

C

Standard NAEP Estimates

The tables in this appendix are based on standard NAEP estimates, which do not include representation of the mathematics achievement of those students with disabilities and English language learners who are excluded from NAEP testing sessions or would be excluded if selected. All other achievement tables and figures in this report are based on full population estimates, which include representation of the achievement of excluded students. The method for estimation of excluded students' mathematics achievement is described in appendix A.

Table C-1. NAEP equivalent of state grade 4 mathematics achievement standards, by state: 2003 (corresponds to table B-3)

State/ jurisdiction	Standard 1	Standard 2	Standard 3	Standard 4	Standard 5
Alabama	—	—	—	—	—
Alaska	—	—	222.9	—	—
Arizona	—	194.2	231.5	240.7	—
Arkansas	—	209.4	223.6	238.9	—
California	180.2	209.7	231.1	255.3	—
Colorado	—	—	201.8	232.4	260.9
Connecticut	204.3	217.1	236.1	263.5	—
Delaware	—	202.3	219.9	258.5	272.0
District of Columbia	—	192.4	218.6	250.1	—
Florida	—	211.5	230.7	258.1	281.1
Georgia	—	—	211.9	256.7	—
Hawaii	—	206.4	251.7	283.1	—
Idaho	—	185.3	216.9	254.1	—
Illinois	—	176.2	217.8	272.3	—
Indiana	—	—	225.7	270.4	—
Iowa	—	—	221.8	—	—
Kansas	—	203.5	225.9	241.9	263.4
Kentucky	—	217.4	237.6	265.2	—
Louisiana	202.4	221.3	255.1	276.7	—
Maine	—	223.4	252.3	281.4	—
Maryland	—	—	228.7	274.2	—
Massachusetts	—	214.9	251.2	274.3	—
Michigan	—	192.3	226.5	259.4	—
Minnesota	194.9	220.9	237.5	267.7	—
Mississippi	—	188.6	205.4	—	—
Missouri	181.8	212.8	244.4	273.2	—
Montana	—	205.4	219.9	260.9	—
Nebraska	—	—	—	—	—
Nevada	—	207.9	228.2	248.6	—
New Hampshire	—	—	221.7	248.7	269.5
New Jersey	—	—	227.1	259.6	—
New Mexico	—	206.9	229.0	247.1	—
New York	—	187.2	213.5	250.5	—
North Carolina	—	187.9	203.5	236.7	—
North Dakota	—	—	233.7	—	—
Ohio	—	222.7	232.4	265.0	—
Oklahoma	—	174.3	217.2	256.4	—
Oregon	—	—	215.5	255.0	—
Pennsylvania	—	213.2	233.2	254.6	—
Rhode Island	—	—	237.8	—	—
South Carolina	—	213.9	248.5	266.2	—
South Dakota	—	171.3	223.4	258.6	—
Tennessee	—	—	—	—	—
Texas	—	—	207.0	—	—
Utah	—	—	—	—	—
Vermont	185.4	226.6	241.3	268.9	—
Virginia	—	—	221.9	264.8	—
Washington	—	215.1	236.0	257.1	—
West Virginia	—	—	—	—	—
Wisconsin	—	212.2	223.1	253.2	—
Wyoming	—	228.9	250.2	273.1	—

— Not available.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2003 Mathematics Assessment: The National Longitudinal School-Level State Assessment Score Database (NLSLSASD) 2004.



Table C-2. NAEP equivalent of state grade 8 mathematics achievement standards, by state: 2003 (corresponds to table B-3)

