

1 = Yes, received private or other government aid

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CFA1GOVTYP

Private aid program 1 type

Description: A classification of the type of private aid or other government aid awarded for private aid or other government aid program 1.

Private Aid or Other Government Aid Program 1 Type

- 1 = Private loans
- 2 = Scholarships/Grants from Private

Organizations

- 3 = Employer Paid Tuition
- 4 = ROTC/Armed Forces Grants
- 5 = WIA/Job training/Vocational

Rehabilitation

- 6 = Bureau of Indian Affairs Grants
- 7 = Scholarships/Grants from Outside State

Agency

- 8 = DC Tuition Assistance grant

Applies To: Students who received private or other government aid program 1.

Source: NPSAS:16 Field Test Student Records

CFA1GOVAMT

Private aid program 1 amount

Description: Private aid program 1 amount awarded for the July 1, 2014 - June 30, 2015 financial aid year.

Private Aid or Other Government Aid Program 1 Amount (\$)

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CFA2GOVTYP

Private aid program 2 type

Description: A classification of the type of private aid or other government aid awarded for private aid or other government aid program 2.

Private Aid or Other Government Aid Program 2 Type

- 1 = Private loans
- 2 = Scholarships/Grants from Private

Organizations

- 3 = Employer Paid Tuition
- 4 = ROTC/Armed Forces Grants
- 5 = WIA/Job training/Vocational

Rehabilitation

- 6 = Bureau of Indian Affairs Grants
- 7 = Scholarships/Grants from Outside State

Agency

- 8 = DC Tuition Assistance grant

Applies To: Students who received private or other government aid program 2.

Source: NPSAS:16 Field Test Student Records

CFA2GOVAMT

Private aid program 2 amount

Description: Private aid program 2 amount awarded for the July 1, 2014 - June 30, 2015 financial aid year.

Private Aid or Other Government Aid Program 2 Amount (\$)

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CFA3GOVTYP

Private aid program 3 type

Description: A classification of the type of private aid or other government aid awarded for private aid or other government aid program 3.

Survey Question: Private Aid or Other Government Aid Program 3 Type

- 1 = Private loans
- 2 = Scholarships/Grants from Private

Organizations

- 3 = Employer Paid Tuition
- 4 = ROTC/Armed Forces Grants
- 5 = WIA/Job training/Vocational

Rehabilitation

- 6 = Bureau of Indian Affairs Grants
- 7 = Scholarships/Grants from Outside State

Agency

- 8 = DC Tuition Assistance grant

Applies To: Students who received private or other government aid program 3.

Source: NPSAS:16 Field Test Student Records

CFA3GOVAMT

Private aid program 3 amount

Description: Private aid program 3 amount awarded for the July 1, 2014 - June 30, 2015 financial aid year.

Private Aid or Other Government Aid Program 3 Amount (\$)

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CFAOTH AID

Received any other aid

Description: Indicates whether the student received any other aid (aid other than the federal, state, institution, graduate, private or other government aid previously listed) for the July 1, 2014 - June 30, 2015 financial aid year.

Student had other aid for the July 1, 2014 - June 30, 2015 financial aid year?

- 0 = No, did not receive other aid
- 1 = Yes, received other aid

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CFA10THNAM*Other aid 1 name*

Description: The name of the other aid program for other aid program 1.

Other Aid Program 1 Name

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CFA10THTYP*Other aid 1 type*

Description: A classification of the type of other aid awarded for other aid program 1.

Other Aid Program 1 Type

- 1 = Grants/scholarship, need-based
- 2 = Grants/scholarship, merit-based
- 3 = Grants/scholarship, both need and merit
- 4 = Grants/scholarship, neither need nor merit
- 5 = Tuition waiver
- 6 = Loan
- 7 = Work-study or assistantship
- 8 = Athletic scholarship
- 9 = Other

Applies To: Students who received other aid program 1.

Source: NPSAS:16 Field Test Student Records

CFA10THSRC*Other aid 1 source*

Description: Indicates the source of the other aid awarded for other aid program 1.

Other Aid Program 1 Source

- 1 = Institution
- 2 = State
- 3 = Federal
- 4 = Other

Applies To: Students who received other aid program 1.

Source: NPSAS:16 Field Test Student Records

CFA10THAMT*Other aid 1 amount*

Description: Other aid 1 amount awarded for the July 1, 2014 - June 30, 2015 financial aid year.

Other Aid Program 1 Amount (\$)

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CFA20THNAM*Other aid 2 name*

Description: The name of the other aid program for other aid program 2.

Other Aid Program 2 Name

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CFA20THTYP*Other aid 2 type*

Description: A classification of the type of other aid awarded for other aid program 2.

Other Aid Program 2 Type

- 1 = Grants/scholarship, need-based
- 2 = Grants/scholarship, merit-based
- 3 = Grants/scholarship, both need and merit
- 4 = Grants/scholarship, neither need nor merit
- 5 = Tuition waiver
- 6 = Loan
- 7 = Work-study or assistantship
- 8 = Athletic scholarship
- 9 = Other

Applies To: Students who received other aid program 2.

Source: NPSAS:16 Field Test Student Records

CFA20THSRC*Other aid 2 source*

Description: Indicates the source of the other aid awarded for other aid program 2.

Other Aid Program 2 Source

- 1 = Institution
- 2 = State
- 3 = Federal
- 4 = Other

Applies To: Students who received other aid program 2.

Source: NPSAS:16 Field Test Student Records

CFA20THAMT*Other aid 2 amount*

Description: Other aid 2 amount awarded for the July 1, 2014 - June 30, 2015 financial aid year.

Other Aid Program 2 Amount (\$)

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CFA30THNAM*Other aid 3 name*

Description: The name of the other aid program for other aid program 3.

Other Aid Program 3 Name

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

CFA30THTYP*Other aid 3 type*

Description: A classification of the type of other aid awarded for other aid program 3.

Other Aid Program 3 Type

- 1 = Grants/scholarship, need-based
- 2 = Grants/scholarship, merit-based

3 = Grants/scholarship, both need and merit
4 = Grants/scholarship, neither need nor merit
5 = Tuition waiver
6 = Loan
7 = Work-study or assistantship
8 = Athletic scholarship
9 = Other

Applies To: Students who received other aid program 3.
Source: NPSAS:16 Field Test Student Records

CFA30THSRC

Other aid 3 source

Description: Indicates the source of the other aid awarded for other aid program 3.
Other Aid Program 3 Source

1 = Institution
2 = State
3 = Federal
4 = Other

Applies To: Students who received other aid program 3.
Source: NPSAS:16 Field Test Student Records

CFA30THAMT

Other aid 3 amount

Description: Other aid 3 amount awarded for the July 1, 2014 - June 30, 2015 financial aid year.

Other Aid Program 1 Amount (\$)

Applies To: All students.

Source: NPSAS:16 Field Test Student Records

4.6 NPSAS:16 Field Test Student Interview Instrument Facsimile

ZRID

Analysis ID

Notes: ZRID is a unique student identification number assigned to each respondent.

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

COMPMODE

Student interview completion mode

Notes: COMPMODE is the mode in which the respondent completed the interview. Partial interview respondents have a missing value for interview completion mode.

0 = Self-administered web interview

1 = Computer-assisted telephone interview (CATI)

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

COMPDATE

Student interview completion date

Notes: COMPDATE is the date that the respondent completed the interview. COMPDATE is provided in the YYYYMMDD format. Partial interview respondents have a missing value for interview completion date.

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

SUMSTAT

Student interview completion status

Notes: SUMSTAT indicates the type of interview completion.

2640 = Final partial student interview

2641 = Module 1 completed, but module 2 pending

2690 = Completed student interview

2691 = Module 1 completed, but module 2 refused

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

TB4JULY

Student interview began before July 1, 2015

Notes: TB4JULY is a calculated variable used to indicate whether the respondent began the interview prior to July 1, 2015.

0 = Began interview on or after July 1, 2015

1 = Began interview before July 1, 2015

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16AELIG

Attended NPSAS during 2014-15 academic year

[If TB4JULY = 1]

Have you attended [NPSAS] at any time between July 1, 2014 and today? (Select Yes if you have attended [NPSAS] at any time between July 2014 and today, even if you are not currently attending.)

[else]

Did you attend [NPSAS] at any time between July 1, 2014 and June 30, 2015?

0 = Did not attend NPSAS during 2014-15 academic year

1 = Yes, attended NPSAS during 2014-15 academic year

2 = Don't know

3 = Yes, but attended NPSAS while in high school

4 = Yes, but attended NPSAS while studying abroad

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16ACURENR

Currently attending NPSAS

Are you currently attending [NPSAS]?

0 = Not currently attending NPSAS

1 = Yes, currently attending NPSAS

Applies To: Respondents who began the interview before July 1, 2015 and attended NPSAS during the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

TCURENR

Current attendance at NPSAS

Notes: TCURENR is a calculated variable that indicates current attendance at NPSAS.

If (TB4JULY = 1 and N16AELIG in (-9 1 2) and N16ACURENR = 1) then TCURENR = 1;
else if TB4JULY = 1 and N16AELIG = 4 then TCURENR = 1;

else TCURENR = 0;

0 = Not currently attending NPSAS

1 = Yes, currently attending NPSAS

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16ANOATT

Reason not attending NPSAS

Why are you not currently attending [NPSAS]?

- 1 = Completed course or program at NPSAS
- 2 = Withdrew from NPSAS
- 3 = Attended other school, but still enrolled at NPSAS
- 4 = Took leave of absence from NPSAS
- 5 = Other reason
- 6 = On break (for example, on summer break)

Applies To: Respondents who began the interview before July 1, 2015 and attended NPSAS during the 2014-15 academic year but were not currently attending.

Source: NPSAS:16 Field Test Student Interview

N16ADRPMY

Date left NPSAS

[If TB4JULY = 1]

When did you last attend [NPSAS]?

[else]

When did you last attend [NPSAS] between July 1, 2014 and June 30, 2015?

Notes: N16ADRPMY is presented in YYYYMM format. Month values of 00 indicate a missing month.

Applies To: Respondents who began the interview before July 1, 2015 and attended NPSAS during the 2014-15 academic year but were not currently attending because of withdrawal, leave of absence, or an "other" reason or who were interviewed after June 30, 2015.

Source: NPSAS:16 Field Test Student Interview

N16ADRPTM

Left NPSAS with a completed term

[If (N16AELIG = 1 and N16ADRPMY = -9) or (N16AELIG ne 1 and N16ALASTMY = -9)]

When you last attended [NPSAS], did you leave at the end of the term, or did you leave before the term ended?

[else if N16AELIG = 1]

Is that date ([N16ADRPMY]) at the end of the term, or did you leave before the term ended?

[else]

Is that date ([N16ADRPMY]) at the end of the term, or did you leave before the term ended?

- 1 = Left at the end of the term or still enrolled
- 2 = Left before the term ended

Applies To: Respondents who were not at a continuous enrollment school, started the interview before July 1, 2015, and attended NPSAS during the 2014-15 academic year but were not currently attending because of a withdrawal, leave of absence, or "other" reason; or respondents who were interviewed after June 30, 2015.

Source: NPSAS:16 Field Test Student Interview

N16ADRPRF

Received full tuition refund

Did you receive a full refund of your tuition when you left?

0 = Did not receive full tuition refund

1 = Yes, received full tuition refund

Applies To: Respondents who began the interview before July 1, 2015 and attended NPSAS during the 2014-15 academic year but were not currently attending because of a withdrawal, leave of absence, or "other" reason; or respondents who were interviewed after June 30, 2015 and left before the term ended.

Source: NPSAS:16 Field Test Student Interview

N16ADRPCMP

Completed course or term at NPSAS in 2014-15 academic year

[If TB4JULY = 1]

Have you completed a course [{if Y_CALSYS = 0} or term] at [NPSAS] at any time since July 1, 2014?

[else]

Did you complete a course [{if Y_CALSYS = 0} or term] at [NPSAS] at any time between July 1, 2014 and June 30, 2015?

0 = Did not receive full tuition refund

1 = Yes, received full tuition refund

Applies To: Respondents who began the interview before July 1, 2015 and attended NPSAS during the 2014-15 academic year but were not currently attending because of a withdrawal, leave of absence, or "other" reason; or respondents who were interviewed after June 30, 2015 and did not indicate they did not receive a full tuition refund.

Source: NPSAS:16 Field Test Student Interview

N16AEVREN

Ever attend NPSAS

Have you ever attended [NPSAS]?

0 = Did not attend NPSAS

1 = Yes, attended NPSAS

Applies To: Respondents who did not initially report attending NPSAS during the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16ALASTMY

Last date of NPSAS attendance

In what month and year did you last attend [NPSAS]?

Applies To: Respondents who did not initially report attending NPSAS during the 2014-15 academic year, but indicated ever attending NPSAS.

Source: NPSAS:16 Field Test Student Interview

N16AASEN

Enrolled in associate's degree program in 2014-15 academic year

[If TCURENR = 1]

Are you in an associate's degree program at [NPSAS]?

[else]

Were you in an associate's degree program during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

0 = Not enrolled in associate's degree program

1 = Yes, enrolled in associate's degree program

Applies To: Respondents preloaded as undergraduates and NPSAS was a 2-year school.

Source: NPSAS:16 Field Test Student Interview

N16ABACHENR

Enrolled in bachelor's degree program in 2014-15 academic year
[If TCURENR = 1]

Are you in a bachelor's degree program at [NPSAS]? (A bachelor's degree is usually awarded by a 4-year college or university and usually requires at least 4 years of full-time, college-level work.)

[else]

Were you in a bachelor's degree program during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)? (A bachelor's degree is usually awarded by a 4-year college or university and usually requires at least 4 years of full-time, college-level work.)

0 = Not enrolled in bachelor's degree program

1 = Yes, enrolled in bachelor's degree program

Applies To: Respondents preloaded as undergraduates and NPSAS was a public 4-year school or a private, nonprofit 4-year school.

Source: NPSAS:16 Field Test Student Interview

N16AGRDEEG

Enrolled in graduate degree program in 2014-15 academic year
[If N16ABACHENR = 1 and TCURENR = 1]

You just indicated you are currently in a bachelor's degree program. Are you also currently in a graduate degree program at [NPSAS]? (Graduate degrees include master's degrees, doctoral degrees [PhD, EdD, etc.], professional practice doctoral degrees [chiropractic, dentistry, law, medicine, etc.], post-baccalaureate certificates, and post-master's certificates.)

[else if N16ABACHENR = 1 and TCURENR = 0]

You just indicated you were in a bachelor's degree program. Were you also in a graduate degree program at [NPSAS] during your most recent term of enrollment in the 2014-2015 school year (July 1, 2014 - June 30, 2015)? (Graduate degrees include master's degrees, doctoral degrees [PhD, EdD, etc.], professional practice doctoral degrees [chiropractic, dentistry, law, medicine, etc.], post-baccalaureate certificates, and post-master's certificates.)

[else if TCURENR = 1]

Are you in a graduate degree program at [NPSAS]? (Graduate degrees include master's degrees, doctoral degrees [PhD, EdD, etc.], professional practice doctoral

degrees [chiropractic, dentistry, law, medicine, etc.], post-baccalaureate certificates, and post-master's certificates.)

Were you in a graduate degree program during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)? (Graduate degrees include master's degrees, doctoral degrees [PhD, EdD, etc.], professional practice doctoral degrees [chiropractic, dentistry, law, medicine, etc.], post-baccalaureate certificates, and post-master's certificates.)

0 = Not enrolled in graduate degree program

1 = Yes, enrolled in graduate degree program

Applies To: Respondents preloaded as graduates and NPSAS was a 4-year school or who confirmed they were in a bachelor's degree program at NPSAS.

Source: NPSAS:16 Field Test Student Interview

N16ADGAS

NPSAS program: associate's degree

[If Y_NPLEVL = 3 and TCURENR = 1 and COMPMODE = 1]

Are you currently working on an undergraduate certificate or diploma including those leading to a certification or license, or are you taking courses but not enrolled in a certificate or diploma at [NPSAS]? (I'll ask about your major or field of study later in the survey.)

[else if Y_NPLEVL = 3 and TCURENR = 1]

Which of the following are you currently working on at [NPSAS]?

[else if Y_NPLEVL = 3 and TCURENR = 0 and COMPMODE = 1]

Were you working on an undergraduate certificate or diploma including those leading to a certification or license, or were you taking courses but not enrolled in a certificate or diploma during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)? (I'll ask about your major or field of study later in the survey.)

[else if Y_NPLEVL = 3 and TCURENR = 0]

Which of the following were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

[else if Y_NPLEVL = 2 and TCURENR = 1]

What degree or certificate are you currently working on at [NPSAS]? Please indicate only the degree or certificate programs for which you are currently enrolled at [NPSAS]. Do not indicate any degree or certificate programs in which you plan to enroll at a future date.

[else if Y_NPLEVL = 2 and TCURENR = 0]

What degree or certificate were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

Please indicate only the degree or certificate programs for

which you were enrolled during your most recent term at [NPSAS] in 2014-2015.

[else if N16ABACHENR = 1 and N16AGRDDEG = 1 and TCURENR = 1]

What degrees or certificates are you currently working on at [NPSAS]?

[else if N16ABACHENR = 1 and N16AGRDDEG = 1 and TCURENR = 0]

What degrees or certificates were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

[else if TCURENR = 1]

What degree or certificate are you currently working on at [NPSAS]?

[else]

What degree or certificate were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

Associate's degree (usually a 2-year degree)

0 = Not associate's degree

1 = Yes, associate's degree

Applies To: Respondents who did not confirm being in an associate's or bachelor's degree program at NPSAS or respondents who indicated being enrolled in a bachelor's degree program and graduate degree program at NPSAS or respondents attending a less than 2-year NPSAS school.

Source: NPSAS:16 Field Test Student Interview

N16ADGBA

NPSAS program: bachelor's degree

[If Y_NPLEVL = 3 and TCURENR = 1 and COMPMODE = 1]

Are you currently working on an undergraduate certificate or diploma including those leading to a certification or license, or are you taking courses but not enrolled in a certificate or diploma at [NPSAS]? (I'll ask about your major or field of study later in the survey.)

[else if Y_NPLEVL = 3 and TCURENR = 1]

Which of the following are you currently working on at [NPSAS]?

[else if Y_NPLEVL = 3 and TCURENR = 0 and COMPMODE = 1]

Were you working on an undergraduate certificate or diploma including those leading to a certification or license, or were you taking courses but not enrolled in a certificate or diploma during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)? (I'll ask about your major or field of study later in the survey.)

[else if Y_NPLEVL = 3 and TCURENR = 0]

Which of the following were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

[else if Y_NPLEVL = 2 and TCURENR = 1]

What degree or certificate are you currently working on at [NPSAS]? Please indicate only the degree or certificate programs for which you are currently enrolled at

[NPSAS]. Do not indicate any degree or certificate programs in which you plan to enroll at a future date.

[else if Y_NPLEVL = 2 and TCURENR = 0]

What degree or certificate were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

Please indicate only the degree or certificate programs for which you were enrolled during your most recent term at [NPSAS] in 2014-2015.

[else if N16ABACHENR = 1 and N16AGRDDEG = 1 and TCURENR = 1]

What degrees or certificates are you currently working on at [NPSAS]?

[else if N16ABACHENR = 1 and N16AGRDDEG = 1 and TCURENR = 0]

What degrees or certificates were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

[else if TCURENR = 1]

What degree or certificate are you currently working on at [NPSAS]?

[else]

What degree or certificate were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

Bachelor's degree (usually a 4-year degree)

0 = Not bachelor's degree

1 = Yes, bachelor's degree

Applies To: Respondents who did not confirm being in an associate's or bachelor's degree program at NPSAS or respondents who indicated being enrolled in a bachelor's degree program and graduate degree program at NPSAS or respondents attending a less than 2-year NPSAS school.

Source: NPSAS:16 Field Test Student Interview

N16ADGMA

NPSAS program: master's degree

[If Y_NPLEVL = 3 and TCURENR = 1 and COMPMODE = 1]

Are you currently working on an undergraduate certificate or diploma including those leading to a certification or license, or are you taking courses but not enrolled in a certificate or diploma at [NPSAS]? (I'll ask about your major or field of study later in the survey.)

[else if Y_NPLEVL = 3 and TCURENR = 1]

Which of the following are you currently working on at [NPSAS]?

[else if Y_NPLEVL = 3 and TCURENR = 0 and COMPMODE = 1]

Were you working on an undergraduate certificate or diploma including those leading to a certification or license, or were you taking courses but not enrolled in a certificate or diploma during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)? (I'll ask about your major or field of study later in the survey.)

[else if Y_NPLEVL = 3 and TCURENR = 0]

Which of the following were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

[else if Y_NPLEVL = 2 and TCURENR = 1]

What degree or certificate are you currently working on at [NPSAS]? Please indicate only the degree or certificate programs for which you are currently enrolled at [NPSAS]. Do not indicate any degree or certificate programs in which you plan to enroll at a future date.

[else if Y_NPLEVL = 2 and TCURENR = 0]

What degree or certificate were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

Please indicate only the degree or certificate programs for which you were enrolled during your most recent term at [NPSAS] in 2014-2015.

[else if N16ABACHENR = 1 and N16AGRDDEG = 1 and TCURENR = 1]

What degrees or certificates are you currently working on at [NPSAS]?

[else if N16ABACHENR = 1 and N16AGRDDEG = 1 and TCURENR = 0]

What degrees or certificates were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

[else if TCURENR = 1]

What degree or certificate are you currently working on at [NPSAS]?

[else]

What degree or certificate were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

Master's degree

0 = Not master's degree

1 = Yes, master's degree

Applies To: Respondents who did not confirm being in an associate's or bachelor's degree program at NPSAS or respondents who indicated being enrolled in a bachelor's degree program and graduate degree program at NPSAS or respondents attending a less than 2-year NPSAS school.

Source: NPSAS:16 Field Test Student Interview

N16ADGDRR

NPSAS program: doctoral degree, research/scholarship

[If Y_NPLEVL = 3 and TCURENR = 1 and

COMPMODE = 1]

Are you currently working on an undergraduate certificate or diploma including those leading to a certification or license, or are you taking courses but not enrolled in a certificate or diploma at [NPSAS]? (I'll ask about your major or field of study later in the survey.)

[else if Y_NPLEVL = 3 and TCURENR = 1]

Which of the following are you currently working on at [NPSAS]?

[else if Y_NPLEVL = 3 and TCURENR = 0 and COMPMODE = 1]

Were you working on an undergraduate certificate or diploma including those leading to a certification or license, or were you taking courses but not enrolled in a certificate or diploma during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)? (I'll ask about your major or field of study later in the survey.)

[else if Y_NPLEVL = 3 and TCURENR = 0]

Which of the following were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

[else if Y_NPLEVL = 2 and TCURENR = 1]

What degree or certificate are you currently working on at [NPSAS]? Please indicate only the degree or certificate programs for which you are currently enrolled at [NPSAS]. Do not indicate any degree or certificate programs in which you plan to enroll at a future date.

[else if Y_NPLEVL = 2 and TCURENR = 0]

What degree or certificate were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

Please indicate only the degree or certificate programs for which you were enrolled during your most recent term at [NPSAS] in 2014-2015.

[else if N16ABACHENR = 1 and N16AGRDDEG = 1 and TCURENR = 1]

What degrees or certificates are you currently working on at [NPSAS]?

[else if N16ABACHENR = 1 and N16AGRDDEG = 1 and TCURENR = 0]

What degrees or certificates were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

[else if TCURENR = 1]

What degree or certificate are you currently working on at [NPSAS]?

[else]

What degree or certificate were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?
 Doctoral degree--research/scholarship (for example, PhD, EdD, etc.)

0 = Not doctoral degree, research/scholarship

1 = Yes, doctoral degree, research/scholarship

Applies To: Respondents who did not confirm being in an associate's or bachelor's degree program at NPSAS or respondents who indicated being enrolled in a bachelor's degree program and graduate degree program at NPSAS or respondents attending a less than 2-year NPSAS school.

Source: NPSAS:16 Field Test Student Interview

N16ADGDRPP

NPSAS program: doctoral degree, professional practice

[If Y_NPLEVL = 3 and TCURENR = 1 and COMPMODE = 1]

Are you currently working on an undergraduate certificate or diploma including those leading to a certification or license, or are you taking courses but not enrolled in a certificate or diploma at [NPSAS]? (I'll ask about your major or field of study later in the survey.)

[else if Y_NPLEVL = 3 and TCURENR = 1]

Which of the following are you currently working on at [NPSAS]?

[else if Y_NPLEVL = 3 and TCURENR = 0 and COMPMODE = 1]

Were you working on an undergraduate certificate or diploma including those leading to a certification or license, or were you taking courses but not enrolled in a certificate or diploma during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)? (I'll ask about your major or field of study later in the survey.)

[else if Y_NPLEVL = 3 and TCURENR = 0]

Which of the following were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

[else if Y_NPLEVL = 2 and TCURENR = 1]

What degree or certificate are you currently working on at [NPSAS]? Please indicate only the degree or certificate programs for which you are currently enrolled at [NPSAS]. Do not indicate any degree or certificate programs in which you plan to enroll at a future date.

[else if Y_NPLEVL = 2 and TCURENR = 0]

What degree or certificate were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)? Please indicate only the degree or certificate programs for which you were enrolled during your most recent term at [NPSAS] in 2014-2015.

[else if N16ABACHENR = 1 and N16AGRDDEG = 1 and TCURENR = 1]

What degrees or certificates are you currently working on at [NPSAS]?

[else if N16ABACHENR = 1 and N16AGRDDEG = 1 and TCURENR = 0]

What degrees or certificates were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

[else if TCURENR = 1]

What degree or certificate are you currently working on at [NPSAS]?

[else]

What degree or certificate were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

Doctoral degree--professional practice (including: chiropractic, dentistry, law, medicine, optometry, pharmacy, podiatry, or veterinary medicine)

0 = Not doctoral degree, professional practice

1 = Yes, doctoral degree, professional practice

Applies To: Respondents who did not confirm being in an associate's or bachelor's degree program at NPSAS or respondents who indicated being enrolled in a bachelor's degree program and graduate degree program at NPSAS or respondents attending a less than 2-year NPSAS school.

Source: NPSAS:16 Field Test Student Interview

N16ADGDROT

NPSAS program: doctoral degree, other

[If Y_NPLEVL = 3 and TCURENR = 1 and COMPMODE = 1]

Are you currently working on an undergraduate certificate or diploma including those leading to a certification or license, or are you taking courses but not enrolled in a certificate or diploma at [NPSAS]? (I'll ask about your major or field of study later in the survey.)

[else if Y_NPLEVL = 3 and TCURENR = 1]

Which of the following are you currently working on at [NPSAS]?

[else if Y_NPLEVL = 3 and TCURENR = 0 and COMPMODE = 1]

Were you working on an undergraduate certificate or diploma including those leading to a certification or license, or were you taking courses but not enrolled in a certificate or diploma during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)? (I'll ask about your major or field of study later in the survey.)

[else if Y_NPLEVL = 3 and TCURENR = 0]

Which of the following were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

[else if Y_NPLEVL = 2 and TCURENR = 1]
What degree or certificate are you currently working on at [NPSAS]? Please indicate only the degree or certificate programs for which you are currently enrolled at [NPSAS]. Do not indicate any degree or certificate programs in which you plan to enroll at a future date.

[else if Y_NPLEVL = 2 and TCURENR = 0]
What degree or certificate were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)? Please indicate only the degree or certificate programs for which you were enrolled during your most recent term at [NPSAS] in 2014-2015.

[else if N16ABACHENR = 1 and N16AGRDDEG = 1 and TCURENR = 1]
What degrees or certificates are you currently working on at [NPSAS]?

[else if N16ABACHENR = 1 and N16AGRDDEG = 1 and TCURENR = 0]
What degrees or certificates were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

[else if TCURENR = 1]
What degree or certificate are you currently working on at [NPSAS]?

[else]
What degree or certificate were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

Doctoral degree--other

0 = Not doctoral degree, other

1 = Yes, doctoral degree, other

Applies To: Respondents who did not confirm being in an associate's or bachelor's degree program at NPSAS or respondents who indicated being enrolled in a bachelor's degree program and graduate degree program at NPSAS or respondents attending a less than 2-year NPSAS school.

Source: NPSAS:16 Field Test Student Interview

N16ADGCE

NPSAS program: undergraduate certificate or diploma

[If Y_NPLEVL = 3 and TCURENR = 1 and COMPMODE = 1]

Are you currently working on an undergraduate certificate or diploma including those leading to a certification or license, or are you taking courses but not enrolled in a certificate or diploma at [NPSAS]? (I'll ask about your major or field of study later in the survey.)

[else if Y_NPLEVL = 3 and TCURENR = 1]

Which of the following are you currently working on at [NPSAS]?

[else if Y_NPLEVL = 3 and TCURENR = 0 and COMPMODE = 1]

Were you working on an undergraduate certificate or diploma including those leading to a certification or license, or were you taking courses but not enrolled in a certificate or diploma during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)? (I'll ask about your major or field of study later in the survey.)

[else if Y_NPLEVL = 3 and TCURENR = 0]

Which of the following were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

[else if Y_NPLEVL = 2 and TCURENR = 1]

What degree or certificate are you currently working on at [NPSAS]? Please indicate only the degree or certificate programs for which you are currently enrolled at [NPSAS]. Do not indicate any degree or certificate programs in which you plan to enroll at a future date.

[else if Y_NPLEVL = 2 and TCURENR = 0]

What degree or certificate were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)? Please indicate only the degree or certificate programs for which you were enrolled during your most recent term at [NPSAS] in 2014-2015.

[else if N16ABACHENR = 1 and N16AGRDDEG = 1 and TCURENR = 1]

What degrees or certificates are you currently working on at [NPSAS]?

[else if N16ABACHENR = 1 and N16AGRDDEG = 1 and TCURENR = 0]

What degrees or certificates were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

[else if TCURENR = 1]

What degree or certificate are you currently working on at [NPSAS]?

[else]

What degree or certificate were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

Undergraduate certificate or diploma (usually less than 2 years), including those leading to a certification or license (example: cosmetology)

0 = Not undergraduate certificate or diploma

1 = Yes, undergraduate certificate or diploma

Applies To: Respondents who did not confirm being in an associate's or bachelor's degree program at NPSAS or respondents who indicated being enrolled in a bachelor's degree program and graduate degree program at NPSAS or respondents attending a less than 2-year NPSAS school.

Source: NPSAS:16 Field Test Student Interview

N16ADGPB

NPSAS program: post-baccalaureate certificate

[If Y_NPLEVL = 3 and TCURENR = 1 and
COMPMODE = 1]

Are you currently working on an undergraduate certificate or diploma including those leading to a certification or license, or are you taking courses but not enrolled in a certificate or diploma at [NPSAS]? (I'll ask about your major or field of study later in the survey.)

[else if Y_NPLEVL = 3 and TCURENR = 1]

Which of the following are you currently working on at [NPSAS]?

[else if Y_NPLEVL = 3 and TCURENR = 0 and
COMPMODE = 1]

Were you working on an undergraduate certificate or diploma including those leading to a certification or license, or were you taking courses but not enrolled in a certificate or diploma during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)? (I'll ask about your major or field of study later in the survey.)

[else if Y_NPLEVL = 3 and TCURENR = 0]

Which of the following were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

[else if Y_NPLEVL = 2 and TCURENR = 1]

What degree or certificate are you currently working on at [NPSAS]? Please indicate only the degree or certificate programs for which you are currently enrolled at [NPSAS]. Do not indicate any degree or certificate programs in which you plan to enroll at a future date.

[else if Y_NPLEVL = 2 and TCURENR = 0]

What degree or certificate were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

Please indicate only the degree or certificate programs for which you were enrolled during your most recent term at [NPSAS] in 2014-2015.

[else if N16ABACHENR = 1 and N16AGRDDEG = 1 and TCURENR = 1]

What degrees or certificates are you currently working on at [NPSAS]?

[else if N16ABACHENR = 1 and N16AGRDDEG = 1 and TCURENR = 0]

What degrees or certificates were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

[else if TCURENR = 1]

What degree or certificate are you currently working on at [NPSAS]?

[else]

What degree or certificate were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

Post-baccalaureate certificate

0 = Not post-baccalaureate certificate

1 = Yes, post-baccalaureate certificate

Applies To: Respondents who did not confirm being in an associate's or bachelor's degree program at NPSAS or respondents who indicated being enrolled in a bachelor's degree program and graduate degree program at NPSAS or respondents attending a less than 2-year NPSAS school.

Source: NPSAS:16 Field Test Student Interview

N16ADGPM

NPSAS program: post-master's certificate

[If Y_NPLEVL = 3 and TCURENR = 1 and
COMPMODE = 1]

Are you currently working on an undergraduate certificate or diploma including those leading to a certification or license, or are you taking courses but not enrolled in a certificate or diploma at [NPSAS]? (I'll ask about your major or field of study later in the survey.)

[else if Y_NPLEVL = 3 and TCURENR = 1]

Which of the following are you currently working on at [NPSAS]?

[else if Y_NPLEVL = 3 and TCURENR = 0 and
COMPMODE = 1]

Were you working on an undergraduate certificate or diploma including those leading to a certification or license, or were you taking courses but not enrolled in a certificate or diploma during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)? (I'll ask about your major or field of study later in the survey.)

[else if Y_NPLEVL = 3 and TCURENR = 0]

Which of the following were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

[else if Y_NPLEVL = 2 and TCURENR = 1]

What degree or certificate are you currently working on at [NPSAS]? Please indicate only the degree or certificate programs for which you are currently enrolled at [NPSAS]. Do not indicate any degree or certificate programs in which you plan to enroll at a future date.

[else if Y_NPLEVL = 2 and TCURENR = 0]

What degree or certificate were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

Please indicate only the degree or certificate programs for which you were enrolled during your most recent term at [NPSAS] in 2014-2015.

[else if N16ABACHENR = 1 and N16AGRDDEG = 1 and TCURENR = 1]

What degrees or certificates are you currently working on at [NPSAS]?

[else if N16ABACHENR = 1 and N16AGRDDEG = 1 and TCURENR = 0]

What degrees or certificates were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

[else if TCURENR = 1]

What degree or certificate are you currently working on at [NPSAS]?

[else]

What degree or certificate were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

Post-master's certificate

0 = Not post-master's certificate

1 = Yes, post-master's certificate

Applies To: Respondents who did not confirm being in an associate's or bachelor's degree program at NPSAS or respondents who indicated being enrolled in a bachelor's degree program and graduate degree program at NPSAS or respondents attending a less than 2-year NPSAS school.

Source: NPSAS:16 Field Test Student Interview

N16ADGUND

NPSAS program: undergraduate level classes, no degree program

[If Y_NPLEVL = 3 and TCURENR = 1 and COMPMODE = 1]

Are you currently working on an undergraduate certificate or diploma including those leading to a certification or license, or are you taking courses but not enrolled in a certificate or diploma at [NPSAS]? (I'll ask about your major or field of study later in the survey.)

[else if Y_NPLEVL = 3 and TCURENR = 1]

Which of the following are you currently working on at [NPSAS]?

[else if Y_NPLEVL = 3 and TCURENR = 0 and COMPMODE = 1]

Were you working on an undergraduate certificate or diploma including those leading to a certification or license, or were you taking courses but not enrolled in a certificate or diploma during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)? (I'll ask about your major or field of study later in the survey.)

[else if Y_NPLEVL = 3 and TCURENR = 0]

Which of the following were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

[else if Y_NPLEVL = 2 and TCURENR = 1]

What degree or certificate are you currently working on at [NPSAS]? Please indicate only the degree or certificate programs for which you are currently enrolled at

[NPSAS]. Do not indicate any degree or certificate programs in which you plan to enroll at a future date.

[else if Y_NPLEVL = 2 and TCURENR = 0]

What degree or certificate were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

Please indicate only the degree or certificate programs for which you were enrolled during your most recent term at [NPSAS] in 2014-2015.

[else if N16ABACHENR = 1 and N16AGRDDEG = 1 and TCURENR = 1]

What degrees or certificates are you currently working on at [NPSAS]?

[else if N16ABACHENR = 1 and N16AGRDDEG = 1 and TCURENR = 0]

What degrees or certificates were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

[else if TCURENR = 1]

What degree or certificate are you currently working on at [NPSAS]?

