

Supplemental State Tables to NCES 2002-603

Since the publication of *Qualifications of the Public School Teacher Workforce: Prevalence of Out-of-Field Teaching: 1987-88 to 1999-2000* (NCES 2002-603) (Seastrom et al. 2002), the National Center for Education Statistics (NCES) has received numerous requests for similar information reported on a state-by-state basis. This set of tables addresses those requests. Included are 34 tables reporting four measures of the extent to which public school teachers' educational qualifications matched the subjects they taught in 1999-2000. Also included is a full set of 34 standard error tables. Data are drawn from the NCES's 1999-2000 Schools and Staffing Survey (SASS). For more information on the content of these tables, please see the main report (NCES 2002-603).

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Tables

Table 1-A. Percentage of public school elementary level teachers with a main assignment in elementary education with an undergraduate or graduate major and certification in elementary education, by state: Academic year 1999–2000

	Total major	Total certification	Major and certification	No major, no certification
United States	75.1	93.2	71.5	3.2
Alabama	77.9	98.8	77.4	0.7!
Alaska	85.1	92.7	80.3	2.4
Arizona	82.2	92.1	76.7	2.4!
Arkansas	90.9	100.0	90.9	‡
California	39.0	87.0	36.5	10.4
Colorado	74.5	92.7	70.3	3.0!
Connecticut	86.2	97.5	83.7	‡
Delaware	‡	‡	‡	‡
District of Columbia	74.7	79.4	62.0	7.9
Florida	87.2	96.3	84.9	1.4!
Georgia	45.3	93.7	40.9	2.0!
Hawaii	86.3	93.7	82.5	2.4!
Idaho	84.5	98.7	83.1	‡
Illinois	86.3	96.5	85.3	2.5!
Indiana	96.0	97.9	93.9	‡
Iowa	92.7	92.7	86.1	0.8!
Kansas	93.6	100.0	93.6	‡
Kentucky	92.2	92.1	85.2	0.9!
Louisiana	86.0	91.3	81.3	4.1!
Maine	80.9	97.9	79.6	0.8!
Maryland	73.5	91.5	67.7	2.7!
Massachusetts	81.4	94.9	77.8	1.5!
Michigan	68.4	83.9	55.9	3.5!
Minnesota	91.6	98.9	90.5	0.1!
Mississippi	93.0	95.1	90.9	2.9!
Missouri	95.0	92.8	89.7	1.9!
Montana	92.0	99.2	91.5	0.3!
Nebraska	94.2	99.4	94.2	0.6!
Nevada	82.7	94.0	78.6	2.0!
New Hampshire	81.8	99.4	81.2	‡
New Jersey	79.8	97.7	78.8	1.4!
New Mexico	78.4	97.6	77.1	1.0!
New York	79.1	89.4	72.9	4.4!
North Carolina	68.2	97.2	66.8	1.4!
North Dakota	97.3	98.5	95.7	‡
Ohio	83.7	83.6	68.3	0.9!
Oklahoma	87.2	99.2	87.0	0.6!
Oregon	84.3	100.0	84.3	‡
Pennsylvania	89.1	98.1	87.6	0.3!
Rhode Island	82.4	94.4	79.1	2.2!
South Carolina	74.7	96.0	70.7	‡
South Dakota	97.6	98.9	96.5	‡
Tennessee	79.5	95.3	78.5	3.7!
Texas	73.3	91.1	70.0	5.6!
Utah	86.6	98.2	85.4	0.6!
Vermont	81.5	100.0	81.5	‡
Virginia	68.6	88.3	61.6	4.8!
Washington	64.2	98.1	63.4	1.1!
West Virginia	90.4	100.0	90.4	‡
Wisconsin	89.6	96.9	87.5	1.0!
Wyoming	91.1	99.3	90.5	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 1-B. Standard errors for table 1-A: Percentage of public school elementary level teachers with a main assignment in elementary education with an undergraduate or graduate major and certification in elementary education, by state: Academic year 1999–2000

	Total major	Total certification	Major and certification	No major, no certification
United States	0.70	0.41	0.68	0.27
Alabama	2.72	0.76	2.55	0.50!
Alaska	1.24	1.19	1.61	0.43
Arizona	2.25	1.21	2.50	0.69!
Arkansas	2.14	0.00	2.14	‡
California	3.10	1.50	2.91	1.41
Colorado	3.04	1.45	3.16	1.08!
Connecticut	2.09	1.00	2.25	‡
Delaware	‡	‡	‡	‡
District of Columbia	2.54	2.13	3.11	1.44
Florida	1.92	0.91	2.17	0.55!
Georgia	5.22	1.92	5.14	1.18!
Hawaii	2.51	1.70	2.54	1.01!
Idaho	1.48	0.41	1.59	‡
Illinois	2.87	1.28	2.87	1.11!
Indiana	1.44	1.24	1.90	‡
Iowa	1.63	1.81	2.33	0.51!
Kansas	1.90	0.00	1.90	‡
Kentucky	2.12	2.27	2.94	0.68!
Louisiana	3.95	3.50	4.66	2.52!
Maine	2.62	0.77	2.54	0.47!
Maryland	3.99	2.26	3.96	1.31!
Massachusetts	2.89	1.64	2.71	0.74!
Michigan	4.50	2.61	4.45	1.53!
Minnesota	2.23	0.98	2.14	0.03!
Mississippi	1.97	1.52	1.84	1.24!
Missouri	2.29	2.55	2.48	1.62!
Montana	1.23	0.36	1.24	0.20!
Nebraska	1.01	0.38	1.01	0.38!
Nevada	2.18	1.36	2.36	0.72!
New Hampshire	3.53	0.63	3.58	‡
New Jersey	2.48	1.10	2.49	0.90!
New Mexico	4.22	1.47	4.23	0.62!
New York	2.97	2.65	3.80	1.09!
North Carolina	4.67	1.30	4.90	0.84!
North Dakota	0.81	0.63	1.03	‡
Ohio	2.86	2.95	3.17	0.72!
Oklahoma	3.30	0.74	3.31	0.72!
Oregon	2.91	0.00	2.91	‡
Pennsylvania	3.19	1.60	3.72	0.26!
Rhode Island	1.99	0.75	1.66	0.71!
South Carolina	3.72	1.54	3.73	‡
South Dakota	0.74	0.63	1.18	‡
Tennessee	3.07	1.94	3.07	1.66!
Texas	3.48	1.97	3.55	1.53!
Utah	2.49	0.81	2.32	0.57!
Vermont	2.97	0.00	2.97	‡
Virginia	3.97	2.61	4.05	2.02!
Washington	2.58	0.70	2.61	0.47!
West Virginia	2.44	0.00	2.44	‡
Wisconsin	2.33	1.20	2.61	0.77!
Wyoming	1.62	0.42	1.61	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 2-A. Percentage of public school secondary level teachers with a main assignment in English with an undergraduate or graduate major and certification in English, by state: Academic year 1999–2000