State/ jurisdiction	Standard 1	Standard 2	Standard 3	Standard 4	Standard 5
Alabama	—	—	—	—	—
Alaska	—	—	268.0	—	—
Arizona	—	263.2	299.9	321.5	—
Arkansas	—	251.6	295.8	332.2	—
California	216.3	253.0	287.1	323.0	—
Colorado	—	—	267.7	294.4	322.4
Connecticut	235.5	258.0	279.1	313.0	—
Delaware	—	255.1	278.2	306.5	320.1
District of Columbia	—	251.6	282.9	322.3	—
Florida	—	245.6	268.9	299.6	319.9
Georgia	—	—	255.2	307.7	—
Hawaii	—	246.3	299.3	345.5	—
Idaho	—	247.6	280.1	315.8	—
Illinois	—	217.6	275.7	313.7	—
Indiana	—	—	269.4	322.3	—
Iowa	—	—	266.6	—	—
Kansas	—	255.9	278.3	296.4	317.1
Kentucky	—	253.9	291.2	320.8	—
Louisiana	245.1	265.4	310.7	325.9	—
Maine	—	269.1	311.2	358.5	—
Maryland	—	—	286.0	318.6	—
Massachusetts	—	270.6	298.9	326.2	—
Michigan	—	254.1	278.1	298.2	—
Minnesota	—	—	—	—	—
Mississippi	—	241.6	261.4	—	—
Missouri	247.2	281.4	314.4	347.6	—
Montana	—	254.5	271.0	318.4	—
Nebraska	—	—	—	—	—
Nevada	—	251.8	277.2	300.0	—
New Hampshire	—	—	—	—	—
New Jersey	—	—	278.5	317.6	—
New Mexico	—	242.2	269.6	294.5	—
New York	—	242.1	279.2	324.5	—
North Carolina	—	220.8	246.8	284.8	—
North Dakota	—	—	293.4	—	—
Ohio	—	—	—	—	—
Oklahoma	—	215.4	256.0	304.4	—
Oregon	—	—	275.3	298.9	—
Pennsylvania	—	256.4	279.4	309.8	—
Rhode Island	—	—	287.0	—	—
South Carolina	—	263.1	306.0	327.4	—
South Dakota	—	225.1	281.6	329.0	—
Tennessee	—	—	—	—	—
Texas	—	—	259.0	—	—
Utah	—	—	—	—	—
Vermont	242.4	271.0	286.0	316.9	—
Virginia	—	—	255.8	313.7	—
Washington	—	277.9	295.0	311.6	—
West Virginia	—	—	—	—	—
Wisconsin	—	242.3	260.9	305.9	—
Wyoming	—	267.8	296.9	321.0	—

— Not available.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2003 Mathematics Assessment: The National Longitudinal School-Level State Assessment Score Database (NLSLSASD) 2004.

Table C-3. Correlations between NAEP and state assessment school-level percentages meeting primary state mathematics standards, grades 4 and 8, by state: 2003 (corresponds to table 4)

State/ jurisdiction	Name of standard	Grades		Grade 4 standard error	Grade 8 standard error
Alabama	Percentile Rank	4	8	0.80	0.84
Alaska	Proficient	4	8	0.79	0.86
Arizona	Meeting	5	8	0.77	0.69
Arkansas	Proficient	4	8	0.82	0.77
California	Proficient	4	7	0.84	0.88
Colorado	Partially Proficient	5	8	0.80	0.87
Connecticut	Goal	4	8	0.88	0.89
Delaware	Meeting	5	8	0.62	0.80
District of Columbia	Proficient	4	8	0.68	0.97
Florida	(3) Partial Success	4	8	0.88	0.85
Georgia	Meeting	4	8	0.83	0.81
Hawaii	Meeting	5	8	0.78	0.82
Idaho	Proficient	4	8	0.67	0.70
Illinois	Meeting	5	8	0.84	0.91
Indiana	Pass	3	8	0.44	0.82
Iowa	Proficient	4	8	0.78	0.77
Kansas	Proficient	4	7	0.65	0.72
Kentucky	Proficient	5	8	0.53	0.70
Louisiana	Mastery	4	8	0.79	0.81
Maine	Meeting	4	8	0.56	0.70
Maryland	Proficient	5	8	0.82	0.87
Massachusetts	Proficient	4	8	0.82	0.87
Michigan	Meeting	4	8	0.75	0.86
Minnesota	(3) Proficient	5	—	0.75	—
Mississippi	Proficient	4	8	0.81	0.83
Missouri	Proficient	4	8	0.69	0.62
Montana	Proficient	4	8	0.73	0.71
Nebraska	Meeting	—	—	—	—
Nevada	Meeting:3	4	7	0.81	0.81
New Hampshire	Basic	3	—	0.43	—
New Jersey	Proficient	4	8	0.84	0.90
New Mexico	Top half	4	8	0.77	0.81
New York	Meeting	4	8	0.86	0.86
North Carolina	Consistent Mastery	4	8	0.57	0.70
North Dakota	Meeting	4	8	0.64	0.76
Ohio	Proficient	4	—	0.81	—
Oklahoma	Satisfactory	5	8	0.56	0.71
Oregon	Meeting	5	8	0.50	0.75
Pennsylvania	Proficient	5	8	0.84	0.86
Rhode Island	Proficient	4	8	0.76	0.90
South Carolina	Proficient	4	8	0.73	0.79
South Dakota	Proficient	4	8	0.77	0.71
Tennessee	Percentile Rank	4	8	0.75	0.80
Texas	Passing	4	8	0.56	0.70
Utah	Percentile Rank	5	8	0.66	0.70
Vermont	Achieved	4	8	0.48	0.75
Virginia	Proficient	5	8	0.55	0.65
Washington	Met	4	7	0.68	0.67
West Virginia	Top half	—	—	—	—
Wisconsin	Proficient	4	8	0.82	0.89
Wyoming	Proficient	4	8	0.64	0.74