[else]

What degree or certificate were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

Undergraduate level classes

0 = Not undergraduate-level classes

1 = Yes, undergraduate-level classes

Applies To: Respondents who did not confirm being in an associate's or bachelor's degree program at NPSAS or respondents who indicated being enrolled in a bachelor's degree program and graduate degree program at NPSAS or respondents attending a less than 2-year NPSAS school.

Source: NPSAS:16 Field Test Student Interview

N16ADGGNG

NPSAS program: graduate level classes, no degree program

[If Y_NPLEVL = 3 and TCURENR = 1 and COMPMODE = 1]

Are you currently working on an undergraduate certificate or diploma including those leading to a certification or license, or are you taking courses but not enrolled in a certificate or diploma at [NPSAS]? (I'll ask about your major or field of study later in the survey.)

[else if Y_NPLEVL = 3 and TCURENR = 1]

Which of the following are you currently working on at [NPSAS]?

[else if Y_NPLEVL = 3 and TCURENR = 0 and COMPMODE = 1]

Were you working on an undergraduate certificate or diploma including those leading to a certification or license, or were you taking courses but not enrolled in a certificate or diploma during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July

1, 2014 - June 30, 2015)? (I'll ask about your major or field of study later in the survey.)

[else if Y_NPLEVL = 3 and TCURENR = 0]

Which of the following were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

[else if Y_NPLEVL = 2 and TCURENR = 1]

What degree or certificate are you currently working on at [NPSAS]? Please indicate only the degree or certificate programs for which you are currently enrolled at [NPSAS]. Do not indicate any degree or certificate programs in which you plan to enroll at a future date.

[else if Y_NPLEVL = 2 and TCURENR = 0]

What degree or certificate were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

Please indicate only the degree or certificate programs for which you were enrolled during your most recent term at [NPSAS] in 2014-2015.

[else if N16ABACHENR = 1 and N16AGRDDEG = 1 and TCURENR = 1]

What degrees or certificates are you currently working on at [NPSAS]?

[else if N16ABACHENR = 1 and N16AGRDDEG = 1 and TCURENR = 0]

What degrees or certificates were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

[else if TCURENR = 1]

What degree or certificate are you currently working on at [NPSAS]?

[else]

What degree or certificate were you working on during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

Graduate level classes

0 = Not graduate-level classes

1 = Yes, graduate-level classes

Applies To: Respondents who did not confirm being in an associate's or bachelor's degree program at NPSAS or respondents who indicated being enrolled in a bachelor's degree program and graduate degree program at NPSAS or respondents attending a less than 2-year NPSAS school.

Source: NPSAS:16 Field Test Student Interview

N16AUGSTVER

Verification of undergraduate status at NPSAS in 2014-15 academic year

[If TCURENR = 1]

Are you primarily an undergraduate working toward a bachelor's degree?

[else]

Were you primarily an undergraduate working toward a bachelor's degree during your most recent term of enrollment at [NPSAS] in the 2014-2015 school year (July 1, 2014 - June 30, 2015)?

0 = Not primarily an undergraduate

1 = Yes, primarily an undergraduate

Applies To: Respondents in a bachelor's degree and graduate degree program at NPSAS at the same time.

Source: NPSAS:16 Field Test Student Interview

N16ACKHOUR

Clock hour requirement for undergraduate certificate or diploma

[If TCURENR = 1]

Does your certificate or diploma program require at least 3 months or 300 hours of instruction?

[else]

Did your certificate or diploma program require at least 3 months or 300 hours of instruction?

0 = Did not require 3 months or 300 clock hours

1 = Yes, required 3 months or 300 clock hours

Applies To: Respondents in an undergraduate certificate or diploma program at NPSAS.

Source: NPSAS:16 Field Test Student Interview

N16ARMCRD

Enrolled for only remedial or developmental classes

[If TCURENR = 1]

While you are attending [NPSAS], are you taking only remedial or developmental classes? (Remedial or developmental courses are used to strengthen your skills before you take your first college-level course in math, reading, or other subjects. Students are usually assigned to these courses on the basis of a placement test taken before the school year begins. Often, these courses do not count for credit toward graduation.)

[else]

When you last attended [NPSAS] in the 2014-2015 school year, were you taking only remedial or developmental classes? (Remedial or developmental courses are used to strengthen your skills before you take your first college-level course in math, reading, or other subjects. Students are usually assigned to these courses on the basis of a placement test taken before the school year begins. Often, these courses do not count for credit toward graduation.)

0 = Not remedial or developmental classes only

1 = Yes, remedial or developmental classes only

Applies To: Respondents who took undergraduates courses but were not in a degree program at NPSAS.

Source: NPSAS:16 Field Test Student Interview

N16AELCRD

Enrolled in course that could fulfill academic degree requirements

[If TCURENR = 1]

Are you taking at least one course for credit at [NPSAS] that could be applied toward fulfilling the requirements for an academic degree?

[else]

When you last attended [NPSAS] in the 2014-2015 school year, were you taking at least one course for credit that could be applied toward fulfilling the requirements for an academic degree?

0 = Not enrolled in one course for credit

1 = Yes, enrolled in one course for credit

Applies To: Respondents who took undergraduate or graduate courses but were not in a degree program at NPSAS.

Source: NPSAS:16 Field Test Student Interview

TDEGREE

NPSAS program

Notes: TDEGREE is a calculated variable that indicates the program at NPSAS started in the 2014-15 academic year:

If N16AUGSTATVR = 1 then TDEGREE = 4;
 else if N16ADGDRR = 1 then TDEGREE = 9;
 else if N16ADGDRPP = 1 then TDEGREE = 10;
 else if N16ADGDROT = 1 then TDEGREE = 11;
 else if N16ADGPM = 1 then TDEGREE = 8;
 else if N16ADGMA = 1 then TDEGREE = 7;
 else if N16ADGPB = 1 then TDEGREE = 6;
 else if N16ADGGNG = 1 and (N16ADGCE = 0 and N16ADGAS = 0 and N16ADGBA = 0) then TDEGREE = 5;
 else if N16ADGBA = 1 then TDEGREE = 4;
 else if N16ADGAS = 1 then TDEGREE = 3;
 else if N16ADGCE = 1 then TDEGREE = 2;
 else if N16ADGUND = 1 then TDEGREE = 1;
 else TDEGREE = 1.

1 = Undergraduate-level classes

2 = Undergraduate certificate or diploma

3 = Associate's degree

4 = Bachelor's degree

5 = Graduate-level classes

6 = Post-baccalaureate certificate

7 = Master's degree

8 = Post-master's certificate

9 = Doctoral degree, research/scholarship

10 = Doctoral degree, professional practice

11 = Doctoral degree, other

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

THIGHEST

Highest NPSAS program

Notes: THIGHEST is a calculated variable that indicates the highest level of program at NPSAS enrolled during the 2014-15 academic year.

1 = Undergraduate-level classes

2 = Undergraduate certificate or diploma

3 = Associate's degree

4 = Bachelor's degree

5 = Graduate-level classes

6 = Post-baccalaureate certificate

7 = Master's degree

8 = Post-master's certificate

9 = Doctoral degree, research/scholarship

10 = Doctoral degree, professional practice

11 = Doctoral degree, other

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

TSTAT

NPSAS enrollment level

Notes: TSTAT is a calculated variable that indicates the enrollment level for the program at NPSAS in the 2014-15 academic year:

If TDEGREE in (2 3 4) then TSTAT = 1;

else if TDEGREE in (6 7 8 9 10 11) then TSTAT = 2;

else if TDEGREE = 1 then TSTAT = 3;

else if TDEGREE = 5 then TSTAT = 4;

else TSTAT = -9.

1 = Undergraduate degree or certificate

2 = Graduate degree or certificate

3 = Undergraduate-level classes

4 = Graduate-level classes

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

TDUALENR

Dual enrollment in bachelor's degree and graduate degree

Notes: TDUALENR is a calculated variable that indicates if the respondent is working on both a bachelor's degree and graduate degree.

TDUALENR = -9;

If N16ADGBA = 1 and (N16ADGPB = 1 or

N16ADGMA = 1 or N16ADGPM = 1 or

N16ADGDRR = 1 or N16ADGDRPP = 1 or

N16ADGDROT = 1) then TDUALENR = 1;

else TDUALENR = 0.

0 = Not enrolled in bachelor's and graduate degree

1 = Yes, enrolled in bachelor's and graduate degree

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16ADIPL

Type of high school completion

Which of the following best describes your high school completion?

- 1 = Received a high school diploma in the U.S.
- 2 = Received GED certificate or equivalent credential
- 3 = Received a high school completion certificate
- 4 = Attended a foreign high school
- 5 = Did not complete high school or equivalency
- 6 = Home schooled

Applies To: Undergraduate respondents.

Source: NPSAS:16 Field Test Student Interview

N16AHSMY

Date completed high school

[If N16ADIPL = 4]

In what month and year did you complete high school?

[else if N16ADIPL = 1]

In what month and year did you receive your high school diploma?

[else if N16ADIPL = 3]

In what month and year did you receive your high school certificate?

[else if N16ADIPL = 2]

In what month and year did you receive your GED or other equivalent credential?

[else]

In what month and year did you complete high school?

Notes: N16AHSMY is presented in YYYYMM format. Month values of 00 indicate a missing month.

Applies To: Undergraduate respondents who completed high school or high school equivalency.

Source: NPSAS:16 Field Test Student Interview

N16AHSCMP

Currently completing high school requirements

[If TB4JULY = 1]

Were you completing high school requirements for the entire time you attended [NPSAS] since July 1, 2014?

[else]

Were you completing high school requirements for the entire time you attended [NPSAS] between July 1, 2014 and June 30, 2015?

- 0 = Not currently completing high school requirements
- 1 = Yes, currently completing high school requirements

Applies To: Undergraduate respondents who did not indicate completing high school or a high school equivalency or who completed high school during or after 2015.

Source: NPSAS:16 Field Test Student Interview

N16ANPELG

NPSAS eligibility

Notes: N16ANPELG is a calculated variable that indicates the respondent's NPSAS eligibility status.

0 = Not eligible for NPSAS survey

1 = Yes, eligible for the NPSAS survey

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16APRDG

Earned prior degrees or certificates

[If N16ADIPL = 5]

Have you earned any degrees or certificates since high school? (Only include degrees or certificates earned through a college, university, or trade school.)

[else if TDEGREE in (1 5)]

Have you earned any degrees or certificates since you completed your high school requirements? (Only include degrees or certificates earned through a college, university, or trade school.)

[else]

Other than the [NPSAS program] that you [{if TCURENR = 1} are {else} were] working on at [NPSAS], have you earned any other degrees or certificates since you completed your high school requirements? (Only include degrees or certificates earned through a college, university, or trade school.)

0 = Did not earn prior degrees or certificates

1 = Yes, earned prior degrees or certificates

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16AOTCE

Prior degree: undergraduate certificate or diploma

Other than the [NPSAS program] that you [{if TCURENR = 1} are {else} were] working on at [NPSAS], what other degrees or certificates have you already earned since [{if N16ADIPL = 5} high school {else} completing your high school requirements]? (Only include degrees or certificates earned through a college, university, or trade school.)

Undergraduate certificate or diploma (usually less than 2 years), including those leading to a certification or license (example: cosmetology)

0 = No prior undergraduate certificate or diploma

1 = Yes, prior undergraduate certificate or diploma

Applies To: Respondents who earned a prior degree.

Source: NPSAS:16 Field Test Student Interview

N16AOTAS

Prior degree: associate's degree

Other than the [NPSAS program] that you [if TCURENR = 1] are {else} were] working on at [NPSAS], what other degrees or certificates have you already earned since [if N16ADIPL = 5} high school {else} completing your high school requirements]? (Only include degrees or certificates earned through a college, university, or trade school.)

Associate's degree (usually a 2-year degree)

0 = No prior associate's degree

1 = Yes, prior associate's degree

Applies To: Respondents who earned a prior degree.

Source: NPSAS:16 Field Test Student Interview

N16AOTBA

Prior degree: bachelor's degree

Other than the [NPSAS program] that you [if TCURENR = 1] are {else} were] working on at [NPSAS], what other degrees or certificates have you already earned since [if N16ADIPL = 5} high school {else} completing your high school requirements]? (Only include degrees or certificates earned through a college, university, or trade school.)

Bachelor's degree (usually a 4-year degree)

0 = No prior bachelor's degree

1 = Yes, prior bachelor's degree

Applies To: Respondents who earned a prior degree.

Source: NPSAS:16 Field Test Student Interview

N16AOTPB

Prior degree: post-baccalaureate certificate

Other than the [NPSAS program] that you [if TCURENR = 1] are {else} were] working on at [NPSAS], what other degrees or certificates have you already earned since [if N16ADIPL = 5} high school {else} completing your high school requirements]? (Only include degrees or certificates earned through a college, university, or trade school.)

Post-baccalaureate certificate

0 = No prior post-baccalaureate certificate

1 = Yes, prior post-baccalaureate certificate

Applies To: Respondents who earned a prior degree.

Source: NPSAS:16 Field Test Student Interview

N16AOTMA

Prior degree: master's degree

Other than the [NPSAS program] that you [if TCURENR = 1] are {else} were] working on at [NPSAS], what other degrees or certificates have you

already earned since [if N16ADIPL = 5} high school {else} completing your high school requirements]? (Only include degrees or certificates earned through a college, university, or trade school.)

Master's degree

0 = No prior master's degree

1 = Yes, prior master's degree

Applies To: Respondents who earned a prior degree.

Source: NPSAS:16 Field Test Student Interview

N16AOTPM

Prior degree: post-master's certificate

Other than the [NPSAS program] that you [if TCURENR = 1] are {else} were] working on at [NPSAS], what other degrees or certificates have you already earned since [if N16ADIPL = 5} high school {else} completing your high school requirements]? (Only include degrees or certificates earned through a college, university, or trade school.)

Post-master's certificate

0 = No prior post-master's certificate

1 = Yes, prior post-master's certificate

Applies To: Respondents who earned a prior degree.

Source: NPSAS:16 Field Test Student Interview

N16AOTDR

Prior degree: doctoral or professional degree

Other than the [NPSAS program] that you [if TCURENR = 1] are {else} were] working on at [NPSAS], what other degrees or certificates have you already earned since [if N16ADIPL = 5} high school {else} completing your high school requirements]? (Only include degrees or certificates earned through a college, university, or trade school.)

Doctorate or professional degree

0 = No prior doctoral or professional degree

1 = Yes, prior doctoral or professional degree

Applies To: Respondents who earned a prior degree.

Source: NPSAS:16 Field Test Student Interview

N16APRBM

Date completed prior bachelor's degree

In what month and year was your bachelor's degree awarded?

Notes: N16APRBM is presented in YYYYMM format.

Month values of 00 indicate a missing month.

Applies To: Respondents who earned a prior bachelor's degree.

Source: NPSAS:16 Field Test Student Interview

N16ANFST

NPSAS was first postsecondary school attended after high school
Was [NPSAS] the first college, university, or trade school you attended after [{if N16ADIPL = 5} high school {else} completing your high school requirements]?

0 = NPSAS was not first postsecondary school attended

1 = Yes, NPSAS was first postsecondary school attended

Applies To: Undergraduate respondents.

Source: NPSAS:16 Field Test Student Interview

N16AFSTMY

Date attended first postsecondary school

In which month and year did you first attend any college, university, or trade school after [{if N16ADIPL = 5} high school {else} completing your high school requirements]?

Notes: N16AFSTMY is presented in YYYYMM format. Month values of 00 indicate a missing month.

Applies To: Undergraduate respondents who did not indicate NPSAS was first school attended.

Source: NPSAS:16 Field Test Student Interview

N16ADGBMY

Date first attended NPSAS

In which month and year did you first attend [NPSAS] after [{if N16ADIPL = 5} high school {else} completing your high school requirements]?

Notes: N16ADGBMY is presented in YYYYMM format. Month values of 00 indicate a missing month.

Applies To: Undergraduate respondents.

Source: NPSAS:16 Field Test Student Interview

N16APGMSMY

Date began graduate studies

When did you begin your [NPSAS program] at [NPSAS]?

Notes: N16APGMSMY is presented in YYYYMM format. Month values of 00 indicate a missing month.

Applies To: Graduate respondents.

Source: NPSAS:16 Field Test Student Interview

N16AENRGATE1

Attended NPSAS between July 2014 and December 2014

[If TCURENR = 1]

You've indicated that you are currently attending [NPSAS]. Did you also attend [NPSAS] at any time between July 2014 and December 2014?

[else]

Did you attend [NPSAS] at any time between July 2014 and December 2014?

0 = Did not attend between July 2014 - Dec 2014

1 = Yes, attended between July 2014 - Dec 2014

Applies To: Respondents who were first enrolled before July 2014 or those who were dual-enrolled and primarily a graduate student.

Source: NPSAS:16 Field Test Student Interview

N16AJULY14

NPSAS attendance: July 2014

[If (N16ADGBMY >= 201407 and N16ADGBMY <= 201412) or (TDUALNR = 0 and (N16APGMSMY >= 201407 and N16APGMSMY <= 201412))]

In which months did you attend [NPSAS], beginning with when you started in [NPSAS start month] 2014 through December 2014? Do not include any months during which you were not taking classes, such as summer break. (If you attended for only a portion of any month, please include that month.) [{If COMPMODE = 0} Click on the months of attendance below.]

[else]

Between July 2014 and December 2014, in which months did you attend [NPSAS]? Do not include any months during which you were not taking classes, such as summer break. (If you attended for only a portion of any month, please include that month.) [{If COMPMODE = 0} Click on the months of attendance below.]

July 2014

0 = Did not attend in July 2014

1 = Yes, attended in July 2014

Applies To: Respondents who were enrolled at NPSAS between July 2014 and December 2014.

Source: NPSAS:16 Field Test Student Interview

N16AAUG14

NPSAS attendance: August 2014

[If (N16ADGBMY >= 201407 and N16ADGBMY <= 201412) or (TDUALNR = 0 and (N16APGMSMY >= 201407 and N16APGMSMY <= 201412))]

In which months did you attend [NPSAS], beginning with when you started in [NPSAS start month] 2014 through December 2014? Do not include any months during which you were not taking classes, such as summer break. (If you attended for only a portion of any month, please include that month.) [{If COMPMODE = 0} Click on the months of attendance below.]

[else]

Between July 2014 and December 2014, in which months did you attend [NPSAS]? Do not include any months during which you were not taking classes, such as summer break. (If you attended for only a portion of any month, please include that month.) [{If COMPMODE = 0} Click on the months of attendance below.]

August 2014

0 = Did not attend in August 2014

1 = Yes, attended in August 2014

Applies To: Respondents who were enrolled at NPSAS between July 2014 and December 2014.

Source: NPSAS:16 Field Test Student Interview

N16ASEPT14

NPSAS attendance: September 2014

[If (N16ADGBMY >= 201407 and N16ADGBMY <= 201412) or (TDUALENR = 0 and (N16APGMSMY >= 201407 and N16APGMSMY <= 201412))]

In which months did you attend [NPSAS], beginning with when you started in [NPSAS start month] 2014 through December 2014? Do not include any months during which you were not taking classes, such as summer break. (If you attended for only a portion of any month, please include that month.) [If COMPMODE = 0] Click on the months of attendance below.]

[else]

Between July 2014 and December 2014, in which months did you attend [NPSAS]? Do not include any months during which you were not taking classes, such as summer break. (If you attended for only a portion of any month, please include that month.) [If COMPMODE = 0] Click on the months of attendance below.]

September 2014

0 = Did not attend in September 2014

1 = Yes, attended in September 2014

Applies To: Respondents who were enrolled at NPSAS between July 2014 and December 2014.

Source: NPSAS:16 Field Test Student Interview

N16AOCT14

NPSAS attendance: October 2014

[If (N16ADGBMY >= 201407 and N16ADGBMY <= 201412) or (TDUALENR = 0 and (N16APGMSMY >= 201407 and N16APGMSMY <= 201412))]

In which months did you attend [NPSAS], beginning with when you started in [NPSAS start month] 2014 through December 2014? Do not include any months during which you were not taking classes, such as summer break. (If you attended for only a portion of any month, please include that month.) [If COMPMODE = 0] Click on the months of attendance below.]

[else]

Between July 2014 and December 2014, in which months did you attend [NPSAS]? Do not include any months during which you were not taking classes, such as summer break. (If you attended for only a portion of any month, please include that month.) [If COMPMODE = 0] Click on the months of attendance below.]

October 2014

0 = Did not attend in October 2014

1 = Yes, attended in October 2014

Applies To: Respondents who were enrolled at NPSAS between July 2014 and December 2014.

Source: NPSAS:16 Field Test Student Interview

N16ANOV14

NPSAS attendance: November 2014

[If (N16ADGBMY >= 201407 and N16ADGBMY <= 201412) or (TDUALENR = 0 and (N16APGMSMY >= 201407 and N16APGMSMY <= 201412))]

In which months did you attend [NPSAS], beginning with when you started in [NPSAS start month] 2014 through December 2014? Do not include any months during which you were not taking classes, such as summer break. (If you attended for only a portion of any month, please include that month.) [If COMPMODE = 0] Click on the months of attendance below.]

[else]

Between July 2014 and December 2014, in which months did you attend [NPSAS]? Do not include any months during which you were not taking classes, such as summer break. (If you attended for only a portion of any month, please include that month.) [If COMPMODE = 0] Click on the months of attendance below.]

November 2014

0 = Did not attend in November 2014

1 = Yes, attended in November 2014

Applies To: Respondents who were enrolled at NPSAS between July 2014 and December 2014.

Source: NPSAS:16 Field Test Student Interview

N16ADEC14

NPSAS attendance: December 2014

[If (N16ADGBMY >= 201407 and N16ADGBMY <= 201412) or (TDUALENR = 0 and (N16APGMSMY >= 201407 and N16APGMSMY <= 201412))]

In which months did you attend [NPSAS], beginning with when you started in [NPSAS start month] 2014 through December 2014? Do not include any months during which you were not taking classes, such as summer break. (If you attended for only a portion of any month, please include that month.) [If COMPMODE = 0] Click on the months of attendance below.]

[else]

Between July 2014 and December 2014, in which months did you attend [NPSAS]? Do not include any months during which you were not taking classes, such as summer break. (If you attended for only a portion of any month, please include that month.) [If COMPMODE = 0] Click on the months of attendance below.]

December 2014

0 = Did not attend in December 2014

1 = Yes, attended in December 2014

Applies To: Respondents who were enrolled at NPSAS between July 2014 and December 2014.
Source: NPSAS:16 Field Test Student Interview

N16AENRGATE2

Attended NPSAS between January 2015 and June 2015
[If TB4JULY = 1]
Thanks. Have you attended, or do you expect to attend, [NPSAS] at any time between January 2015 and June 2015?
[else]
Thanks. Did you attend [NPSAS] at any time between January 2015 and June 2015?
0 = Did not attend between Jan 2015 - June 2015
1 = Yes, attended between Jan 2015 - June 2015

Applies To: Respondents who were not currently enrolled at NPSAS and first enrolled at NPSAS before January 2015.
Source: NPSAS:16 Field Test Student Interview

N16AJAN15

NPSAS attendance: January 2015
[If TCURENR = 1]
Between January 2015 and June 2015, in which months have you attended, or do you expect to attend [NPSAS]? Do not include any months during which you are not taking classes, such as summer break. (If you attended for only a portion of any month, please include that month.) [If COMPMODE = 0] Click on the months of attendance below.
[else]
Between January 2015 and June 2015, in which months did you attend [NPSAS]? Do not include any months during which you were not taking classes, such as summer break. (If you attended for only a portion of any month, please include that month.) [If COMPMODE = 0] Click on the months of attendance below.
January 2015
0 = Did not attend in January 2015
1 = Yes, attended in January 2015

Applies To: Respondents who were enrolled at NPSAS between January 2015 and June 2015.
Source: NPSAS:16 Field Test Student Interview

N16AFEB15

NPSAS attendance: February 2015
[If TCURENR = 1]
Between January 2015 and June 2015, in which months have you attended, or do you expect to attend [NPSAS]? Do not include any months during which you are not taking classes, such as summer break. (If you attended for only a portion of any month, please include that month.)

[If COMPMODE = 0] Click on the months of attendance below.
[else]
Between January 2015 and June 2015, in which months did you attend [NPSAS]? Do not include any months during which you were not taking classes, such as summer break. (If you attended for only a portion of any month, please include that month.) [If COMPMODE = 0] Click on the months of attendance below.
February 2015
0 = Did not attend in February 2015
1 = Yes, attended in February 2015

Applies To: Respondents who were enrolled at NPSAS between January 2015 and June 2015.
Source: NPSAS:16 Field Test Student Interview

N16AMAR15

NPSAS attendance: March 2015
[If TCURENR = 1]
Between January 2015 and June 2015, in which months have you attended, or do you expect to attend [NPSAS]? Do not include any months during which you are not taking classes, such as summer break. (If you attended for only a portion of any month, please include that month.) [If COMPMODE = 0] Click on the months of attendance below.
[else]
Between January 2015 and June 2015, in which months did you attend [NPSAS]? Do not include any months during which you were not taking classes, such as summer break. (If you attended for only a portion of any month, please include that month.) [If COMPMODE = 0] Click on the months of attendance below.
March 2015
0 = Did not attend in March 2015
1 = Yes, attended in March 2015

Applies To: Respondents who were enrolled at NPSAS between January 2015 and June 2015.
Source: NPSAS:16 Field Test Student Interview

N16AAPR15

NPSAS attendance: April 2015
[If TCURENR = 1]
Between January 2015 and June 2015, in which months have you attended, or do you expect to attend [NPSAS]? Do not include any months during which you are not taking classes, such as summer break. (If you attended for only a portion of any month, please include that month.) [If COMPMODE = 0] Click on the months of attendance below.
[else]
Between January 2015 and June 2015, in which months did you attend [NPSAS]? Do not include any months

during which you were not taking classes, such as summer break. (If you attended for only a portion of any month, please include that month.) [If COMPMODE = 0] Click on the months of attendance below.]

April 2015

0 = Did not attend in April 2015

1 = Yes, attended in April 2015

Applies To: Respondents who were enrolled at NPSAS between January 2015 and June 2015.

Source: NPSAS:16 Field Test Student Interview

N16AMAY15

NPSAS attendance: May 2015

[If TCURENR = 1]

Between January 2015 and June 2015, in which months have you attended, or do you expect to attend [NPSAS]? Do not include any months during which you are not taking classes, such as summer break. (If you attended for only a portion of any month, please include that month.) [If COMPMODE = 0] Click on the months of attendance below.]

[else]

Between January 2015 and June 2015, in which months did you attend [NPSAS]? Do not include any months during which you were not taking classes, such as summer break. (If you attended for only a portion of any month, please include that month.) [If COMPMODE = 0] Click on the months of attendance below.]

May 2015

0 = Did not attend in May 2015

1 = Yes, attended in May 2015

Applies To: Respondents who were enrolled at NPSAS between January 2015 and June 2015.

Source: NPSAS:16 Field Test Student Interview

N16AJUNE15

NPSAS attendance: June 2015

[If TCURENR = 1]

Between January 2015 and June 2015, in which months have you attended, or do you expect to attend [NPSAS]? Do not include any months during which you are not taking classes, such as summer break. (If you attended for only a portion of any month, please include that month.) [If COMPMODE = 0] Click on the months of attendance below.]

[else]

Between January 2015 and June 2015, in which months did you attend [NPSAS]? Do not include any months during which you were not taking classes, such as summer break. (If you attended for only a portion of any month, please include that month.) [If COMPMODE = 0] Click on the months of attendance below.]

June 2015

0 = Did not attend in June 2015

1 = Yes, attended in June 2015

Applies To: Respondents who were enrolled at NPSAS between January 2015 and June 2015.

Source: NPSAS:16 Field Test Student Interview

N16ASTST

Enrollment intensity at NPSAS

[If TCURENR = 1]

For the period of time you have been attending [NPSAS] during the 2014-2015 school year, have you been mainly a full-time or part-time student, or an equal mix of both?

[else]
For the period of time you were attending [NPSAS] during the 2014-2015 school year, were you mainly a full-time or part-time student, or an equal mix of both?

1 = Full-time

2 = Part-time

3 = Equal mix of full-time and part-time

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16ANEMX

NPSAS attendance: July 2014 - June 2015

Notes: This variable is a 12 character string that indicates the months the respondent was enrolled at NPSAS between the months of July 2014 through June 2015 and their monthly enrollment status. Each month is represented by one digit in the string, with July 2014 as the first digit and June 2015 as the final digit. "1" indicates the respondent was enrolled mainly full-time during that month. "2" indicates the respondent was enrolled mainly part-time during that month. "3" indicates the respondent was enrolled an equal mix of full-time and part-time during that month. "4" indicates the respondent was enrolled for that month, but did not indicate their enrollment status. "0" indicates the respondent was not enrolled for that month. "9" indicates the respondent did not provide months of enrollment. For example, a respondent enrolled full-time from August 2014 through May 2015 would have an enrollment string of 011111111110.

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16APGMFT

Previous enrollment intensity at NPSAS for graduate program

Since the time that you first started working on your [NPSAS program] prior to the 2014-2015 school year, were you mainly a full-time or part-time student, or an equal mix of both?

1 = Full-time

2 = Part-time

3 = Equal mix of full-time and part-time

Applies To: Graduate respondents who started program at NPSAS prior to the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16AADDLINST

Attended other postsecondary school between July 2014 and June 2015

[If TB4]JULY = 1]

Since July 1, 2014, have you attended any other colleges, universities, or trade schools besides [NPSAS]?

[else]

Between July 1, 2014 and June 30, 2015, did you attend any other colleges, universities, or trade schools besides [NPSAS]?

0 = Did not attend another postsecondary school

1 = Yes, attended another postsecondary school

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16AIPED01

Other school attendance 1: IPEDS ID

[If COMPMODE = 0]

What other school did you attend between July 1, 2014 and June 30, 2015?

[else]

What other school did you attend, and in what city and state is it located?

Notes: The institution identification number from the U.S. Department of Education's Integrated Postsecondary Education Data System (IPEDS) is provided when the institution is selected in the NPSAS:16 field test interview. See <http://nces.ed.gov/ipeds/datacenter/> for more information on IPEDS.

IPEDS identification numbers of 99999* are given to schools that cannot be found in IPEDS:

999996 - Foreign school

999997 - City known, school not found

999998 - City unknown, state known, school not found

999999 - State unknown, city known or unknown, school not found

Applies To: Respondents who attended one additional postsecondary institution in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16ASCH01

Other school attendance 1: school name

[If COMPMODE = 0]

What other school did you attend between July 1, 2014 and June 30, 2015?

[else]

What other school did you attend, and in what city and state is it located?

Notes: If the institution is successfully coded using the U.S. Department of Education's Integrated Postsecondary Education Data System (IPEDS) coder in the NPSAS:16 field test interview, this information comes from IPEDS; otherwise, this information is provided by the respondent. See

<http://nces.ed.gov/ipeds/datacenter/> for more information on IPEDS.

School Name

Applies To: Respondents who attended one additional postsecondary institution in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16ACT01

Other school attendance 1: city

[If COMPMODE = 0]

What other school did you attend between July 1, 2014 and June 30, 2015?

[else]

What other school did you attend, and in what city and state is it located?

Notes: City where institution is located. If the institution is successfully coded using the U.S. Department of Education's Integrated Postsecondary Education Data System (IPEDS) coder in the NPSAS:16 field test interview, this information comes from IPEDS; otherwise, this information is provided by the respondent. See <http://nces.ed.gov/ipeds/datacenter/> for more information on IPEDS.

City

Applies To: Respondents who attended one additional postsecondary institution in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16AST01

Other school attendance 1: state

[If COMPMODE = 0]

What other school did you attend between July 1, 2014 and June 30, 2015?

[else]

What other school did you attend, and in what city and state is it located?

Notes: A numeric code for the state in which the institution is located. If the institution is successfully coded using the U.S. Department of Education's Integrated Postsecondary Education Data System (IPEDS) coder in the NPSAS:16 field test interview, this information comes from IPEDS; otherwise, this information is provided by the respondent. See <http://nces.ed.gov/ipeds/datacenter/> for more information on IPEDS.

SECTION 4. RECOMMENDATIONS FOR THE NPSAS:16 FULL-SCALE STUDY

APPENDIX O: 2014-15-16 NATIONAL POSTSECONDARY STUDENT AID STUDY (NPSAS:16) FIELD TEST

State

- 1 = Alabama
- 2 = Alaska
- 3 = Arizona
- 4 = Arkansas
- 5 = California
- 6 = Colorado
- 7 = Connecticut
- 8 = Delaware
- 9 = District of Columbia
- 10 = Florida
- 11 = Georgia
- 12 = Hawaii
- 13 = Idaho
- 14 = Illinois
- 15 = Indiana
- 16 = Iowa
- 17 = Kansas
- 18 = Kentucky
- 19 = Louisiana
- 20 = Maine
- 21 = Maryland
- 22 = Massachusetts
- 23 = Michigan
- 24 = Minnesota
- 25 = Mississippi
- 26 = Missouri
- 27 = Montana
- 28 = Nebraska
- 29 = Nevada
- 30 = New Hampshire
- 31 = New Jersey
- 32 = New Mexico
- 33 = New York
- 34 = North Carolina
- 35 = North Dakota
- 36 = Ohio
- 37 = Oklahoma
- 38 = Oregon
- 39 = Pennsylvania
- 40 = Rhode Island
- 41 = South Carolina
- 42 = South Dakota
- 43 = Tennessee
- 44 = Texas
- 45 = Utah
- 46 = Vermont
- 47 = Virginia
- 48 = Washington
- 49 = West Virginia
- 50 = Wisconsin
- 51 = Wyoming
- 52 = Puerto Rico

63 = Foreign country

Applies To: Respondents who attended one additional postsecondary institution in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16ALEVL01

Other school attendance 1: level

[If COMPMODE = 0]

What other school did you attend between July 1, 2014 and June 30, 2015?

[else]

What other school did you attend, and in what city and state is it located?

Notes: The institution level indicates the length of time it takes to complete the highest level of program offered by the institution. If the institution is successfully coded using the U.S. Department of Education's Integrated Postsecondary Education Data System (IPEDS) coder in the NPSAS:16 field test interview, this information comes from IPEDS; otherwise, this information is provided by the respondent. See

<http://nces.ed.gov/ipeds/datacenter/> for more information on IPEDS.

1 = 4-year

2 = 2-year

3 = Less-than-2-year

Applies To: Respondents who attended one additional postsecondary institution in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16ACTRL01

Other school attendance 1: control

[If COMPMODE = 0]

What other school did you attend between July 1, 2014 and June 30, 2015?

[else]

What other school did you attend, and in what city and state is it located?

Notes: The institution control is a classification of whether an institution is operated by publicly elected/appointed officials or by privately elected/appointed officials and derives its major source of funds from private sources. If the institution is successfully coded using the U.S. Department of Education's Integrated Postsecondary Education Data System (IPEDS) coder in the NPSAS:16 field test interview, this information comes from IPEDS; otherwise, this information is provided by the respondent. See <http://nces.ed.gov/ipeds/datacenter/> for more information on IPEDS.

Public institution - An educational institution whose programs and activities are operated by publicly elected or

appointed school officials and which is supported primarily by public funds.

Private nonprofit institution - A private institution in which the individual(s) or agency in control receives no compensation, other than wages, rent, or other expenses for the assumption of risk. These include both independent nonprofit schools and those affiliated with a religious organization.

Private for-profit institution - A private institution in which the individual(s) or agency in control receives compensation other than wages, rent, or other expenses for the assumption of risk.

1 = Public

2 = Private nonprofit

3 = Private for-profit

Applies To: Respondents who attended one additional postsecondary institution in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16AIPDUC01

Other school attendance 1: school coded after interview

Notes: Respondents entered their school name, city and state into an internal database built into the instrument and selected an IPEDS code representing their school. If respondents did not select an IPEDS code, expert coders attempted to upcode this school. In the event expert coders upcoded an IPEDS code, this flag was set to 1. If the flag was set to 1, the following variables were changed to reflect the new IPEDS code: N16AIPED01, N16ASCH01, N16ACT01, N16AST01, N16ACTRL01, N16ALEVL01.

0 = Not upcoded

1 = Yes, upcoded

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16AENRGT101

Other school attendance 1: attended between July 2014 and Dec 2014

Did you attend [{if N16ASCH01 = -9} the other school you went to {else} [N16ASCH01]] at any time between July 2014 and December 2014?