	Total major	Total certification	Major and certification	No major, no certification
United States	63.9	89.1	59.4	6.4
Alabama	49.2	87.8	48.5	11.5!
Alaska	‡	‡	‡	‡
Arizona	54.0	85.2	52.0	12.8!
Arkansas	71.7	94.4	71.7	5.6!
California	65.5	82.4	54.7	6.8!
Colorado	69.7	84.3	64.5	10.5!
Connecticut	66.3	84.9	62.0	10.8!
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	62.6	88.0	60.2	9.6!
Georgia	54.4	91.2	53.6	8.0!
Hawaii	‡	‡	‡	‡
Idaho	54.1	94.2	54.1	5.8!
Illinois	62.5	94.1	62.5	5.9!
Indiana	88.3	95.0	84.2	0.9!
Iowa	56.9	83.7	53.5	12.8!
Kansas	61.6	86.4	58.7	10.7!
Kentucky	64.6	87.9	57.9	5.5!
Louisiana	56.2	88.8	54.1	9.1!
Maine	71.8	93.0	67.3	2.5!
Maryland	‡	‡	‡	‡
Massachusetts	67.1	91.8	62.6	3.7!
Michigan	62.8	87.3	53.0	2.9!
Minnesota	79.6	94.9	78.5	4.0!
Mississippi	39.2	76.4	33.6	18.1!
Missouri	62.1	88.8	58.3	7.3!
Montana	63.4	95.7	61.9	2.8!
Nebraska	76.0	92.7	71.9	3.3!
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	73.0	96.6	72.2	2.5!
New Mexico	‡	‡	‡	‡
New York	81.1	87.0	70.8	2.6!
North Carolina	77.9	81.7	63.1	3.5!
North Dakota	62.8	97.0	61.8	2.0!
Ohio	55.4	82.6	46.8	8.7!
Oklahoma	57.2	93.8	55.4	4.3!
Oregon	57.3	93.8	55.3	4.2!
Pennsylvania	64.7	91.4	62.8	6.6!
Rhode Island	‡	‡	‡	‡
South Carolina	55.7	80.2	50.9	15.0!
South Dakota	73.1	97.9	71.8	0.8!
Tennessee	60.5	98.5	60.1	1.0!
Texas	53.6	93.2	51.5	4.7!
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	60.4	88.9	60.4	11.1!
Washington	60.0	98.9	60.0	1.2!
West Virginia	‡	‡	‡	‡
Wisconsin	71.6	93.4	71.6	6.6!
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 2-B. Standard errors for table 2-A: Percentage of public school secondary level teachers with a main assignment in English with an undergraduate or graduate major and certification in English, by state: Academic year 1999–2000

	Total major	Total certification	Major and certification	No major, no certification
United States	1.09	0.73	1.14	0.65
Alabama	5.24	4.75	5.13	4.72!
Alaska	‡	‡	‡	‡
Arizona	5.75	3.19	5.70	3.21!
Arkansas	5.80	3.28	5.80	3.28!
California	5.41	2.84	5.43	2.28!
Colorado	5.20	4.31	5.17	4.02!
Connecticut	4.41	3.64	4.62	3.34!
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	6.87	5.15	6.87	5.01!
Georgia	5.50	4.56	5.43	4.58!
Hawaii	‡	‡	‡	‡
Idaho	2.92	1.46	2.92	1.46!
Illinois	5.50	3.13	5.50	3.13!
Indiana	2.59	3.06	3.75	0.56!
Iowa	4.82	3.99	4.88	3.83!
Kansas	6.03	4.69	6.02	4.79!
Kentucky	4.14	3.34	3.80	2.58!
Louisiana	7.91	5.29	8.21	4.95!
Maine	4.60	1.54	4.66	1.08!
Maryland	‡	‡	‡	‡
Massachusetts	5.77	2.38	5.73	2.24!
Michigan	6.06	4.08	6.23	1.47!
Minnesota	6.08	3.16	6.21	3.00!
Mississippi	3.41	5.02	2.98	4.54!
Missouri	6.65	5.01	6.28	4.31!
Montana	3.72	1.88	3.88	1.73!
Nebraska	5.17	2.72	6.00	1.67!
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	6.41	1.01	6.42	0.94!
New Mexico	‡	‡	‡	‡
New York	4.17	3.32	4.35	2.21!
North Carolina	5.41	4.49	6.47	2.99!
North Dakota	3.81	0.95	3.84	0.97!
Ohio	7.24	5.28	8.29	4.03!
Oklahoma	6.33	2.80	6.26	2.81!
Oregon	7.64	2.94	7.43	2.85!
Pennsylvania	5.92	4.49	5.91	4.48!
Rhode Island	‡	‡	‡	‡
South Carolina	7.70	4.62	7.42	4.69!
South Dakota	3.02	0.57	2.98	0.25!
Tennessee	8.98	0.68	9.02	0.50!
Texas	5.61	2.13	5.55	2.03!
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	5.31	4.39	5.31	4.39!
Washington	5.35	0.62	5.35	0.62!
West Virginia	‡	‡	‡	‡
Wisconsin	4.18	3.77	4.18	3.77!
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 3-A. Percentage of public school secondary level teachers with a main assignment in mathematics with an undergraduate or graduate major and certification in mathematics, by state: Academic year 1999–2000

	Total major	Total certification	Major and certification	No major, no certification
United States	60.2	85.3	55.8	10.4
Alabama	81.4	91.2	74.6	2.1!
Alaska	‡	‡	‡	‡
Arizona	49.4	74.2	46.3	22.8!
Arkansas	‡	‡	‡	‡
California	50.2	78.2	42.8	14.4
Colorado	60.1	77.5	58.2	20.6!
Connecticut	‡	‡	‡	‡
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	54.6	84.4	52.6	13.6!
Georgia	54.4	88.9	53.1	9.8!
Hawaii	‡	‡	‡	‡
Idaho	‡	‡	‡	‡
Illinois	53.7	89.0	53.3	10.7!
Indiana	60.9	92.9	59.4	5.7!
Iowa	‡	‡	‡	‡
Kansas	50.1	90.9	50.1	9.1!
Kentucky	42.4	79.2	40.8	19.2!
Louisiana	54.8	78.5	46.2	12.9!
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	62.7	87.1	58.7	8.9!
Michigan	61.4	87.7	56.5	7.4!
Minnesota	81.7	94.8	81.7	5.2!
Mississippi	47.8	77.9	45.6	19.9!
Missouri	44.3	91.0	40.1	4.8!
Montana	67.3	90.9	65.1	6.9!
Nebraska	‡	‡	‡	‡
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	‡	‡	‡	‡
New Mexico	‡	‡	‡	‡
New York	76.9	77.0	63.9	9.9!
North Carolina	54.0	77.6	48.7	17.2!
North Dakota	‡	‡	‡	‡
Ohio	69.0	88.2	64.7	7.5!
Oklahoma	62.5	91.1	60.8	7.2!
Oregon	‡	‡	‡	‡
Pennsylvania	82.2	88.6	77.0	6.2!
Rhode Island	‡	‡	‡	‡
South Carolina	68.0	81.0	61.2	12.3!
South Dakota	69.9	98.8	69.9	1.2!
Tennessee	45.2	88.0	41.6	8.5!
Texas	51.9	82.6	47.8	13.3!
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	47.0	87.5	41.4	7.0!
Washington	55.1	93.9	53.7	4.7!
West Virginia	‡	‡	‡	‡
Wisconsin	‡	‡	‡	‡
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 3-B. Standard errors for table 3-A: Percentage of public school secondary level teachers with a main assignment in mathematics with an undergraduate or graduate major and certification in mathematics, by state: Academic year 1999–2000