— Not available.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2003 Mathematics Assessment: The National Longitudinal School-Level State Assessment Score Database (NLSLSASD) 2004.



Table C-4. Mathematics achievement gains in percentage meeting the primary standard in grade 4 (corresponds to table 8)

State/ jurisdiction	State			NAEP		
	2000	2003	Gain	2000	2003	Gain
Alabama	57.5	53.1	-4.4	41.2	35.7	-5.5
Alaska	—	67.3	—	—	67.3	—
Arizona	40.9	49.8	8.9*	41.0	55.5	14.5*
Arkansas	35.8	60.1	24.3*	35.8	52.3	16.5*
California	52.4	—	—	52.2	—	—
Colorado	—	86.2	—	—	86.2	—
Connecticut	63.9	58.9	-5.0*	63.9	71.7	7.8*
Delaware	—	72.6	—	—	72.5	—
District of Columbia	37.0	—	—	36.9	—	—
Florida	—	55.6	—	—	55.5	—
Georgia	61.6	73.9	12.3	61.6	76.8	15.2
Hawaii	65.2	67.6	2.4*	65.2	77.1	11.9*
Idaho	—	76.7	—	—	76.7	—
Illinois	53.2	68.6	15.4	53.2	66.0	12.8
Indiana	—	—	—	—	—	—
Iowa	—	75.2	—	—	75.2	—
Kansas	59.2	73.9	14.7	59.3	70.8	11.5
Kentucky	31.3	38.0	6.7	31.3	41.2	9.9
Louisiana	11.5	15.7	4.2*	11.6	19.8	8.2*
Maine	23.3	29.1	5.8*	23.3	34.4	11.1*
Maryland	45.6	—	—	45.6	—	—
Massachusetts	41.4	38.3	-3.1*	41.2	51.4	10.2*
Michigan	76.9	—	—	76.8	—	—
Minnesota	47.8	58.3	10.5*	47.8	57.7	9.9*
Mississippi	—	74.0	—	—	74.1	—
Missouri	36.5	36.8	0.3*	36.5	46.1	9.6*
Montana	—	75.3	—	—	75.3	—
Nebraska	60.0	—	—	59.8	—	—
Nevada	—	—	—	—	—	—
New Hampshire	—	80.4	—	—	80.3	—
New Jersey	—	67.9	—	—	67.9	—
New Mexico	—	42.3	—	—	42.3	—
New York	68.2	79.4	11.2	68.2	76.8	8.6
North Carolina	84.5	92.3	7.8	84.5	92.8	8.3
North Dakota	—	59.1	—	—	59.1	—
Ohio	42.6	59.3	16.7*	42.8	53.5	10.7*
Oklahoma	86.2	69.4	-16.8*	86.2	89.4	3.2*
Oregon	67.3	78.0	10.7	67.4	81.1	13.7
Pennsylvania	—	56.9	—	—	56.8	—
Rhode Island	20.8	42.5	21.7*	21.0	26.2	5.2*
South Carolina	22.9	32.8	9.9*	22.8	38.9	16.1*
South Dakota	—	72.5	—	—	72.6	—
Tennessee	—	54.5	—	—	41.3	—
Texas	88.7	—	—	88.7	—	—
Utah	50.2	48.1	-2.1	52.3	50.8	-1.5
Vermont	47.0	53.0	6.0*	47.0	62.2	15.2*
Virginia	—	—	—	—	—	—
Washington	—	54.1	—	—	54.1	—
West Virginia	—	—	—	—	—	—
Wisconsin	72.2	—	—	72.3	—	—
Wyoming	25.6	36.4	10.8*	25.6	41.2	15.6*

— Not available.

* State and NAEP gains are significantly different from each other ($p < .05$).