0 = Did not attend between July 2014 - Dec 2014

1 = Yes, attended between July 2014 - Dec 2014

Applies To: Respondents who attended one additional postsecondary institution in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16AJULY1401

Other school attendance 1: July 2014

Between July 2014 and December 2014, in which months did you attend [{if N16ASCH01 = -9} the other school you went to {else} [N16ASCH01]]? Do not include any

months during which you were not taking classes, such as summer break. (If you attended for only a portion of any month, please include that month.) [{If COMPMODE = 0} Click on the months of attendance below.]

July 2014

0 = Did not attend in July 2014

1 = Yes, attended in July 2014

Applies To: Respondents who attended one additional postsecondary institution in the 2014-15 academic year between July 2014 and December 2014.

Source: NPSAS:16 Field Test Student Interview

N16AAUG1401

Other school attendance 1: August 2014

Between July 2014 and December 2014, in which months did you attend [{if N16ASCH01 = -9} the other school you went to {else} [N16ASCH01]]? Do not include any months during which you were not taking classes, such as summer break. (If you attended for only a portion of any month, please include that month.) [{If COMPMODE = 0} Click on the months of attendance below.]

August 2014

0 = Did not attend in August 2014

1 = Yes, attended in August 2014

Applies To: Respondents who attended one additional postsecondary institution in the 2014-15 academic year between July 2014 and December 2014.

Source: NPSAS:16 Field Test Student Interview

N16ASEPT1401

Other school attendance 1: September 2014

Between July 2014 and December 2014, in which months did you attend [{if N16ASCH01 = -9} the other school you went to {else} [N16ASCH01]]? Do not include any months during which you were not taking classes, such as summer break. (If you attended for only a portion of any month, please include that month.) [{If COMPMODE = 0} Click on the months of attendance below.]

September 2014

0 = Did not attend in September 2014

1 = Yes, attended in September 2014

Applies To: Respondents who attended one additional postsecondary institution in the 2014-15 academic year between July 2014 and December 2014.

Source: NPSAS:16 Field Test Student Interview

N16AOCT1401

Other school attendance 1: October 2014

Between July 2014 and December 2014, in which months did you attend [{if N16ASCH01 = -9} the other school you went to {else} [N16ASCH01]]? Do not include any months during which you were not taking classes, such as summer break. (If you attended for only a portion of any

month, please include that month.) [{If COMPMODE = 0} Click on the months of attendance below.]

October 2014

0 = Did not attend in October 2014

1 = Yes, attended in October 2014

Applies To: Respondents who attended one additional postsecondary institution in the 2014-15 academic year between July 2014 and December 2014.

Source: NPSAS:16 Field Test Student Interview

N16ANOV1401

Other school attendance 1: November 2014

Between July 2014 and December 2014, in which months did you attend [{if N16ASCH01 = -9} the other school you went to {else} [N16ASCH01]]? Do not include any months during which you were not taking classes, such as summer break. (If you attended for only a portion of any month, please include that month.) [{If COMPMODE = 0} Click on the months of attendance below.]

November 2014

0 = Did not attend in November 2014

1 = Yes, attended in November 2014

Applies To: Respondents who attended one additional postsecondary institution in the 2014-15 academic year between July 2014 and December 2014.

Source: NPSAS:16 Field Test Student Interview

N16ADEC1401

Other school attendance 1: December 2014

Between July 2014 and December 2014, in which months did you attend [{if N16ASCH01 = -9} the other school you went to {else} [N16ASCH01]]? Do not include any months during which you were not taking classes, such as summer break. (If you attended for only a portion of any month, please include that month.) [{If COMPMODE = 0} Click on the months of attendance below.]

December 2014

0 = Did not attend in December 2014

1 = Yes, attended in December 2014

Applies To: Respondents who attended one additional postsecondary institution in the 2014-15 academic year between July 2014 and December 2014.

Source: NPSAS:16 Field Test Student Interview

N16AENRGT201

Other school attendance 1: attended between January 2015 and June 2015

[If TB4]JULY = 1]

Did you attend, or do you expect to attend, [{if N16ASCH01 = -9} the other school you went to {else} [N16ASCH01]] at any time between January 2015 and June 2015?

[else]

Did you attend [{if N16ASCH01 = -9} the other school you went to {else} [N16ASCH01]] at any time between January 2015 and June 2015?

0 = Did not attend between Jan 2015 - June 2015

1 = Yes, attended between Jan 2015 - June 2015

Applies To: Respondents who attended one additional postsecondary institution in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16AJAN1501

Other school attendance 1: January 2015

[If TB4]JULY = 1]

Between January 2015 and June 2015, in which months have you attended, or do you expect to attend [{if N16ASCH01 = -9} the other school you went to {else} [N16ASCH01]]? Do not include any months during which you are not taking classes, such as summer break. (If you attended for only a portion of any month, please include that month.) [{If COMPMODE = 0} Click on the months of attendance below.]

[else]

Between January 2015 and June 2015, in which months did you attend [{if N16ASCH01 = -9} the other school you went to {else} [N16ASCH01]]? Do not include any months during which you were not taking classes, such as summer break. (If you attended for only a portion of any month, please include that month.) [{If COMPMODE = 0} Click on the months of attendance below.]

January 2015

0 = Did not attend in January 2015

1 = Yes, attended in January 2015

Applies To: Respondents who attended one additional postsecondary institution in the 2014-15 academic year between January 2015 and June 2015.

Source: NPSAS:16 Field Test Student Interview

N16AFEB1501

Other school attendance 1: February 2015

[If TB4]JULY = 1]

Between January 2015 and June 2015, in which months have you attended, or do you expect to attend [{if N16ASCH01 = -9} the other school you went to {else} [N16ASCH01]]? Do not include any months during which you are not taking classes, such as summer break. (If you attended for only a portion of any month, please include that month.) [{If COMPMODE = 0} Click on the months of attendance below.]

[else]

Between January 2015 and June 2015, in which months did you attend [{if N16ASCH01 = -9} the other school you went to {else} [N16ASCH01]]? Do not include any months during which you were not taking classes, such as

summer break. (If you attended for only a portion of any month, please include that month.) [If COMPMODE = 0] Click on the months of attendance below.]

February 2015

0 = Did not attend in February 2015

1 = Yes, attended in February 2015

Applies To: Respondents who attended one additional postsecondary institution in the 2014-15 academic year between January 2015 and June 2015.

Source: NPSAS:16 Field Test Student Interview

N16AMAR1501

Other school attendance 1: March 2015

[If TB4]JULY = 1]

Between January 2015 and June 2015, in which months have you attended, or do you expect to attend [if N16ASCH01 = -9] the other school you went to {else} [N16ASCH01]]? Do not include any months during which you are not taking classes, such as summer break. (If you attended for only a portion of any month, please include that month.) [If COMPMODE = 0] Click on the months of attendance below.]

[else]

Between January 2015 and June 2015, in which months did you attend [if N16ASCH01 = -9] the other school you went to {else} [N16ASCH01]]? Do not include any months during which you were not taking classes, such as summer break. (If you attended for only a portion of any month, please include that month.) [If COMPMODE = 0] Click on the months of attendance below.]

March 2015

0 = Did not attend in March 2015

1 = Yes, attended in March 2015

Applies To: Respondents who attended one additional postsecondary institution in the 2014-15 academic year between January 2015 and June 2015.

Source: NPSAS:16 Field Test Student Interview

N16AAPR1501

Other school attendance 1: April 2015

[If TB4]JULY = 1]

Between January 2015 and June 2015, in which months have you attended, or do you expect to attend [if N16ASCH01 = -9] the other school you went to {else} [N16ASCH01]]? Do not include any months during which you are not taking classes, such as summer break. (If you attended for only a portion of any month, please include that month.) [If COMPMODE = 0] Click on the months of attendance below.]

[else]

Between January 2015 and June 2015, in which months did you attend [if N16ASCH01 = -9] the other school you went to {else} [N16ASCH01]]? Do not include any

months during which you were not taking classes, such as summer break. (If you attended for only a portion of any month, please include that month.) [If COMPMODE = 0] Click on the months of attendance below.]

April 2015

0 = Did not attend in April 2015

1 = Yes, attended in April 2015

Applies To: Respondents who attended one additional postsecondary institution in the 2014-15 academic year between January 2015 and June 2015.

Source: NPSAS:16 Field Test Student Interview

N16AMAY1501

Other school attendance 1: May 2015

[If TB4]JULY = 1]

Between January 2015 and June 2015, in which months have you attended, or do you expect to attend [if N16ASCH01 = -9] the other school you went to {else} [N16ASCH01]]? Do not include any months during which you are not taking classes, such as summer break. (If you attended for only a portion of any month, please include that month.) [If COMPMODE = 0] Click on the months of attendance below.]

[else]

Between January 2015 and June 2015, in which months did you attend [if N16ASCH01 = -9] the other school you went to {else} [N16ASCH01]]? Do not include any months during which you were not taking classes, such as summer break. (If you attended for only a portion of any month, please include that month.) [If COMPMODE = 0] Click on the months of attendance below.]

May 2015

0 = Did not attend in May 2015

1 = Yes, attended in May 2015

Applies To: Respondents who attended one additional postsecondary institution in the 2014-15 academic year between January 2015 and June 2015.

Source: NPSAS:16 Field Test Student Interview

N16AJUNE1501

Other school attendance 1: June 2015

[If TB4]JULY = 1]

Between January 2015 and June 2015, in which months have you attended, or do you expect to attend [if N16ASCH01 = -9] the other school you went to {else} [N16ASCH01]]? Do not include any months during which you are not taking classes, such as summer break. (If you attended for only a portion of any month, please include that month.) [If COMPMODE = 0] Click on the months of attendance below.]

[else]

Between January 2015 and June 2015, in which months did you attend [if N16ASCH01 = -9] the other school

you went to {else} [N16ASCH01]]? Do not include any months during which you were not taking classes, such as summer break. (If you attended for only a portion of any month, please include that month.) [If COMPMODE = 0] Click on the months of attendance below.]

June 2015

0 = Did not attend in June 2015

1 = Yes, attended in June 2015

Applies To: Respondents who attended one additional postsecondary institution in the 2014-15 academic year between January 2015 and June 2015.

Source: NPSAS:16 Field Test Student Interview

N16ASTS01

Other school attendance 1: enrollment intensity

During your months of enrollment at [if N16ASCH01 = -9] the other school you went to {else} [N16ASCH01] in the 2014-2015 school year (June 2014-July 2015), [if TB4JULY = 1 and N16AENRGT201 = 1 and [any future months of enrollment selected]] have you been or will you be {else if TB4JULY = 1} have you been {else} were you]...

1 = Full-time

2 = Part-time

3 = Equal mix of full-time and part-time

Applies To: Respondents who attended one additional postsecondary institution in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16A1EMX

Other school attendance 1: July 2014 - July 2015

Notes: This variable is a 12 character string that indicates the months the respondent was enrolled at other school 1 between the months of July 2014 through June 2015 and their monthly enrollment status. Each month is represented by one digit in the string, with July 2014 as the first digit and June 2015 as the final digit. "1" indicates the respondent was enrolled mainly full-time during that month. "2" indicates the respondent was enrolled mainly part-time during that month. "3" indicates the respondent was enrolled an equal mix of full-time and part-time during that month. "4" indicates the respondent was enrolled for that month, but did not indicate their enrollment status. "0" indicates the respondent was not enrolled for that month. "9" indicates the respondent did not provide months of enrollment. For example, a respondent enrolled full-time from August 2014 through May 2015 would have an enrollment string of 011111111110.

Applies To: Respondents who attended one additional postsecondary institution in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16ANEW01

Other school attendance 1: add'l attendance at other school in 2014-15

[If TB4JULY = 1]

You already told [if COMPMODE = 0] us {else} me] that you have attended the following schools since July 1, 2014:

[N16ASCH01]

Have you attended any other colleges, universities, or trade schools since July 1, 2014?

[else]

You already told [if COMPMODE = 0] us {else} me] that you attended the following schools between July 1, 2014 and June 30, 2015:

[N16ASCH01]

Did you attend any other colleges, universities, or trade schools between July 1, 2014 and June 30, 2015?

0 = Did not attend another postsecondary school

1 = Yes, attended another postsecondary school

Applies To: Respondents who attended one additional postsecondary institution in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

Loop 2 was not included in this facsimile.

N16ACMPDGN

Completed degree requirements

[If N16ANOATT = 1]

Earlier you indicated that you are no longer attending [NPSAS] because you completed the requirements for your [NPSAS program] at [NPSAS]. Is that correct?

[else]

Have you completed all the requirements for your [NPSAS program] at [NPSAS]?

0 = Did not complete degree requirements

1 = Yes, completed degree requirements

Applies To: Respondents in a degree program who were not currently attending NPSAS for reasons other than a break.

Source: NPSAS:16 Field Test Student Interview

N16ADGNMY

Date awarded degree at NPSAS

In what month and year were you awarded your [NPSAS program] from [NPSAS]?

Notes: N16ADGNMY is presented in YYYYMM format. Month values of 00 indicate a missing month.

Applies To: Respondents who completed their degree at NPSAS.

Source: NPSAS:16 Field Test Student Interview

N16ADGNNO

Date awarded degree at NPSAS: have not been awarded degree
In what month and year were you awarded your [NPSAS program] from [NPSAS]?

Have not yet been awarded [NPSAS program]

0 = Provided date awarded degree

1 = Not yet awarded degree

Applies To: Respondents who completed their degree at NPSAS.

Source: NPSAS:16 Field Test Student Interview

N16AFRSTGRD

First graduate-level degree at NPSAS

[If TCURENR = 1]

Is this [NPSAS program] your first graduate-level degree at [NPSAS]?

[else]

Was this [NPSAS program] your first graduate-level degree at [NPSAS]?

0 = Not first graduate-level degree at NPSAS

1 = Yes, first graduate-level degree at NPSAS

Applies To: Graduate respondents who completed their degree at NPSAS.

Source: NPSAS:16 Field Test Student Interview

N16AUGYR

Undergraduate year or level at NPSAS

[If TCURENR = 1]

Based on the number of credits you've already earned, what is your year or level at [NPSAS]?

[else]

Based on the number of credits you earned, what was your year or level when you last attended [NPSAS] in the 2014-2015 school year?

1 = First year or freshman

2 = Second year or sophomore

3 = Third year or junior

4 = Fourth year or senior

5 = Fifth year or higher undergraduate

6 = Unclassified undergraduate

7 = Graduate student taking undergraduate

classes

Applies To: Undergraduate respondents in a degree program who had not completed degree requirements.

Source: NPSAS:16 Field Test Student Interview

N16AGRYR

Graduate year at NPSAS

[If TCURENR = 1]

What year of your [NPSAS program] are you working on at [NPSAS]?

[else]

What year of your [NPSAS program] were you working on when you last attended [NPSAS] in the 2014-2015 school year?

8 = First year

9 = Second year

10 = Third year

11 = Fourth year

12 = Fifth year

13 = Sixth year or higher

Applies To: Graduate respondents in a degree program who had not completed degree requirements.

Source: NPSAS:16 Field Test Student Interview

N16AEXNMY

Date expected to complete degree requirements

In what month and year do you expect to complete the requirements for your [NPSAS program]?

Notes: N16AEXNMY is presented in YYYYMM format.

Month values of 00 indicate a missing month.

Applies To: Respondents in a degree program who had not completed degree requirements.

Source: NPSAS:16 Field Test Student Interview

N16AEXPXN

Date expected to complete degree requirements: will not finish degree

In what month and year do you expect to complete the requirements for your [NPSAS program]?

Will not finish the [NPSAS program]

0 = Expected to finish pursued degree

1 = Did not expect to finish pursued degree

Applies To: Respondents in a degree program who had not completed degree requirements.

Source: NPSAS:16 Field Test Student Interview

N16AEXPDK

Date expected to complete degree requirements: don't know

In what month and year do you expect to complete the requirements for your [NPSAS program]?

Don't know

0 = Expected completion date provided

1 = Don't know expected completion date

Applies To: Respondents in a degree program who had not completed degree requirements.

Source: NPSAS:16 Field Test Student Interview

N16ABBELIG

B&B eligibility

Notes: N16ABBELIG is a calculated variable that indicates the respondent's B&B eligibility status.

If N16ADGBA = 1 and (N16ADGPB = 1 or

N16ADGMA = 1 or N16ADGPM = 1 or

N16ADGDRR = 1 or N16ADGDRPP = 1 or

N16ADGDROT = 1) and N16AUGSTVER = 0 and N16AASENR ne 1 then N16ABBELIG = 1;
 else if (TDEGREE = 4 or N16ADGBA = 1) and N16AASENR ne 1 and N16ACMPDGN = 1 and (N16ADGNMY >= 201407 and N16ADGNMY <= 201506) then N16ABBELIG = 1;
 else if (TDEGREE = 4 or N16ADGBA = 1) and N16AASENR ne 1 and (N16AEXNMY >= 201407 and N16AEXNMY <= 201506) then N16ABBELIG = 1;
 else if N16APRDG = 1 and N16AOTBA = 1 and (N16APRBY >= 201407 and N16APRBY <= 201506) then N16ABBELIG = 1;
 else N16ABBELIG = 0.

0 = Not B&B eligible

1 = Yes, B&B eligible

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16ADOBMY

Date of birth

So that we can customize your interview, in what month and year were you born?

Notes: N16ADOBMY is presented in YYYYMM format. Month values of 00 indicate a missing month.

Recode note: If [preloaded date of birth not missing] and ([preloaded date of birth >= 199900] or [preloaded date of birth < 192400]) then N16ADOBMY = [preloaded date of birth].

Applies To: Respondents with a missing date of birth or an out of range preloaded date of birth.

Source: NPSAS:16 Field Test Student Interview

N16ALT30

Categorical ranges of age

What is your age range? Are you...

1 = Under 24 years old

2 = 24-29 years old

3 = 30 years or older

4 = Under 18 years old

Applies To: Respondents who did not report date of birth.

Source: NPSAS:16 Field Test Student Interview

TAGE

Age of December 31, 2014

Notes: TAGE is a calculated variable that indicates the respondent's age as of December 31, 2014 based on N16ADOBMY and N16AALT30.

If N16ADOBMY ne missing then TAGE = (2014 - year of N16ADOBMY);

else if N16ADOBMY = -9 and N16ALT30 = 4 then TAGE = 17;

else if N16ADOBMY = -9 and N16ALT30 = 1 then TAGE = 21;

else if N16ADOBMY = -9 and N16ALT30 = 2 then TAGE = 26;

else if N16ADOBMY = -9 and N16ALT30 = 3 then TAGE = 31;

else TAGE = 21;

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16AMARR

Current marital status

[If [preloaded date of birth] ne -9]

So that we can customize your survey, please answer the following questions. What is your current marital status?

[else]

What is your current marital status?

1 = Single, never married

2 = Married

3 = Separated

4 = Divorced

5 = Widowed

6 = Living with partner in marriage-like relationship

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16AGENDR

Gender

Are you male or female?

1 = Male

2 = Female

Applies To: Respondents who did not have preloaded gender information.

Source: NPSAS:16 Field Test Student Interview

N16BAPEXP

Group 1: took AP courses while in high school

Next, we have some questions regarding your education experiences. While in high school, did you take any Advanced Placement (AP) courses?

0 = Did not take AP courses in high school

1 = Yes, took AP courses in high school

Applies To: Undergraduate respondents who were in experiment group 1.

Source: NPSAS:16 Field Test Student Interview

N16BIBEXP

Group 1: took IB courses while in high school

While in high school, did you take any International Baccalaureate (IB) courses?

0 = Did not take IB courses in high school

1 = Yes, took IB courses in high school

Applies To: Undergraduate respondents who were in experiment group 1.

Source: NPSAS:16 Field Test Student Interview

N16BCOLLEXP

Group 1: took college-level courses while in high school

While in high school, did you take any college-level courses, not including AP or IB, for which you earned college credit?

0 = Did not take college-level courses in high school

1 = Yes, took college-level courses in high school

Applies To: Undergraduate respondents who were in experiment group 1.

Source: NPSAS:16 Field Test Student Interview

N16BAP

Group 2: took AP courses while in high school

Next, we have some questions regarding your education experiences. While in high school, did you take any... Advanced Placement (AP) courses?

0 = Did not take AP courses in high school

1 = Yes, took AP courses in high school

Applies To: Undergraduate respondents who were in experiment group 2.

Source: NPSAS:16 Field Test Student Interview

N16BIB

Group 2: took IB courses while in high school

Next, we have some questions regarding your education experiences. While in high school, did you take any... International Baccalaureate (IB) courses?

0 = Did not take IB courses in high school

1 = Yes, took IB courses in high school

Applies To: Undergraduate respondents who were in experiment group 2.

Source: NPSAS:16 Field Test Student Interview

N16BCOLL

Group 2: took college-level courses while in high school

Next, we have some questions regarding your education experiences. While in high school, did you take any... College-level courses, not including AP or IB, for which you earned college credit?

0 = Did not take college-level courses in high school

1 = Yes, took college-level courses in high school

Applies To: Undergraduate respondents who were in experiment group 2.

Source: NPSAS:16 Field Test Student Interview

N16BGPATYP

GPA at NPSAS measured on 4.00 scale

[If TCURENR = 1]

Now, we have some questions focusing on your experiences at [NPSAS]. Is your grade point average (GPA) at [NPSAS] measured on a 4.00 scale?

[else]

Now, we have some questions focusing on your experiences at [NPSAS]. Was your grade point average (GPA) at [NPSAS] measured on a 4.00 scale?

0 = GPA not measured on 4.00 scale

1 = Yes, GPA measured on 4.00 scale

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16BGPA

Cumulative GPA at NPSAS

[If TCURENR = 1]

What is your cumulative GPA in all classes at [NPSAS]? [else]

What was your cumulative GPA in all classes at [NPSAS] through the end of your most recent term there?

Applies To: Respondents who indicated their GPA was on a 4.00 scale.

Source: NPSAS:16 Field Test Student Interview

N16BGPANO

Cumulative GPA at NPSAS: no GPA earned yet

[If TCURENR = 1]

What is your cumulative GPA in all classes at [NPSAS]? [else]

What was your cumulative GPA in all classes at [NPSAS] through the end of your most recent term there?

Not applicable, have not yet earned GPA

0 = GPS has been earned

1 = GPA not earned yet

Applies To: Respondents who indicated their GPA was on a 4.00 scale.

Source: NPSAS:16 Field Test Student Interview

N16BGPAEST

Estimate of GPA at NPSAS

[If N16GPATYP = 0 and TCURENR = 1]

You just indicated that your grade point average at [NPSAS] is not measured on a 4.0 scale. Are you able to say whether your grades are similar to...

[else if N16GPATYP = 0]

You just indicated that your grade point average was not measured on a 4.0 scale. Are you able to say whether your grades when you last attended [NPSAS] in the 2014-2015 school year were similar to...

[else if TCURENR = 1]

Overall, which best describes your grades at [NPSAS]?

[else]

Overall, which best describes your grades at [NPSAS] when you last attended there in the 2014-2015 school year?

- 1 = Mostly A's (3.75 and above)
- 2 = A's and B's (3.25-3.75)
- 3 = Mostly B's (2.75-3.24)
- 4 = B's and C's (2.25-2.74)
- 5 = Mostly C's (1.75-2.24)
- 6 = C's and D's (1.25-1.74)
- 7 = Mostly D's or below (1.24 or below)
- 8 = Don't know my grades
- 9 = Other type of grades

Applies To: Respondents whose GPA was not measured on a 4.00 scale and respondents who did not provide a response to cumulative GPA.

Source: NPSAS:16 Field Test Student Interview

N16BALLONLIN

Any classes at NPSAS entirely online in 2014-15 academic year
In the 2014-2015 school year, were any of your classes at [NPSAS] taught entirely online?

- 0 = No classes taught entirely online
- 1 = Yes, class taught entirely online

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16BONLINEP

Entire program at NPSAS entirely online in 2014-15 academic year

[If TCURENR = 1]

Is your entire [NPSAS program] program at [NPSAS] online?

[else]

When you last attended [NPSAS] during the 2014-2015 school year, was your entire [NPSAS program] program online?

- 0 = Entire program was not online
- 1 = Yes, entire program was online

Applies To: Respondents in a degree program who took any classes at NPSAS entirely online during the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16BGRDAPP

Applied to graduate school

Have you applied to graduate school? (If you are in the process of applying, please select "Yes.")

- 0 = Did not apply to graduate school
- 1 = Yes, applied to graduate school

Applies To: B&B-eligible respondents.

Source: NPSAS:16 Field Test Student Interview

N16BGRDPLN

Likelihood of applying to graduate school within next 12 months

What is the likelihood that you will apply to graduate school within the next 12 months? Are you...

- 1 = Very unlikely
- 2 = Somewhat unlikely
- 3 = Neither unlikely nor likely
- 4 = Somewhat likely
- 5 = Very likely

Applies To: B&B-eligible respondents who had not applied to graduate school.

Source: NPSAS:16 Field Test Student Interview

N16BNOGDACD

Reason will not apply to graduate school in next 12 months: academic

Why have you decided not to apply to graduate school in the next 12 months? Was it for...

Academic reasons (no interest, grades, etc.)

- 0 = Not academic reasons
- 1 = Yes, academic reasons

Applies To: B&B-eligible respondents who had not applied to graduate school and were somewhat unlikely or very unlikely to apply to graduate school within the next 12 months.

Source: NPSAS:16 Field Test Student Interview

N16BNOGDFIN

Reason will not apply to graduate school in next 12 months: financial

Why have you decided not to apply to graduate school in the next 12 months? Was it for...

Financial reasons (insufficient financial aid, can't afford to go, etc.)

- 0 = Not financial reasons
- 1 = Yes, financial reasons

Applies To: B&B-eligible respondents who had not applied to graduate school and were somewhat unlikely or very unlikely to apply to graduate school within the next 12 months.

Source: NPSAS:16 Field Test Student Interview

N16BNOGDEMP

Reason will not apply to graduate school in next 12 months: employment

Why have you decided not to apply to graduate school in the next 12 months? Was it for...

Employment reasons (working now, not necessary for current career, etc.)

- 0 = Not employment reasons
- 1 = Yes, employment reasons

Applies To: B&B-eligible respondents who had not applied to graduate school and were somewhat unlikely or very unlikely to apply to graduate school within the next 12 months.

Source: NPSAS:16 Field Test Student Interview

N16BNOGDOTH

Reason will not apply to graduate school in next 12 months: other
Why have you decided not to apply to graduate school in the next 12 months? Was it for...

Other

0 = Not other reasons

1 = Yes, other reasons

Applies To: B&B-eligible respondents who had not applied to graduate school and were somewhat unlikely or very unlikely to apply to graduate school within the next 12 months.

Source: NPSAS:16 Field Test Student Interview

N16BNOGRPACD

Reason did not apply to graduate school: academic

Why have you decided not to apply to graduate school yet? Is it for...

Academic reasons (no interest, grades, etc.)

0 = Not academic reasons

1 = Yes, academic reasons

Applies To: B&B-eligible respondents who had not applied to graduate school and were somewhat likely or very likely to apply to graduate school within the next 12 months.

Source: NPSAS:16 Field Test Student Interview

N16BNOGRPFIN

Reason did not apply to graduate school: financial

Why have you decided not to apply to graduate school yet? Is it for...

Financial reasons (insufficient financial aid, can't afford to go, etc.)

0 = Not financial reasons

1 = Yes, financial reasons

Applies To: B&B-eligible respondents who had not applied to graduate school and were somewhat likely or very likely to apply to graduate school within the next 12 months.

Source: NPSAS:16 Field Test Student Interview

N16BNOGRPEMP

Reason did not apply to graduate school: employment

Why have you decided not to apply to graduate school yet? Is it for...

Employment reasons (working now, not necessary for current career, etc.)

0 = Not employment reasons

1 = Yes, employment reasons

Applies To: B&B-eligible respondents who had not applied to graduate school and were somewhat likely or very likely to apply to graduate school within the next 12 months.

Source: NPSAS:16 Field Test Student Interview

N16BNOGRPOTH

Reason did not apply to graduate school: other

Why have you decided not to apply to graduate school yet? Is it for...

Other

0 = Not other reasons

1 = Yes, other reasons

Applies To: B&B-eligible respondents who had not applied to graduate school and were somewhat likely or very likely to apply to graduate school within the next 12 months.

Source: NPSAS:16 Field Test Student Interview

N16BGRDATND

Likelihood will attend graduate school within next 12 months

What is the likelihood that you will attend graduate school within the next 12 months? Are you...

1 = Very unlikely

2 = Somewhat unlikely

3 = Neither unlikely nor likely

4 = Somewhat likely

5 = Very likely

Applies To: B&B-eligible respondents, except those who had not applied to graduate school and were not somewhat likely or very likely to apply to graduate school within the next 12 months.

Source: NPSAS:16 Field Test Student Interview

N16CAIDFELL1

Undergraduate aid 2014-15: fellowship

Next, we have some questions about how you paid for your education. Which of the following did you receive or use to pay for your education in the 2014-2015 school year?

Fellowship

0 = Did not receive a fellowship

1 = Received a fellowship

Applies To: Undergraduate respondents.

Source: NPSAS:16 Field Test Student Interview

N16CAIDPRV1

Undergraduate aid 2014-15: scholarship from private organization

Next, we have some questions about how you paid for your education. Which of the following did you receive or use to pay for your education in the 2014-2015 school year?

Scholarship(s) from a private organization

0 = Did not receive scholarship from private

org

1 = Received scholarship from private org

Applies To: Undergraduate respondents.

Source: NPSAS:16 Field Test Student Interview

N16CAIDGRT1

Undergraduate aid 2014-15: grants or scholarship from government/NPSAS

Next, we have some questions about how you paid for your education. Which of the following did you receive or

use to pay for your education in the 2014-2015 school year?

Grants or scholarships from the government or [NPSAS]

- 0 = Did not receive grant from government or NPSAS
1 = Received grant from government or NPSAS

Applies To: Undergraduate respondents.

Source: NPSAS:16 Field Test Student Interview

N16CAIDWKST1

Undergraduate aid 2014-15: work-study

Next, we have some questions about how you paid for your education. Which of the following did you receive or use to pay for your education in the 2014-2015 school year?

Work-study

- 0 = Did not have a work-study job
1 = Had a work-study job

Applies To: Undergraduate respondents.

Source: NPSAS:16 Field Test Student Interview

N16CAIDLOAN1

Undergraduate aid 2014-15: loans

Next, we have some questions about how you paid for your education. Which of the following did you receive or use to pay for your education in the 2014-2015 school year?

Loans (from any source)

- 0 = Did not take out loans (from any source)
1 = Took out loans (from any source)

Applies To: Undergraduate respondents.

Source: NPSAS:16 Field Test Student Interview

N16CAIDEARN1

Undergraduate aid 2014-15: earnings from employment

Next, we have some questions about how you paid for your education. Which of the following did you receive or use to pay for your education in the 2014-2015 school year?

Earnings from employment (other than work-study)

- 0 = Did not use earnings from employment
1 = Used earnings from employment

Applies To: Undergraduate respondents.

Source: NPSAS:16 Field Test Student Interview

N16CAIDFAM1

Undergraduate aid 2014-15: parents/family/friends financial assistance

Next, we have some questions about how you paid for your education. Which of the following did you receive or use to pay for your education in the 2014-2015 school year?

Financial assistance from your [if N16AMARR = 2} spouse,] parents or guardians, friends, or family

- 0 = Did not receive financial assistance from family
1 = Received financial assistance from family

Applies To: Undergraduate respondents.

Source: NPSAS:16 Field Test Student Interview

N16CAIDEMP1

Undergraduate aid 2014-15: employer financial assistance

Next, we have some questions about how you paid for your education. Which of the following did you receive or use to pay for your education in the 2014-2015 school year?

[If TAGE < 24]

Financial assistance from your employer or from your parents' or guardians' employer

[else]

Financial assistance from your employer

- 0 = Did not receive employer financial assistance
1 = Received employer financial assistance

Applies To: Undergraduate respondents.

Source: NPSAS:16 Field Test Student Interview

N16CAIDVET1

Undergraduate aid 2014-15: Veterans education benefits

Next, we have some questions about how you paid for your education. Which of the following did you receive or use to pay for your education in the 2014-2015 school year?

Veterans education benefits

- 0 = Did not receive Veterans education benefits
1 = Received Veterans education benefits

Applies To: Undergraduate respondents.

Source: NPSAS:16 Field Test Student Interview

N16CAIDOTH1

Undergraduate aid 2014-15: other source of aid

Next, we have some questions about how you paid for your education. Which of the following did you receive or use to pay for your education in the 2014-2015 school year?

Other source

- 0 = Did not receive aid from other source
1 = Received aid from other source

Applies To: Undergraduate respondents.

Source: NPSAS:16 Field Test Student Interview

N16CAIDFELL2

Graduate aid 2014-15: fellowship

Next, we have some questions about how you paid for your education. Which of the following did you receive or

use to pay for your education in the 2014-2015 school year?

Fellowship

0 = Did not receive a fellowship

1 = Received a fellowship

Applies To: Graduate respondents.

Source: NPSAS:16 Field Test Student Interview

N16CAIDPRV2

Graduate aid 2014-15: scholarship from private organization

Next, we have some questions about how you paid for your education. Which of the following did you receive or use to pay for your education in the 2014-2015 school year?

Scholarship(s) from a private organization

0 = Did not receive scholarship from private

org

1 = Received scholarship from private org

Applies To: Graduate respondents.

Source: NPSAS:16 Field Test Student Interview

N16CAIDGRT2

Graduate aid 2014-15: grants or scholarship from government/NPSAS

Next, we have some questions about how you paid for your education. Which of the following did you receive or use to pay for your education in the 2014-2015 school year?

Grants or scholarships from the government or [NPSAS]

0 = Did not receive grant from government or

NPSAS

1 = Received grant from government or NPSAS

Applies To: Graduate respondents.

Source: NPSAS:16 Field Test Student Interview

N16CAIDAST2

Graduate aid 2014-15: assistantships

Next, we have some questions about how you paid for your education. Which of the following did you receive or use to pay for your education in the 2014-2015 school year?

Assistantship(s)

0 = Did not have an assistantship

1 = Had an assistantship

Applies To: Graduate respondents.

Source: NPSAS:16 Field Test Student Interview

N16CAIDTSH2

Graduate aid 2014-15: traineeship

Next, we have some questions about how you paid for your education. Which of the following did you receive or use to pay for your education in the 2014-2015 school year?

Traineeship

0 = Did not have a traineeship

1 = Had a traineeship

Applies To: Graduate respondents.

Source: NPSAS:16 Field Test Student Interview

N16CAIDINT2

Graduate aid 2014-15: internship, clinical residency

Next, we have some questions about how you paid for your education. Which of the following did you receive or use to pay for your education in the 2014-2015 school year?

Internship, clinical residency

0 = Did not have an internship, clinical

residency

1 = Had an internship, clinical residency

Applies To: Graduate respondents.

Source: NPSAS:16 Field Test Student Interview

N16CAIDLOAN2

Graduate aid 2014-15: loans

Next, we have some questions about how you paid for your education. Which of the following did you receive or use to pay for your education in the 2014-2015 school year?

Loans (from any source)

0 = Did not take out loans (from any source)

1 = Took out loans (from any source)

Applies To: Graduate respondents.

Source: NPSAS:16 Field Test Student Interview

N16CAIDEARN2

Graduate aid 2014-15: earnings from employment

Next, we have some questions about how you paid for your education. Which of the following did you receive or use to pay for your education in the 2014-2015 school year?

Earnings from employment (other than sources listed here)

0 = Did not use earnings from employment

1 = Used earnings from employment

Applies To: Graduate respondents.

Source: NPSAS:16 Field Test Student Interview

N16CAIDFAM2

Graduate aid 2014-15: parents/family/friends financial assistance

Next, we have some questions about how you paid for your education. Which of the following did you receive or use to pay for your education in the 2014-2015 school year?

Financial assistance from your [if N16AMARR = 2] spouse,] parents or guardians, friends, or family

0 = Did not receive financial assistance from family

1 = Received financial assistance from family

Applies To: Graduate respondents.

Source: NPSAS:16 Field Test Student Interview

N16CAIDEMP2

Graduate aid 2014-15: employer financial assistance

Next, we have some questions about how you paid for your education. Which of the following did you receive or use to pay for your education in the 2014-2015 school year?