	Total major	Total certification	Major and certification	No major, no certification
United States	1.16	0.84	1.17	0.78
Alabama	4.68	3.72	4.38	1.26!
Alaska	‡	‡	‡	‡
Arizona	4.45	4.57	4.44	4.52!
Arkansas	‡	‡	‡	‡
California	4.67	3.84	4.39	2.77
Colorado	6.92	7.23	6.57	7.20!
Connecticut	‡	‡	‡	‡
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	6.26	4.35	6.10	4.35!
Georgia	6.72	4.87	6.66	4.73!
Hawaii	‡	‡	‡	‡
Idaho	‡	‡	‡	‡
Illinois	6.34	4.80	6.32	4.80!
Indiana	4.68	3.53	4.66	3.46!
Iowa	‡	‡	‡	‡
Kansas	5.55	3.72	5.55	3.72!
Kentucky	4.92	4.23	4.97	4.03!
Louisiana	7.61	6.85	7.36	5.98!
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	6.45	4.74	6.32	4.72!
Michigan	8.31	3.84	8.13	3.28!
Minnesota	5.19	1.91	5.19	1.91!
Mississippi	4.10	4.63	4.13	4.45!
Missouri	7.06	4.13	6.89	4.07!
Montana	4.45	2.39	4.35	2.13!
Nebraska	‡	‡	‡	‡
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	‡	‡	‡	‡
New Mexico	‡	‡	‡	‡
New York	5.62	4.40	6.32	3.54!
North Carolina	8.81	7.12	8.32	7.25!
North Dakota	‡	‡	‡	‡
Ohio	6.86	4.99	6.62	4.28!
Oklahoma	5.86	4.27	5.83	4.35!
Oregon	‡	‡	‡	‡
Pennsylvania	7.14	5.22	7.06	5.10!
Rhode Island	‡	‡	‡	‡
South Carolina	4.59	5.60	4.81	4.70!
South Dakota	3.97	0.48	3.97	0.48!
Tennessee	6.59	5.03	6.34	4.94!
Texas	4.88	4.13	4.67	3.90!
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	5.79	4.33	6.50	2.85!
Washington	6.50	2.28	6.63	2.00!
West Virginia	‡	‡	‡	‡
Wisconsin	‡	‡	‡	‡
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 4-A. Percentage of public school secondary level teachers with a main assignment in science with an undergraduate or graduate major and certification in science, by state: School year Academic year 1999–2000

	Total major	Total certification	Major and certification	No major, no certification
United States	69.2	85.6	62.2	7.4
Alabama	62.8	87.5	57.1	6.8!
Alaska	‡	‡	‡	‡
Arizona	56.3	81.6	53.6	15.7!
Arkansas	‡	‡	‡	‡
California	76.3	78.1	62.9	8.5!
Colorado	67.3	79.8	57.1	10.0!
Connecticut	‡	‡	‡	‡
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	61.3	84.7	56.8	10.8!
Georgia	‡	‡	‡	‡
Hawaii	‡	‡	‡	‡
Idaho	‡	‡	‡	‡
Illinois	‡	‡	‡	‡
Indiana	‡	‡	‡	‡
Iowa	‡	‡	‡	‡
Kansas	‡	‡	‡	‡
Kentucky	‡	‡	‡	‡
Louisiana	‡	‡	‡	‡
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	‡	‡	‡	‡
Michigan	66.7	82.7	55.5	6.1!
Minnesota	85.5	92.2	79.5	1.8!
Mississippi	60.8	86.0	56.4	9.6!
Missouri	‡	‡	‡	‡
Montana	69.7	94.9	65.6	1.1!
Nebraska	‡	‡	‡	‡
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	‡	‡	‡	‡
New Mexico	‡	‡	‡	‡
New York	82.7	77.5	67.0	6.8!
North Carolina	‡	‡	‡	‡
North Dakota	‡	‡	‡	‡
Ohio	65.5	81.0	58.5	12.0!
Oklahoma	60.7	95.8	59.8	3.4!
Oregon	‡	‡	‡	‡
Pennsylvania	73.3	88.2	70.8	9.3!
Rhode Island	‡	‡	‡	‡
South Carolina	‡	‡	‡	‡
South Dakota	70.2	98.2	69.9	1.5!
Tennessee	51.5	95.5	49.3	2.3!
Texas	51.2	84.7	43.4	7.5!
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	68.7	89.3	59.7	1.7!
Washington	‡	‡	‡	‡
West Virginia	‡	‡	‡	‡
Wisconsin	80.2	90.9	73.2	2.1!
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 4-B. Standard errors for table 4-A: Percentage of public school secondary level teachers with a main assignment in science with an undergraduate or graduate major and certification in science, by state: School year Academic year 1999–2000

	Total major	Total certification	Major and certification	No major, no certification
United States	1.27	0.84	1.31	0.66
Alabama	5.89	4.13	5.89	3.58!
Alaska	‡	‡	‡	‡
Arizona	7.92	5.60	7.63	5.74!
Arkansas	‡	‡	‡	‡
California	3.66	3.72	4.44	1.80!
Colorado	5.98	3.94	5.29	3.96!
Connecticut	‡	‡	‡	‡
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	9.86	6.49	9.21	6.78!
Georgia	‡	‡	‡	‡
Hawaii	‡	‡	‡	‡
Idaho	‡	‡	‡	‡
Illinois	‡	‡	‡	‡
Indiana	‡	‡	‡	‡
Iowa	‡	‡	‡	‡
Kansas	‡	‡	‡	‡
Kentucky	‡	‡	‡	‡
Louisiana	‡	‡	‡	‡
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	‡	‡	‡	‡
Michigan	8.80	4.83	8.52	2.64!
Minnesota	5.82	2.74	6.14	1.40!
Mississippi	5.30	4.29	5.29	4.19!
Missouri	‡	‡	‡	‡
Montana	4.04	1.62	3.94	0.89!
Nebraska	‡	‡	‡	‡
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	‡	‡	‡	‡
New Mexico	‡	‡	‡	‡
New York	5.71	5.01	6.96	3.21!
North Carolina	‡	‡	‡	‡
North Dakota	‡	‡	‡	‡
Ohio	5.81	5.96	5.68	5.48!
Oklahoma	5.89	1.69	5.93	1.66!
Oregon	‡	‡	‡	‡
Pennsylvania	7.31	5.71	7.32	5.57!
Rhode Island	‡	‡	‡	‡
South Carolina	‡	‡	‡	‡
South Dakota	4.26	0.87	4.26	0.85!
Tennessee	8.66	1.28	8.48	1.07!
Texas	4.90	3.54	4.76	2.69!
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	5.25	4.03	5.86	0.89!
Washington	‡	‡	‡	‡
West Virginia	‡	‡	‡	‡
Wisconsin	5.12	4.34	6.42	1.20!
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 5-A. Percentage of public school secondary level teachers with a main assignment in social studies with an undergraduate or graduate major and certification in social studies, by state: Academic year 1999–2000