NOTE: Primary standard is the state's standard for *proficient* performance.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2000 and 2003 Mathematics Assessments: The National Longitudinal School-Level State Assessment Score Database (NLSLSASD) 2004.

Table C-5. Mathematics achievement gains in percentage meeting the primary standard in grade 8: 2000 and 2003 (corresponds to table 9)

State/ jurisdiction	State			NAEP		
	2000	2003	Gain	2000	2003	Gain
Alabama	55.7	50.7	-5.0	41.9	38.3	-3.6
Alaska	—	65.2	—	—	65.4	—
Arizona	18.2	20.8	2.6	18.1	18.1	0.0
Arkansas	13.3	21.9	8.6 *	13.3	18.3	5.0 *
California	48.1	—	—	48.1	—	—
Colorado	—	68.4	—	—	68.4	—
Connecticut	58.3	56.3	-2.0 *	58.4	60.1	1.7 *
Delaware	—	48.2	—	—	48.3	—
District of Columbia	8.5	—	—	8.4	—	—
Florida	—	54.3	—	—	54.3	—
Georgia	54.9	66.4	11.5 *	54.9	59.7	4.8 *
Hawaii	60.7	54.2	-6.5 *	60.7	64.9	4.2 *
Idaho	—	52.4	—	—	52.4	—
Illinois	46.1	54.0	7.9 *	46.1	49.3	3.2 *
Indiana	—	—	—	—	—	—
Iowa	—	71.7	—	—	71.8	—
Kansas	55.2	59.4	4.2	55.3	55.6	0.3
Kentucky	26.2	32.0	5.8	26.1	30.3	4.2
Louisiana	7.3	8.8	1.5	7.4	10.9	3.5
Maine	20.6	17.1	-3.5	20.8	19.3	-1.5
Maryland	51.3	—	—	51.3	—	—
Massachusetts	34.0	38.4	4.4 *	34.1	41.9	7.8 *
Michigan	66.9	—	—	66.9	—	—
Minnesota	—	—	—	—	—	—
Mississippi	—	46.1	—	—	46.2	—
Missouri	12.9	13.4	0.5 *	12.9	18.1	5.2 *
Montana	—	70.4	—	—	70.4	—
Nebraska	60.4	—	—	61.5	—	—
Nevada	—	—	—	—	—	—
New Hampshire	—	—	—	—	—	—
New Jersey	—	56.4	—	—	56.4	—
New Mexico	—	39.5	—	—	39.6	—
New York	41.3	54.1	12.8 *	41.4	48.9	7.5 *
North Carolina	80.8	82.4	1.6	80.9	83.5	2.6
North Dakota	—	43.6	—	—	43.7	—
Ohio	—	—	—	—	—	—
Oklahoma	70.8	71.3	0.5	70.9	73.3	2.4
Oregon	54.8	57.7	2.9	54.9	55.1	0.2
Pennsylvania	—	51.6	—	—	51.6	—
Rhode Island	26.8	35.6	8.8 *	26.9	29.1	2.2 *
South Carolina	19.4	20.4	1.0 *	19.3	29.3	10. *
South Dakota	—	57.5	—	—	57.6	—
Tennessee	—	57.8	—	—	41.9	—
Texas	89.9	—	—	89.9	—	—
Utah	57.9	56.9	-1.0	52.0	53.5	1.5
Vermont	45.8	51.6	5.8	45.8	52.4	6.6
Virginia	—	—	—	—	—	—
Washington	—	36.6	—	—	36.7	—
West Virginia	—	—	—	—	—	—
Wisconsin	43.1	—	—	43.3	—	—
Wyoming	31.5	35.1	3.6 *	31.5	41.3	9.8 *

— Not available.

* State and NAEP gains are significantly different from each other ($p < .05$).

NOTE: Primary standard is the state's standard for *proficient* performance.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2000 and 2003 Mathematics Assessments: The National Longitudinal School-Level State Assessment Score Database (NLSLSASD) 2004.