Financial assistance from your employer

0 = Did not receive employer financial assistance

1 = Received employer financial assistance

Applies To: Graduate respondents.

Source: NPSAS:16 Field Test Student Interview

N16CAIDFOR2

Graduate aid 2014-15: foreign support

Next, we have some questions about how you paid for your education. Which of the following did you receive or use to pay for your education in the 2014-2015 school year?

Foreign (non-U.S.) support

0 = Did not receive foreign support

1 = Received foreign support

Applies To: Graduate respondents.

Source: NPSAS:16 Field Test Student Interview

N16CAIDVET2

Graduate aid 2014-15: Veterans education benefits

Next, we have some questions about how you paid for your education. Which of the following did you receive or use to pay for your education in the 2014-2015 school year?

Veterans education benefits

0 = Did not receive Veterans education benefits

1 = Received Veterans education benefits

Applies To: Graduate respondents.

Source: NPSAS:16 Field Test Student Interview

N16CAIDOTH2

Graduate aid 2014-15: other source of aid

Next, we have some questions about how you paid for your education. Which of the following did you receive or use to pay for your education in the 2014-2015 school year?

Other source

0 = Did not receive aid from other source

1 = Received aid from other source

Applies To: Graduate respondents.

Source: NPSAS:16 Field Test Student Interview

N16CFELLAMT

Aid amount: fellowship

Thinking only of the 2014-2015 school year, what was the total amount you received in... (If you are unsure of the amount(s), please provide your best guess.)

A fellowship

Applies To: Respondents who received a fellowship.

Source: NPSAS:16 Field Test Student Interview

N16CPRVGTAMT

Aid amount: scholarships from private organizations

Thinking only of the 2014-2015 school year, what was the total amount you received in... (If you are unsure of the amount(s), please provide your best guess.)

Scholarships from private organizations

Applies To: Respondents who received a scholarship from a private organization.

Source: NPSAS:16 Field Test Student Interview

N16CEMPGTAMT

Aid amount: employer financial assistance

Thinking only of the 2014-2015 school year, what was the total amount you received in... (If you are unsure of the amount(s), please provide your best guess.)

[If N16CAIDEMP1 = 1 and TAGE < 24]

Financial assistance from your employer or from your parents' or guardians' employer

[else]

Financial assistance from your employer

Applies To: Respondents who received employer financial assistance.

Source: NPSAS:16 Field Test Student Interview

N16CVETAMT

Aid amount: Veterans education benefits

Thinking only of the 2014-2015 school year, what was the total amount you received in... (If you are unsure of the amount(s), please provide your best guess.)

Veterans education benefits

Applies To: Respondents who received Veterans education benefits.

Source: NPSAS:16 Field Test Student Interview

TOTAIDAMT

Total aid amount from fellowships, priv scholarships, emp aid, Vet ben

Notes: TOTAIDAMT is a calculated variable comprised of the total amount of fellowships, scholarships from private organizations, employer financial assistance, and Veterans education benefits reported by a respondent in the interview.

TOTAIDAMT = ([{if N16CAIDFELL1 = 1 or N16CAIDFELL2 = 1} [N16CFELLAMT] {else} 0] + [{if N16CAIDPRV1 = 1 or N16CAIDPRV2 = 1} [N16CPRVGTAMT] {else} 0] + [{if N16CAIDEMP1 = 1 or N16CAIDEMP2 = 1} [N16CEMPGTAMT] {else} 0] + [{if N16CAIDVET1 = 1 or N16CAIDVET2 = 1} [N16CVETAMT] {else} 0])

Applies To: Respondents who reported an amount received of fellowships, private scholarships, employer assistance, or Veterans benefits.

Source: NPSAS:16 Field Test Student Interview

N16CTUIPROP

Proportion of tuition covered

Was all, some, or none of your tuition covered by this [TOTAIDAMT]?

0 = None

1 = All

2 = Some

Applies To: Respondents who reported an amount received of fellowships, private scholarships, employer assistance, or Veterans benefits.

Source: NPSAS:16 Field Test Student Interview

N16CTUIRCPT

Method of receiving aid

Did you receive the [TOTAIDAMT] directly, or did the aid go directly to [NPSAS]?

1 = Received the aid directly

2 = The aid went directly to NPSAS

3 = Some of both

Applies To: Respondents who reported an amount received of fellowships, private scholarships, employer assistance, or Veterans benefits.

Source: NPSAS:16 Field Test Student Interview

N16CFEDLN

Took out federal loans in 2014-15 academic year

Thinking only about the 2014-2015 school year, did you take out any federal student loans? (Federal student loans include subsidized and unsubsidized Direct Loans [also known as Stafford Loans], Perkins Loans, and graduate student PLUS Loans, but do not include parent PLUS Loans.)

0 = Did not take out federal loans

1 = Yes, took out federal loans

Applies To: Respondents who took out loans (from any source) in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16CFEDAMT

Amount borrowed in federal loans in 2014-15 academic year

For the 2014-2015 school year, how much did you borrow in federal student loans? Do not include any

money borrowed in private loans or any money borrowed from family or friends in your answer. (If you are unsure of the amount of your federal student loans, please provide your best guess.)

Applies To: Respondents who took out federal student loans in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16CFEDEST

Estimated amount borrowed in federal loans in 2014-15 academic year

For the 2014-2015 school year only, please indicate the range for how much you borrowed in federal student loans. Would you say it was...

1 = Less than \$4,000

2 = \$4,000 - \$7,999

3 = \$8,000 - \$9,999

4 = \$10,000 - \$12,999

5 = \$13,000 - \$15,999

6 = \$16,000 - \$19,999

7 = \$20,000 or more

8 = Don't know

Applies To: Respondents who took out federal student loans in the 2014-15 academic year and did not provide an amount.

Source: NPSAS:16 Field Test Student Interview

N16CPRVLN

Took out private loans in 2014-15 academic year

Thinking only about the 2014-2015 school year, did you take out any private loans borrowed from a private lender? (Private loans are borrowed from a private lender such as a bank or sometimes a state, usually require a co-signer, and have market interest rates based on credit history. Click here for examples of private loans).

0 = Did not take out private loans

1 = Yes, took out private loans

Applies To: Respondents who took out loans (from any source) in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16CPRVAMT

Amount borrowed in private loans in 2014-15 academic year

For the 2014-2015 school year, how much did you borrow in private loans? Do not include any money borrowed in federal loans or any money borrowed from family or friends in your answer. (If you are unsure of the amount of your private loans, please provide your best guess.)

Applies To: Respondents who took out private student loans in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16CPRVEST

Estimated amount borrowed in private loans in 2014-15 academic year

For the 2014-2015 school year, please indicate the range for how much you borrowed in private loans. Would you say it was...

- 1 = Less than \$3,000
- 2 = \$3,000 - \$6,999
- 3 = \$7,000 - \$9,999
- 4 = \$10,000 - \$12,999
- 5 = \$13,000 - \$15,999
- 6 = \$16,000 - \$19,999
- 7 = \$20,000 or more
- 8 = Don't know

Applies To: Respondents who took out private loans in the 2014-15 academic year and did not provide an amount.

Source: NPSAS:16 Field Test Student Interview

N16CASNOW

Approve of AssistNow loan program

Do you approve or disapprove of the AssistNow loan program?

- 1 = Approve
- 2 = Disapprove
- 3 = Don't know

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16DANYJOB

Worked for pay at any time in 2014-15 academic year

[If N16CAIDAST2 = 1 or N16CAIDTSH2 = 1]

Other than your [assistantship or traineeship], [if TB4JULY = 1] have you worked {else} did you work for pay at any time [if TB4JULY = 1] since July 2014 {else} between July 2014 and June 2015? When thinking about paid jobs, please include any self-employment [if N16CAIDWKST1 = 1], work-study jobs, and paid internships.

[else]

[If TB4JULY = 1] Have you worked {else} Did you work for pay at any time [if TB4JULY = 1] since July 2014 {else} between July 2014 and June 2015? When thinking about paid jobs, please include any self-employment [if N16CAIDWKST1 = 1], work-study jobs, and paid internships.

0 = Did not work for pay in the 2014-15 academic year

1 = Yes, worked for pay in the 2014-15 academic year

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16DEVRTCH

Ever employed as K-12 teacher

Have you ever been employed as a K-12 teacher?

- 0 = Had never been employed as a K-12 teacher
- 1 = Yes, was employed as a K-12 teacher
- 2 = Yes, currently employed as a K-12 teacher

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16DCONSID

Considering teaching at K-12 level now or in the future

Are you considering teaching at the K-12 level now or in the future?

- 0 = Not considering teaching
- 1 = Yes, considering teaching

Applies To: All respondents, except those currently employed as a K-12 teacher.

Source: NPSAS:16 Field Test Student Interview

N16DTCHLIKE

Likelihood of teaching at K-12 level now or in the future

What is the likelihood that you will teach at the K-12 level now or in the future? Are you...

- 1 = Very unlikely
- 2 = Somewhat unlikely
- 3 = Neither unlikely nor likely
- 4 = Somewhat likely
- 5 = Very likely

Applies To: Respondents considering teaching at K-12 level now or in the future, except those currently employed as a K-12 teacher.

Source: NPSAS:16 Field Test Student Interview

N16DPREPAPP

To prepare for teacher certification: applied to teacher education program

Which of the following steps have you taken to prepare for a state-issued teaching certificate at the K-12 level?

Applied to teacher education program

0 = Did not apply to a teacher education program

1 = Yes, applied to a teacher education program

Applies To: Respondents considering teaching at K-12 level now or in the future.

Source: NPSAS:16 Field Test Student Interview

N16DPREPRX

To prepare for teacher certification: took Praxis exam(s)

Which of the following steps have you taken to prepare for a state-issued teaching certificate at the K-12 level?

Taken one or more Praxis exams

0 = Did not take one or more Praxis exam

1 = Yes, took one or more Praxis exam

Applies To: Respondents considering teaching at K-12 level now or in the future.

Source: NPSAS:16 Field Test Student Interview

N16DPREPENT

To prepare for teacher certification: entered teacher edu program

Which of the following steps have you taken to prepare for a state-issued teaching certificate at the K-12 level?

Entered teacher education program

0 = Did not enter teacher education program

1 = Yes, entered teacher education program

Applies To: Respondents considering teaching at K-12 level now or in the future.

Source: NPSAS:16 Field Test Student Interview

N16DPREPCOR

To prepare for teacher certification: took courses in teacher theory

Which of the following steps have you taken to prepare for a state-issued teaching certificate at the K-12 level?

Taken courses in teaching theory or methods

0 = Did not take courses in teaching theory

1 = Yes, took courses in teaching theory

Applies To: Respondents considering teaching at K-12 level now or in the future.

Source: NPSAS:16 Field Test Student Interview

N16DPREPEXM

To prepare for teacher certification: took teacher entry/exit exam

Which of the following steps have you taken to prepare for a state-issued teaching certificate at the K-12 level?

Taken other exam to enter or exit teacher education program

0 = Did not take teacher entry or exit exam

1 = Yes, took teacher entry or exit exam

Applies To: Respondents considering teaching at K-12 level now or in the future.

Source: NPSAS:16 Field Test Student Interview

N16DPREPCOMP

To prepare for teacher certification: completed student teaching

Which of the following steps have you taken to prepare for a state-issued teaching certificate at the K-12 level?

Completed student teaching assignment

0 = Did not complete student teaching

1 = Yes, completed student teaching

Applies To: Respondents considering teaching at K-12 level now or in the future.

Source: NPSAS:16 Field Test Student Interview

N16DPREPNTRD

To prepare for teacher certification: applied to non-trad teacher prog

Which of the following steps have you taken to prepare for a state-issued teaching certificate at the K-12 level?

Applied to non-traditional teacher education program

0 = Did not apply to nontraditional teaching

program

1 = Yes, applied to nontraditional teaching

program

Applies To: Respondents considering teaching at K-12 level now or in the future.

Source: NPSAS:16 Field Test Student Interview

N16DPREPNONE

To prepare for teacher certification: none of the above

Which of the following steps have you taken to prepare for a state-issued teaching certificate at the K-12 level?

None of these

0 = Yes, took at least one step listed to prepare

1 = Did not take any steps listed to prepare

Applies To: Respondents considering teaching at K-12 level now or in the future.

Source: NPSAS:16 Field Test Student Interview

N16DHLPOTH

Nonmonetary benefits of education: helping others

Salary may be only one part of why people choose a job.

Compared to the salary, how important is each of the following to you?

Helping others as part of your job

1 = Less important than salary

2 = As important as salary

3 = More important than salary

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16DEXPFLD

Nonmonetary benefits of education: being seen as expert in your field

Salary may be only one part of why people choose a job.

Compared to the salary, how important is each of the following to you?

Being seen as an expert in your field

1 = Less important than salary

2 = As important as salary

3 = More important than salary

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16DWRKTSKS

Nonmonetary benefits of education: making own decisions on work

Salary may be only one part of why people choose a job.

Compared to the salary, how important is each of the following to you?

Making your own decisions about how to get your work done

1 = Less important than salary

2 = As important as salary

3 = More important than salary

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16DLEISTIME

Nonmonetary benefits of education: balancing work and leisure time

Salary may be only one part of why people choose a job.

Compared to the salary, how important is each of the following to you?

Balancing work and leisure time

1 = Less important than salary

2 = As important as salary

3 = More important than salary

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16DFAMTIM

Nonmonetary benefits of education: balancing work and family

Salary may be only one part of why people choose a job.

Compared to the salary, how important is each of the following to you?

Balancing work and family

1 = Less important than salary

2 = As important as salary

3 = More important than salary

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16EINCOM

Respondent's income in 2014

[If N16AMARR = 2]

Not including your spouse's income, what was your income for calendar year 2014 prior to taxes and deductions? (Calendar year 2014 includes January 1, 2014 through December 31, 2014. Include all income you paid taxes on, including work, investment income, or alimony. Do not include any grants or loans you may have used to pay for school, or any money given to you by your family.)

[else]

What was your income for calendar year 2014, prior to taxes and deductions? (Calendar year 2014 includes January 1, 2014 through December 31, 2014. Include all income you paid taxes on, including work, investment income, or alimony. Do not include any grants or loans you may have used to pay for school, or any money given to you by your family.)

1 = No income

2 = Less than \$5,000

3 = \$5,000 - \$9,999

4 = \$10,000 - \$14,999

5 = \$15,000 - \$19,999

6 = \$20,000 - \$29,999

7 = \$30,000 - \$39,999

8 = \$40,000 - \$49,999

9 = \$50,000 - \$74,999

10 = \$75,000 or more

11 = Don't know

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16EINCSP

Spouse's income in 2014

What was your spouse's income for calendar year 2014, prior to taxes and deductions? (Calendar year 2014 includes January 1, 2014 through December 31, 2014.

Include all income your spouse paid taxes on. Do not include any grants or loans your spouse may have used to pay for school, or any money given to your spouse by family.)

1 = No income

2 = Less than \$5,000

3 = \$5,000 - \$9,999

4 = \$10,000 - \$14,999

5 = \$15,000 - \$19,999

6 = \$20,000 - \$29,999

7 = \$30,000 - \$39,999

8 = \$40,000 - \$49,999

9 = \$50,000 - \$74,999

10 = \$75,000 or more

11 = Don't know

Applies To: Married respondents.

Source: NPSAS:16 Field Test Student Interview

N16EDEPS

Financially supported children in 2014-15 academic year

Do you have any children who [if TB4JULY = 1} receive {else} received] more than half of their support from you [if TB4JULY = 0} between July 1, 2014 and June 30, 2015]?

0 = Did not financially support children

1 = Yes, financially supported children

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16EDEP2

Number of children financially supported in 2014-15 academic year

How many children [if TB4JULY = 1} receive {else} received] more than half of their support from you [if TB4JULY = 0} between July 1, 2014 and June 30, 2015]?

Applies To: Respondents with children who received more than half of their financial support from respondent in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16EOTDEPS

Financially supported others in 2014-15 academic year

[If N16AMARR = 2 and N16EDEPS in (0 -9) or (N16AMARR = 2 and N16EDEPS = 1 and N16EDEP2 in (0 -9))]

Other than your spouse, [if TB4JULY = 1} does {else} did] anyone else live with you and receive more than half of their support from you [if TB4JULY = 0} between July 1, 2014 and June 30, 2015]?

[else if N16AMARR = 2 and N16EDEPS = 1 and N16EDEP2 > 0]

Other than your spouse and your [if N16EDEP2 = 1} child {else if N16EDEP2 > 1} [N16EDEP2] children], [if TB4JULY = 1} does {else} did] anyone else live with you and receive more than half of their support from you [if TB4JULY = 0} between July 1, 2014 and June 30, 2015]?

[else if N16AMARR ne 2 and N16EDEPS = 1 and N16EDEP2 > 0]

Other than your [if N16EDEP2 = 1} child {else if N16EDEP2 > 1} [N16EDEP2] children], [if TB4JULY = 1} does {else} did] anyone else live with you and receive more than half of their support from you [if TB4JULY = 0} between July 1, 2014 and June 30, 2015]?

[if TB4JULY = 1} Does {else} Did] anyone else live with you and receive more than half of their support from you [if TB4JULY = 0} between July 1, 2014 and June 30, 2015]?

0 = Did not financially support others

1 = Yes, financially supported others

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16EOTDEPS2

Number of others financially supported in 2014-15 academic year

[If N16AMARR = 2 and N16EDEPS in (0 -9) or (N16AMARR = 2 and N16EDEPS = 1 and N16EDEP2 in (0 -9))]

Other than your spouse, how many others [if TB4JULY = 1} live {else} lived] with you and [if TB4JULY = 1} receive {else} received] more than half of their support from you [if TB4JULY = 0} between July 1, 2014 and June 30, 2015]?

[else if N16AMARR = 2 and N16EDEPS = 1 and N16EDEP2 > 0]

Other than your spouse and your [if N16EDEP2 = 1} child {else if N16EDEP2 > 1} [N16EDEP2] children], how many others [if TB4JULY = 1} live {else} lived] with you and [if TB4JULY = 1} receive {else} received] more than half of their support from you [if TB4JULY = 0} between July 1, 2014 and June 30, 2015]?

[else if N16AMARR ne 2 and N16EDEPS = 1 and N16EDEP2 > 0]

Other than your [if N16EDEP2 = 1} child {else if N16EDEP2 > 1} [N16EDEP2] children], how many others [if TB4JULY = 1} live {else} lived] with you and [if TB4JULY = 1} receive {else} received] more than half of their support from you [if TB4JULY = 0} between July 1, 2014 and June 30, 2015]?

[else]

How many others [if TB4JULY = 1} live {else} lived] with you and [if TB4JULY = 1} receive {else} received] more than half of their support from you [if TB4JULY = 0} between July 1, 2014 and June 30, 2015]?

Applies To: Respondents with others who received more than half of their financial support from respondent in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

TDEPNUM

Total number of dependents

Notes: TDEPNUM is an internal calculation that indicates the total number of children and other dependents the respondent financially supports.

TDEPNUM = [If N16EDEPS = 1} [N16EDEP2] {else} 0] + [If N16EOTDEPS = 1} [N16EOTDEPS2] {else} 0]

Applies To: Respondents with children and/or others who received more than half of their financial support from respondent in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16EOTDEPAMT

Amount per month spent financially supporting others

[If N16AMARR = 2 and N16EDEPS = 1 and N16EDEP2 > 0]

In an average month, how much [if TB4JULY = 1} do {else} did] you spend supporting [if N16EOTDEPS2 = 1} this other person {else} these [N16EOTDEPS2] other people [if TB4JULY ne 1} during the 2014-2015 school year]? (Do not include any money spent to support your spouse or your [if N16EDEP2 = 1} child {else if N16EDEP2 > 1} [N16EDEP2] children].)

[else if N16AMARR = 2]

In an average month, how much [if TB4JULY = 1} do {else} did] you spend supporting [if N16EOTDEPS2 = 1} this other person {else} these [N16EOTDEPS2] other people [if TB4JULY ne 1} during the 2014-2015 school year]? (Do not include any money spent to support your spouse.)

[else if N16AMARR ne 2 and N16EDEPS = 1 and N16EDEP2 > 0]

In an average month, how much [if TB4JULY = 1} do {else} did] you spend supporting [if N16EOTDEPS2 =

1} this other person {else} these [N16EOTDEPS2] other people] [{if TB4JULY ne 1} during the 2014-2015 school year]? (Do not include any money spent to support your [{if N16EDEP2 = 1} child {else if N16EDEP2 > 1} [N16EDEP2] children].)

[else]

In an average month, how much [{if TB4JULY = 1} do {else} did] you spend supporting [{if N16EOTDEPS2 = 1} this other person {else} these [N16EOTDEPS2] other people] [{if TB4JULY ne 1} during the 2014-2015 school year]?

Applies To: Respondents with others who received more than half of their financial support from respondent in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16FPARUS

Parents born in the U.S. or a U.S. territory

Were your parents born in the United States (including Puerto Rico or another U.S. territory)?

0 = No, parents were not born in the U.S.

1 = Yes, one parent born in the U.S.

2 = Yes, both parents born in the U.S.

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16FUSBORN

Respondent born in the U.S. or a U.S. territory

Were you born in the United States (including Puerto Rico or another U.S. territory)?

0 = Not born in the U.S. or a U.S. territory

1 = Yes, born in the U.S. or a U.S. territory

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16FCITZN

Citizenship status

Are you a U.S. citizen?

1 = Yes, U.S. citizen

2 = No, resident alien or other eligible non-citizen

3 = No, student visa or on an exchange visitor visa

4 = No, other status

Applies To: Respondents who did not indicate that they were born in the United States and for whom we do not have a CPS match indicating they are a U.S. citizen.

Source: NPSAS:16 Field Test Student Interview

N16FIMGRAGE

Age when arrived in U.S.

How old were you when you came to the United States?

Applies To: Respondents who were not born in the United States.

Source: NPSAS:16 Field Test Student Interview

N16FIMGEST

Estimate of age when arrived in U.S.

When you came to the United States would you say you were...

1 = 5 years old or younger

2 = 6 to 8 years old

3 = 9 to 11 years old

4 = 12 to 14 years old

5 = 15 to 17 years old

6 = 18 years or older

Applies To: Respondents who did not know or did not answer when they moved to the United States.

Source: NPSAS:16 Field Test Student Interview

N16FHISP

Respondent of Hispanic or Latino origin

Are you of either Hispanic or Latino origin?

0 = Not of Hispanic or Latino origin

1 = Yes, of Hispanic or Latino origin

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16FHISA

Hispanic type: Cuban descent

Are you of...

Cuban descent

0 = Not of Cuban descent

1 = Yes, of Cuban descent

Applies To: Respondents who reported Hispanic or Latino ethnicity.

Source: NPSAS:16 Field Test Student Interview

N16FHISB

Hispanic type: Mexican, Mexican-American, or Chicano descent

Are you of...

Mexican, Mexican-American, or Chicano descent

0 = Not of Mexican, Mexican-American or Chicano descent

1 = Yes, of Mexican, Mexican-American or Chicano descent

Applies To: Respondents who reported Hispanic or Latino ethnicity.

Source: NPSAS:16 Field Test Student Interview

N16FHISC

Hispanic type: Puerto Rican descent

Are you of...

Puerto Rican descent

0 = Not of Puerto Rican descent

1 = Yes, of Puerto Rican descent

Applies To: Respondents who reported Hispanic or Latino ethnicity.

Source: NPSAS:16 Field Test Student Interview

N16FHISD

Hispanic type: other Spanish, Hispanic, or Latino origin

Are you of...

Some other Spanish, Hispanic, or Latino origin

0 = Not of other Spanish, Hispanic or Latino descent

1 = Yes, other Spanish, Hispanic, or Latino descent

Applies To: Respondents who reported Hispanic or Latino ethnicity.

Source: NPSAS:16 Field Test Student Interview

N16FRACEA

Race: White

What is your race? Choose one or more.

White

0 = Not White

1 = Yes, White

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16FRACEB

Race: Black or African American

What is your race? Choose one or more.

Black or African American

0 = Not Black or African American

1 = Yes, Black or African American

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16FRACEC

Race: Asian

What is your race? Choose one or more.

Asian

0 = Not Asian

1 = Yes, Asian

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16FRACED

Race: American Indian or Alaska Native

What is your race? Choose one or more.

American Indian or Alaska Native

0 = Not American Indian or Alaska Native

1 = Yes, American Indian or Alaska Native

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16FRACEE

Race: Native Hawaiian or Other Pacific Islander

What is your race? Choose one or more.

Native Hawaiian or Other Pacific Islander

0 = Not Native Hawaiian or other Pacific

Islander

1 = Yes, Native Hawaiian or other Pacific

Islander

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16FTRIBE

State or federally recognized tribe

Are you enrolled in a state- or federally-recognized tribe?

0 = Not enrolled in a state- or fed-recognized

tribe

1 = Yes, enrolled in a state- or fed-recognized

tribe

Applies To: Respondents who reported American Indian or Alaska Native race.

Source: NPSAS:16 Field Test Student Interview

N16FAISTYPA

Asian type: Chinese

Are you...

Chinese

0 = Not Chinese

1 = Yes, Chinese

Applies To: Respondents who reported Asian race.

Source: NPSAS:16 Field Test Student Interview

N16FAISTYPB

Asian type: Filipino

Are you...

Filipino

0 = Not Filipino

1 = Yes, Filipino

Applies To: Respondents who reported Asian race.

Source: NPSAS:16 Field Test Student Interview

N16FAISTYPC

Asian type: Asian Indian

Are you...

Asian Indian

0 = Not Asian Indian

1 = Yes, Asian Indian

Applies To: Respondents who reported Asian race.

Source: NPSAS:16 Field Test Student Interview

N16FAISTYPD

Asian type: Vietnamese

Are you...

Vietnamese

0 = Not Vietnamese

1 = Yes, Vietnamese

Applies To: Respondents who reported Asian race.

Source: NPSAS:16 Field Test Student Interview

N16FAISTYPE

Asian type: Korean

Are you...

Korean

0 = Not Korean

1 = Yes, Korean

Applies To: Respondents who reported Asian race.

Source: NPSAS:16 Field Test Student Interview

N16FAISTYF

Asian type: Japanese

Are you...

Japanese

0 = Not Japanese

1 = Yes, Japanese

Applies To: Respondents who reported Asian race.

Source: NPSAS:16 Field Test Student Interview

N16FAISTYPT

Asian type: some other Asian origin

Are you...

Some other Asian origin

0 = Not of other Asian origin

1 = Yes, other Asian origin

Applies To: Respondents who reported Asian race.

Source: NPSAS:16 Field Test Student Interview

N16FMOMED

Group 1: mother's highest level of education completed

What is the highest level of education your mother completed?

Notes: Professional degrees include the following types of degrees: chiropractic, dentistry, law, medicine, optometry, pharmacy, podiatry, and veterinary medicine degrees.

Doctoral degrees include degrees such as PhDs and EdDs, etc.

1 = Did not complete high school

2 = High school diploma or equivalent

3 = Vocational or technical training

5 = Associate's degree

6 = Some college but no degree

7 = Bachelor's degree

8 = Master's degree or equivalent

9 = Professional practice degree

10 = Doctoral degree, research/scholarship

11 = Don't know

Applies To: Respondents in parents' education item experiment group 1.

Source: NPSAS:16 Field Test Student Interview

N16FDADED

Group 1: father's highest level of education completed

What is the highest level of education your father completed?

Notes: Professional degrees include the following types of degrees: chiropractic, dentistry, law, medicine, optometry, pharmacy, podiatry, and veterinary medicine degrees.

Doctoral degrees include degrees such as PhDs and EdDs, etc.

1 = Did not complete high school

2 = High school diploma or equivalent

3 = Vocational or technical training

5 = Associate's degree

6 = Some college but no degree

7 = Bachelor's degree

8 = Master's degree or equivalent

9 = Professional practice degree

10 = Doctoral degree, research/scholarship

11 = Don't know

Applies To: Respondents in parents' education item experiment group 1.

Source: NPSAS:16 Field Test Student Interview

N16FPAR1

Group 2: parent 1: identification

Now, we have some questions about the highest level of education your parents completed.

Please tell us who you would like us to refer to as Parent 1:

1 = Mother

2 = Father

3 = Stepmother

4 = Stepfather

5 = Other female guardian

6 = Other male guardian

7 = Not applicable

Applies To: Respondents in parents' education item experiment group 2.

Source: NPSAS:16 Field Test Student Interview

N16FPAR2

Group 2: parent 2: identification

Now, we have some questions about the highest level of education your parents completed.

Please tell us who you would like us to refer to as Parent 2:

1 = Mother

2 = Father

3 = Stepmother

- 4 = Stepfather
- 5 = Other female guardian
- 6 = Other male guardian
- 7 = Not applicable

Applies To: Respondents in parents' education item experiment group 2.

Source: NPSAS:16 Field Test Student Interview

N16FPAR1GATE

Group 2: parent 1: completed college degree

Did your [N16FPAR1] (Parent 1) complete a college degree?

- 0 = Did not complete a college degree
- 1 = Yes, completed a college degree
- 2 = Don't know

Applies To: Respondents in the parents' education item experiment group 2 who designated a parent 1.

Source: NPSAS:16 Field Test Student Interview

N16FPAR1YES

Group 2: parent 1: type of college degree

What is the highest level of education your [N16FPAR1] (Parent 1) completed?

- 1 = Undergraduate certificate or diploma
- 2 = Associate's degree
- 3 = Bachelor's degree
- 4 = Graduate degree

Applies To: Respondents in parents' education item experiment group 2 who indicated parent 1 earned a college degree.

Source: NPSAS:16 Field Test Student Interview

N16FPAR1GRAD

Group 2: parent 1: type of graduate degree

Thanks. Was this degree a...

Notes: Professional degrees include the following types of degrees: chiropractic, dentistry, law, medicine, optometry, pharmacy, podiatry, and veterinary medicine degrees.

Doctoral degrees include degrees such as PhDs and EdDs, etc.

- 1 = Master's degree or equivalent
- 2 = Professional degree
- 3 = Doctoral degree, research/scholarship

Applies To: Respondents in parents' education item experiment group 2 who indicated parent 1 earned a graduate degree.

Source: NPSAS:16 Field Test Student Interview

N16FPAR1NO

Group 2: parent 1: no college degree

What is the highest level of education your [N16FPAR1] (Parent 1) completed?

- 1 = Did not complete high school
- 2 = High school diploma or equivalent
- 3 = Some college but no degree

- 4 = Undergraduate certificate or diploma

Applies To: Respondents in parents' education item experiment group 2 who indicated parent 1 did not earn a college degree.

Source: NPSAS:16 Field Test Student Interview

N16FPAR2GATE

Group 2: parent 2: completed college degree

Did your [N16FPAR2] (Parent 2) complete a college degree?

- 0 = Did not complete a college degree
- 1 = Yes, completed a college degree
- 2 = Don't know

Applies To: Respondents in parents' education item experiment group 2 who designated a parent 2.

Source: NPSAS:16 Field Test Student Interview

N16FPAR2YES

Group 2: parent 2: type of college degree

What is the highest level of education your [N16FPAR2] (Parent 2) completed?

- 1 = Undergraduate certificate or diploma
- 2 = Associate's degree
- 3 = Bachelor's degree
- 4 = Graduate degree

Applies To: Respondents in parents' education item experiment group 2 who indicated that parent 2 earned a college degree.

Source: NPSAS:16 Field Test Student Interview

N16FPAR2GRAD

Group 2: parent 2: type of graduate degree

Thanks. Was this degree a...

Notes: Professional degrees include the following types of degrees: chiropractic, dentistry, law, medicine, optometry, pharmacy, podiatry, and veterinary medicine degrees.

Doctoral degrees include degrees such as PhDs and EdDs, etc.

- 1 = Master's degree or equivalent
- 2 = Professional degree
- 3 = Doctoral degree, research/scholarship

Applies To: Respondents in parents' education item experiment group 2 who indicated that parent 2 earned a graduate degree.

Source: NPSAS:16 Field Test Student Interview

N16FPAR2NO

Group 2: parent 2: no college degree

What is the highest level of education your [N16FPAR2] (Parent 2) completed?

- 1 = Did not complete high school
- 2 = High school diploma or equivalent
- 3 = Some college but no degree
- 4 = Undergraduate certificate or diploma

Applies To: Respondents in parents' education item experiment group 2 who indicated parent 2 did not earn a college degree.

Source: NPSAS:16 Field Test Student Interview

N16BHSTYP

Type of high school last attended

Was the last high school you attended public or private?

- 1 = Public
- 2 = Private
- 3 = Last attended a foreign high school
- 4 = Home schooled

Applies To: Undergraduate respondents who received a high school diploma, except those who attended a foreign high school, or were home schooled.

Source: NPSAS:16 Field Test Student Interview

N16BHSCOD

Last high school attended: PSS/CCD code

[If COMPMODE = 0]

What is the name of the high school?

[else]

What is the name of the high school and in what city and state is it located?

Notes: N16BHSCOD indicates the respondent's PSS (Private School Survey) or CCD (Common Core of Data) high school code.

Applies To: B&B-eligible respondents who received a high school diploma, except those who attended a foreign high school, or were home schooled, or who had a preloaded PSS/CCD code.

Source: NPSAS:16 Field Test Student Interview

N16BHSCDUP

Last high school attended: school coded after interview

Notes: Respondents entered their school name, city and state into an internal database built into the instrument and selected an PSS/CCD code representing their school. If respondents did not select an PSS/CCD code, expert coders attempted to upcode this school. In the event expert coders upcoded an PSS/CCD code, this flag was set to 1. If the flag was set to 1, the following variable was changed to reflect the new PSS/CCD code:

N16BHSCOD.

- 0 = Not upcoded
- 1 = Yes, upcoded

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16BHSGPES

Estimate of overall high school grades

Which of the following would you say best describes your high school grades overall (unweighted)?

- 1 = Mostly A's (3.75 and above)

2 = A's and B's (3.25 - 3.74)

3 = Mostly B's (2.75 - 3.24)

4 = B's and C's (2.25 - 2.74)

5 = Mostly C's (1.75 - 2.24)

6 = C's and D's (1.25 - 1.74)

7 = Mostly D's or below (1.24 or below)

8 = Don't know my grades

Applies To: Undergraduate respondents younger than 30 who received a high school diploma.

Source: NPSAS:16 Field Test Student Interview

N16BCALCAPST

Took calculus or AP statistics in high school

Did you take calculus or Advanced Placement (AP) statistics while in high school?

0 = Did not take calculus or AP stats in high school

1 = Yes, took calculus or AP stats in high school

Applies To: Undergraduate respondents younger than 30 who received a high school diploma.

Source: NPSAS:16 Field Test Student Interview

N16BHSMTALG1

Math course taken in high school: Algebra 1

In high school, did you take...

Algebra 1

0 = Did not take Algebra 1 in high school

1 = Yes, took Algebra 1 in high school

Applies To: Undergraduate respondents younger than 30 who received a high school diploma and who did not take calculus or AP statistics in high school.

Source: NPSAS:16 Field Test Student Interview

N16BHSMTGEO

Math course taken in high school: Geometry

In high school, did you take...

Geometry

0 = Did not take Geometry in high school

1 = Yes, took Geometry in high school

Applies To: Undergraduate respondents younger than 30 who received a high school diploma and who did not take calculus or AP statistics in high school.

Source: NPSAS:16 Field Test Student Interview

N16BHSMTALG2

Math course taken in high school: Algebra 2

In high school, did you take...

Algebra 2

0 = Did not take Algebra 2 in high school

1 = Yes, took Algebra 2 in high school

Applies To: Undergraduate respondents younger than 30 who received a high school diploma and who did not take calculus or AP statistics in high school.

Source: NPSAS:16 Field Test Student Interview

N16BHSMTPC

Math course taken in high school: Pre-calc or Probability/Statistics
In high school, did you take...

Pre-calculus or Probability and Statistics

0 = Did not take pre-calc, prob/stats in high school

1 = Yes, took pre-calc, prob/stats in high school

Applies To: Undergraduate respondents younger than 30 who received a high school diploma and who did not take calculus or AP statistics in high school.

Source: NPSAS:16 Field Test Student Interview

N16BHSMTOTH

Math course taken in high school: other

In high school, did you take...