	Total major	Total certification	Major and certification	No major, no certification
United States	73.9	90.2	68.2	4.1
Alabama	62.0	100.0	62.0	‡
Alaska	‡	‡	‡	‡
Arizona	73.3	84.4	67.8	10.0!
Arkansas	‡	‡	‡	‡
California	85.4	89.9	77.1	1.8!
Colorado	80.9	92.1	75.3	2.4!
Connecticut	‡	‡	‡	‡
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	86.3	77.6	74.3	10.4!
Georgia	83.8	94.8	79.6	1.0!
Hawaii	‡	‡	‡	‡
Idaho	‡	‡	‡	‡
Illinois	‡	‡	‡	‡
Indiana	‡	‡	‡	‡
Iowa	‡	‡	‡	‡
Kansas	‡	‡	‡	‡
Kentucky	‡	‡	‡	‡
Louisiana	‡	‡	‡	‡
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	‡	‡	‡	‡
Michigan	67.9	83.6	61.6	10.2!
Minnesota	92.0	98.4	90.4	‡
Mississippi	68.6	93.4	67.7	5.7!
Missouri	72.5	95.8	69.4	1.1!
Montana	68.4	95.3	66.1	2.4!
Nebraska	‡	‡	‡	‡
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	‡	‡	‡	‡
New Mexico	‡	‡	‡	‡
New York	91.0	90.9	82.3	0.4!
North Carolina	‡	‡	‡	‡
North Dakota	75.0	100.0	75.0	‡
Ohio	‡	‡	‡	‡
Oklahoma	48.4	92.7	47.4	6.3!
Oregon	‡	‡	‡	‡
Pennsylvania	61.7	87.0	58.6	10.0!
Rhode Island	‡	‡	‡	‡
South Carolina	‡	‡	‡	‡
South Dakota	62.1	98.1	62.1	1.9!
Tennessee	66.0	90.9	57.4	0.5!
Texas	55.0	84.1	46.4	7.3!
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	72.0	88.8	67.4	6.6!
Washington	‡	‡	‡	‡
West Virginia	‡	‡	‡	‡
Wisconsin	‡	‡	‡	‡
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 5-B. Standard errors for table 5-A: Percentage of public school secondary level teachers with a main assignment in social studies with an undergraduate or graduate major and certification in social studies, by state: Academic year 1999–2000

	Total major	Total certification	Major and certification	No major, no certification
United States	1.17	0.98	1.17	0.71
Alabama	5.55	0.00	5.55	‡
Alaska	‡	‡	‡	‡
Arizona	5.91	4.68	5.77	4.70!
Arkansas	‡	‡	‡	‡
California	4.24	3.99	5.68	1.18!
Colorado	4.58	2.28	4.85	1.14!
Connecticut	‡	‡	‡	‡
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	6.22	7.68	7.25	6.27!
Georgia	4.72	2.36	4.67	1.13!
Hawaii	‡	‡	‡	‡
Idaho	‡	‡	‡	‡
Illinois	‡	‡	‡	‡
Indiana	‡	‡	‡	‡
Iowa	‡	‡	‡	‡
Kansas	‡	‡	‡	‡
Kentucky	‡	‡	‡	‡
Louisiana	‡	‡	‡	‡
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	‡	‡	‡	‡
Michigan	6.57	5.68	6.93	5.30!
Minnesota	4.61	1.22	4.70	‡
Mississippi	4.27	2.19	4.32	2.13!
Missouri	7.26	1.74	7.04	0.99!
Montana	4.74	2.05	4.61	1.57!
Nebraska	‡	‡	‡	‡
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	‡	‡	‡	‡
New Mexico	‡	‡	‡	‡
New York	4.07	3.38	3.59	0.26!
North Carolina	‡	‡	‡	‡
North Dakota	3.86	0.00	3.86	‡
Ohio	‡	‡	‡	‡
Oklahoma	6.83	5.09	6.73	5.25!
Oregon	‡	‡	‡	‡
Pennsylvania	7.56	9.23	7.15	9.72!
Rhode Island	‡	‡	‡	‡
South Carolina	‡	‡	‡	‡
South Dakota	4.06	1.03	4.06	1.03!
Tennessee	9.24	5.23	6.96	0.41!
Texas	5.13	4.00	4.58	3.19!
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	5.55	2.55	5.77	1.93!
Washington	‡	‡	‡	‡
West Virginia	‡	‡	‡	‡
Wisconsin	‡	‡	‡	‡
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 6-A. Percentage of public school secondary level teachers who taught at least one class in English with an undergraduate or graduate major and certification in English, by state: Academic year 1999–2000

	Total major	Total certification	Major and certification	No major, no certification
United States	54.2	71.5	47.5	21.8
Alabama	40.1	64.2	38.3	34.1
Alaska	49.5	58.0	45.3	37.8
Arizona	44.6	73.7	42.1	23.8
Arkansas	65.0	74.9	61.7	21.7!
California	55.6	67.2	44.9	22.1!
Colorado	58.9	63.4	53.5	31.2
Connecticut	59.0	69.4	51.6	23.3
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	57.9	66.9	54.5	29.7
Georgia	43.3	63.4	41.6	34.9
Hawaii	‡	‡	‡	‡
Idaho	52.0	85.2	48.3	11.0
Illinois	49.9	82.0	49.4	17.4!
Indiana	73.9	83.5	68.5	11.2!
Iowa	56.7	74.6	51.8	20.5
Kansas	56.1	65.6	49.0	27.4
Kentucky	47.8	68.7	39.9	23.4
Louisiana	39.2	64.3	34.8!	31.3!
Maine	54.6	71.0	49.1	23.5
Maryland	48.2	60.9	44.3	35.2
Massachusetts	63.5	81.5	57.3	12.3!
Michigan	52.9	65.9	39.6	20.8
Minnesota	69.6	80.9	65.8	15.3!
Mississippi	40.8	58.7	32.3	32.8
Missouri	48.3	68.1	45.2	28.8
Montana	58.5	74.9	53.7	20.4
Nebraska	60.0	73.0	54.5	21.5
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	59.2	76.2	56.0	20.7
New Mexico	43.3	67.3	35.7	25.1!
New York	68.5	60.4	48.8	19.9
North Carolina	72.6	65.9	54.9	16.4!
North Dakota	54.3	82.9	50.8	13.7
Ohio	39.7	71.4	35.2	24.1!
Oklahoma	43.8	71.2	37.8	22.8!
Oregon	48.9	73.4	47.2	24.9
Pennsylvania	59.9	72.6	52.8	20.3!
Rhode Island	‡	‡	‡	‡
South Carolina	52.7	78.4	47.2	16.1!
South Dakota	61.1	83.7	58.1	13.3
Tennessee	56.9	77.5	51.2	16.8
Texas	48.4	76.6	42.0	17.0!
Utah	51.7	67.9	44.5	24.9
Vermont	‡	‡	‡	‡
Virginia	50.0	80.7	46.8	16.1
Washington	53.4	71.2	47.2	22.6
West Virginia	51.0	73.5	46.8	22.3
Wisconsin	55.3	83.8	54.5	15.4!
Wyoming	57.4	88.7	53.0	7.0!