Table C-6. Differences between NAEP and state assessments of grade 4 mathematics achievement race and poverty gaps, by state: 2003 (corresponds to table 10)

State/ jurisdiction	Black-White	Hispanic-White	Poverty
Alabama	-7.4*	—	-4.2*
Alaska	—	—	—
Arizona	—	-12.6*	—
Arkansas	-8.7*	—	1.2
California	—	-11.5*	-7.5*
Colorado	—	—	—
Connecticut	-9.7*	-5.8	-6.2*
Delaware	-4.4*	—	-0.4
District of Columbia	—	—	-16.5*
Florida	-8.7*	-2.6	-3.1
Georgia	-8.8*	—	-3.5
Hawaii	—	—	-5.4*
Idaho	—	-10.6*	—
Illinois	-3.0	-6.6*	-3.6
Indiana	-23.6*	—	-11.8*
Iowa	—	—	—
Kansas	-11.8*	—	-7.9
Kentucky	-2.1	—	-2.0
Louisiana	-4.5*	—	-3.1
Maine	—	—	—
Maryland	—	—	—
Massachusetts	-5.8*	-6.7	—
Michigan	—	—	—
Minnesota	—	—	-2.4
Mississippi	-2.7	—	-3.2
Missouri	-13.5*	—	-4.0
Montana	—	—	—
Nebraska	—	—	—
Nevada	—	-6.1*	-6.7*
New Hampshire	—	—	-8.8*
New Jersey	-8.3	-14.0*	-5.0
New Mexico	—	-8.0*	-2.1
New York	-5.7*	-4.9	-2.0
North Carolina	-5.8*	—	-2.2
North Dakota	—	—	—
Ohio	-9.9*	—	-7.7*
Oklahoma	-6.7	—	—
Oregon	—	—	—
Pennsylvania	-5.5	—	-3.5
Rhode Island	—	-13.4*	—
South Carolina	-5.7*	—	-2.4
South Dakota	—	—	-3.2
Tennessee	-3.7	—	-0.5
Texas	-3.8	-2.6	—
Utah	—	—	—
Vermont	—	—	-13.1*
Virginia	-12.5*	—	—
Washington	—	0.5	—
West Virginia	—	—	—
Wisconsin	-9.6*	—	-8.9*
Wyoming	—	—	-4.6*

— Not available.

* State and NAEP gains are significantly different from each other ($p < .05$).

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2003 Mathematics Assessment: The National Longitudinal School-Level State Assessment Score Database (NLSLSASD) 2004.

Table C-7. Differences between NAEP and state assessments of grade 8 mathematics achievement race and poverty gaps, by state: 2003 (corresponds to table 11)

State/ jurisdiction	Black-White	Hispanic-White	Poverty
Alabama	-8.0 *	—	-3.5
Alaska	—	—	—
Arizona	—	-5.2 *	—
Arkansas	1.0	—	4.2
California	—	-4.1	-2.0
Colorado	—	—	—
Connecticut	0.6	1.1	1.1
Delaware	-1.7	—	4.0 *
District of Columbia	—	—	-1.1
Florida	-7.5 *	-6.2 *	-1.1
Georgia	-13.5 *	—	-7.8 *
Hawaii	—	—	-4.3 *
Idaho	—	-6.0	—
Illinois	-1.7	-5.3	-5.3 *
Indiana	-0.9	—	4.9
Iowa	—	—	—
Kansas	—	—	2.1
Kentucky	—	—	0.4
Louisiana	-1.0	—	-0.5
Maine	—	—	—
Maryland	—	—	—
Massachusetts	—	-4.6	—
Michigan	—	—	—
Minnesota	—	—	—
Mississippi	-7.1 *	—	-3.0
Missouri	-0.8	—	-0.0
Montana	—	—	—
Nebraska	—	—	—
Nevada	—	-5.0 *	0.2
New Hampshire	—	—	—
New Jersey	-1.3	-1.5	-1.3
New Mexico	—	-7.2 *	-0.6
New York	-10.6 *	-5.4	-1.5
North Carolina	-5.2 *	—	-0.5
North Dakota	—	—	—
Ohio	—	—	—
Oklahoma	-0.8	—	—
Oregon	—	—	—
Pennsylvania	-4.7	—	-3.5
Rhode Island	—	-3.1 *	—
South Carolina	4.1 *	—	5.7 *
South Dakota	—	—	0.0
Tennessee	-2.9	—	3.6
Texas	-8.3 *	-3.6	—
Utah	—	—	—
Vermont	—	—	-3.3
Virginia	-10.2 *	—	—
Washington	—	—	—
West Virginia	—	—	—
Wisconsin	—	—	-2.1
Wyoming	—	—	5.3 *

— Not available.

* State and NAEP gains are significantly different from each other ($p < .05$).

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2003 Mathematics Assessment: The National Longitudinal School-Level State Assessment Score Database (NLSLSASD) 2004.