Other math course not listed

0 = Did not take other math course in high school

1 = Yes, took other math course in high school

Applies To: Undergraduate respondents younger than 30 who received a high school diploma and who did not take calculus or AP statistics in high school.

Source: NPSAS:16 Field Test Student Interview

N16BSAT

Took SAT college exam

Did you take...

The SAT?

0 = Did not take SAT

1 = Yes, took SAT

Applies To: Undergraduate respondents younger than 30.

Source: NPSAS:16 Field Test Student Interview

N16BACT

Took ACT college exam

Did you take...

The ACT?

0 = Did not take ACT

1 = Yes, took ACT

Applies To: Undergraduate respondents younger than 30.

Source: NPSAS:16 Field Test Student Interview

N16AATTOTSC

Attended postsecondary school other than NPSAS since high school

Have you ever attended another college, university, or trade school besides [NPSAS] since [if N16ADIPL = 5] high school {else} completing your high school requirements]?

0 = Did not attend other school since high school

1 = Yes, attended other school since high school

Applies To: Respondents who had not reported attending schools other than NPSAS or respondents who started NPSAS in the 2014-15 academic year, attended no other schools in the 2014-15 academic year, and NPSAS was their first postsecondary institution.

Source: NPSAS:16 Field Test Student Interview

N16AEVR4YR

Ever attended a 4-year postsecondary school

Since [if N16ADIPL = 5] high school {else} completing your high school requirements], have you attended a four-year college or university?

0 = Did not attend a 4-year postsecondary school

1 = Yes, attended a 4-year postsecondary school

Applies To: Undergraduate respondents whose NPSAS school was not a 4-year school and who had not reported attending another 4-year school in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16AEVRCC

Ever attended a community college

Since [if N16ADIPL = 5] high school {else} completing your high school requirements], have you attended a community college?

0 = Did not attend a community college

1 = Yes, attended a community college

Applies To: Undergraduate respondents whose NPSAS school was not a public 2-year school and who had not reported attending another public 2-year school in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16ADGMS

Type of master's degree

[If TCURENR = 1]

What specific master's degree are you working on at [NPSAS]?

[else]

What specific master's degree were you working on when you last attended [NPSAS] in the 2014-2015 school year?

1 = Master of Science (MS)

2 = Master of Arts (MA)

3 = Master of Education (MEd) or Teaching (MAT)

4 = Master of Business Administration (MBA)

5 = Master of Public Administration (MPA)

6 = Master of Social Work (MSW)

7 = Master of Fine Arts (MFA)

8 = Master of Public Health (MPH)

9 = Other master's degree not listed

Applies To: Respondents in a master's degree program at NPSAS.

Source: NPSAS:16 Field Test Student Interview

N16ADGD*Type of research/scholarship doctoral degree*

[If TCURENR = 1]

What specific doctoral degree are you working on at [NPSAS]?

[else]

What specific doctoral degree were you working on when you last attended [NPSAS] in the 2014-2015 school year?

11 = Doctor of Philosophy (PhD)

12 = Doctor of Education (EdD)

13 = Doctor of Science (DSc/ScD) or

Engineering (DEng)

14 = Doctor of Psychology (PsyD)

15 = Doctor of Business or Public Admin

(DBA/DPA)

16 = Doctor of Fine Arts (DFA)

17 = Doctor of Divinity /Theology (ThD)

18 = Other doctoral degree not listed

Applies To: Respondents in a research/scholarship doctoral degree program at NPSAS.

Source: NPSAS:16 Field Test Student Interview

N16ADGPP*Type of professional practice doctoral degree*

[If TCURENR = 1]

What specific degree are you working on at [NPSAS]?

[else]

What specific degree were you working on when you last attended [NPSAS] in the 2014-2015 school year?

1 = Chiropractic (DC/DCM)

2 = Dentistry (DDS/DMD)

3 = Law (JD/LLB)

4 = Medicine (MD) or osteopathic medicine (DO)

5 = Optometry (OD)

6 = Pharmacy (PharmD)

7 = Podiatry (DPM/DP/PodD)

8 = Veterinary medicine (DVM)

9 = Other professional practice doc degree not listed

Applies To: Respondents in a professional practice doctoral degree program at NPSAS.

Source: NPSAS:16 Field Test Student Interview

N16BREMEVER*Took remedial courses since high school*

Remedial or developmental courses are used to strengthen your skills in math, reading, or other subjects. Students are usually assigned to these courses on the basis of a placement test taken before the school year begins. Often, these courses do not count for credit toward graduation. Since [if N16ADIPL = 5} high school {else} you completed your high school requirements] [if

TB4JULY = 0} and through June 30, 2015, did you take {else} have you taken] any remedial or developmental courses to improve your basic skills in English, math, reading, or writing?

0 = Did not take remedial courses since high school

1 = Yes, took remedial courses since high school

Applies To: Undergraduate respondents, except those who took only remedial courses in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16BREMSY*Took remedial courses in the 2014-15 academic year*

[If TCURENR = 1]

Have you taken any remedial or developmental courses during the 2014-2015 school year? (If you are currently taking a remedial or developmental course, please answer "yes.")

[else]

Did you take any remedial or developmental courses during the 2014-2015 school year?

0 = Did not take remedial courses in 2014-15

1 = Yes, took remedial courses in 2014-15

Applies To: Undergraduate respondents who had taken remedial courses since high school, except those who took only remedial courses in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16BREMMATH*Number of remedial courses taken in 2014-15: math*

In the 2014-2015 school year, how many times did you take remedial or developmental courses in each of the following subjects... [If N16ARMCRD = 1} (Remedial or developmental courses are used to strengthen your skills before you take your first college-level course in math, reading, or other subjects. Students are usually assigned to these courses on the basis of a placement test taken before the school year begins. Often, these courses do not count for credit toward graduation.)]

Math?

0 = Not this year

1 = One time this year

2 = More than one time this year

Applies To: Undergraduate respondents who took remedial courses in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16BREMREAD*Number of remedial courses taken in 2014-15: reading*

In the 2014-2015 school year, how many times did you take remedial or developmental courses in each of the following subjects... [If N16ARMCRD = 1} (Remedial

or developmental courses are used to strengthen your skills before you take your first college-level course in math, reading, or other subjects. Students are usually assigned to these courses on the basis of a placement test taken before the school year begins. Often, these courses do not count for credit toward graduation.)]

Reading and/or writing? (Do not include English as a Second Language courses)

0 = Not this year

1 = One time this year

2 = More than one time this year

Applies To: Undergraduate respondents who took remedial courses in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16BACDSATIS

Satisfaction with studies at NPSAS

[If COMPMODE = 1]

Please use a number from 1 to 5 to respond to the following statement. One means "completely disagree" and five means "completely agree." [If TCURENR = 1] I'm {else} I was] satisfied with my studies at [NPSAS]. [else]

Please use a number from 1 to 5 to respond to the following statement. [If TCURENR = 1] I'm {else} I was] satisfied with my studies at [NPSAS].

1 = 1 (Completely disagree)

2 = 2 (Somewhat disagree)

3 = 3 (Neither disagree nor agree)

4 = 4 (Somewhat agree)

5 = 5 (Completely agree)

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16BDBLMAJ

Declared major for degree or certificate at NPSAS

[If N16ACMPDGN = 1 and THIGHTEST in (2 3)]

Did you declare a single or double major or field of study at [NPSAS]?

[else if N16ACMPDGN = 1]

Did you declare a single or double major at [NPSAS]?

[else if TCURENR = 1 and THIGHTEST in (2 3)]

Have you declared a major or field of study at [NPSAS]?

[else if TCURENR = 1]

Have you declared a major at [NPSAS]?

[else if TCURENR = 0 and THIGHTEST in (2 3)]

Had you already declared a major or field of study [if N16AELIG = 4] at {else} when you last attended]

[NPSAS] in the 2014-2015 school year?

[else]

Had you already declared a major [if N16AELIG = 4] at {else} when you last attended] [NPSAS] in the 2014-2015 school year?

1 = Yes, declared a single major or field of study

2 = Yes, declared a double major or field of

study

3 = Did not declare a major

Applies To: Undergraduate respondents in a degree program at a 2 or 4 year school.

Source: NPSAS:16 Field Test Student Interview

N16BDECIDMAJ

Decided major for degree or certificate at NPSAS

Have you decided what your major will be?

0 = Did not decide on a major

1 = Yes, decided on a major

Applies To: Undergraduate respondents in a degree program at a 2 or 4 year school who had not declared a major.

Source: NPSAS:16 Field Test Student Interview

N16BCLSDGREE

Took only classes at NPSAS to transfer credit to degree program

[If TB4]JULY = 1]

[If TCURENR = 1] Are {else} Were] you taking these [NPSAS program] at [NPSAS] primarily to fulfill a degree requirement or transfer course credit to a degree or certificate program?

[else]

Before July 2015, were you taking these [NPSAS program] at [NPSAS] primarily to fulfill a degree requirement or transfer course credit to a degree or certificate program?

0 = Did not take only classes to transfer credits

1 = Yes, took only classes to transfer credits

Applies To: Respondents who were not in a degree program.

Source: NPSAS:16 Field Test Student Interview

N16BREASON

Reason for taking only classes at NPSAS

[If TB4]JULY = 1]

Which of these reasons best describes why you [if TCURENR = 1] are {else} were] enrolled in classes at [NPSAS]?

[else]

Which of these reasons best describes why you were enrolled in classes at [NPSAS] before July 2015?

1 = To prepare to earn a degree

2 = To prepare for a job certification or license

3 = To gain job or occupational skills

4 = To take courses solely for recreation

Applies To: Respondents who were not in a degree program, except those taking classes primarily to fulfill a degree requirement or transfer credit.

Source: NPSAS:16 Field Test Student Interview

N16BMAJ1*Major 1: string*

[If TCURENR = 1 and N16BDBLMAJ = 2]

What is your first major or field of study at [NPSAS]?

Since you have a double-major, please indicate only one major here. You will have an opportunity next to provide your other major.

[else if TCURENR = 1]

What is your [{if N16BDBLMAJ = 3} intended] major or field of study at [NPSAS]? [{If N16BDBLMAJ = 3} (If you intend to double-major, tell [{if COMPMODE = 1} me {else} us] only about the major most closely related to the job you hope to have after college.)]

[else if TCURENR = 0 and N16BDBLMAJ = 2]

What was your first major or field of study [{if N16AELIG ne 4} when you last attended [NPSAS]] in the 2014-2015 school year? Since you had a double-major, please indicate only one major here. You will have an opportunity next to provide your other major.

[else]

What was your [{if N16BDBLMAJ = 3} intended] major or field of study [{if N16AELIG ne 4} when you last attended [NPSAS]] in the 2014-2015 school year? [{If N16BDBLMAJ = 3} (If you intend to double-major, tell [{if COMPMODE = 1} me {else} us] only about the major most closely related to the job you hope to have after college.)]

Applies To: Respondents in a degree program who had declared or decided on a major, except those who verified a preloaded major.

Source: NPSAS:16 Field Test Student Interview

N16BMJ1GEN*Major 1: general code*

[If TCURENR = 1 and N16BDBLMAJ = 2]

What is your first major or field of study at [NPSAS]?

Since you have a double-major, please indicate only one major here. You will have an opportunity next to provide your other major.

[else if TCURENR = 1]

What is your [{if N16BDBLMAJ = 3} intended] major or field of study at [NPSAS]? [{If N16BDBLMAJ = 3} (If you intend to double-major, tell [{if COMPMODE = 1} me {else} us] only about the major most closely related to the job you hope to have after college.)]

[else if TCURENR = 0 and N16BDBLMAJ = 2]

What was your first major or field of study [{if N16AELIG ne 4} when you last attended [NPSAS]] in the 2014-2015 school year? Since you had a double-major, please indicate only one major here. You will have an opportunity next to provide your other major.

[else]

What was your [{if N16BDBLMAJ = 3} intended] major or field of study [{if N16AELIG ne 4} when you last

attended [NPSAS]] in the 2014-2015 school year? [{If N16BDBLMAJ = 3} (If you intend to double-major, tell [{if COMPMODE = 1} me {else} us] only about the major most closely related to the job you hope to have after college.)]

Notes: The 2010 Classification of Instructional Programs (CIP) was used to code these data. See

<http://nces.ed.gov/ipeds/cipcode/> for more information on the CIP.

- 1 = Agriculture/operations/related sciences
- 3 = Natural resources and conservation
- 4 = Architecture and related services
- 5 = Area/ethnic/cultural/gender studies
- 9 = Communication, journalism, related
- 10 = Communication technology and support
- 11 = Computer/information science/support
- 12 = Personal and culinary services
- 13 = Education
- 14 = Engineering
- 15 = Engineering technologies/technicians
- 16 = Foreign languages/literature/linguistics
- 19 = Family/consumer sciences/human

sciences

- 22 = Legal professions and studies
- 23 = English language and literature/letters
- 24 = Liberal arts/sci/gen studies/humanities
- 25 = Library science
- 26 = Biological and biomedical sciences
- 27 = Mathematics and statistics
- 30 = Multi/interdisciplinary studies
- 31 = Parks/recreation/leisure/fitness studies
- 38 = Philosophy and religious studies
- 39 = Theology and religious vocations
- 40 = Physical sciences
- 41 = Science technologies/technicians
- 42 = Psychology
- 43 = Security and protective services
- 44 = Public administration/social service
- 45 = Social sciences
- 46 = Construction trades
- 47 = Mechanic/repair technologies/technicians
- 48 = Precision production
- 49 = Transportation and materials moving
- 50 = Visual and performing arts
- 51 = Health/related clinical sciences
- 52 = Business/management/marketing/

related

- 54 = History
- 60 = Residency programs
- 98 = Not in a degree program
- 99 = Undeclared

Applies To: Respondents in a degree program who had declared or decided on a major, except those who verified a preloaded major.

Source: 2010 Classification of Instructional Programs (CIP)

N16BMJ1SPE

Major 1: specific code

[If TCURENR = 1 and N16BDBLMAJ = 2]

What is your first major or field of study at [NPSAS]?

Since you have a double-major, please indicate only one major here. You will have an opportunity next to provide your other major.

[else if TCURENR = 1]

What is your [{if N16BDBLMAJ = 3} intended] major or field of study at [NPSAS]? [{If N16BDBLMAJ = 3} (If you intend to double-major, tell [{if COMPMODE = 1} me {else} us] only about the major most closely related to the job you hope to have after college.)]

[else if TCURENR = 0 and N16BDBLMAJ = 2]

What was your first major or field of study [{if N16AELIG ne 4} when you last attended [NPSAS]] in the 2014-2015 school year? Since you had a double-major, please indicate only one major here. You will have an opportunity next to provide your other major.

[else]

What was your [{if N16BDBLMAJ = 3} intended] major or field of study [{if N16AELIG ne 4} when you last attended [NPSAS]] in the 2014-2015 school year? [{If N16BDBLMAJ = 3} (If you intend to double-major, tell [{if COMPMODE = 1} me {else} us] only about the major most closely related to the job you hope to have after college.)]

Notes: The 2010 Classification of Instructional Programs (CIP) was used to code these data. See <http://nces.ed.gov/ipeds/cipcode/> for more information on the CIP.

Applies To: Respondents in a degree program who had declared or decided on a major, except those who verified a preloaded major.

Source: 2010 Classification of Instructional Programs (CIP)

N16BMAJ1RC

N16BMJ1GEN/N16BMJ1SPE recode flag

Notes: Respondents entered their major into an internal database built into the instrument and selected a CIP code representing their major. Some CIP codes selected by respondents were randomly chosen for recode review by expert coders. If respondents did not select a CIP code, expert coders attempted to upcode this major. In the event expert coders recoded a new CIP code or upcoded a CIP code, this flag was set to 1. If the flag was set to 1, the following variables were changed to reflect the new CIP code: N16BMJ1GEN, N16BMJ1SPE.

0 = Not upcoded or recoded

1 = Yes, upcoded or recoded

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16BMAJ2

Major 2: string

[If TCURENR = 1]

What is your second major or field of study at [NPSAS]?

[else]

What was your second major or field of study when you last attended [NPSAS] in the 2014-2015 school year?

Applies To: Undergraduate respondents in a degree program with a double major.

Source: NPSAS:16 Field Test Student Interview

N16BMJ2GEN

Major 2: general code

[If TCURENR = 1]

What is your second major or field of study at [NPSAS]?

[else]

What was your second major or field of study when you last attended [NPSAS] in the 2014-2015 school year?

Notes: The 2010 Classification of Instructional Programs (CIP) was used to code these data. See <http://nces.ed.gov/ipeds/cipcode/> for more information on the CIP.

1 = Agriculture/operations/related sciences

3 = Natural resources and conservation

4 = Architecture and related services

5 = Area/ethnic/cultural/gender studies

9 = Communication, journalism, related

10 = Communication technology and support

11 = Computer/information science/support

12 = Personal and culinary services

13 = Education

14 = Engineering

15 = Engineering technologies/technicians

16 = Foreign languages/literature/linguistics

19 = Family/consumer sciences/human

sciences

22 = Legal professions and studies

23 = English language and literature/letters

24 = Liberal arts/sci/gen studies/humanities

25 = Library science

26 = Biological and biomedical sciences

27 = Mathematics and statistics

30 = Multi/interdisciplinary studies

31 = Parks/recreation/leisure/fitness studies

38 = Philosophy and religious studies

39 = Theology and religious vocations

40 = Physical sciences

41 = Science technologies/technicians
 42 = Psychology
 43 = Security and protective services
 44 = Public administration/social service
 45 = Social sciences
 46 = Construction trades
 47 = Mechanic/repair technologies/technicians
 48 = Precision production
 49 = Transportation and materials moving
 50 = Visual and performing arts
 51 = Health/related clinical sciences
 52 = Business/management/marketing/

related

54 = History
 60 = Residency programs
 98 = Not in a degree program
 99 = Undeclared

Applies To: Undergraduate respondents in a degree program with a double major.

Source: 2010 Classification of Instructional Programs (CIP)

N16BMJ2SPE

Major 2: specific code

[If TCURENR = 1]

What is your second major or field of study at [NPSAS]?

[else]

What was your second major or field of study when you last attended [NPSAS] in the 2014-2015 school year?

Notes: The 2010 Classification of Instructional Programs (CIP) was used to code these data. See

<http://nces.ed.gov/ipeds/cipcode/> for more information on the CIP.

Applies To: Undergraduate respondents in a degree program with a double major.

Source: 2010 Classification of Instructional Programs (CIP)

N16BMAJ2RC

N16BMJ2GEN/N16BMJ2SPE recode flag

Notes: Respondents entered their major into an internal database built into the instrument and selected a CIP code representing their major. Some CIP codes selected by respondents were randomly chosen for recode review by expert coders. If respondents did not select a CIP code, expert coders attempted to upcode this major. In the event expert coders recoded a new CIP code or upcoded a CIP code, this flag was set to 1. If the flag was set to 1, the following variables were changed to reflect the new CIP code: N16BMJ2GEN, N16BMJ2SPE.

0 = Not upcoded or recoded

1 = Yes, upcoded or recoded

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16BMJCHGNUM

Number of major changes for degree or certificate at NPSAS

[If TCURENR = 1]

How many times have you formally changed your major at [NPSAS]?

[else]

How many times did you formally change your major at [NPSAS]?

0 = None

1 = One

2 = More than one

Applies To: Undergraduate respondents in a degree program at a 2- or 4-year school who had declared a major.

Source: NPSAS:16 Field Test Student Interview

N16BOMJ1

Original major: string

What was your original declared major at [NPSAS]?

Applies To: B&B-eligible respondents who had ever formally changed their major.

Source: NPSAS:16 Field Test Student Interview

N16BOM1GEN

Original major: general code

What was your original declared major at [NPSAS]?

Notes: The 2010 Classification of Instructional Programs (CIP) was used to code these data. See

<http://nces.ed.gov/ipeds/cipcode/> for more information on the CIP.

1 = Agriculture/operations/related sciences

3 = Natural resources and conservation

4 = Architecture and related services

5 = Area/ethnic/cultural/gender studies

9 = Communication, journalism, related

10 = Communication technology and support

11 = Computer/information science/support

12 = Personal and culinary services

13 = Education

14 = Engineering

15 = Engineering technologies/technicians

16 = Foreign languages/literature/linguistics

19 = Family/consumer sciences/human

sciences

22 = Legal professions and studies

23 = English language and literature/letters

24 = Liberal arts/sci/gen studies/humanities

25 = Library science

26 = Biological and biomedical sciences

27 = Mathematics and statistics

30 = Multi/interdisciplinary studies

31 = Parks/recreation/leisure/fitness studies
38 = Philosophy and religious studies
39 = Theology and religious vocations
40 = Physical sciences
41 = Science technologies/technicians
42 = Psychology
43 = Security and protective services
44 = Public administration/social service
45 = Social sciences
46 = Construction trades
47 = Mechanic/repair technologies/technicians
48 = Precision production
49 = Transportation and materials moving
50 = Visual and performing arts
51 = Health/related clinical sciences
52 = Business/management/marketing/

related

54 = History
60 = Residency programs
98 = Not in a degree program
99 = Undeclared

Applies To: B&B-eligible respondents who had ever formally changed their major.

Source: 2010 Classification of Instructional Programs (CIP)

N16BOM1SPE

Original major: specific code

What was your original declared major at [NPSAS]?

Notes: The 2010 Classification of Instructional Programs (CIP) was used to code these data. See <http://nces.ed.gov/ipeds/cipcode/> for more information on the CIP.

Applies To: B&B-eligible respondents who had ever formally changed their major.

Source: 2010 Classification of Instructional Programs (CIP)

N16BOMJ1RC

N16BOM1GEN/N16BOM1SPE recode flag

Notes: Respondents entered their major into an internal database built into the instrument and selected a CIP code representing their major. Some CIP codes selected by respondents were randomly chosen for recode review by expert coders. If respondents did not select a CIP code, expert coders attempted to upcode this major. In the event expert coders recoded a new CIP code or upcoded a CIP code, this flag was set to 1. If the flag was set to 1, the following variables were changed to reflect the new CIP code: N16BOM1GEN, N16BOM1SPE.

0 = Not upcoded or recoded

1 = Yes, upcoded or recoded

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16BMATHNUM

Number of math courses taken since July 2014

How many math courses have you taken since July 2014?

Applies To: First-year undergraduate respondents.

Source: NPSAS:16 Field Test Student Interview

N16BMATHREM

Taken basic or developmental math courses since July 2014

Since July 2014, have you taken any basic or developmental algebra or mathematics courses?

0 = Did not take basic/developmental math courses

1 = Yes, took basic/developmental math courses

Applies To: First-year undergraduate respondents who had taken one or more math courses since beginning of the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16BASMATH

Course taken since July 2014: Arithmetic or Basic Mathematics

Since July 2014, have you taken any of the following courses? Please select the titles of any courses that seem closely related to the ones you have taken.

Arithmetic or Basic Mathematics

0 = Did not take Arithmetic or Basic Math

1 = Yes, took Arithmetic or Basic Math

Applies To: First-year undergraduate respondents who had taken math courses in the 2014-15 academic year, but had not taken a basic/developmental algebra or basic/developmental math course.

Source: NPSAS:16 Field Test Student Interview

N16BFUNDMATH

Course taken since July 2014: Fundamentals of

Algebra/Mathematics

Since July 2014, have you taken any of the following courses? Please select the titles of any courses that seem closely related to the ones you have taken.

Fundamentals of Algebra and/or Fundamentals of Mathematics

0 = Did not take Fundamentals of Algebra/Math

1 = Yes, took Fundamentals of Algebra/Math

Applies To: First-year undergraduate respondents who had taken math courses in the 2014-15 academic year, but had not taken a basic/developmental algebra or basic/developmental math course.

Source: NPSAS:16 Field Test Student Interview

N16BBEGMATH

Course taken since July 2014: Beginning/Intermediate Algebra/Math

Since July 2014, have you taken any of the following courses? Please select the titles of any courses that seem closely related to the ones you have taken.

Beginning/Intermediate Algebra or

Beginning/Intermediate Mathematics

0 = Did not take Beginning/Intermediate

Algebra/Math

1 = Yes, took Beginning/Intermediate

Algebra/Math

Applies To: First-year undergraduate respondents who had taken math courses in the 2014-15 academic year, but had not taken a basic/developmental algebra or basic/developmental math course.

Source: NPSAS:16 Field Test Student Interview

N16BINTALG

Course taken since July 2014: Introduction to Algebra

Since July 2014, have you taken any of the following courses? Please select the titles of any courses that seem closely related to the ones you have taken.

Introduction to Algebra

0 = Did not take Introduction to Algebra

1 = Yes, took Introduction to Algebra

Applies To: First-year undergraduate respondents who had taken math courses in the 2014-15 academic year, but had not taken a basic/developmental algebra or basic/developmental math course.

Source: NPSAS:16 Field Test Student Interview

N16BCOLLALG

Course taken since July 2014: College Algebra

Since July 2014, have you taken any of the following courses? Please select the titles of any courses that seem closely related to the ones you have taken.

College Algebra

0 = Did not take College Algebra

1 = Yes, took College Algebra

Applies To: First-year undergraduate respondents who had taken math courses in the 2014-15 academic year, but had not taken a basic/developmental algebra or basic/developmental math course.

Source: NPSAS:16 Field Test Student Interview

N16BPRECALC

Course taken since July 2014: Pre-calculus

Since July 2014, have you taken any of the following courses? Please select the titles of any courses that seem closely related to the ones you have taken.

Pre-calculus

0 = Did not take Pre-calculus

1 = Yes, took Pre-calculus

Applies To: First-year undergraduate respondents who had taken math courses in the 2014-15 academic year, but had not taken a basic/developmental algebra or basic/developmental math course.

Source: NPSAS:16 Field Test Student Interview

N16BCALCULUS

Course taken since July 2014: Calculus or Calculus-based course

Since July 2014, have you taken any of the following courses? Please select the titles of any courses that seem closely related to the ones you have taken.

Calculus or Calculus-based course

0 = Did not take Calculus

1 = Yes, took Calculus

Applies To: First-year undergraduate respondents who had taken math courses in the 2014-15 academic year, but had not taken a basic/developmental algebra or basic/developmental math course.

Source: NPSAS:16 Field Test Student Interview

N16BOTHMATH

Course taken since July 2014: other math course

Since July 2014, have you taken any of the following courses? Please select the titles of any courses that seem closely related to the ones you have taken.

Other

0 = Did not take other math course

1 = Yes, took other math course

Applies To: First-year undergraduate respondents who had taken math courses in the 2014-15 academic year, but had not taken a basic/developmental algebra or basic/developmental math course.

Source: NPSAS:16 Field Test Student Interview

N16BBEGMTRQ

Course fulfilled general ed or degree requirement: Begin/Int Alg/Math

Do any of the following courses fulfill a general education requirement and/or a degree requirement?

Beginning/Intermediate Algebra or

Beginning/Intermediate Mathematics

0 = No, Begin/Int Alg/Math did not fulfill requirement

1 = Yes, Begin/Int Alg/Math fulfilled requirement

Applies To: First-year undergraduate respondents who selected at least one math course that was identified as potentially basic/developmental.

Source: NPSAS:16 Field Test Student Interview

N16BINTALGRQ

Course fulfilled general ed or degree requirement: Intro to Algebra

Do any of the following courses fulfill a general education requirement and/or a degree requirement?

Introduction to Algebra

0 = No, Intro to Algebra did not fulfill requirement

1 = Yes, Intro to Algebra fulfilled requirement

Applies To: First-year undergraduate respondents who selected at least one math course that was identified as potentially basic/developmental.

Source: NPSAS:16 Field Test Student Interview

N16BCOLALGRQ

Course fulfilled general ed or degree requirement: College Algebra

Do any of the following courses fulfill a general education requirement and/or a degree requirement?

College Algebra

0 = No, College Algebra did not fulfill requirement

1 = Yes, College Algebra fulfilled requirement

Applies To: First-year undergraduate respondents who selected at least one math course that was identified as potentially basic/developmental.

Source: NPSAS:16 Field Test Student Interview

N16BOTHMTRQ

Course fulfilled general ed or degree requirement: other math course

Do any of the following courses fulfill a general education requirement and/or a degree requirement?

[{If N16BOTHMATH = 1 and [Other math course] ne - 9} [other math course] {else} Basic math course]

0 = No, other math course did not fulfill requirement

1 = Yes, other math course fulfilled requirement

Applies To: First-year undergraduate respondents who selected at least one math course that was identified as potentially basic/developmental.

Source: NPSAS:16 Field Test Student Interview

N16BREADNUM

Number of reading courses taken since July 2014

How many English, reading, writing, or literature courses have you taken since July 2014?

Applies To: First-year undergraduate respondents.

Source: NPSAS:16 Field Test Student Interview

N16BREADREM

Taken basic/developmental English/writing/reading since July 2014

Since July 2014, have you taken any basic or developmental English, writing, or reading courses?

0 = Did not take basic Engl, writing, reading courses

1 = Yes, took basic English, writing, reading courses

Applies To: First-year undergraduate respondents who had taken one or more reading courses since beginning of the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16BESL

Course taken since July 2014: English as second language

Since July 2014, have you taken any of the following courses? Please select the titles of any courses that seem closely related to the ones you have taken.

English as a second language or ESL

0 = Did not take English as second language

1 = Yes, took English as a second language

Applies To: First-year undergraduate respondents who had taken reading courses in the 2014-15 academic year, but had not taken any basic/developmental reading courses.

Source: NPSAS:16 Field Test Student Interview

N16BBASWRIT

Course taken since July 2014: Basic Writing/Composition Skills

Since July 2014, have you taken any of the following courses? Please select the titles of any courses that seem closely related to the ones you have taken.

Basic Writing Skills or Basic Composition Skills

0 = Did not take Basic Writing/Composition Skills

1 = Yes, took Basic Writing/Composition Skills

Applies To: First-year undergraduate respondents who had taken reading courses in the 2014-15 academic year, but had not taken any basic/developmental reading courses.

Source: NPSAS:16 Field Test Student Interview

N16BCOLLREAD

Course taken since July 2014: College Reading

Since July 2014, have you taken any of the following courses? Please select the titles of any courses that seem closely related to the ones you have taken.

College Reading

0 = Did not take College Reading

1 = Yes, took College Reading

Applies To: First-year undergraduate respondents who had taken reading courses in the 2014-15 academic year, but had not taken any basic/developmental reading courses.

Source: NPSAS:16 Field Test Student Interview

N16BFOUNREAD

Course taken since July 2014: Foundations of Writing/Reading/English

Since July 2014, have you taken any of the following courses? Please select the titles of any courses that seem closely related to the ones you have taken.

Foundations of Writing, Foundations of English, or Foundations of Reading

0 = Did not take Foundations of Writ/Read/English

1 = Yes, took Foundations of Writ/Read/English

Applies To: First-year undergraduate respondents who had taken reading courses in the 2014-15 academic year, but had not taken any basic/ developmental reading courses.

Source: NPSAS:16 Field Test Student Interview

N16BINTWRIT

Course taken since July 2014: Introduction to Writing or Composition

Since July 2014, have you taken any of the following courses? Please select the titles of any courses that seem closely related to the ones you have taken.

Introduction to Writing or Composition

0 = Did not take Intro to Writing/Composition

1 = Yes, took Intro to Writing/Composition

Applies To: First-year undergraduate respondents who had taken reading courses in the 2014-15 academic year, but had not taken any basic/ developmental reading courses.

Source: NPSAS:16 Field Test Student Interview

N16BCOLLCOMP

Course taken since July 2014: College Composition

Since July 2014, have you taken any of the following courses? Please select the titles of any courses that seem closely related to the ones you have taken.

College Composition

0 = Did not take College Composition

1 = Yes, took College Composition

Applies To: First-year undergraduate respondents who had taken reading courses in the 2014-15 academic year, but had not taken any basic/ developmental reading courses.

Source: NPSAS:16 Field Test Student Interview

N16BINTLIT

Course taken since July 2014: Introduction to Literature

Since July 2014, have you taken any of the following courses? Please select the titles of any courses that seem closely related to the ones you have taken.

Introduction to Literature

0 = Did not take Introduction to Literature

1 = Yes, took Introduction to Literature

Applies To: First-year undergraduate respondents who had taken reading courses in the 2014-15 academic year, but had not taken any basic/ developmental reading courses.

Source: NPSAS:16 Field Test Student Interview

N16BOTHREAD

Course taken since July 2014: other reading course

Since July 2014, have you taken any of the following courses? Please select the titles of any courses that seem closely related to the ones you have taken.

Other

0 = Did not take other reading course

1 = Yes, took other reading course

Applies To: First-year undergraduate respondents who had taken reading courses in the 2014-15 academic year, but had not taken any basic/ developmental reading courses.

Source: NPSAS:16 Field Test Student Interview

N16BBASWRTRQ

Course fulfilled general ed or degree requirement: Basic Writing/Comp

Do any of the following courses fulfill a general education requirement and/or a degree requirement?

Basic Writing Skills or Basic Composition Skills

0 = No, Basic Writ/Comp Skills did not fulfill

req

1 = Yes, Basic Writ/Comp Skills fulfilled req

Applies To: First-year undergraduate respondents who selected at least one reading course that was identified as potentially basic/ developmental.

Source: NPSAS:16 Field Test Student Interview

N16BCOLLRDRQ

Course fulfilled general ed or degree requirement: College Reading

Do any of the following courses fulfill a general education requirement and/or a degree requirement?

College Reading

0 = No, College Reading did not fulfill

requirement

1 = Yes, College Reading fulfilled requirement

Applies To: First-year undergraduate respondents who selected at least one reading course that was identified as potentially basic/ developmental.

Source: NPSAS:16 Field Test Student Interview

N16BFOUNRDRQ

Course fulfilled general ed or degree requirement: Foun Writ/Eng/Read

Do any of the following courses fulfill a general education requirement and/or a degree requirement?

Foundations of Writing, Foundations of English, or

Foundations of Reading

0 = No, Foun of Writ/Read/Eng did not fulfill

req

1 = Yes, Foun of Writ/Read/Eng fulfilled req

Applies To: First-year undergraduate respondents who selected at least one reading course that was identified as potentially basic/ developmental.

Source: NPSAS:16 Field Test Student Interview

N16BINTWRTRQ

Course fulfilled general ed or degree requirement: Int to Writing/Comp

Do any of the following courses fulfill a general education requirement and/or a degree requirement?

Introduction to Writing or Composition

- 0 = No, Intro to Writing/Comp did not fulfill req
 1 = Yes, Intro to Writing/Comp fulfilled req

Applies To: First-year undergraduate respondents who selected at least one reading course that was identified as potentially basic/developmental.

Source: NPSAS:16 Field Test Student Interview

N16BCOLLCMPRQ

Course fulfilled general ed or degree requirement: College Composition

Do any of the following courses fulfill a general education requirement and/or a degree requirement?

College Composition

- 0 = No, College Comp did not fulfill requirement
 1 = Yes, College Comp fulfilled requirement

Applies To: First-year undergraduate respondents who selected at least one reading course that was identified as potentially basic/developmental.

Source: NPSAS:16 Field Test Student Interview

N16BOTHDRQ

Course fulfilled general ed or degree requirement: other reading course

Do any of the following courses fulfill a general education requirement and/or a degree requirement?

[If N16BOTHREAD = 1 and [other reading course] ne -9] [Other reading course] {else} Basic reading course]

- 0 = No, other reading course did not fulfill requirement
 1 = Yes, other reading course fulfilled requirement

Applies To: First-year undergraduate respondents who selected at least one reading course that was identified as potentially basic/developmental.

Source: NPSAS:16 Field Test Student Interview

N16BPRTONLIN

Any classes at NPSAS partially online in 2014-15 academic year

In the 2014-2015 school year, were any of your classes at [NPSAS] conducted partially online? (Partially online courses include some in-person components and students also access some of their instruction over the Internet.)

- 0 = No classes at NPSAS partially online
 1 = Yes, classes at NPSAS partially online

Applies To: All respondents except those whose entire degree program was online.

Source: NPSAS:16 Field Test Student Interview

N16BONLEXAM

Components of classes conducted online: exams or quizzes

Which of the following components of these classes were conducted online?

Exams or quizzes

- 0 = No online exams or quizzes
 1 = Yes, online exams or quizzes

Applies To: Respondents who had taken any classes at NPSAS partially online in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16BONLPRES

Components of classes conducted online: lectures or presentations

Which of the following components of these classes were conducted online?