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 6-B. Standard errors for table 6-A: Percentage of public school secondary level teachers who taught at least one class in English with an undergraduate or graduate major and certification in English, by state: Academic year 1999–2000

	Total major	Total certification	Major and certification	No major, no certification
United States	0.87	0.85	0.86	0.81
Alabama	4.55	4.22	4.37	4.21
Alaska	4.22	4.56	4.65	4.05
Arizona	6.16	3.96	6.06	3.99
Arkansas	5.50	4.54	5.67	4.41!
California	3.73	4.19	3.22	4.64!
Colorado	4.52	4.92	4.23	5.03
Connecticut	5.02	3.87	4.71	3.51
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	5.12	4.66	5.20	4.54
Georgia	4.26	5.55	4.14	5.86
Hawaii	‡	‡	‡	‡
Idaho	2.82	1.58	2.76	1.49
Illinois	4.40	3.78	4.43	3.80!
Indiana	3.77	3.68	4.11	2.88!
Iowa	4.66	3.77	4.53	3.58
Kansas	5.74	4.25	5.43	4.34
Kentucky	5.71	4.03	5.12	4.01
Louisiana	6.83	7.40	6.99!	7.38!
Maine	4.46	3.63	4.17	3.59
Maryland	4.18	5.46	4.24	5.44
Massachusetts	7.15	4.47	6.90	4.48!
Michigan	4.43	4.65	4.92	3.52
Minnesota	7.05	6.63	6.59	7.12!
Mississippi	3.36	4.59	3.17	3.97
Missouri	5.81	5.22	4.81	5.48
Montana	3.48	3.43	3.78	2.97
Nebraska	5.55	4.70	5.43	4.01
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	4.87	3.41	4.91	3.29
New Mexico	5.84	8.96	6.97	7.16!
New York	4.29	5.33	5.87	2.76
North Carolina	6.35	6.05	6.45	5.29!
North Dakota	3.56	2.53	3.37	2.51
Ohio	6.96	6.51	6.55	6.73!
Oklahoma	5.10	5.39	4.24	5.77!
Oregon	7.46	4.07	7.13	4.17
Pennsylvania	4.61	5.17	5.28	5.42!
Rhode Island	‡	‡	‡	‡
South Carolina	6.71	4.75	6.30	4.85!
South Dakota	3.19	2.13	3.17	1.97
Tennessee	7.64	6.53	8.37	4.55
Texas	4.81	4.10	5.05	3.25!
Utah	3.86	5.50	4.96	3.71
Vermont	‡	‡	‡	‡
Virginia	4.38	2.83	4.17	2.80
Washington	4.65	3.17	4.94	4.07
West Virginia	5.47	3.47	5.04	3.52
Wisconsin	4.64	3.73	4.51	3.85!
Wyoming	4.05	3.12	4.19	2.13!

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 7-A. Percentage of public school secondary level teachers who taught at least one class in mathematics with an undergraduate or graduate major and certification in mathematics, by state: Academic year 1999–2000

	Total major	Total certification	Major and certification	No major, no certification
United States	49.2	70.3	44.7	25.3
Alabama	65.8	74.8	59.7	19.2!
Alaska	32.2	42.1	28.8	54.5
Arizona	42.0	62.8	39.3	34.5
Arkansas	56.6	83.6	55.7	15.5!
California	39.3	62.3	32.8	31.2
Colorado	43.7	56.4	38.8	38.8
Connecticut	41.6	67.7	38.7	29.5
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	42.8	64.2	40.0	33.0
Georgia	45.4	76.1	43.7	22.2!
Hawaii	‡	‡	‡	‡
Idaho	39.7	79.4	38.5	19.5
Illinois	43.2	75.8	42.9	23.9
Indiana	53.4	79.3	52.2	19.5
Iowa	51.7	76.6	48.5	20.2!
Kansas	37.8	72.8	37.2	26.6
Kentucky	39.9	71.1	37.0	26.0
Louisiana	44.5	65.5	37.5	27.5!
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	54.0	72.2	48.0	21.8
Michigan	44.4	61.3	38.8	33.1
Minnesota	73.5	82.6	70.1	14.0!
Mississippi	39.4	60.8	35.5	35.3
Missouri	39.0	78.7	34.7	17.0!
Montana	55.7	75.9	52.1	20.5
Nebraska	63.7	75.5	60.0	20.9!
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	71.8	81.0	70.3	17.5
New Mexico	‡	‡	‡	‡
New York	62.7	66.1	52.1	23.4
North Carolina	48.0	66.6	41.8	27.1!
North Dakota	56.3	77.5	53.7	19.9
Ohio	60.9	77.0	54.3	16.4!
Oklahoma	52.8	77.3	49.1	19.0
Oregon	41.0	66.6	39.0	31.4
Pennsylvania	69.4	73.0	63.9	21.6!
Rhode Island	‡	‡	‡	‡
South Carolina	66.4	78.0	59.3	14.9!
South Dakota	59.6	88.7	57.3	8.9
Tennessee	34.0	69.8	30.2	26.4!
Texas	40.2	62.1	36.0	33.7
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	39.4	71.3	34.8	24.1
Washington	40.2	76.6	39.2	22.4
West Virginia	48.6	81.9	48.6	18.1
Wisconsin	56.7	91.1	56.4	8.6!
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 7-B. Standard errors for table 7-A: Percentage of public school secondary level teachers who taught at least one class in mathematics with an undergraduate or graduate major and certification in mathematics, by state: Academic year 1999–2000

	Total major	Total certification	Major and certification	No major, no certification
United States	0.93	0.92	0.92	0.86
Alabama	5.21	4.85	4.70	4.25!
Alaska	4.55	4.73	3.63	5.61
Arizona	3.82	4.66	3.77	4.71
Arkansas	5.58	4.55	5.57	4.54!
California	3.36	3.53	3.12	2.94
Colorado	4.49	5.46	3.86	5.47
Connecticut	5.69	4.96	5.50	4.99
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	5.28	5.41	5.01	5.44
Georgia	6.08	5.37	5.95	5.28!
Hawaii	‡	‡	‡	‡
Idaho	2.59	1.90	2.55	1.86
Illinois	4.83	4.44	4.82	4.43
Indiana	4.23	3.68	4.16	3.73
Iowa	5.19	5.50	4.70	5.53!
Kansas	4.57	5.02	4.49	5.03
Kentucky	4.58	3.96	4.46	3.97
Louisiana	6.23	6.44	6.13	5.86!
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	4.70	3.97	4.47	3.89
Michigan	5.68	5.30	5.53	5.06
Minnesota	5.12	4.20	5.05	3.83!
Mississippi	3.28	4.08	3.05	4.05
Missouri	6.39	6.01	6.12	6.08!
Montana	3.44	2.47	3.35	2.30
Nebraska	5.02	4.73	4.54	4.74!
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	4.21	2.99	4.28	2.87
New Mexico	‡	‡	‡	‡
New York	5.76	4.41	5.82	4.08
North Carolina	7.18	6.96	6.71	6.82!
North Dakota	3.21	2.68	3.18	2.61
Ohio	5.29	5.15	5.64	4.02!
Oklahoma	4.77	3.83	4.71	3.79
Oregon	4.41	5.84	4.50	5.77
Pennsylvania	6.59	5.39	6.42	5.48!
Rhode Island	‡	‡	‡	‡
South Carolina	4.37	5.07	4.45	4.33!
South Dakota	3.12	2.05	2.99	1.71
Tennessee	5.41	5.89	4.97	5.98!
Texas	3.61	4.22	3.48	4.05
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	4.30	4.13	4.45	3.89
Washington	4.85	4.22	4.97	4.02
West Virginia	4.80	3.56	4.80	3.56
Wisconsin	6.12	2.99	6.06	2.98!
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 8-A. Percentage of public school secondary level teachers who taught at least one class in science with an undergraduate or graduate major and certification in science, by state: Academic year 1999–2000

	Total major	Total certification	Major and certification	No major, no certification
United States	60.5	74.0	53.0	18.5
Alabama	56.6	70.2	49.9	23.1!
Alaska	‡	‡	‡	‡
Arizona	52.8	68.3	45.8	24.7!
Arkansas	44.8	85.8	41.1	10.5!
California	60.9	67.6	50.3	21.7
Colorado	70.1	69.3	54.7	15.3!
Connecticut	‡	‡	‡	‡
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	55.9	76.1	51.1	19.2!
Georgia	‡	‡	‡	‡
Hawaii	‡	‡	‡	‡
Idaho	66.2	86.9	64.3	11.2
Illinois	68.7	79.1	62.0	14.2!
Indiana	‡	‡	‡	‡
Iowa	70.7	77.1	68.2	20.4!
Kansas	53.3	74.4	48.4	20.7!
Kentucky	‡	‡	‡	‡
Louisiana	36.3!	66.0	30.9!	28.6!
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	‡	‡	‡	‡
Michigan	64.5	74.4	52.3	13.5!
Minnesota	76.2	78.9	69.5	14.4!
Mississippi	55.9	77.7	50.3	16.6!
Missouri	59.6	76.0	55.2	19.6!
Montana	57.5	74.5	51.9	19.9
Nebraska	‡	‡	‡	‡
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	‡	‡	‡	‡
New Mexico	‡	‡	‡	‡
New York	68.4	62.6	53.5	22.6!
North Carolina	‡	‡	‡	‡
North Dakota	69.0	81.9	64.6	13.7!
Ohio	62.5	77.7	55.1	14.9!
Oklahoma	52.2	86.0	49.6	11.4
Oregon	64.5	81.4	54.8	8.9!
Pennsylvania	71.1	78.2	68.6	19.4!
Rhode Island	‡	‡	‡	‡
South Carolina	‡	‡	‡	‡
South Dakota	63.5	92.9	60.6	4.2!
Tennessee	46.2	79.8	42.0	16.0!
Texas	42.3	72.6	35.6	20.7!
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	61.4	76.8	53.5	15.3!
Washington	68.0	85.6	65.7	12.1!
West Virginia	‡	‡	‡	‡
Wisconsin	77.6	85.1	69.0	6.2!
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 8-B. Standard errors for table 8-A: Percentage of public school secondary level teachers who taught at least one class in science with an undergraduate or graduate major and certification in science, by state: Academic year 1999–2000

	Total major	Total certification	Major and certification	No major, no certification
United States	1.16	1.05	1.26	0.92
Alabama	5.24	4.94	5.29	4.86!
Alaska	‡	‡	‡	‡
Arizona	6.37	6.38	5.96	5.27!
Arkansas	5.82	3.04	5.39	2.73!
California	3.83	3.98	4.26	3.38
Colorado	4.50	4.58	4.58	4.49!
Connecticut	‡	‡	‡	‡
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	7.65	5.10	7.02	5.31!
Georgia	‡	‡	‡	‡
Hawaii	‡	‡	‡	‡
Idaho	2.73	2.14	2.83	1.97
Illinois	5.40	4.22	5.33	3.93!
Indiana	‡	‡	‡	‡
Iowa	6.07	5.51	5.98	5.57!
Kansas	6.19	5.05	6.18	5.05!
Kentucky	‡	‡	‡	‡
Louisiana	8.47!	8.07	6.29!	6.53!
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	‡	‡	‡	‡
Michigan	6.53	4.73	6.49	3.15!
Minnesota	6.18	4.14	6.12	4.14!
Mississippi	4.51	4.22	4.52	4.08!
Missouri	7.98	5.12	8.03	5.02!
Montana	3.66	3.27	3.53	3.10
Nebraska	‡	‡	‡	‡
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	‡	‡	‡	‡
New Mexico	‡	‡	‡	‡
New York	7.49	6.57	7.97	6.03!
North Carolina	‡	‡	‡	‡
North Dakota	3.79	2.98	3.83	2.94!
Ohio	5.28	6.11	5.44	5.58!
Oklahoma	5.57	2.42	5.62	2.21
Oregon	6.81	6.15	6.38	4.65!
Pennsylvania	5.98	5.60	6.00	5.48!
Rhode Island	‡	‡	‡	‡
South Carolina	‡	‡	‡	‡
South Dakota	4.37	1.59	4.44	1.14!
Tennessee	6.90	5.45	6.74	5.38!
Texas	5.07	4.33	4.18	4.47!
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	5.22	5.37	5.66	4.36!
Washington	5.70	3.80	5.88	3.60!
West Virginia	‡	‡	‡	‡
Wisconsin	4.78	4.83	6.21	1.98!
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 9-A. Percentage of public school secondary level teachers who taught at least one class in social studies with an undergraduate or graduate major and certification in social studies, by state: Academic year 1999–2000