Lectures or presentations

- 0 = No online lectures or presentations
 1 = Yes, online lectures or presentations

Applies To: Respondents who had taken any classes at NPSAS partially online in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16BONLORIEN

Components of classes conducted online: orientation/first day of class

Which of the following components of these classes were conducted online?

Orientation or first day of class

- 0 = No online orientations
 1 = Yes, online orientations

Applies To: Respondents who had taken any classes at NPSAS partially online in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16BONLHW

Components of classes conducted online: homework or problem sets

Which of the following components of these classes were conducted online?

Homework or problem sets

- 0 = No online homework or problem sets
 1 = Yes, online homework or problem sets

Applies To: Respondents who had taken any classes at NPSAS partially online in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16BONLDISC

Components of classes conducted online: discussions

Which of the following components of these classes were conducted online?

Discussions (e.g., e-board postings or live chat)

- 0 = No online discussions
 1 = Yes, online discussions

Applies To: Respondents who had taken any classes at NPSAS partially online in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16BOTHONL*Components of classes conducted online: other*

Which of the following components of these classes were conducted online?

Other

0 = No other online components

1 = Yes, other online components

Applies To: Respondents who had taken any classes at NPSAS partially online in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16CCSTTEXT*Cost of required textbooks/ materials: required textbooks-print version*

Now, we'd like to ask you some questions about money you spent on any instructional materials required by your school or instructor for classes. Please do not include optional or recommended course materials in your answers. During the 2014-2015 school year, about how much did you spend on: (Indicate "0" if you did not spend money on any one of these items. Digital access codes purchased separately from textbooks should be included in the "Other required course materials" category.)

Required textbooks—print versions only

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16CCSTDIG*Cost of required textbooks/ materials: required digital textbooks*

Now, we'd like to ask you some questions about money you spent on any instructional materials required by your school or instructor for classes. Please do not include optional or recommended course materials in your answers. During the 2014-2015 school year, about how much did you spend on: (Indicate "0" if you did not spend money on any one of these items. Digital access codes purchased separately from textbooks should be included in the "Other required course materials" category.)

Required digital textbooks

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16CCSTTECH*Cost of required textbooks/ materials: tech (required to take a class)*

Now, we'd like to ask you some questions about money you spent on any instructional materials required by your school or instructor for classes. Please do not include optional or recommended course materials in your answers. During the 2014-2015 school year, about how much did you spend on: (Indicate "0" if you did not spend money on any one of these items. Digital access

codes purchased separately from textbooks should be included in the "Other required course materials" category.)

Technology (required to take a class)

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16CCSTSUPP*Cost of required textbooks/ materials: supplies*

Now, we'd like to ask you some questions about money you spent on any instructional materials required by your school or instructor for classes. Please do not include optional or recommended course materials in your answers. During the 2014-2015 school year, about how much did you spend on: (Indicate "0" if you did not spend money on any one of these items. Digital access codes purchased separately from textbooks should be included in the "Other required course materials" category.)

Supplies

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16CCSTOTH*Cost of required textbooks/ materials: other materials not mentioned*

Now, we'd like to ask you some questions about money you spent on any instructional materials required by your school or instructor for classes. Please do not include optional or recommended course materials in your answers. During the 2014-2015 school year, about how much did you spend on: (Indicate "0" if you did not spend money on any one of these items. Digital access codes purchased separately from textbooks should be included in the "Other required course materials" category.)

Other required course materials not already reported

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16BSATISACD*Unhappy with studies at NPSAS institution*

[If COMPMODE = 1]

Please use a number from 1 to 5 to respond to the following statement. One means "completely disagree" and five means "completely agree." Generally, I [if TCURENR = 1] am [else] was] unhappy with my studies at [NPSAS].

[else]

Please use a number from 1 to 5 to respond to the following statement. Generally, I [if TCURENR = 1] am [else] was] unhappy with my studies at [NPSAS].

1 = 1 (Completely disagree)

2 = 2 (Somewhat disagree)

- 3 = 3 (Neither disagree nor agree)
- 4 = 4 (Somewhat agree)
- 5 = 5 (Completely agree)

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16BIMPRSRCH

Activities in undergraduate program: research project with faculty

Have you participated in any of the following as part of your undergraduate education?

Research project with a faculty member outside of course or program requirements

- 0 = Did not participate in faculty research project
- 1 = Yes, participated in faculty research project

Applies To: B&B-eligible respondents.

Source: NPSAS:16 Field Test Student Interview

N16BIMPCOMM

Activities in undergraduate program: community based project

Have you participated in any of the following as part of your undergraduate education?

Community-based project as part of a regular course (for example, service learning)

- 0 = Did not participate in community based project
- 1 = Yes, participated in community based project

Applies To: B&B-eligible respondents.

Source: NPSAS:16 Field Test Student Interview

N16BIMPSENR

Activities in undergraduate program: culminating senior experience

Have you participated in any of the following as part of your undergraduate education?

Culminating senior experience, such as capstone course, senior project or thesis, or comprehensive exam

- 0 = Did not participate in senior experience
- 1 = Yes, participated in senior experience

Applies To: B&B-eligible respondents.

Source: NPSAS:16 Field Test Student Interview

N16BIMPMENT

Activities in undergraduate program: program in which mentored

Have you participated in any of the following as part of your undergraduate education?

Program in which you were mentored

- 0 = Did not participate in mentoring program
- 1 = Yes, participated in mentoring program

Applies To: B&B-eligible respondents.

Source: NPSAS:16 Field Test Student Interview

N16BIMPLRN

Activities in undergraduate program: learning community

Have you participated in any of the following as part of your undergraduate education?

Learning community or some other formal program where groups of students take two or more classes together

- 0 = Did not participate in learning community
- 1 = Yes, participated in learning community

Applies To: B&B-eligible respondents.

Source: NPSAS:16 Field Test Student Interview

N16BSABEVR

Ever study abroad during undergraduate education

[If TSTAT in (2 4)]

During your undergraduate education, did you ever study abroad?

[else if TB4JULY = 1]

During your undergraduate education, [if TCURENR = 1} have you ever studied abroad {else} did you ever study abroad?]

[else]

During your undergraduate education, did you ever study abroad before July 2015?

- 0 = Did not study abroad
- 1 = Yes, studied abroad

Applies To: All respondents, except those who studied abroad for the entire the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16BSABCONT1

Group 1: last continent in which studied abroad

[If TSTAT in (2 4)]

1. On which continent did you last study abroad during your undergraduate education? 2. In which country did you last study abroad during your undergraduate education?

[else]

1. On which continent did you last study abroad? 2. In which country did you last study abroad?

- 1 = Africa
- 2 = Asia
- 3 = Australia/Oceania
- 4 = Europe
- 5 = North America
- 6 = South America
- 7 = Other

Applies To: Respondents who had studied abroad during undergraduate education and were in study abroad experiment group 1.

Source: NPSAS:16 Field Test Student Interview

N16BASACOUNA*Group 1: last country in which studied abroad*

[If TSTAT in (2 4)]

1. On which continent did you last study abroad during your undergraduate education? 2. In which country did you last study abroad during your undergraduate education?

[else]

1. On which continent did you last study abroad? 2. In which country did you last study abroad?

1 = Algeria

2 = Angola

3 = Benin

4 = Botswana

5 = Burkina Faso

6 = Burundi

7 = Cameroon

8 = Cape Verde

9 = Central African Republic

10 = Chad

11 = Comoros

12 = Cote d'Ivoire

13 = Democratic Republic of the Congo

14 = Djibouti

15 = Egypt

16 = Equatorial Guinea

17 = Eritrea

18 = Ethiopia

19 = Gabon

20 = Gambia

21 = Ghana

22 = Guinea

23 = Guinea-Bissau

24 = Kenya

25 = Lesotho

26 = Liberia

27 = Libya

28 = Madagascar

29 = Malawi

30 = Mali

31 = Mauritania

32 = Mauritius

33 = Morocco

34 = Mozambique

35 = Namibia

36 = Niger

37 = Nigeria

38 = Republic of Congo

39 = Rwanda

40 = Sao Tome and Principe

41 = Senegal

42 = Seychelles

43 = Sierra Leone

44 = Somalia

45 = South Africa

46 = South Sudan

47 = Sudan

48 = Swaziland

49 = Tanzania

50 = Togo

51 = Tunisia

52 = Uganda

53 = Zambia

54 = Zimbabwe

55 = Afghanistan

56 = Armenia

57 = Azerbaijan

58 = Bahrain

59 = Bangladesh

60 = Bhutan

61 = Brunei

62 = Burma

63 = Cambodia

64 = China

65 = Cyprus

66 = Georgia

67 = Hong Kong

68 = India

69 = Indonesia

70 = Iran

71 = Iraq

72 = Israel

73 = Japan

74 = Jordan

75 = Kazakhstan

76 = Kuwait

77 = Kyrgyzstan

78 = Laos

79 = Lebanon

80 = Macau

81 = Malaysia

82 = Maldives

83 = Mongolia

84 = Nepal

85 = North Korea

86 = Oman

87 = Pakistan

88 = Palestinian Territories

89 = Philippines

90 = Qatar

91 = Russia

92 = Saudi Arabia

93 = Singapore

94 = South Korea

95 = Sri Lanka

96 = Syria

97 = Taiwan	152 = Netherlands
98 = Tajikistan	153 = Norway
99 = Thailand	154 = Poland
101 = Turkey	155 = Portugal
102 = Turkmenistan	156 = Romania
103 = United Arab Emirates	157 = San Marino
104 = Uzbekistan	158 = Serbia
105 = Vietnam	159 = Sint Maarten
106 = Yemen	160 = Slovakia
107 = Australia	161 = Slovenia
108 = Fiji	162 = Spain
109 = Kiribati	163 = Sweden
110 = Marshall Islands	164 = Switzerland
111 = Micronesia	165 = Ukraine
112 = Nauru	166 = United Kingdom
113 = New Zealand	167 = Vatican (Holy See)
114 = Palau	168 = Antigua and Barbuda
115 = Papua New Guinea	169 = Bahamas
116 = Samoa	171 = Belize
117 = Solomon Islands	172 = Canada
118 = Timor-Leste (East Timor)	173 = Costa Rica
119 = Tonga	174 = Cuba
120 = Tuvalu	175 = Dominica
121 = Vanuatu	176 = Dominican Republic
122 = Albania	177 = El Salvador
123 = Andorra	178 = Grenada
124 = Austria	179 = Guatemala
125 = Belarus	180 = Haiti
126 = Belgium	181 = Honduras
127 = Bosnia and Herzegovina	182 = Jamaica
128 = Bulgaria	183 = Mexico
129 = Croatia	184 = Nicaragua
130 = Curacao	185 = Panama
131 = Czech Republic	186 = Saint Kitts and Nevis
132 = Denmark	187 = Saint Lucia
133 = Estonia	188 = Saint Vincent and the Grenadines
134 = Finland	189 = Trinidad and Tobago
135 = France	190 = United States
136 = Germany	191 = Argentina
137 = Greece	192 = Aruba
139 = Iceland	193 = Barbados
140 = Ireland	194 = Bolivia
141 = Italy	195 = Brazil
142 = Kosovo	196 = Chile
143 = Latvia	197 = Colombia
144 = Liechtenstein	199 = Ecuador
145 = Lithuania	201 = Guyana
146 = Luxembourg	202 = Paraguay
147 = Macedonia	203 = Peru
148 = Malta	207 = Suriname
149 = Moldova	209 = Uruguay
150 = Monaco	210 = Venezuela
151 = Montenegro	211 = Other country

Applies To: Respondents who had studied abroad during undergraduate education and were in study abroad experiment group 1.

Source: NPSAS:16 Field Test Student Interview

N16BASACOUNB

Group 2: Last country in which studied abroad

[If TSTAT in (2 4)]

In which country did you last you study abroad during your undergraduate education?

[else]

In which country did you last you study abroad?

Applies To: Respondents who had studied abroad during undergraduate education and were in study abroad experiment group 2.

Source: NPSAS:16 Field Test Student Interview

N16BSALENAMT

Length of time studied abroad: amount

[If Y_STDAEXP = 1]

How long did you study abroad in [{if N16BASACOUNA ne -9} [N16BASACOUNA] {else} the last country you visited]?

[else]

How long did you study abroad in [{if N16BASACOUNB ne -9} [N16BASACOUNB] {else} the last country you visited]?

Notes: This question was asked in two parts: respondents were asked to provide the duration of their study abroad (N16BSALENAMT) and then indicate the time frame for that travel (N16BSALENTIM). These variables must be combined in order to analyze these data accurately.

Applies To: Respondents who had studied abroad during undergraduate education.

Source: NPSAS:16 Field Test Student Interview

N16BSALENTIM

Length of time studied abroad: time

[If Y_STDAEXP = 1]

How long did you study abroad in [{if N16BASACOUNA ne -9} [N16BASACOUNA] {else} the last country you visited]?

[else]

How long did you study abroad in [{if N16BASACOUNB ne -9} [N16BASACOUNB] {else} the last country you visited]?

Notes: This question was asked in two parts: respondents were asked to provide the duration of their study abroad (N16BSALENAMT) and then indicate the time frame for that travel (N16BSALENTIM). These variables must be combined in order to analyze these data accurately.

1 = Year(s)

2 = Term(s) or Semester(s)

3 = Month(s)

4 = Week(s)

Applies To: Respondents who had studied abroad during undergraduate education.

Source: NPSAS:16 Field Test Student Interview

N16BEXPEVR

Highest level of education ever expected

What is the highest level of education you ever expect to complete at any school? (Provide your best guess even if you are not sure.)

Notes: Professional degrees include the following types of degrees: chiropractic, dentistry, law, medicine, optometry, pharmacy, podiatry, and veterinary medicine degrees.

Doctoral degrees include degrees such as PhDs and EdDs, etc.

1 = Undergraduate-level courses

2 = Undergraduate certificate or diploma

3 = Associate's degree

4 = Bachelor's degree

5 = Graduate-level courses

6 = Post-baccalaureate certificate

7 = Master's degree

8 = Post-master's certificate

9 = Doctoral degree, research/scholarship

10 = Professional doctoral degree

Applies To: Respondents who were not in a doctoral degree program.

Source: NPSAS:16 Field Test Student Interview

N16CREFUND1

Received refund of scholarships, grants, or loans after paying tuition

[If N16CAIDLOAN1 = 1 or N16CAIDLOAN2 = 1]

After paying for your tuition and fees, did you or will you receive a refund of any scholarships, grants, or loans from [NPSAS]?

[else]

After paying for your tuition and fees, did you or will you receive a refund of any scholarships or grants from [NPSAS]?

0 = Did not receive refund from NPSAS

1 = Yes, received refund from NPSAS

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16CREFUND2

Method of receiving refund from NPSAS institution

Did you or will you...

1 = Deposit refund directly to bank account

2 = Cash or deposit refund at a bank yourself

3 = Cash somewhere other than a bank

4 = Receive refund on prepaid debit card

5 = Receive refund through student ID card

6 = Do something else not listed

Applies To: Respondents who received a refund from NPSAS.

Source: NPSAS:16 Field Test Student Interview

N16CAPPAID

Applied for financial aid in 2014-15 academic year

Did you apply for financial aid for the 2014-2015 school year?

0 = Did not apply for financial aid

1 = Yes, applied for financial aid

Applies To: Respondents who did not take out loans (from any source) in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16CNODEBT

Reason for not applying: did not want to take on debt

Please indicate whether the following were reasons you did not apply for financial aid. Was it because you...

Did not want to take on debt

0 = Not because did not want debt

1 = Yes, because did not want debt

Applies To: Respondents who did not take out loans (from any source) and did not apply for financial aid in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16CNONEED

Reason for not applying: could afford school without financial aid

Please indicate whether the following were reasons you did not apply for financial aid. Was it because you...

Could afford to go to school without financial aid

0 = Not because did not need financial aid

1 = Yes, because did not need financial aid

Applies To: Respondents who did not take out loans (from any source) and did not apply for financial aid in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16CTHKEL

Reason for not applying: thought ineligible

Please indicate whether the following were reasons you did not apply for financial aid. Was it because you...

Thought you would be ineligible

0 = Not because thought ineligible

1 = Yes, because thought ineligible

Applies To: Respondents who did not take out loans (from any source) and did not apply for financial aid in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16CHSAPP

Reason for not applying: no information about how to apply

Please indicate whether the following were reasons you did not apply for financial aid. Was it because you...

Did not have enough information about how to apply for financial aid

0 = Not because did not have enough information

1 = Yes, because did not have enough information

Applies To: Respondents who did not take out loans (from any source) and did not apply for financial aid in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16CFMCON

Reason for not applying: forms too much work or too time-consuming

Please indicate whether the following were reasons you did not apply for financial aid. Was it because you...

Thought the application forms were too much work or too time-consuming

0 = Not because forms were too much work

1 = Yes, because forms were too much work

Applies To: Respondents who did not take out loans (from any source) and did not apply for financial aid in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16CAPOTH

Reason for not applying: other reason

Please indicate whether the following were reasons you did not apply for financial aid. Was it because you...

Other reason not listed

0 = Not because of reason not listed

1 = Yes, because of reason not listed

Applies To: Respondents who did not take out loans (from any source) and did not apply for financial aid in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16CM2FEDLN

Took out federal loans in 2014-15 academic year

Thinking only about the 2014-2015 school year, did you take out any federal student loans? (Federal student loans include subsidized and unsubsidized Direct Loans [also known as Stafford Loans], Perkins Loans, and graduate student PLUS Loans, but do not include parent PLUS Loans.)

0 = Did not take out federal loans

1 = Yes, took out federal loans

Applies To: Respondents in the module treatment groups (where Y_MODULE = 1) who took out loans (from any source) in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16CM2FEDAMT

Amount borrowed in federal loans in 2014-15 academic year

For the 2014-2015 school year, how much did you borrow in federal student loans? Do not include any money borrowed in private loans or any money borrowed from family or friends in your answer. (If you are unsure of the amount of your federal student loans, please provide your best guess.)

Applies To: Respondents in the module treatment groups (where Y_MODULE = 1) who took out federal student loans in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16CM2FEDEST

Estimated amount borrowed in federal loans in 2014-15 academic year

For the 2014-2015 school year only, please indicate the range for how much you borrowed in federal student loans. Would you say it was...

- 1 = Less than \$4,000
- 2 = \$4,000 - \$7,999
- 3 = \$8,000 - \$9,999
- 4 = \$10,000 - \$12,999
- 5 = \$13,000 - \$15,999
- 6 = \$16,000 - \$19,999
- 7 = \$20,000 or more
- 8 = Don't know

Applies To: Respondents in the module treatment groups (where Y_MODULE = 1) who took out federal student loans in the 2014-15 academic year and did not provide an amount.

Source: NPSAS:16 Field Test Student Interview

N16CDCLN

Offered any federal student loans in 2014-15 academic year

When you were deciding how to pay for college for the 2014-2015 school year, were you offered any federal student loans?

- 0 = No, was not offered federal student loans
- 1 = Yes, was offered federal student loans

Applies To: Undergraduate respondents, except those that did not apply for financial aid and those that did not take out federal student loans.

Source: NPSAS:16 Field Test Student Interview

N16CDCMAXLN

Chose to accept max amount of federal loans in 2014-15 academic year

In the 2014-2015 school year, did you choose to take out the maximum amount of student loans offered to you by the federal government?

- 0 = Did not take out maximum federal loans offered

- 1 = Yes, took out maximum federal loans offered

Applies To: Undergraduate respondents who took out federal student loans.

Source: NPSAS:16 Field Test Student Interview

N16CDCLRSN

Main reason for choosing not to accept loans

[If N16CDCMAXLN = 0]

What was your main reason for choosing not to accept the full amount of money you were offered?

[else]

What was your main reason for choosing not to accept the loan(s)?

- 1 = Costs were already covered
- 2 = Concerned about ability to repay
- 3 = Did not understand the terms of the loan
- 4 = Did not like the terms of the loan
- 5 = Did not want more debt
- 6 = Other reason

Applies To: Undergraduate respondents who did not accept any of the federal loans they were offered, or only accepted some of the federal loans they were offered.

Source: NPSAS:16 Field Test Student Interview

N16CFEWCLSES

To avoid taking out loans in 2014-15; took fewer classes

[If N16CM2FEDLN = 1 or (Y_MODULE = 0 and N16CFEDLN = 1) or N16CPRVLN = 1]

As a way to avoid taking out additional student loans during the 2014-2015 school year, did you choose to... [else]

As a way to avoid taking out student loans during the 2014-2015 school year, did you choose to...

Take fewer classes at [NPSAS]?

- 0 = Did not take fewer classes to avoid loans
- 1 = Yes, took fewer classes to avoid loans

Applies To: Undergraduate respondents, except those who took out the maximum federal student loans offered them in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16CCSTLESS

To avoid taking out loans in 2014-15; attended school that cost less

[If N16CM2FEDLN = 1 or (Y_MODULE = 0 and N16CFEDLN = 1) or N16CPRVLN = 1]

As a way to avoid taking out additional student loans during the 2014-2015 school year, did you choose to... [else]

As a way to avoid taking out student loans during the 2014-2015 school year, did you choose to...

Attend a school that cost you less?

0 = Did not attend less costly school to avoid loans

1 = Yes, attended less costly school to avoid loans

Applies To: Undergraduate respondents, except those who took out the maximum federal student loans offered them in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16CWRKMORE

To avoid taking out loans in 2014-15: got a job or worked more hours

[If N16CM2FEDLN = 1 or (Y_MODULE = 0 and N16CFEDLN = 1) or N16CPRVLN = 1]

As a way to avoid taking out additional student loans during the 2014-2015 school year, did you choose to... [else]

As a way to avoid taking out student loans during the 2014-2015 school year, did you choose to...

Get a job or work more hours?

0 = Did not work more to avoid loans

1 = Yes, worked more to avoid loans

Applies To: Undergraduate respondents, except those who took out the maximum federal student loans offered them in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16CUNMETND

Would have borrowed (more) money for 2014-15 academic year

[If N16CAIDLOAN1 = 1]

Would you have borrowed more money for the 2014-2015 school year if you could have?

[else]

Would you have borrowed money for the 2014-2015 school year if you could have?

0 = Would not have borrowed more money

1 = Yes, would have borrowed more money

Applies To: Undergraduate respondents, except those who took out the maximum federal student loans offered them in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16CNEEDAMT

Amount would have borrowed for 2014-15 academic year

[If N16CAIDLOAN1 = 1]

How much more money would you have borrowed for the 2014-2015 school year if you could have?

[else]

How much money would you have borrowed for the 2014-2015 school year if you could have?

1 = Less than \$1,000

2 = \$1,000 - \$1,999

3 = \$2,000 - \$2,999

4 = \$3,000 - \$4,999

5 = \$5,000 or more

6 = 0

Applies To: Undergraduate respondents, except those who took out the maximum federal student loans offered them in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16CGRLNNPYR

Graduate loan amount borrowed for 2014-15 academic year

For the 2014-2015 school year only, what is the total amount of money you borrowed in student loans for your graduate education? Please include all federal, private, state, and school loans. Do not include any grants or scholarships or any money borrowed from family or friends in your answer. (If you are unsure of the amount, please provide your best guess.)

Applies To: Graduate respondents who took out loans (from any source) in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16CGRLNYEST

Estimated graduate loan amount borrowed for 2014-15 academic year

The NPSAS interview is designed to help us better understand how students and their families pay for college expenses through savings, financial aid, and work. Please consider answering this important question. For your graduate education for the 2014-2015 school year only (July 1, 2014-June 30, 2015), would you say that you borrowed...

0 = \$0

1 = Less than \$10,000

2 = \$10,000 - \$14,999

3 = \$15,000 - \$24,999

4 = \$25,000 - \$34,999

5 = \$35,000 - \$44,999

6 = \$45,000 - \$59,999

7 = \$60,000 or more

8 = Don't know

Applies To: Graduate respondents who took out loans (from any source) in the 2014-15 academic year and did not provide an amount.

Source: NPSAS:16 Field Test Student Interview

N16CGRLN

Total amount borrowed for graduate education

[If TB4JULY = 1]

For your entire graduate education, how much will you have borrowed in student loans through the end of the 2014-2015 school year? Please include all federal, private, state, and school loans. Do not include any grants or scholarships or any money borrowed from family or friends in your answer. (If you are unsure of the amount,

please provide your best guess. If you have never taken out any student loans for your graduate education, enter "0" in the box.)

[else]

For your entire graduate education, how much did you borrow in student loans through the end of the 2014-2015 school year? Please include all federal, private, state, and school loans. Do not include any grants or scholarships or any money borrowed from family or friends in your answer. (If you are unsure of the amount, please provide your best guess. If you have never taken out any student loans for your graduate education, enter "0" in the box.)

Applies To: Graduate respondents.

Source: NPSAS:16 Field Test Student Interview

N16CGLNEST

Estimated total amount borrowed for graduate education

[If TB4]JULY = 1]

The NPSAS interview is designed to help us better understand how students and their families pay for college expenses through savings, financial aid, and work. Please consider answering this important question. For your entire graduate education through the end of the 2014-15 school year (July 1, 2014-June 30, 2015), would you say that you will have borrowed...

[else]

The NPSAS interview is designed to help us better understand how students and their families pay for college expenses through savings, financial aid, and work. Please consider answering this important question. For your entire graduate education through the end of the 2014-15 school year (July 1, 2014-June 30, 2015), would you say that borrowed...

0 = \$0

1 = Less than \$15,000

2 = \$15,000 - \$29,999

3 = \$30,000 - \$49,999

4 = \$50,000 - \$74,999

5 = \$75,000 - \$119,999

6 = \$120,000 - \$169,999

7 = \$170,000 or more

8 = Don't know

Applies To: Graduate respondents who did not provide a total graduate student loan amount borrowed.

Source: NPSAS:16 Field Test Student Interview

N16CGRPRVT

Total amount borrowed in private loans for graduate education

[If TB4]JULY = 1]

Of the [if N16CGRLN > 0] [N16CGRLN] {else} total amount] you will have borrowed for your graduate education through the end of the 2014-2015 school year,

how much will be in private loans? (If you are unsure of the amount, please provide your best guess. If you have never taken out any private loans for your graduate education enter "0" in the box.)

[else]

Of the [if N16CGRLN > 0] [N16CGRLN] {else} total amount] you borrowed for your graduate education through the end of the 2014-2015 school year, how much was in private loans? (If you are unsure of the amount, please provide your best guess. If you have never taken out any private loans for your graduate education enter "0" in the box.)

Applies To: Graduate respondents who borrowed any money for their graduate education.

Source: NPSAS:16 Field Test Student Interview

N16CGRPRVEST

Estimated total amt borrowed in private loans for graduate education

[If TB4]JULY = 1]

Please indicate the range for how much you will have borrowed in private loans to pay for your graduate education through the end of the 2014-2015 school year. Would you say it will be...

[else]

Please indicate the range for how much you borrowed in private loans to pay for your graduate education through the end of the 2014-2015 school year. Would you say it was...

0 = \$0

1 = Less than \$15,000

2 = \$15,000 - \$24,999

3 = \$25,000 - \$49,999

4 = \$50,000 - \$74,999

5 = \$75,000 - \$119,999

6 = \$120,000 - \$169,999

7 = \$170,000 or more

8 = Don't know

Applies To: Graduate respondents who but did not provide an amount of private loans borrowed for their graduate education.

Source: NPSAS:16 Field Test Student Interview

N16CGROWE

Share of graduate debt still owed

Do you still owe all, some, or none of the [if N16CGRLN > 0] [N16CGRLN] {else} total amount] (that you borrowed for your graduate education)?

0 = None

1 = All

2 = Some

Applies To: Graduate respondents who borrowed any money for their graduate education.

Source: NPSAS:16 Field Test Student Interview

N16CUGLN*Total amount borrowed for undergraduate education*

[If Y_NPLEVL = 3 and TB4JULY = 1]

Through the end of the 2014-2015 school year, how much will you have borrowed in student loans for your entire college or vocational education? Please include all federal, private, state, and school loans. Do not include Parent PLUS loans, grants or scholarships, or any money borrowed from family or friends. (If you are unsure of the amount, please provide your best guess. If you have never taken out any student loans for your [if TSTAT in (2 4)} undergraduate] education enter "0" in the box.)

[else if Y_NPLEVL = 3 and TB4JULY = 0]

Through the end of the 2014-2015 school year, how much did you borrow in student loans for your entire college or vocational education? Please include all federal, private, state, and school loans. Do not include Parent PLUS loans, grants or scholarships, or any money borrowed from family or friends. (If you are unsure of the amount, please provide your best guess. If you have never taken out any student loans for your [if TSTAT in (2 4)} undergraduate] education enter "0" in the box.)

[else if TB4JULY = 1]

Through the end of the 2014-2015 school year, how much will you have borrowed in student loans for your entire undergraduate education? Please include all federal, private, state, and school loans. Do not include Parent PLUS loans, grants or scholarships, or any money borrowed from family or friends. (If you are unsure of the amount, please provide your best guess. If you have never taken out any student loans for your [if TSTAT in (2 4)} undergraduate] education enter "0" in the box.)

[else]

Through the end of the 2014-2015 school year, how much did you borrow in student loans for your entire undergraduate education? Please include all federal, private, state, and school loans. Do not include Parent PLUS loans, grants or scholarships, or any money borrowed from family or friends. (If you are unsure of the amount, please provide your best guess. If you have never taken out any student loans for your [if TSTAT in (2 4)} undergraduate] education enter "0" in the box.)

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16CULNEST*Estimated total amount borrowed for undergraduate education*

[If Y_NPLEVL = 3 and TB4JULY = 1]

The NPSAS interview is designed to help us better understand how students and their families pay for college expenses through savings, financial aid, and work. Please consider answering this important question. For

your entire college or vocational education through the end of the 2014-2015 school year (July 1, 2014-June 30, 2015), would you say that you will have borrowed...

[else if Y_NPLEVL = 3 and TB4JULY = 0]

The NPSAS interview is designed to help us better understand how students and their families pay for college expenses through savings, financial aid, and work. Please consider answering this important question. For your entire college or vocational education through the end of the 2014-2015 school year (July 1, 2014-June 30, 2015), would you say that you borrowed...

[else if TB4JULY = 1]

The NPSAS interview is designed to help us better understand how students and their families pay for college expenses through savings, financial aid, and work. Please consider answering this important question. For your entire undergraduate education through the end of the 2014-2015 school year (July 1, 2014-June 30, 2015), would you say that you will have borrowed...

[else]

The NPSAS interview is designed to help us better understand how students and their families pay for college expenses through savings, financial aid, and work. Please consider answering this important question. For your entire undergraduate education through the end of the 2014-2015 school year (July 1, 2014-June 30, 2015), would you say that you borrowed...

0 = \$0

1 = Less than \$5,000

2 = \$5,000 - \$14,999

3 = \$15,000 - \$19,999

4 = \$20,000 - \$29,999

5 = \$30,000 - \$39,999

6 = \$40,000 - \$59,999

7 = \$60,000 or more

8 = Don't know

Applies To: Respondents who did not provide a total undergraduate student loan amount borrowed.

Source: NPSAS:16 Field Test Student Interview

N16CUGPRVT*Total amount borrowed in private loans for undergraduate education*
[If TSTAT in (2 4)]

Of the [if N16CUGLN > 0} [N16CUGLN] {else} total amount] you borrowed for your undergraduate education, how much was in private loans? (If you are unsure of the amount, please provide your best guess. If you have never taken out any private loans for your [if TSTAT in (2 4)} undergraduate] education, enter "0" in the box.)

[else if Y_NPLEVL = 3 and TB4JULY = 1]

Of the [if N16CUGLN > 0} [N16CUGLN] {else} total amount] you will have borrowed for your college or vocational education through the end of the 2014-2015

school year, how much will be in private loans? (If you are unsure of the amount, please provide your best guess. If you have never taken out any private loans for your [if TSTAT in (2 4)] undergraduate] education, enter "0" in the box.)

[else if Y_NPLEVL = 3 and TB4JULY = 0]

Of the [if N16CUGLN > 0] [N16CUGLN] {else} total amount] you borrowed for your college or vocational education through the end of the 2014-2015 school year, how much was in private loans? (If you are unsure of the amount, please provide your best guess. If you have never taken out any private loans for your [if TSTAT in (2 4)] undergraduate] education, enter "0" in the box.)

[else if TB4JULY = 1]

Of the [if N16CUGLN > 0] [N16CUGLN] {else} total amount] you will have borrowed for your undergraduate education through the end of the 2014-2015 school year, how much will be in private loans? (If you are unsure of the amount, please provide your best guess. If you have never taken out any private loans for your [if TSTAT in (2 4)] undergraduate] education, enter "0" in the box.)

[else]

Of the [if N16CUGLN > 0] [N16CUGLN] {else} total amount] you borrowed for your undergraduate education through the end of the 2014-2015 school year, how much was in private loans? (If you are unsure of the amount, please provide your best guess. If you have never taken out any private loans for your [if TSTAT in (2 4)] undergraduate] education, enter "0" in the box.)

Applies To: All respondents who borrowed any money for their undergraduate education.

Source: NPSAS:16 Field Test Student Interview

N16CUGPRVEST

Estimated total amt borrowed in private loans for undergrad education

[If TSTAT in (2 4)]

Please indicate the range for how much you borrowed in private loans to pay for your undergraduate education.

Would you say it was...

[else if Y_NPLEVL = 3 and TB4JULY = 1]

Please indicate the range for how much you will have borrowed in private loans to pay for your college or vocational education through the end of the 2014-2015 school year. Would you say it will be...

[else if Y_NPLEVL = 3 and TB4JULY = 0]

Please indicate the range for how much you borrowed in private loans to pay for your college or vocational education through the end of the 2014-2015 school year. Would you say it was...

[else if TB4JULY = 1]

Please indicate the range for how much you will have borrowed in private loans to pay for your undergraduate

education through the end of the 2014-2015 school year. Would you say it will be...

[else]

Please indicate the range for how much you borrowed in private loans to pay for your undergraduate education through the end of the 2014-2015 school year. Would you say it was...

0 = \$0

1 = Less than \$5,000

2 = \$5,000 - \$9,999

3 = \$10,000 - \$19,999

4 = \$20,000 - \$29,999

5 = \$30,000 - \$39,999

6 = \$40,000 - \$59,999

7 = \$60,000 or more

8 = Don't know

Applies To: Respondents who did not provide an amount of private loans borrowed for undergraduate education.

Source: NPSAS:16 Field Test Student Interview

N16CUGOWE

Share of undergraduate debt still owed

Do you still owe all, some, or none of the [if N16CUGLN > 0] [N16CUGLN] {else} total student loans] that you took out for your undergraduate education?

0 = None

1 = All

2 = Some

Applies To: Respondents who borrowed any money for their undergraduate education.

Source: NPSAS:16 Field Test Student Interview

N16CREPAY

Expected help from family or friends repaying student loans

[If N16AMARR = 2]

Do you expect that anyone other than your spouse, such as your parents or other family members or friends, will help you repay your student loans?

[else]

Do you expect that anyone, such as your parents or other family members or friends, will help you repay your student loans?

0 = Did not expect help from others to repay loans

1 = Yes, expected help from others to repay loans

Applies To: Respondents who owed any money on their student loans.

Source: NPSAS:16 Field Test Student Interview

N16CPAYSTIBR

Heard of income-based repayment plan

In thinking about repaying your student loans, have you heard of any...

Income-based repayment plans

0 = Had not heard of income-based repayment plans

1 = Yes, had heard of income-based repayment plans

Applies To: Respondents who owed any money on their student loans.

Source: NPSAS:16 Field Test Student Interview

N16CPAYSTLFP

Heard of loan forgiveness programs

In thinking about repaying your student loans, have you heard of any...

Loan forgiveness programs (e.g., Teacher Loan

Forgiveness, Public Service Loan Forgiveness, etc.)

0 = Had not heard of loan forgiveness programs

1 = Yes, had heard of loan forgiveness programs

Applies To: Respondents who owed any money on their student loans.

Source: NPSAS:16 Field Test Student Interview

N16CUSEIBR

Likelihood of using income-based repayment plan

What is the likelihood that you will use any income-based repayment plans to repay your student loans? Are you...

1 = Very unlikely

2 = Somewhat unlikely

3 = Neither unlikely nor likely

4 = Somewhat likely

5 = Very likely

Applies To: B&B-eligible respondents who had heard of income-based repayment plans.

Source: NPSAS:16 Field Test Student Interview

N16CUSELFP

Likelihood of using loan forgiveness programs

What is the likelihood that you will use any loan forgiveness programs to repay your student loans? Are you...

1 = Very unlikely

2 = Somewhat unlikely

3 = Neither unlikely nor likely

4 = Somewhat likely

5 = Very likely

Applies To: B&B-eligible respondents who had heard of loan-forgiveness programs.

Source: NPSAS:16 Field Test Student Interview

N16CSPNNOW

Approve of SponsorMeNow loan program

Do you approve or disapprove of the SponsorMeNow loan program?

1 = Approve

2 = Disapprove

3 = Don't know

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16CGRTA

Type of graduate assistantship in 2014-15: graduate teaching

[If TCURENR = 1]

In the 2014-2015 school year, have you had a graduate teaching assistantship, a graduate research assistantship, or another type of graduate assistantship?

[else]

In the 2014-2015 school year, did you have a graduate teaching assistantship, a graduate research assistantship, or another type of graduate assistantship?

Graduate teaching assistantship

0 = Did not have teaching assistantship

1 = Yes, had teaching assistantship

Applies To: Graduate respondents who had an assistantship in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16CGRRA

Type of graduate assistantship in 2014-15: graduate research

[If TCURENR = 1]

In the 2014-2015 school year, have you had a graduate teaching assistantship, a graduate research assistantship, or another type of graduate assistantship?

[else]

In the 2014-2015 school year, did you have a graduate teaching assistantship, a graduate research assistantship, or another type of graduate assistantship?

Graduate research assistantship

0 = Did not have research assistantship

1 = Yes, had research assistantship

Applies To: Graduate respondents who had an assistantship in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16CGROTH

Type of graduate assistantship in 2014-15: other assistantship type

[If TCURENR = 1]

In the 2014-2015 school year, have you had a graduate teaching assistantship, a graduate research assistantship, or another type of graduate assistantship?

[else]

In the 2014-2015 school year, did you have a graduate teaching assistantship, a graduate research assistantship, or another type of graduate assistantship?

Other graduate assistantship

0 = Did not have other assistantship

1 = Yes, had other assistantship

Applies To: Graduate respondents who had an assistantship in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16CTUITN

Received tuition waiver through assistantship

Did you receive a tuition waiver or any other form of full or partial tuition assistance through your assistantship(s)? (Sometimes a tuition waiver is also called tuition remission or a tuition award.)

0 = Did not receive tuition waiver

1 = Yes, received tuition waiver

Applies To: Graduate respondents who had a teaching, research, or other type of assistantship in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16CHINS

Received health insurance through assistantship

As part of your assistantship(s), did you receive health insurance?

1 = Yes, received health insurance

2 = No, because did not want it or need it

3 = No, because it was not offered

Applies To: Graduate respondents who had a teaching, research, or other type of assistantship in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16CGRTAAMT

Amount of graduate teaching assistantship in 2014-15 academic year

[If TCURENR = 1]

What is the amount of your graduate teaching assistantship for the 2014-2015 school year?

[else]

What was the amount of your graduate teaching assistantship for the 2014-2015 school year?

Applies To: Graduate respondents who had a teaching assistantship in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16CGRRAAMT

Amount of graduate research assistantship in 2014-15 academic year

[If TCURENR = 1]

What is the amount of your graduate research assistantship for the 2014-2015 school year?

[else]

What was the amount of your graduate research assistantship for the 2014-2015 school year?

Applies To: Graduate respondents who had a research assistantship in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16CGROTHAMT

Amount of other graduate assistantship in 2014-15 academic year

[If N16CGRTA = 1 or N16CGRRA = 1]

What [if TCURENR = 1] is [else] was] the amount of your other graduate assistantship for the 2014-2015 school year? Do not include the amount of any graduate assistantship you've already told [if COMPMODE = 0] us [else] me] about.

[else]

What [if TCURENR = 1] is [else] was] the amount of your graduate assistantship for the 2014-2015 school year?

Applies To: Graduate respondents who had another type of assistantship in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16CCLSHRS

Teacher assistantship duties; taught one or more courses

Which of the following activities [if TCURENR = 1] do [else] did] you perform as a teaching assistant during the 2014-2015 school year?

[If TCURENR = 1] Assume [else] Assumed] teaching responsibility for one or more courses

0 = Did not teach a course

1 = Yes, taught a course

Applies To: Graduate respondents who had a teaching assistantship in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16CDISHRS

Teacher assistantship duties; led discussion for faculty-taught course

Which of the following activities [if TCURENR = 1] do [else] did] you perform as a teaching assistant during the 2014-2015 school year?

[If TCURENR=1] Lead [else] Led] discussion sections for faculty-taught courses

0 = Did not lead discussion section

1 = Yes, led discussion section

Applies To: Graduate respondents who had a teaching assistantship in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16CLABHRS

Teacher assistantship duties; supervised lab for faculty-taught course

Which of the following activities [if TCURENR = 1] do [else] did] you perform as a teaching assistant during the 2014-2015 school year?

[{If TCURENR = 1} Supervise {else} Supervised] lab sections for faculty-taught courses

0 = Did not supervise lab section

1 = Yes, supervised lab section

Applies To: Graduate respondents who had a teaching assistantship in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16CGRAHRS

Teacher assistantship duties: assisted faculty with grading

Which of the following activities [{if TCURENR = 1} do {else} did] you perform as a teaching assistant during the 2014-2015 school year?

[{If TCURENR = 1} Assist {else} Assisted] faculty with grading or other instruction- related activities

0 = Did not assist with grading

1 = Yes, assisted with grading

Applies To: Graduate respondents who had a teaching assistantship in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16CMSGHR

Teacher assistantship duties: answered student e-mail messages

Which of the following activities [{if TCURENR = 1} do {else} did] you perform as a teaching assistant during the 2014-2015 school year?

[{If TCURENR = 1} Assist {else} Assisted] faculty with answering student e-mail messages

0 = Did not answer student e-mails

1 = Yes, answered student e-mails

Applies To: Graduate respondents who had a teaching assistantship in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16COFFHRS

Teacher assistantship duties: held office hours

Which of the following activities [{if TCURENR = 1} do {else} did] you perform as a teaching assistant during the 2014-2015 school year?

[{If TCURENR = 1} Hold {else} Held] office hours

0 = Did not hold office hours

1 = Yes, held office hours

Applies To: Graduate respondents who had a teaching assistantship in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16CGRTRNAMT

Amount of traineeship in 2014-15 academic year

What [{if TCURENR = 1} is {else} was] the amount of your traineeship for the 2014-2015 school year?

Applies To: Graduate respondents who had a traineeship in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16CGRHRS

Hours worked per week in graduate school job in 2014-15 academic year

During the 2014-2015 school year, how many hours, on average, [{if TCURENR = 1} do {else} did] you work per week in your [assistantship or traineeship]?

Applies To: Graduate respondents who had an assistantship or traineeship in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16CGRWEEK

Proportion of weeks worked in grad school job in 2014-15 academic year

[If TCURENR = 1]

In the 2014-2015 school year, have you worked in your [assistantship or traineeship] during all, most, half, or less than half of the weeks you attended [NPSAS]?

[else]

In the 2014-2015 school year, did you work in your [assistantship or traineeship] during all, most, half, or less than half of the weeks you attended [NPSAS]?

1 = All

2 = Most

3 = Half

4 = Less than half

Applies To: Graduate respondents who had an assistantship or traineeship in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16DM2CUREMP

Currently working for pay

[If [no assistantship or traineeship] or TSTAT in (1 3)]

Are you currently working for pay?

[else]

Not including your [assistantship or traineeship], are you currently working for pay?

0 = Not currently working for pay

1 = Yes, currently working for pay

Applies To: Respondents who began the interview before July 1, 2015 except control group interview respondents (where Y_MODULE = 0) who did not work for pay in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16DM2ANYJOB

Worked for pay at any time in 2014-15 academic year

[If [no assistantship or traineeship] or TSTAT in (1 3)]

[{If TB4JULY = 1} Have you worked {else} Did you work] for pay at any time [{if TB4JULY = 1} since July 2014 {else} between July 2014 and June 2015]?

[else]

Other than your [assistantship or traineeship], [if TB4JULY = 1} have you worked {else} did you work]

for pay at any time [{if TB4JULY = 1} since July 2014 {else} between July 2014 and June 2015]?

0 = Did not work for pay in the 2014-15 academic year

1 = Yes, worked for pay in the 2014-15 academic year

Applies To: Respondents who began the interview before July 1, 2015 and were not currently working for pay, or started interview on or after July 1, 2015.

Source: NPSAS:16 Field Test Student Interview

N16DEMPSLF01

Employer 1: self-employed

[If N16DM2CUREMP = 1]

What is the name of your current employer? (If you have more than one employer, tell [{if COMPMODE = 1} me {else} us] about only one of them now. [If COMPMODE = 1] I {else} We] will collect the names of any other employers later.)

[else]

What was the name of the last employer you had [{if TB4JULY = 0} prior to July 2015]? (If you had more than one employer at the same time, tell [{if COMPMODE = 1} me {else} us] about only one of them now. [If COMPMODE = 1] I {else} We] will collect the names of any other employers later.)

Check here if you [{if N16DM2CUREMP = 1} are {else} were] self-employed

0 = Not self-employed

1 = Yes, self-employed

Applies To: Respondents who worked for pay at any time in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16DEMPCUR01

Employer 1: currently working

Are you currently working [{if N16DEMPSLF01 = 1} for yourself {else if [employer 1] = -9} for this employer {else} at [employer 1]]?

0 = Not currently working

1 = Yes, currently working

Applies To: Respondents who worked for pay for at least one employer any time in the 2014-15 academic year, except those who were interviewed after June 30, 2015, and those who did not indicate whether they were currently working for pay.

Source: NPSAS:16 Field Test Student Interview

N16DERNAMT01

Employer 1: earnings when last worked in 2014-15 academic year: amount

[If N16DM2CUREMP = 1 or N16DEMPCUR01 = 1]

How much do you currently make working [{if N16DEMPSLF01 = 1} for yourself {else if [employer 1] = -9} for this employer {else} at [employer 1]]? Include

any bonuses, tips, or commissions in your total earnings amount.

[else]

How much did you make when you last worked [{if N16DEMPSLF01 = 1} for yourself {else if [employer 1] = -9} for this employer {else} at [employer 1]]? Include any bonuses, tips, or commissions in your total earnings amount.

Notes: This question was asked in two parts: respondents were asked to provide their current earnings (N16DERNAMT01) and then indicate the time frame for that earnings amount (N16DERNTIM01). These variables must be combined in order to analyze these data accurately.

Applies To: Respondents who worked for pay for at least one employer any time in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16DERNTIM01

Employer 1: earnings when last worked in 2014-15 academic year: time

[If N16DM2CUREMP = 1 or N16DEMPCUR01 = 1]

How much do you currently make working [{if N16DEMPSLF01 = 1} for yourself {else if [employer 1] = -9} for this employer {else} at [employer 1]]? Include any bonuses, tips, or commissions in your total earnings amount.

[else]

How much did you make when you last worked [{if N16DEMPSLF01 = 1} for yourself {else if [employer 1] = -9} for this employer {else} at [employer 1]]? Include any bonuses, tips, or commissions in your total earnings amount.

Notes: This question was asked in two parts: respondents were asked to provide their current earnings (N16DERNAMT01) and then indicate the time frame for that earnings amount (N16DERNTIM01). These variables must be combined in order to analyze these data accurately.

1 = Per hour

2 = Per month

3 = Per year

Applies To: Respondents who worked for pay for at least one employer any time in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16DWRKENR01

Employer 1: worked while attending in 2014-15 academic year

[If TCURENR = 0]

[If TB4JULY = 0] Before July 2015, did {else} Did] you work regularly [{if N16DEMPSLF01 = 1} for yourself {else if [employer 1] = -9} for this employer {else} at

[employer 1]] during weeks in which you were also attending school?

[else if N16DM2CUREMP = 1 or N16DEMPCUR01 = 1]

Have you worked regularly [{if N16DEMPSLF01 = 1} for yourself {else if [employer 1] = -9} for this employer {else} at [employer 1]] during weeks in which you have also attended school?

[else]

[{If TB4JULY = 0} Before July 2015, did {else} Did] you work regularly [{if N16DEMPSLF01 = 1} for yourself {else if [employer 1] = -9} for this employer {else} at [employer 1]] during weeks in which you were also attending school?

0 = Did not work while attending school

1 = Yes, worked while attending school

Applies To: Respondents who worked for pay for at least one employer any time in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16DWRKSTD01

Employer 1: work-study job

[If N16DM2CUREMP = 1 or N16DEMPCUR01 = 1]

Is this a work-study job?

[else]

Was this a work-study job?

0 = Not a work-study job

1 = Yes, a work-study job

Applies To: Respondents who worked for pay for at least one employer any time in the 2014-15 academic year while enrolled (except self-employed) and who indicated they had a work-study job in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16DONOFF01

Employer 1: job on or off campus

[If N16DM2CUREMP = 1 or N16DEMPCUR01 = 1]

Is this job on or off the campus of your school?

[else]

Was this job on or off the campus of your school?

1 = On campus

2 = Off campus

Applies To: Respondents who worked for pay for at least one employer any time in the 2014-15 academic year while enrolled (except self-employed).

Source: NPSAS:16 Field Test Student Interview

N16DWKHREN01

Employer 1: hours worked per week while attending in 2014-15

[If TCURENR = 0]

[{If TB4JULY = 0} Before July 2015, how {else} How] many hours per week did you usually work [{if N16DEMPSLF01 = 1} for yourself {else if [employer 1]

= -9} for this employer {else} at [employer 1]] while you attended school? (Provide your best guess if you are unsure.)

[else if N16DM2CUREMP = 1 or N16DEMPCUR01 = 1]

How many hours per week have you usually worked [{if N16DEMPSLF01 = 1} for yourself {else if [employer 1] = -9} for this employer {else} at [employer 1]] while you have attended school?

[else]

[{If TB4JULY = 0} Before July 2015, how {else} How] many hours per week did you usually work [{if N16DEMPSLF01 = 1} for yourself {else if [employer 1] = -9} for this employer {else} at [employer 1]] while you attended school? (Provide your best guess if you are unsure.)

Applies To: Respondents who worked for pay for at least one employer any time in the 2014-15 academic year while enrolled.

Source: NPSAS:16 Field Test Student Interview

N16DWRKNEN01

Employer 1: worked while not attending in 2014-15 academic year

[If TCURENR = 0]

You told us that [{if TB4JULY = 0} before July 2015] you were [{if N16DWRKENR01 ne 1} not] working regularly [{if N16DEMPSLF01 = 1} for yourself {else if [employer 1] = -9} for this employer {else} at [employer 1]] during weeks in which you were attending school. [{If TB4JULY = 0} Before July 2015, did you work {else} Have you worked] regularly [{if N16DEMPSLF01 = 1} for yourself {else if [employer 1] = -9} for this employer {else} at [employer 1]] during weeks in which you were not attending school?

[else if N16DM2CUREMP = 1 or N16DEMPCUR01 = 1]

You told us that you are [{if N16DWRKENR01 ne 1} not] working [{if N16DEMPSLF01 = 1} for yourself {else if [employer 1] = -9} for this employer {else} at [employer 1]] regularly during weeks in which you are attending school. Are you working regularly [{if N16DEMPSLF01 = 1} for yourself {else if [employer 1] = -9} for this employer {else} at [employer 1]] during weeks in which you are not attending school?

[else]

You told us that [{if TB4JULY = 0} before July 2015] you were [{if N16DWRKENR01 ne 1} not] working regularly [{if N16DEMPSLF01 = 1} for yourself {else if [employer 1] = -9} for this employer {else} at [employer 1]] during weeks in which you were attending school. [{If TB4JULY = 0} Before July 2015, did {else} Did] you work regularly [{if N16DEMPSLF01 = 1} for yourself {else if [employer 1] = -9} for this employer {else} at

[employer 1]] during weeks in which you were not attending school?

0 = Did not work while not attending school

1 = Yes, worked while not attending school

Applies To: Respondents who worked for pay for at least one employer any time in the 2014-15 academic year while enrolled.

Source: NPSAS:16 Field Test Student Interview

N16DWRKHRS01

Employer 1: hours worked per week while not attending in 2014-15

[If (N16DM2CUREMP = 1 or N16DEMPCUR01 = 1) and N16DWRKENR01 = 1]

How many hours per week have you usually worked [{if N16DEMPSLF01 = 1} for yourself {else if [employer 1] = -9} for this employer {else} at [employer 1]] while you are not attending school?

[else if N16DWRKENR01 = 1]

[{If TB4JULY = 0} Before July 2015, how {else} How] many hours per week did you usually work [{if N16DEMPSLF01 = 1} for yourself {else if [employer 1] = -9} for this employer {else} at [employer 1]] while you were not attending school?

[else if N16DM2CUREMP = 1 or N16DEMPCUR01 = 1]

How many hours per week do you usually work [{if N16DEMPSLF01 = 1} for yourself {else if [employer 1] = -9} for this employer {else} at [employer 1]]?

[else]

How many hours per week did you usually work [{if N16DEMPSLF01 = 1} for yourself {else if [employer 1] = -9} for this employer {else} at [employer 1]] when you were last [{if N16DEMPSLF01 = 1} self-employed {else} employed there] [{If TB4JULY = 0} before July 2015]?

Applies To: Respondents who worked for pay for at least one employer any time in the 2014-15 academic year while not enrolled.

Source: NPSAS:16 Field Test Student Interview

N16DJBMAJR01

Employer 1: job related to major or coursework

[If N16DM2CUREMP = 1 or N16DEMPCUR01 = 1]

Is this job related to your [{if N16BDBLMAJ = 3 or TSTAT = 3} coursework {else if N16BDBLMAJ = 2} primary major or field of study {else} major or field of study] at [NPSAS]?

[else]

Was this job related to your [{if N16BDBLMAJ = 3 or TSTAT = 3} coursework {else if N16BDBLMAJ = 2} primary major or field of study {else} major or field of study] at [NPSAS]?

0 = Job not related to major

1 = Yes, job related to major

Applies To: Respondents who worked for pay for at least one employer any time in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16DOTHEMP01

Employer 1: additional paid employment in 2014-15 academic year

[If COMPMODE = 0]

You've told us about your employment with the above listed employer(s). [{If TB4JULY = 1} Have you worked {else} Did you work] for pay for any other employers at any time [{if TB4JULY = 1} since July 2014? {else} between July 2014 and June 2015]? (Answer "Yes" for any self-employment [{if N16CAIDWKST1 = 1} , {else} or] paid internships [{if N16CAIDWKST1 = 1} , or work-study jobs.])

[else]

You've told me about your employment with [{if N16DEMPSLF01 = 1} Self-employed {else} [employer name]] [{if TB4JULY = 1} Have you worked {else} Did you work] for pay for any other employers at any time [{if TB4JULY = 1} since July 2014 {else} between July 2014 and June 2015]? (Answer "Yes" for any self-employment [{if N16CAIDWKST1 = 1} , {else} or] paid internships [{if N16CAIDWKST1 = 1} , or work-study jobs.])

0 = No other employers

1 = Yes, have other employers

Applies To: Respondents who worked for pay for at least one employer any time in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

Loops 2-6 have not been included in the facsimile.

N16DENRWRK

Primary role while working in 2014-15 academic year

[If TCURENR = 1 and (N16DM2CUREMP = 1 or N16DEMPCUR0* = 1 in any iteration)]

During the 2014-2015 school year, would you say you are primarily...

[else]

During the 2014-2015 school year, would you say you were primarily...

1 = A student who worked

2 = An employee who decided to enroll in school

Applies To: Respondents who indicated working for pay while enrolled, at any employer.

Source: NPSAS:16 Field Test Student Interview

N16DCARSRVS

Used career planning services at NPSAS during bachelor's degree

While working on your bachelor's degree, did you use career planning services at [NPSAS]?

0 = Did not use career planning services

1 = Yes, used career planning services

Applies To: B&B-eligible respondents.

Source: NPSAS:16 Field Test Student Interview

N16DCJOBDB

Career planning service used: searchable job database

Which of the following career planning services did you use at [NPSAS]?

Searchable job database

0 = Did not use searchable job database

1 = Yes, used searchable job database

Applies To: B&B-eligible respondents who used career planning services at NPSAS while working on bachelor's degree.

Source: NPSAS:16 Field Test Student Interview

N16DCCNCL

Career planning service used: career counseling

Which of the following career planning services did you use at [NPSAS]?

Career counseling

0 = Did not use career counseling

1 = Yes, used career counseling

Applies To: B&B-eligible respondents who used career planning services at NPSAS while working on bachelor's degree.

Source: NPSAS:16 Field Test Student Interview

N16DCONLIN

Career planning service used: online career or personality assessment

Which of the following career planning services did you use at [NPSAS]?

Online career or personality assessments

0 = Did not use online assessments

1 = Yes, used online assessments

Applies To: B&B-eligible respondents who used career planning services at NPSAS while working on bachelor's degree.

Source: NPSAS:16 Field Test Student Interview

N16DCJOBFAIR

Career planning service used: career or job fairs

Which of the following career planning services did you use at [NPSAS]?

Career/job fairs

0 = Did not use career or job fairs

1 = Yes, used career or job fairs

Applies To: B&B-eligible respondents who used career planning services at NPSAS while working on bachelor's degree.

Source: NPSAS:16 Field Test Student Interview

N16DCMOCK

Career planning service used: mock interviews

Which of the following career planning services did you use at [NPSAS]?

Mock interviews

0 = Did not use mock interviews

1 = Yes, used mock interviews

Applies To: B&B-eligible respondents who used career planning services at NPSAS while working on bachelor's degree.

Source: NPSAS:16 Field Test Student Interview

N16DCRESUME

Career planning service used: resume or cover letter assistance

Which of the following career planning services did you use at [NPSAS]?

Resume or cover letter assistance

0 = Did not use resume or cover letter assistance

1 = Yes, used resume or cover letter assistance

Applies To: B&B-eligible respondents who used career planning services at NPSAS while working on bachelor's degree.

Source: NPSAS:16 Field Test Student Interview

N16DCALUM

Career planning service used: alumni network

Which of the following career planning services did you use at [NPSAS]?

Alumni network

0 = Did not use alumni network

1 = Yes, used alumni network

Applies To: B&B-eligible respondents who used career planning services at NPSAS while working on bachelor's degree.

Source: NPSAS:16 Field Test Student Interview

N16DCAROTH

Career planning service used: other career service

Which of the following career planning services did you use at [NPSAS]?

Other

0 = Did not use other career service

1 = Yes, used other career service

Applies To: B&B-eligible respondents who used career planning services at NPSAS while working on bachelor's degree.

Source: NPSAS:16 Field Test Student Interview

N16BACDSBB

Studies at NPSAS have been preparation for future career

[If COMPMODE = 1]

Please use a number from 1 to 5 to respond to the following statement. One means "completely disagree" and five means "completely agree." My studies at [NPSAS] have helped me prepare for my future career. [else]

Please use a number from 1 to 5 to respond to the following statement. My studies at [NPSAS] have helped me prepare for my future career.

1 = 1 (Completely disagree)

2 = 2 (Somewhat disagree)

3 = 3 (Neither disagree nor agree)

- 4 = 4 (Somewhat agree)
 5 = 5 (Completely agree)

Applies To: B&B-eligible respondents.

Source: NPSAS:16 Field Test Student Interview

N16DWKPLN

Plans for year following the 2014-15 academic year

What are your plans for work between July 2015 and June 2016? Do you plan to...

- 1 = Not work
 2 = Work full time
 3 = Work part time
 4 = Join the military

Applies To: B&B-eligible respondents.

Source: NPSAS:16 Field Test Student Interview

N16DEXOCC2

Expected occupation: major group occupation code

[If N16ACMPDGN = 1]

What is the title of the job you want to have within the next 12 months? What do you think you will do in that job?

[else]

What is the title of the job you want to have after you complete your bachelor's degree? What do you think you will do in that job?

Notes: Occupation codes: 2010-13 Occupational Information Network-Standard Occupational Classification (O*NET-SOC) codes were used to code these data. See <http://www.onetcenter.org/> for more information on O*NET.

- 11 = Management occupations
 13 = Business/financial operation occupations
 15 = Computer and mathematical occupations
 17 = Architecture and engineering occupations
 19 = Life, physical, soc science occupations
 21 = Community/social services occupations
 23 = Legal occupations
 25 = Education, training, library occupations
 27 = Arts, design, entertainment, sports, and media
 29 = Healthcare practitioners/technical
 31 = Healthcare support occupations
 33 = Protective service occupations
 35 = Food prep/serving related occupations
 37 = Building/grounds cleaning/maintenance
 39 = Personal care and service occupations
 41 = Sales and related occupations
 43 = Office/administrative support occupation
 45 = Farming, fishing, forestry occupations
 47 = Construction and extraction occupations
 49 = Installation, maintenance, repair
 51 = Production occupations

- 53 = Transportation/material moving
 55 = Military specific occupations

Applies To: B&B-eligible respondents who planned to work full-time or part-time in the 2015-16 academic year.

Source: 2014 Occupational Information Network (O*NET)

N16DEXOCC3

Expected occupation: minor group occupation code

[If N16ACMPDGN = 1]

What is the title of the job you want to have within the next 12 months? What do you think you will do in that job?

[else]

What is the title of the job you want to have after you complete your bachelor's degree? What do you think you will do in that job?

Notes: Occupation codes: 2010-13 Occupational Information Network-Standard Occupational Classification (O*NET-SOC) codes were used to code these data. See <http://www.onetcenter.org/> for more information on O*NET.

Applies To: B&B-eligible respondents who planned to work full-time or part-time in the 2015-16 academic year.

Source: 2014 Occupational Information Network (O*NET)

N16DEXOCC6

Expected occupation: detailed occupation code

[If N16ACMPDGN = 1]

What is the title of the job you want to have within the next 12 months? What do you think you will do in that job?

[else]

What is the title of the job you want to have after you complete your bachelor's degree? What do you think you will do in that job?

Notes: Occupation codes: 2010-13 Occupational Information Network-Standard Occupational Classification (O*NET-SOC) codes were used to code these data. See <http://www.onetcenter.org/> for more information on O*NET.

Applies To: B&B-eligible respondents who planned to work full-time or part-time in the 2015-16 academic year.

Source: 2014 Occupational Information Network (O*NET)

N16DEXJBDY

Expected occupation: job duties

[If N16ACMPDGN = 1]

What is the title of the job you want to have within the next 12 months? What do you think you will do in that job?

[else]

What is the title of the job you want to have after you complete your bachelor's degree? What do you think you will do in that job?

Applies To: B&B-eligible respondents who planned to work full-time or part-time in the 2015-16 academic year.

Source: NPSAS:16 Field Test Student Interview

N16DEXJBTL

Expected occupation: job title

[If N16ACMPDGN = 1]

What is the title of the job you want to have within the next 12 months? What do you think you will do in that job?

[else]

What is the title of the job you want to have after you complete your bachelor's degree? What do you think you will do in that job?

Applies To: B&B-eligible respondents who planned to work full-time or part-time in the 2015-16 academic year.

Source: NPSAS:16 Field Test Student Interview

N16DEXCUR

Expected occupation: already held this job

[If N16ACMPDGN = 1]

What is the title of the job you want to have within the next 12 months? What do you think you will do in that job?

[else]

What is the title of the job you want to have after you complete your bachelor's degree? What do you think you will do in that job?

Already hold this job

0 = Did not already hold this job

1 = Yes, already hold this job

Applies To: B&B-eligible respondents who planned to work full-time or part-time in the 2015-16 academic year.

Source: NPSAS:16 Field Test Student Interview

N16DEXOCCRC

Expected occupation: upcode/ recode flag

[If N16ACMPDGN = 1]

What is the title of the job you want to have within the next 12 months? What do you think you will do in that job?

[else]

What is the title of the job you want to have after you complete your bachelor's degree? What do you think you will do in that job?

Notes: Respondents entered their expected employer job title and duties into an internal database built into the instrument and selected an O*NET-SOC code representing their occupation. Some O*NET-SOC codes

selected by respondents were randomly chosen for recode review by expert coders. If respondents did not select an O*NET-SOC code, expert coders attempted to upcode this occupation. In the event expert coders recoded a new O*NET-SOC code or upcoded an O*NET-SOC code, this flag was set to 1. If the flag was set to 1, the following variables were changed to reflect the new O*NET-SOC code: N16DEXOCC2, N16DEXOCC3, N16DEXOCC6.

0 = Not upcoded or recoded

1 = Yes, upcoded or recoded

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16DOCCCOM

Likelihood of entering expected occupation

[If N16ACMPDGN = 1 and N16DEXJBTL ne -9]

What is the likelihood that you will work for pay as a(n)

[N16DEXJBTL] within the next 12 months? Are you...

[else if N16ACMPDGN = 1 and N16DEXJBTL = -9]

What is the likelihood that you will work for pay in your expected occupation within the next 12 months? Are you...

[else if N16DEXJBTL ne -9]

What is the likelihood that, after having completed your bachelor's degree, you will work for pay as a(n)

[N16DEXJBTL]? Are you...

[else]

What is the likelihood that, after having completed your bachelor's degree, you will work for pay in your expected occupation? Are you...

1 = Very unlikely

2 = Somewhat unlikely

3 = Neither unlikely nor likely

4 = Somewhat likely

5 = Very likely

Applies To: B&B-eligible respondents who planned to work full-time or part-time in the 2015-16 academic year, except those who already held their expected job.

Source: NPSAS:16 Field Test Student Interview

N16DEXPWAGE

Future expected wages: most likely beginning salary

[If N16DEXCUR = 1 and N16DEXJBTL ne -9]

When you began working as a(n) [N16DEXJBTL], what did you think would be your...

[else if N16DEXCUR = 1 and N16DEXJBTL = -9]

When you began working, what did you think would be your...

[else if N16ACMPDGN = 1 and N16DEXJBTL ne -9]

When you begin working as a(n) [N16DEXJBTL], what do you think will be your...

[else if N16ACMPDGN = 1 and N16DEXJBTL = -9]

When you begin working, what do you think will be your...
 [else if N16DEXJBTL ne -9]
 When you finish your bachelor's degree and begin working as a(n) [N16DEXJBTL], what do you think will be your...
 [else]
 When you finish your bachelor's degree and begin working, what do you think will be your...
 1. Most likely beginning salary: per year
Applies To: B&B-eligible respondents who planned to work full-time or part-time in the 2015-16 academic year.
 Source: NPSAS:16 Field Test Student Interview

N16DHIWAGE

Future expected wages: highest possible beginning salary
 [If N16DEXCUR = 1 and N16DEXJBTL ne -9]
 When you began working as a(n) [N16DEXJBTL], what did you think would be your...
 [else if N16DEXCUR = 1 and N16DEXJBTL = -9]
 When you began working, what did you think would be your...
 [else if N16ACMPDGN = 1 and N16DEXJBTL ne -9]
 When you begin working as a(n) [N16DEXJBTL], what do you think will be your...
 [else if N16ACMPDGN = 1 and N16DEXJBTL = -9]
 When you begin working, what do you think will be your...
 [else if N16DEXJBTL ne -9]
 When you finish your bachelor's degree and begin working as a(n) [N16DEXJBTL], what do you think will be your...
 [else]
 When you finish your bachelor's degree and begin working, what do you think will be your...
 2. Highest possible beginning salary: per year
Applies To: B&B-eligible respondents who planned to work full-time or part-time in the 2015-16 academic year.
 Source: NPSAS:16 Field Test Student Interview

N16DLOWAGE

Future expected wages: lowest possible beginning salary
 [If N16DEXCUR = 1 and N16DEXJBTL ne -9]
 When you began working as a(n) [N16DEXJBTL], what did you think would be your...
 [else if N16DEXCUR = 1 and N16DEXJBTL = -9]
 When you began working, what did you think would be your...
 [else if N16ACMPDGN = 1 and N16DEXJBTL ne -9]
 When you begin working as a(n) [N16DEXJBTL], what do you think will be your...
 [else if N16ACMPDGN = 1 and N16DEXJBTL = -9]

When you begin working, what do you think will be your...
 [else if N16DEXJBTL ne -9]
 When you finish your bachelor's degree and begin working as a(n) [N16DEXJBTL], what do you think will be your...
 [else]
 When you finish your bachelor's degree and begin working, what do you think will be your...
 3. Lowest possible beginning salary: per year
Applies To: B&B-eligible respondents who planned to work full-time or part-time in the 2015-16 academic year.
 Source: NPSAS:16 Field Test Student Interview

N16EDAGE

Age of youngest dependent child
 [If N16EDEP2 = 1]
 How old is your child?
 [else]
 How old is your youngest dependent child?
 0 = Less than one year
 1 = 1
 2 = 2
 3 = 3
 4 = 4
 5 = 5
 6 = 6
 7 = 7
 8 = 8
 9 = 9
 10 = 10
 11 = 11
 12 = 12
 13 = 13
 14 = 14
 15 = 15
 16 = 16
 17 = 17
 18 = 18
 19 = 19
 20 = 20
 21 = 21
 22 = 22
 23 = 23
 24 = 24
 25 = 25 or older

Applies To: Respondents with children who received more than half of their financial support from respondent in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

KIDLT12

Any children less than 12 years old

Notes: KIDLT12 is an internal variable that indicates whether respondents have children who are less than 12 years of age.

If N16EDAGE ≥ 0 and ≤ 11 then KIDLT12 = 1;
else if N16EDAGE ≥ 12 then KIDLT12 = 0;
else if N16EDAGE = -3 then KIDLT12 = -3;
else KIDLT12 = -9;

0 = No children less than 12 years old

1 = Yes, at least one child less than 12 years old

Applies To: Respondents with children who received more than half of their financial support from respondent in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16ECARE

Number of dependent children in childcare

Survey Question: [If TB4JULY = 1 and N16AMARR = 2]

How many of your dependent children are in childcare that you and your spouse pay for?

[else if TB4JULY = 1]

How many of your dependent children are in childcare that you pay for?

[else if N16AMARR = 2]

How many of your dependent children were in childcare that you and your spouse paid for during the 2014-2015 school year?

[else]

How many of your dependent children were in childcare that you paid for during the 2014-2015 school year?

Applies To: Respondents with more than one dependent child, at least one of whom is younger than 12 years old.

Source: NPSAS:16 Field Test Student Interview

N16ECARE1

Dependent child in childcare

[If TB4JULY = 1 and N16AMARR = 2]

Is your child in childcare that you and your spouse pay for?

[else if TB4JULY = 1]

Is your child in childcare that you pay for?

[else if N16AMARR = 2]

Was your child in childcare that you and your spouse paid for during the 2014-2015 school year?

[else]

Was your child in childcare that you paid for during the 2014-2015 school year?

0 = No, dependent not in childcare

1 = Yes, dependent in childcare

Applies To: Respondents with one dependent child who is younger than 12 years old.

Source: NPSAS:16 Field Test Student Interview

N16EDAYCST

Monthly childcare amount

Survey Question: [If TB4JULY = 1 and N16AMARR = 2]

How much (on average) do you and your spouse pay each month for childcare? Indicate only the amount for which you and your spouse are responsible each month.

[else if TB4JULY = 1]

How much (on average) do you pay each month for childcare? Indicate only the amount for which you are responsible each month.

[else if TB4JULY = 0 and N16AMARR = 2]

In the 2014-2015 school year, how much (on average) did you and your spouse pay each month for childcare?

Indicate only the amount for which you and your spouse were responsible each month.

[else]

In the 2014-2015 school year, how much (on average) did you pay each month for childcare? Indicate only the amount for which you were responsible each month.

Applies To: Respondents with at least one dependent child younger than 12 years old in childcare paid for by respondent.

Source: NPSAS:16 Field Test Student Interview

N16EKIDCOL

Number of dependents in college in 2014-15 academic year

[If N16EOTDEPS = 1 and N16EOTDEPS2 > 0]

Previously, you indicated you have [TDEPNUM] dependents. How many of those [TDEPNUM] dependents [if TB4JULY = 1] have] attended a college, university, or trade school in the 2014-2015 school year?

[else if N16EDEPS = 1 and N16EOTDEPS $\neq 1$]

How many of your dependent children [if TB4JULY = 1] have] attended a college, university, or trade school in the 2014-2015 school year?