	Total major	Total certification	Major and certification	No major, no certification
United States	61.3	71.8	52.7	19.5
Alabama	53.8	81.4	50.9	15.7!
Alaska	56.6	63.1	46.0	26.3
Arizona	69.1	72.1	58.3	17.1!
Arkansas	56.9	75.3	51.8	19.6!
California	68.0	67.2	54.0	18.8
Colorado	66.1	70.4	58.0	21.5
Connecticut	67.4	70.2	54.3	16.6
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	74.3	65.1	62.6	23.3!
Georgia	70.3	72.8	62.1	18.9!
Hawaii	‡	‡	‡	‡
Idaho	56.5	79.7	47.6	11.4
Illinois	64.2	80.2	58.7	14.3!
Indiana	‡	‡	‡	‡
Iowa	63.9	76.6	56.1	15.7!
Kansas	47.6	71.4	44.5	25.5
Kentucky	‡	‡	‡	‡
Louisiana	44.3	61.2	32.4!	26.9!
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	78.9	81.7	71.7	11.1!
Michigan	52.7	64.1	44.7	27.9
Minnesota	82.9	86.4	78.6	9.4!
Mississippi	59.8	88.6	58.5	10.0!
Missouri	55.1	73.3	51.4	23.1
Montana	59.4	76.3	50.2	14.5
Nebraska	‡	‡	‡	‡
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	73.3	68.7	63.4	21.4
New Mexico	‡	‡	‡	‡
New York	71.8	65.7	59.6	22.1!
North Carolina	‡	‡	‡	‡
North Dakota	67.2	88.8	63.2	7.1!
Ohio	56.6	77.1	53.8	20.2!
Oklahoma	40.9	77.0	37.4	19.4!
Oregon	54.2	67.6	36.0	14.2!
Pennsylvania	54.7	68.5	51.1	27.9!
Rhode Island	‡	‡	‡	‡
South Carolina	‡	‡	‡	‡
South Dakota	50.3	82.5	48.5	15.7
Tennessee	52.2	72.6	42.6	17.9!
Texas	41.6	65.3	31.9	25.1!
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	63.8	71.9	55.6	20.0!
Washington	59.0	66.7	48.0	22.3
West Virginia	54.7	80.9	53.4	17.8
Wisconsin	78.4	87.0	73.7	8.3
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 9-B. Standard errors for table 9-A: Percentage of public school secondary level teachers who taught at least one class in social studies with an undergraduate or graduate major and certification in social studies, by state: Academic year 1999–2000

	Total major	Total certification	Major and certification	No major, no certification
United States	0.97	1.18	1.02	1.00
Alabama	4.39	3.98	4.47	3.66
Alaska	3.17	3.44	3.66	3.15
Arizona	4.19	4.33	4.11	3.93!
Arkansas	6.08	5.53	6.37	5.16!
California	3.86	4.27	4.60	2.97
Colorado	4.76	4.26	4.74	4.25
Connecticut	4.61	5.14	5.26	3.26
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	5.96	6.35	6.25	5.79!
Georgia	5.83	5.90	5.92	5.10!
Hawaii	‡	‡	‡	‡
Idaho	2.82	2.42	2.69	2.24
Illinois	5.75	4.10	5.77	3.84!
Indiana	‡	‡	‡	‡
Iowa	4.99	3.93	4.63	3.57!
Kansas	5.45	4.85	5.38	4.70
Kentucky	‡	‡	‡	‡
Louisiana	7.21	7.06	6.80!	6.85!
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	5.42	5.00	5.63	4.83!
Michigan	5.67	3.82	5.57	3.67
Minnesota	4.78	4.45	4.97	4.19!
Mississippi	3.76	2.41	3.86	2.30!
Missouri	5.17	4.71	5.09	4.38
Montana	3.45	3.29	3.55	2.26
Nebraska	‡	‡	‡	‡
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	3.86	6.27	6.34	3.56
New Mexico	‡	‡	‡	‡
New York	4.87	4.81	4.27	4.63!
North Carolina	‡	‡	‡	‡
North Dakota	4.12	2.06	4.51	1.48!
Ohio	6.81	4.60	6.97	4.56!
Oklahoma	4.64	5.20	4.44	5.56!
Oregon	7.74	7.74	4.89	3.39!
Pennsylvania	6.29	7.46	5.93	7.90!
Rhode Island	‡	‡	‡	‡
South Carolina	‡	‡	‡	‡
South Dakota	3.85	2.74	3.88	2.64
Tennessee	9.15	6.73	7.10	6.32!
Texas	4.16	4.47	3.51	4.33!
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	3.92	3.38	4.28	3.24!
Washington	4.67	4.47	4.82	4.25
West Virginia	4.74	3.14	4.55	3.00
Wisconsin	5.29	3.12	5.28	2.92
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 10-A. Percentage of English classes taught by public school secondary level teachers with an undergraduate or graduate major and certification in English, by state: Academic year 1999–2000

	Total major	Total certification	Major and certification	No major, no certification
United States	61.1	78.7	54.7	14.9
Alabama	46.5	72.5	45.3	26.4
Alaska	65.3	76.3	61.4	19.8
Arizona	51.5	79.3	49.1	18.3!
Arkansas	72.7	84.3	69.9	13.0!
California	63.5	72.2	51.1	15.4
Colorado	71.4	76.5	65.1	17.2!
Connecticut	63.6	77.7	56.7	15.4
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	62.8	71.4	60.3	26.2!
Georgia	56.9	75.5	54.8	22.3!
Hawaii	‡	‡	‡	‡
Idaho	56.6	89.8	52.8	6.4
Illinois	60.5	88.2	59.9	11.2!
Indiana	82.1	90.5	77.9	5.3!
Iowa	65.6	79.9	61.3	15.8!
Kansas	66.7	78.2	60.8	15.9!
Kentucky	53.4	71.5	44.2	19.4!
Louisiana	43.5	74.0	40.2!	22.7!
Maine	60.6	75.5	54.6	18.5
Maryland	56.7	75.2	53.9	22.0
Massachusetts	70.6	87.4	63.2	5.2!
Michigan	57.6	77.4	46.5	11.4!
Minnesota	79.9	91.3	76.8	5.6!
Mississippi	49.2	68.0	40.8	23.6
Missouri	54.9	77.2	53.4	21.2!
Montana	66.8	85.8	63.4	10.8
Nebraska	68.4	82.8	62.2	11.0!
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	70.6	82.2	66.9	14.1
New Mexico	50.9	67.4	36.6!	18.3!
New York	74.5	67.8	55.8	13.5!
North Carolina	81.5	72.6	63.2	9.2!
North Dakota	60.8	89.5	58.0	7.8
Ohio	43.2	73.9	37.9	20.9!
Oklahoma	48.0	82.3	44.1	13.7!
Oregon	55.8	79.6	54.5	19.1!
Pennsylvania	66.0	78.6	57.0	12.4!
Rhode Island	‡	‡	‡	‡
South Carolina	55.4	85.7	49.4	8.3!
South Dakota	66.0	86.0	62.7	10.7
Tennessee	62.9	87.6	60.1	9.5!
Texas	51.3	82.5	46.4	12.6!
Utah	55.7	77.0	50.9	18.2
Vermont	‡	‡	‡	‡
Virginia	59.4	83.8	56.2	12.9!
Washington	63.7	81.5	58.9	13.8!
West Virginia	55.4	80.3	50.7	15.0!
Wisconsin	67.5	89.8	66.9	9.6!
Wyoming	66.3	93.6	62.7	2.8!