[else]

How many of your dependents [if TB4JULY = 1] have] attended a college, university, or trade school in the 2014-2015 school year?

Applies To: Respondents with more than one dependent in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16EKIDCOL1

Dependent in college in 2014-15 academic year

[If N16EOTDEPS = 1 and N16EOTDEPS2 > 0]

Previously, you indicated you have one dependent. [If TB4JULY = 1] Has your dependent attended [else] Did

your dependent attend] a college, university, or trade school in the 2014-2015 school year?

[else]

[{If TB4JULY = 1} Has your dependent child attended {else} Did your dependent child attend] a college, university, or trade school in the 2014-2015 school year?

0 = No, dependent not in college

1 = Yes, dependent in college

Applies To: Respondents with one dependent in the 2014-15 academic year, except those whose only dependent is younger than 16 years old.

Source: NPSAS:16 Field Test Student Interview

N16ECOLCOST

Amount contributed to college costs for dependents in 2014-15

[If N16AMARR = 2 and (N16EKIDCOL = 1 or N16EKIDCOL1 = 1)]

Not including any loans, how much did you and your spouse contribute to the cost of your dependent's college expenses in the 2014-2015 school year?

[else if N16AMARR = 2]

Not including any loans, how much did you and your spouse contribute to the cost of these [N16EKIDCOL] dependents' college expenses in the 2014-2015 school year?

[else if N16EKIDCOL = 1 or N16EKIDCOL1 = 1]

Not including any loans, how much did you contribute to the cost of your dependent's college expenses in the 2014-2015 school year?

[else]

Not including any loans, how much did you contribute to the cost of these [N16EKIDCOL] dependents' college expenses in the 2014-2015 school year?

Applies To: Respondents with at least one dependent in college during the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16EPARHELP

Parents or guardians paid education or living expenses in 2014-15

[If TCURENR = 1]

In the 2014-2015 school year only (July 1, 2014-June 30, 2015), will your parents (or guardians) have helped you pay for any of your education or living expenses while you are enrolled in school? (Tuition and fees or school books are examples of education expenses. Rent and food are examples of living expenses.)

[else]

In the 2014-2015 school year only (July 1, 2014-June 30, 2015), did your parents (or guardians) help you pay for any of your education or living expenses while you were enrolled in school? (Tuition and fees or school books are examples of education expenses. Rent and food are examples of living expenses.)

0 = Parents did not help pay expenses

1 = Yes, parents helped pay expenses

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16EPARRNG

Parents paid for education/living expenses: more or less than \$5,000

[If TCURENR = 1]

Is the amount your parents (or guardians) will have contributed toward your education or living expenses in the 2014-2015 school year...

[else]

Was the amount your parents (or guardians) contributed toward your education or living expenses in the 2014-2015 school year...

1 = \$5,000 or less

2 = More than \$5,000

Applies To: Respondents who received help from parents for education or living expenses in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16EPARLOAMT

Parents paid for education/living expenses: estimate less than \$5,000

[If TCURENR = 1]

Ok. Is this amount...

[else]

Ok. Was this amount...

1 = Less than \$500

2 = \$500 - \$999

3 = \$1,000 - \$1,499

4 = \$1,500 - \$1,999

5 = \$2,000 - \$5,000

Applies To: Respondents who indicated receiving \$5,000 or less from parents for education or living expenses in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16EPARHIAMT

Parents paid for education/living expenses: estimate more than \$5,000

[If TCURENR = 1]

Ok. Is this amount...

[else]

Ok. Was this amount...

1 = \$5,001 - \$9,999

2 = \$10,000 - \$14,999

3 = \$15,000 - \$19,999

4 = \$20,000 - \$24,999

5 = \$25,000 - \$49,999

6 = \$50,000 or more

Applies To: Respondents who indicated receiving more than \$5,000 from parents for education or living expenses in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16EFAMHELP

Family or friends paid education or living expenses in 2014-15

[If N16AMARR = 2 and TCURENR = 1]

In the 2014-2015 school year only, and not including your spouse or your parents (or guardians), will other family members or friends have helped you pay for any of your education or living expenses while you are enrolled in school? (Tuition and fees or school books are examples of education expenses. Rent and food are examples of living expenses.)

[else if N16AMARR = 2]

In the 2014-2015 school year only, and not including your spouse or your parents (or guardians), did other family members or friends help you pay for any of your education or living expenses while you were enrolled in school? (Tuition and fees or school books are examples of education expenses. Rent and food are examples of living expenses.)

[else if TCURENR = 1]

In the 2014-2015 school year only, and not including your parents (or guardians), will other family members or friends have helped you pay for any of your education or living expenses while you are enrolled in school? (Tuition and fees or school books are examples of education expenses. Rent and food are examples of living expenses.)

[else]

In the 2014-2015 school year only, and not including your parents (or guardians), did other family members or friends help you pay for any of your education or living expenses while you were enrolled in school? (Tuition and fees or school books are examples of education expenses. Rent and food are examples of living expenses.)

0 = Family or friends did not help pay expenses

1 = Yes, family or friends helped pay expenses

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16EFAMRNG

Family/friends paid for edu/ living expenses: more or less than \$5,000

[If TCURENR = 1]

Is the amount these family members or friends will have contributed toward your education or living expenses in the 2014-2015 school year...

[else]

Was the amount these family members or friends contributed toward your education or living expenses in the 2014-2015 school year...

1 = \$5,000 or less

2 = More than \$5,000

Applies To: Respondents who received help from family or friends for education or living expenses in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16EFAMLOAMT

Family/friends paid for edu/ living expenses: estimate less than \$5,000

[If TCURENR = 1]

Ok. Is this amount...

[else]

Ok. Was this amount...

1 = Less than \$500

2 = \$500 - \$999

3 = \$1,000 - \$1,499

4 = \$1,500 - \$1,999

5 = \$2,000 - \$5,000

Applies To: Respondents who indicated receiving \$5,000 or less from family or friends for education or living expenses in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16EFAMHIAMT

Family/friends paid for edu/ living expenses: estimate more than \$5,000

[If TCURENR = 1]

Ok. Is this amount...

[else]

Ok. Was this amount...

1 = \$5,001 - \$9,999

2 = \$10,000 - \$14,999

3 = \$15,000 - \$19,999

4 = \$20,000 - \$24,999

5 = \$25,000 - \$49,999

6 = \$50,000 or more

Applies To: Respondents who indicated receiving more than \$5,000 from family or friends for education or living expenses in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16ENUMCRD

Number of credit cards

Excluding debit or ATM cards, how many credit cards do you have in your own name that are billed to you? (Only include credit cards for which you pay at least some of the amount owed.)

0 = None

1 = One

2 = More than one

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16ECARRYBAL*Credit card amount carried over each month*

[If N16ENUMCRD = 1]

Do you usually owe an amount that is carried over on your credit card from month to month?

[else]

Do you usually owe an amount that is carried over on your credit cards from month to month?

0 = Did not usually carry amount over each month

1 = Yes, usually carried amount over each month

Applies To: Respondents who had at least one credit card.

Source: NPSAS:16 Field Test Student Interview

N16ECRDBAL*Amount owed on all credit cards on last month's statement*

[If N16ENUMCRD > 1]

What was the total amount you owed on all your credit cards combined according to your last month's statements?

[else]

What was the total amount you owed on your credit card according to your last month's statement?

Applies To: Respondents who had at least one credit card and who usually owed an amount carried over on credit card(s) from month to month.

Source: NPSAS:16 Field Test Student Interview

N16ECCUSE*Used credit cards to pay tuition and fees in 2014-15 academic year*

[If N16ENUMCRD = 1]

Did you use your credit card to pay for any of your tuition and fees in the 2014-2015 school year?

[else]

Have you used your credit cards to pay for any of your tuition and fees in the 2014-2015 school year?

0 = Did not use credit card for tuition and fees

1 = Yes, used credit card for tuition and fees

Applies To: Respondents who had at least one credit card.

Source: NPSAS:16 Field Test Student Interview

N16ECCREASON*Used credit cards for tuition/fees because only source of funds*

[If N16ENUMCRD = 1]

Did you charge your tuition and fees using your credit card because that was the only way you could afford to pay for those expenses?

[else]

Did you charge your tuition and fees using your credit card(s) because that was the only way you could afford to pay for those expenses?

0 = Credit card was not only way could afford expenses

1 = Yes, credit card was only way could afford expenses

Applies To: Respondents who had at least one credit card and used it to pay for tuition and fees in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16EBANK1*Had checking and/or savings account*

Do you have a checking or savings account at a bank or credit union?

0 = Did not have checking or savings account

1 = Yes, had a checking or savings account

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16EBANK2*Respondent's own bank account or shared bank account*

Is your primary checking or savings account...

1 = In respondent's name only

2 = Shared between respondent and someone else

Applies To: Respondents who indicated having a checking or savings account.

Source: NPSAS:16 Field Test Student Interview

N16ESCHRES*Residence while enrolled in 2014-15 academic year*

[If TCURENR = 1 and COMPMODE = 0]

Where are you living during the 2014-2015 school year while attending [NPSAS]? (If you have lived in more than one residence, choose the place where you have lived for the longest period of time.)

[else if TCURENR = 1]

While attending [NPSAS] during the 2014-2015 school year, are you living in college-owned housing, with your parents (or guardians), or off campus? (If you have lived in more than one residence, choose the place where you have lived for the longest period of time.)

[else if TCURENR = 0 and COMPMODE = 0]

Where were you living during the 2014-2015 school year while attending [NPSAS]? (If you lived in more than one residence, choose the place where you lived for the longest period of time.)

[else]

While attending [NPSAS] during the 2014-2015 school year, did you live in college-owned housing, with your parents (or guardians), or off campus? (If you lived in more than one residence, choose the place where you lived for the longest period of time.)

1 = On campus or in college-owned housing

2 = With parents (or guardians)

3 = Off campus (not college-owned housing)

Applies To: Undergraduate respondents.

Source: NPSAS:16 Field Test Student Interview

N16EHOME

Own or paid a mortgage on a home

Do you own a home or pay a mortgage on a home?

0 = Did not own home or pay mortgage

1 = Yes, owned home or paid mortgage

Applies To: All respondents, except undergraduate respondents who lived on campus.

Source: NPSAS:16 Field Test Student Interview

N16ERNMT

Monthly mortgage or rent amount in 2014-15

[If TCURENR = 1 and N16EHOME = 1]

While attending school during the 2014-2015 school year, how much (on average) is your monthly mortgage payment? Please indicate only the amount that you [if N16AMARR = 2} and your spouse {else if N16AMARR = 6} and your partner] are responsible for paying. If someone else pays your mortgage on your behalf, please indicate "0."

[else if TCURENR = 0 and N16EHOME = 1]

While you were attending school during the 2014-2015 school year, how much (on average) was your monthly mortgage payment? Please indicate only the amount that you [if N16AMARR = 2} and your spouse {else if N16AMARR = 6} and your partner] were responsible for paying. If someone else paid your mortgage on your behalf, please indicate "0."

[else if TCURENR = 1 and N16EHOME = 0]

While attending school during the 2014-2015 school year, how much (on average) is your monthly rent payment? Please indicate only the amount that you [if N16AMARR = 2} and your spouse {else if N16AMARR = 6} and your partner] are responsible for paying. If you do not have a rent payment or someone else pays your rent on your behalf, please indicate "0."

[else if TCURENR = 0 and N16EHOME = 0]

While you were attending school during the 2014-2015 school year, how much (on average) was your monthly rent payment? Please indicate only the amount that you [if N16AMARR = 2} and your spouse {else if N16AMARR = 6} and your partner] were responsible for paying. If you did not pay rent or if someone else paid your rent on your behalf, please indicate "0."

[else if TCURENR = 1]

While attending school during the 2014-2015 school year, how much (on average) is your monthly rent or mortgage payment? Please indicate only the amount that you [if N16AMARR = 2} and your spouse {else if N16AMARR = 6} and your partner] are responsible for paying. If someone else pays your rent or mortgage on your behalf, please indicate "0."

[else]

While you were attending school during the 2014-2015 school year, how much (on average) was your monthly rent or mortgage payment? Please indicate only the amount that you [if N16AMARR = 2} and your spouse {else if N16AMARR = 6} and your partner] were responsible for paying. If you did not pay rent or a mortgage or if someone else paid your rent or mortgage on your behalf, please indicate "0."

Applies To: All respondents, except undergraduate respondents who lived on campus.

Source: NPSAS:16 Field Test Student Interview

N16EUNSSI

Received federal benefits: Supplemental Security Income

[If TAGE >= 24 or N16AMARR = 2 or (N16EDEPS = 1 and N16EDEP2 >= 0) or (N16EOTDEPS = 1 and N16EOTDEPS2 >= 0)]

Between July 1, 2014 and June 30, 2015, did you [if N16AMARR = 2 or (N16EDEPS = 1 and N16EDEP2 >= 0) or (N16EOTDEPS = 1 and N16EOTDEPS2 >= 0)] or anyone in your household] receive any of the following benefits?

[else]

Between July 1, 2014 and June 30, 2015, did you or anyone in your parents' (or guardians') household receive any of the following benefits?

Supplemental Security Income (SSI)

0 = Did not receive Supplemental Security

Income

1 = Yes, received Supplemental Security Income

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16EUNSNAP

Received federal benefits: SNAP

[If TAGE >= 24 or N16AMARR = 2 or (N16EDEPS = 1 and N16EDEP2 >= 0) or (N16EOTDEPS = 1 and N16EOTDEPS2 >= 0)]

Between July 1, 2014 and June 30, 2015, did you [if N16AMARR = 2 or (N16EDEPS = 1 and N16EDEP2 >= 0) or (N16EOTDEPS = 1 and N16EOTDEPS2 >= 0)] or anyone in your household] receive any of the following benefits?

[else]

Between July 1, 2014 and June 30, 2015, did you or anyone in your parents' (or guardians') household receive any of the following benefits?

SNAP (the Food Stamp Program)

0 = Did not receive SNAP

1 = Yes, received SNAP

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16EUNTANF*Received federal benefits: TANF*

[If TAGE >= 24 or N16AMARR = 2 or (N16EDEPS = 1 and N16EDEP2 >= 0) or (N16EOTDEPS = 1 and N16EOTDEPS2 >= 0)]

Between July 1, 2014 and June 30, 2015, did you [if N16AMARR = 2 or (N16EDEPS = 1 and N16EDEP2 >= 0) or (N16EOTDEPS = 1 and N16EOTDEPS2 >= 0)} or anyone in your household] receive any of the following benefits?

[else]

Between July 1, 2014 and June 30, 2015, did you or anyone in your parents' (or guardians') household receive any of the following benefits?

TANF (the Temporary Assistance for Needy Families Program)

0 = Did not receive TANF

1 = Yes, received TANF

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16EUNFRPL*Received federal benefits: The Free/ Reduced Price School Lunch Program*

[If TAGE >= 24 or N16AMARR = 2 or (N16EDEPS = 1 and N16EDEP2 >= 0) or (N16EOTDEPS = 1 and N16EOTDEPS2 >= 0)]

Between July 1, 2014 and June 30, 2015, did you [if N16AMARR = 2 or (N16EDEPS = 1 and N16EDEP2 >= 0) or (N16EOTDEPS = 1 and N16EOTDEPS2 >= 0)} or anyone in your household] receive any of the following benefits?

[else]

Between July 1, 2014 and June 30, 2015, did you or anyone in your parents' (or guardians') household receive any of the following benefits?

The Free and Reduced Price School Lunch Program

0 = Did not receive Free and Reduced Price Lunch

1 = Yes, received Free and Reduced Price Lunch

Applies To: Respondents who are younger than 24, not married, and have no children or other dependents, or respondents who have children who are younger than 19.

Source: NPSAS:16 Field Test Student Interview

N16EUNWIC*Received federal benefits: WIC*

[If TAGE >= 24 or N16AMARR = 2 or (N16EDEPS = 1 and N16EDEP2 >= 0) or (N16EOTDEPS = 1 and N16EOTDEPS2 >= 0)]

Between July 1, 2014 and June 30, 2015, did you [if N16AMARR = 2 or (N16EDEPS = 1 and N16EDEP2 >= 0) or (N16EOTDEPS = 1 and N16EOTDEPS2 >= 0)} or anyone in your household] receive any of the following benefits?

0)} or anyone in your household] receive any of the following benefits?

[else]

Between July 1, 2014 and June 30, 2015, did you or anyone in your parents' (or guardians') household receive any of the following benefits?

WIC (the Special Supplemental Nutrition Program for Women, Infants, and Children)

0 = Did not receive WIC

1 = Yes, received WIC

Applies To: Respondents who are younger than 24, not married, and have no children or other dependents, or respondents who have children who are younger than 6.

Source: NPSAS:16 Field Test Student Interview

N16FMILITA*Military status: Veteran*

Are you a veteran of the U.S. Armed Forces, or are you currently serving in the Armed Forces either on active duty, in the reserves, or in the National Guard?

Veteran

0 = Not a veteran

1 = Yes, a veteran

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16FMILITB*Military status: Active duty*

Are you a veteran of the U.S. Armed Forces, or are you currently serving in the Armed Forces either on active duty, in the reserves, or in the National Guard?

Active duty

0 = Not on active duty

1 = Yes, on active duty

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16FMILITC*Military status: Reserves*

Are you a veteran of the U.S. Armed Forces, or are you currently serving in the Armed Forces either on active duty, in the reserves, or in the National Guard?

Reserves

0 = Not in the reserves

1 = Yes, in the reserves

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16FMILITD*Military status: National Guard*

Are you a veteran of the U.S. Armed Forces, or are you currently serving in the Armed Forces either on active duty, in the reserves, or in the National Guard?

National Guard

0 = Not in the National Guard

1 = Yes, in the National Guard

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16FMILITN*Military status: none of the above*

Are you a veteran of the U.S. Armed Forces, or are you currently serving in the Armed Forces either on active duty, in the reserves, or in the National Guard?

None of the above

0 = Served in the U.S. Armed Forces

1 = Did not serve in the U.S. Armed Forces

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16EPARST*Parent's or guardian's marital status*

What is the current marital status of your parents (or guardians)? If your parents (or guardians) are divorced, please answer this question about the marital status of the parent (or guardian) whom you lived with most during the past 12 months. (If you did not live with one parent more than the other, answer about the parent who provided more financial support during the last 12 months, or during the most recent year that you received support from a parent.)

1 = Married or remarried

2 = Never married

3 = Divorced or separated

4 = Widowed

5 = Unmarried and both parents living together

6 = Both parents are deceased

Applies To: Undergraduate respondents who were younger than 24, unmarried and had no children, and were not a veteran or on active duty in the military.

Source: NPSAS:16 Field Test Student Interview

N16EPARNC*Parent's or guardian's income in 2014*

[If N16EPARST in (1 5)]

What was your parents' (or guardians') combined income in calendar year 2014 (January 1, 2014 through December 31, 2014)? (If your parents are divorced and the parent you lived with more during the past 12 months is remarried, tell us about the combined income of that parent and the person he or she is married to.)

[else if N16EPARST = 2]

What was your parent's (or guardian's) income in calendar year 2014 (January 1, 2014 through December 31, 2014)? Would you say it was.. (Tell us about the parent or guardian whom you lived with most during the past 12

months. If you did not live with one parent more than the other, answer about the parent who provided more financial support during the last 12 months, or during the most recent year that you received support from a parent.)

[else if N16EPARST = 4]

What was your parent's (or guardian's) income in calendar year 2014 (January 1, 2014 through December 31, 2014)? Would you say it was..

[else]

In calendar year 2014 (January 1, 2014 through December 31, 2014), what was the income of the parent (or guardian) whom you lived with most in the past 12 months? Would you say it was.. (If you did not live with one parent more than the other, answer about the parent who provided more financial support during the last 12 months, or during the most recent year that you received support from a parent.)

1 = Under \$30,000

2 = \$30,000 - \$59,999

3 = \$60,000 - \$89,999

4 = \$90,000 - \$119,999

5 = \$120,000 or more

6 = Don't know

Applies To: Undergraduate respondents who were younger than 24, unmarried, had no children, were not a veteran or on active duty in the military, and had not indicated their parents being deceased.

Source: NPSAS:16 Field Test Student Interview

N16EPTDCD*Parents or guardians were deceased*

[If N16EPARST in (1 5)]

What was your parents' (or guardians') combined income in calendar year 2014 (January 1, 2014 through December 31, 2014)? (If your parents are divorced and the parent you lived with more during the past 12 months is remarried, tell us about the combined income of that parent and the person he or she is married to.)

[else if N16EPARST = 2]

What was your parent's (or guardian's) income in calendar year 2014 (January 1, 2014 through December 31, 2014)? Would you say it was.. (Tell us about the parent or guardian whom you lived with most during the past 12 months. If you did not live with one parent more than the other, answer about the parent who provided more financial support during the last 12 months, or during the most recent year that you received support from a parent.)

[else if N16EPARST = 4]

What was your parent's (or guardian's) income in calendar year 2014 (January 1, 2014 through December 31, 2014)? Would you say it was..

[else]

In calendar year 2014 (January 1, 2014 through December 31, 2014), what was the income of the parent (or guardian) whom you lived with most in the past 12 months? Would you say it was.. (If you did not live with one parent more than the other, answer about the parent who provided more financial support during the last 12 months, or during the most recent year that you received support from a parent.)

Parents (or guardians) are deceased

0 = At least one parent or guardian living

1 = Both parents or guardians are deceased

Applies To: Undergraduate respondents who were younger than 24, unmarried, had no children, were not a veteran or on active duty in the military, and had not indicated their parents being deceased.

Source: NPSAS:16 Field Test Student Interview

N16EPRHSD

Number of people financially supported by parents in 2014-15

[If N16EPARST in (1 5) and TCURENR = 1]

Not including yourself or your parents (or guardians), how many people (for example, brothers or sisters or grandparents) have your parents (or guardians) been supporting financially since July 1, 2014? (If your parents are divorced and the parent you lived with more during the past 12 months is remarried, tell us about the number of people that parent and the person he or she is married to, are supporting.)

[else if N16EPARST in (1 5) and TCURENR = 0]

Not including yourself or your parents (or guardians), how many people (for example, brothers or sisters or grandparents) did your parents (or guardians) support financially during the most recent term you attended school in the 2014-2015 school year? (If your parents are divorced and the parent you lived with more during the past 12 months is remarried, tell us about the number of people that parent and the person he or she is married to, are supporting.)

[else if N16EPARST in (2 4) and TCURENR = 1]

Not including yourself or your parent (or guardian), how many people (for example, brothers or sisters or grandparents) has your parent (or guardian) been supporting financially since July 1, 2014? [If N16EPARST = 2] (Tell us about the parent or guardian whom you lived with most during the past 12 months. If you did not live with one parent more than the other, answer about the parent who provided more financial support during the last 12 months, or during the most recent year that you received support from a parent.)

[else if N16EPARST in (2 4) and TCURENR = 0]

Not including yourself or your parent (or guardian), how many people (for example, brothers or sisters or grandparents) did your parent (or guardian) support financially during the most recent term you attended

school in the 2014-2015 school year? [If N16EPARST = 2] (Tell us about the parent or guardian whom you lived with most during the past 12 months. If you did not live with one parent more than the other, answer about the parent who provided more financial support during the last 12 months, or during the most recent year that you received support from a parent.)

[else if TCURENR = 1]

Not including yourself or the parent (or guardian) whom you lived with most in the past 12 months, how many people (for example, brothers or sisters or grandparents) has this parent (or guardian) been supporting financially since July 1, 2014? (If you did not live with one parent more than the other, answer about the parent who provided more financial support during the last 12 months, or during the most recent year that you received support from a parent.)

[else]

Not including yourself or the parent (or guardian) whom you lived with most in the past 12 months, how many people (for example, brothers or sisters or grandparents) did this parent (or guardian) support financially during the most recent term you attended school in the 2014-2015 school year? (If you did not live with one parent more than the other, answer about the parent who provided more financial support during the last 12 months, or during the most recent year that you received support from a parent.)

Applies To: Undergraduate respondents who were younger than 24, unmarried, had no children, were not a veteran or on active duty in the military, and had not indicated their parents being deceased.

Source: NPSAS:16 Field Test Student Interview

N16EDPNUM

Number of people financially supported by parents in college in 14-15

[If N16EPARST in (1 5) and TCURENR = 1]

Not including yourself or your parents (or guardians), how many of the people financially supported by your parents (or guardians) have attended a college, university, or trade school since July 1, 2014?

[else if N16EPARST in (1 5) and TCURENR = 0]

Not including yourself or your parents (or guardians), how many of the people financially supported by your parents (or guardians) attended a college, university, or trade school during the most recent term you attended school in the 2014-2015 school year?

[else if TCURENR = 1]

Not including yourself or your parent (or guardian), how many of the people financially supported by your parent (or guardian) have attended a college, university, or trade school since July 1, 2014?

[else]

Not including yourself or your parent (or guardian), how many of the people financially supported by your parent (or guardian) attended a college, university, or trade school during the most recent term you attended school in the 2014-2015 school year?

Applies To: Undergraduate respondents who were younger than 24, unmarried, had no children, were not a veteran or on active duty in the military, and whose parents financially supported other people in the 2014-15 academic year.

Source: NPSAS:16 Field Test Student Interview

N16FFLANG

First language respondent learned to speak

What was the first language you learned to speak as a child?

- 1 = English
- 2 = Spanish
- 3 = English and Spanish equally
- 4 = Another language (other than English or Spanish)
- 5 = An equal mix of English and another language

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16FFFLANGA

Frequency of speaking non-English language with primary caregiver

[If N16FFLANG in (2 3)]

How often did you speak Spanish with your mother or primary caregiver when you started high school? [else]

How often did you speak your non-English language with your mother or primary caregiver when you started high school?

- 0 = Never
- 1 = Sometimes
- 2 = About half of the time
- 3 = Most of the time
- 4 = Always

Applies To: Respondents who first learned to speak a non-English language.

Source: NPSAS:16 Field Test Student Interview

N16FSPCOL

Spouse attended postsecondary school during 2014-15 academic year

Has your spouse attended a college, university, or trade school during the 2014-2015 school year?

- 0 = Spouse did not attend in college in 2014-15
- 1 = Yes, spouse attended college full time in 2014-15
- 2 = Yes, spouse attended college part time in 2014-15

Applies To: Married respondents.

Source: NPSAS:16 Field Test Student Interview

N16FSIBCL

Brothers or sisters attended college first

Do you have any brothers or sisters who went to college before you did?

0 = Brother or sister did not attend college first

1 = Yes, brother or sister attended college first

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16FACS16A

Deaf or serious difficulty hearing

These last few questions will help us better understand the educational services available for people with disabilities. Are you deaf or do you have serious difficulty hearing?

Notes: N16FACS16A is based on item 16A from the ACS (American Community Survey) 2008 questionnaire. This question refers to the owner or renter of the property being surveyed and asks, "Is this person deaf or does he/she have serious difficulty hearing?" The response options were "Yes" or "No."

0 = Not deaf or serious difficulty hearing

1 = Yes, deaf or serious difficulty hearing

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16FACS16B

Blind or serious difficulty seeing

Are you blind or do you have serious difficulty seeing even when wearing glasses?

Notes: N16FACS16B is based on item 16B from the ACS (American Community Survey) 2008 questionnaire. This question refers to the owner or renter of the property being surveyed and asks, "Is this person blind or does he/she have serious difficulty seeing even when wearing glasses?" The response options were "Yes" or "No."

0 = Not blind or serious difficulty seeing

1 = Yes, blind or serious difficulty seeing

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16FACS17A

Difficulty concentrating, remembering, making decisions

Because of a physical, mental, or emotional condition, do you have serious difficulty concentrating, remembering, or making decisions? When answering consider conditions including, but not limited to, depression, ADD, or ADHD.)

Notes: N16FACS17A is based on item 17A from the ACS (American Community Survey) 2008 questionnaire.

This question refers to the owner or renter of the property being surveyed and asks, "Because of a physical, mental, or emotional condition, does this person have

serious difficulty concentrating, remembering, or making decisions?" The response options were "Yes" or "No."

0 = No difficulty concentrating

1 = Yes, difficulty concentrating

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16FACS17B

Serious difficulty walking or climbing stairs

Do you have serious difficulty walking or climbing stairs?

Notes: N16FACS17B is based on item 17B from the ACS (American Community Survey) 2008 questionnaire. This question refers to the owner or renter of the property being surveyed and asks, "Does this person have serious difficulty walking or climbing stairs?" The response options were "Yes" or "No."

0 = No serious difficulty walking

1 = Yes, serious difficulty walking

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

N16FMAIN1

Main category of impairment or disability

What is the main type of condition or impairment you have?

1 = Blindness or visual impairment

2 = Hearing impairment

3 = Orthopedic or mobility impairment

4 = Speech or language impairment

5 = Learning/mental/emotional or psychiatric condition

6 = Other impairment or disability

Applies To: All respondents who reported a disability.

Source: NPSAS:16 Field Test Student Interview

N16FMAIN2

Type of mental or emotional condition or impairment

Thanks. What specifically is this main type of condition or impairment?

1 = Anxiety

2 = Attention deficit disorder

3 = Autism or other developmental disability

4 = Depression

5 = Specific learning disability or dyslexia

6 = Traumatic brain injury

7 = Other mental or emotional condition or impairment

Applies To: All respondents who reported a learning, mental, emotional, or psychiatric condition, or other health impairment or problem.

Source: NPSAS:16 Field Test Student Interview

Y_NPSCHL

Preload: NPSAS school name

Notes: Y_NPSCHL is the school name for the respondent's NPSAS institution. This information comes from the U.S. Department of Education's Integrated Postsecondary Education Data System (IPEDS). See <http://nces.ed.gov/ipeds/datacenter/> for more information on IPEDS.

Applies To: All respondents.

Source: IPEDS 2012-13

Y_NPIPDS

Preload: NPSAS IPEDS ID

Notes: Y_NPIPDS is the IPEDS ID for the respondent's NPSAS institution. This information comes from the U.S. Department of Education's Integrated Postsecondary Education Data System (IPEDS). See <http://nces.ed.gov/ipeds/datacenter/> for more information on IPEDS.

Applies To: All respondents.

Source: IPEDS 2012-13

Y_NPCITY

Preload: NPSAS city

Notes: Y_NPCITY is the city name for the respondent's NPSAS institution. This information comes from the U.S. Department of Education's Integrated Postsecondary Education Data System (IPEDS). See <http://nces.ed.gov/ipeds/datacenter/> for more information on IPEDS.

Applies To: All respondents.

Source: IPEDS 2012-13

Y_NPSTAT

Preload: NPSAS state

Notes: Y_NPSTAT is the state code for the respondent's NPSAS institution. This information comes from the U.S. Department of Education's Integrated Postsecondary Education Data System (IPEDS). See <http://nces.ed.gov/ipeds/datacenter/> for more information on IPEDS.

1 = Alabama

2 = Alaska

3 = Arizona

4 = Arkansas

5 = California

6 = Colorado

7 = Connecticut

8 = Delaware

9 = District of Columbia

10 = Florida

11 = Georgia

12 = Hawaii

- 13 = Idaho
- 14 = Illinois
- 15 = Indiana
- 16 = Iowa
- 17 = Kansas
- 18 = Kentucky
- 19 = Louisiana
- 20 = Maine
- 21 = Maryland
- 22 = Massachusetts
- 23 = Michigan
- 24 = Minnesota
- 25 = Mississippi
- 26 = Missouri
- 27 = Montana
- 28 = Nebraska
- 29 = Nevada
- 30 = New Hampshire
- 31 = New Jersey
- 32 = New Mexico
- 33 = New York
- 34 = North Carolina
- 35 = North Dakota
- 36 = Ohio
- 37 = Oklahoma
- 38 = Oregon
- 39 = Pennsylvania
- 40 = Rhode Island
- 41 = South Carolina
- 42 = South Dakota
- 43 = Tennessee
- 44 = Texas
- 45 = Utah
- 46 = Vermont
- 47 = Virginia
- 48 = Washington
- 49 = West Virginia
- 50 = Wisconsin
- 51 = Wyoming
- 52 = Puerto Rico
- 63 = Foreign country

Applies To: All respondents.

Source: IPEDS 2012-13

Y_NPCTRL

Preload: NPSAS control

Notes: Y_NPCTRL is the control the for the respondent's NPSAS institution. The institution control is a classification of whether an institution is operated by publicly elected/appointed officials or by privately elected/appointed officials and derives its major source of funds from private sources. This information comes from the U.S. Department of Education's Integrated

Postsecondary Education Data System (IPEDS). See <http://nces.ed.gov/ipeds/datacenter/> for more information on IPEDS.

Public institution - An educational institution whose programs and activities are operated by publicly elected or appointed school officials and which is supported primarily by public funds.

Private nonprofit institution - A private institution in which the individual(s) or agency in control receives no compensation, other than wages, rent, or other expenses for the assumption of risk. These include both independent nonprofit schools and those affiliated with a religious organization.

Private for-profit institution - A private institution in which the individual(s) or agency in control receives compensation other than wages, rent, or other expenses for the assumption of risk.

1 = Public

2 = Private nonprofit

3 = Private for-profit

Applies To: All respondents.

Source: IPEDS 2012-13

Y_NPLEVL

Preload: NPSAS level

Notes: Y_NPLEVL is the level for the respondent's NPSAS institution. The level indicates the length of time it takes to complete the highest level of program offered by the institution. This information comes from the U.S. Department of Education's Integrated Postsecondary Education Data System (IPEDS). See <http://nces.ed.gov/ipeds/datacenter/> for more information on IPEDS.

1 = 4-year

2 = 2-year

3 = Less-than-2-year

Applies To: All respondents.

Source: IPEDS 2012-13

Y_CALSYS

Preload: continuous enrollment school

Notes: Y_CALSYS indicates the type of calendar system of the NPSAS institution.

0 = Not continuous calendar system

1 = Continuous calendar system

Applies To: All respondents.

Source: IPEDS 2012-13

Y_EDLEV

Preload: education level

Notes: Y_EDLEV indicates the education level of the respondent provided by the NPSAS institution.

D = Doctoral degree student

M = Master's degree student
 O = Other graduate degree student
 P = Professional degree student
 U = Undergraduate degree student

Applies To: All respondents.

Source: NPSAS:16 Field Test Enrollment Lists

Y_MODULE

Preload: module experiment group

Notes: Y_MODULE indicates which module experimental group the respondent was assigned to.

0 = Not selected for module experiment

1 = Selected for module experiment

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

Y_GENDR

Preload: gender

Notes: Y_GENDR indicates whether preloaded information was available on the respondent's gender.

0 = No preloaded information on gender

1 = Have preloaded information on gender

Applies To: All respondents.

Source: CPS 2014-15; NPSAS:16 Field Test Enrollment Lists

Y_CPSHSCD

Preload: CPS high school code

Notes: Y_CPSHSCD indicates the respondent's PSS (Private School Survey) or CCD (Common Core of Data) high school code.

Applies To: All respondents.

Source: CPS 2014-15

Y_CITZN

Preload: citizenship

Description: Y_CITZN indicates whether preloaded information was available on the respondent's citizenship status.

0 = U.S. citizenship unknown

1 = Yes, U.S. citizen

Applies To: All respondents.

Source: CPS 2014-15

Y_COURSEXP

Preload: course type experiment group

Notes: Y_COURSEXP indicates which course type experimental group the respondent was assigned to.

1 = Course experiment: group 1

2 = Course experiment: group 2

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

Y_PAREXP

Preload: parent education experiment group

Notes: Y_PAREXP indicates which parent education experimental group the respondent was assigned to.

1 = Parent education experiment: group 1

2 = Parent education experiment: group 2

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

Y_STDAEXP

Preload: study abroad experiment group

Notes: Y_STDAEXP indicates which study abroad experimental group the respondent was assigned to.

1 = Study abroad experiment: group 1

2 = Study abroad experiment: group 2

Applies To: All respondents.

Source: NPSAS:16 Field Test Student Interview

References

- Bishop, G.F., Tuchfarber, A.J., and Oldendick, R.W. (1986). Opinions on Fictitious Issues: The Pressure to Answer Survey Questions. *Public Opinion Quarterly*, 50(2): 240–250.
- Freedman, J.L., and Fraser, S.C. (1966). Compliance without Pressure: The Foot-In-The-Door Technique. *Journal of Personality and Social Psychology*, 4(2), 195–202.