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 10-B. Standard errors for table 10-A: Percentage of English classes taught by public school secondary level teachers with an undergraduate or graduate major and certification in English , by state: Academic year 1999–2000

	Total major	Total certification	Major and certification	No major, no certification
United States	1.00	0.80	1.01	0.75
Alabama	5.80	4.82	5.60	4.84
Alaska	4.68	3.78	5.03	3.25
Arizona	5.67	4.56	5.63	4.57!
Arkansas	5.05	3.67	5.21	3.60!
California	3.36	3.52	3.57	3.07
Colorado	4.10	4.08	4.30	3.75!
Connecticut	4.81	3.44	4.59	3.04
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	6.58	6.22	6.68	6.13!
Georgia	4.39	4.46	4.44	4.93!
Hawaii	‡	‡	‡	‡
Idaho	3.03	1.01	2.89	0.80
Illinois	4.17	3.36	4.20	3.42!
Indiana	2.88	2.92	3.56	1.22!
Iowa	5.60	4.26	5.60	4.09!
Kansas	5.62	3.67	5.65	3.54!
Kentucky	5.64	4.81	5.40	4.57!
Louisiana	7.73	6.55	8.17!	6.10!
Maine	4.23	3.32	4.01	3.00
Maryland	5.12	4.41	5.24	4.31
Massachusetts	5.68	2.18	5.62	1.59!
Michigan	5.45	4.57	5.84	2.53!
Minnesota	5.74	2.61	5.94	2.46!
Mississippi	4.12	4.49	3.90	4.08
Missouri	6.66	6.70	6.50	6.80!
Montana	2.97	2.24	3.21	1.72
Nebraska	5.50	4.86	6.36	3.40!
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	3.45	2.32	3.55	2.12
New Mexico	8.90	13.55	8.86!	8.44!
New York	4.82	5.04	6.26	2.92!
North Carolina	4.64	6.46	6.71	3.07!
North Dakota	3.22	1.49	3.09	1.41
Ohio	7.32	5.94	7.15	5.88!
Oklahoma	6.57	4.15	6.10	4.30!
Oregon	8.66	6.09	8.42	6.22!
Pennsylvania	4.49	4.82	6.38	4.09!
Rhode Island	‡	‡	‡	‡
South Carolina	8.25	3.25	7.64	3.00!
South Dakota	2.88	1.85	2.86	1.73
Tennessee	7.69	3.37	8.06	2.38!
Texas	5.94	3.56	5.94	3.26!
Utah	4.43	4.66	5.48	3.36
Vermont	‡	‡	‡	‡
Virginia	4.74	2.92	4.50	2.84!
Washington	5.26	2.70	5.65	2.79!
West Virginia	5.44	3.43	4.93	3.30!
Wisconsin	4.00	3.19	3.93	3.31!
Wyoming	4.70	2.07	4.53	0.97!

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 11-A. Percentage of mathematics classes taught by public school secondary level teachers with an undergraduate or graduate major and certification in mathematics, by state: Academic year 1999–2000

	Total major	Total certification	Major and certification	No major, no certification
United States	57.9	77.2	52.9	17.8
Alabama	70.2	81.3	64.8	13.3!
Alaska	49.8	58.0	44.7	36.9!
Arizona	46.7	70.8	43.6	26.1
Arkansas	63.1	87.7	61.4	10.6!
California	49.4	66.9	40.7	24.3
Colorado	55.1	67.7	47.6	24.8
Connecticut	48.9	80.4	46.9	17.6!
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	50.6	69.9	46.7	26.2!
Georgia	61.1	82.5	58.1	14.5!
Hawaii	‡	‡	‡	‡
Idaho	‡	‡	‡	‡
Illinois	51.8	85.2	51.6	14.5
Indiana	64.0	90.9	62.7	7.9!
Iowa	59.8	82.0	55.4	13.7!
Kansas	48.5	82.8	47.6	16.3!
Kentucky	47.0	75.3	44.1	21.7
Louisiana	47.9	73.3	41.8	20.5!
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	65.5	83.4	59.3	10.5!
Michigan	53.6	63.0	47.9	31.3!
Minnesota	79.0	88.2	75.6	8.4!
Mississippi	53.7	71.7	47.8	22.4
Missouri	45.0	82.6	40.9	13.4!
Montana	69.8	87.0	65.9	9.0
Nebraska	79.4	87.4	75.6	8.8!
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	76.2	85.2	74.4	13.0!
New Mexico	‡	‡	‡	‡
New York	71.9	72.1	59.7	15.6
North Carolina	62.0	74.6	54.0	17.4!
North Dakota	68.9	87.1	66.2	10.3
Ohio	68.8	82.9	61.2	9.5!
Oklahoma	61.9	83.5	57.8	12.5!
Oregon	56.7	83.2	55.2	15.3!
Pennsylvania	81.5	86.3	77.6	9.9!
Rhode Island	‡	‡	‡	‡
South Carolina	68.4	80.0	61.2	12.8!
South Dakota	67.4	94.3	65.2	3.5
Tennessee	39.3	77.7	34.8	17.8!
Texas	45.0	66.8	40.4	28.5!
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	51.3	79.2	45.4	15.0!
Washington	46.3	84.0	45.2	14.9!
West Virginia	‡	‡	‡	‡
Wisconsin	‡	‡	‡	‡
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 11-B. Standard errors for table 11-A: Percentage of mathematics classes taught by public school secondary level teachers with an undergraduate or graduate major and certification in mathematics, by state: Academic year 1999–2000

	Total major	Total certification	Major and certification	No major, no certification
United States	1.15	1.10	1.12	1.01
Alabama	5.49	3.96	4.84	2.80!
Alaska	6.41	7.17	5.10	8.53!
Arizona	4.05	4.06	4.03	3.92
Arkansas	6.39	4.42	6.20	4.35!
California	4.73	4.23	4.37	2.92
Colorado	6.97	4.77	5.72	4.62
Connecticut	6.10	4.69	5.98	4.56!
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	5.97	5.54	5.70	5.48!
Georgia	7.73	4.52	7.61	4.10!
Hawaii	‡	‡	‡	‡
Idaho	‡	‡	‡	‡
Illinois	5.15	3.84	5.14	3.83
Indiana	5.03	1.92	5.00	1.91!
Iowa	5.51	4.87	4.99	4.84!
Kansas	5.33	3.68	5.22	3.75!
Kentucky	5.86	3.90	5.72	3.98
Louisiana	7.37	6.60	7.14	6.14!
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	3.79	2.71	3.65	2.57!
Michigan	8.04	8.11	7.84	8.17!
Minnesota	5.21	3.24	5.29	2.50!
Mississippi	3.82	3.53	3.84	3.40
Missouri	7.08	6.14	6.75	6.10!
Montana	3.89	1.58	4.07	1.28
Nebraska	4.12	3.40	3.85	3.03!
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	4.19	2.78	4.24	2.59!
New Mexico	‡	‡	‡	‡
New York	4.81	3.62	5.35	2.63
North Carolina	6.16	4.73	5.98	4.19!
North Dakota	3.33	1.68	3.44	1.52
Ohio	6.50	5.60	7.09	3.62!
Oklahoma	5.98	4.27	5.87	4.32!
Oregon	4.66	4.01	4.76	3.92!
Pennsylvania	4.92	3.03	4.96	2.87!
Rhode Island	‡	‡	‡	‡
South Carolina	5.29	5.36	5.18	4.28!
South Dakota	3.45	1.28	3.37	0.68
Tennessee	5.63	5.51	5.12	5.50!
Texas	4.50	5.85	4.15	5.87!
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	4.78	4.48	5.05	3.49!
Washington	5.59	3.32	5.67	3.06!
West Virginia	‡	‡	‡	‡
Wisconsin	‡	‡	‡	‡
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 12-A. Percentage of science classes taught by public school secondary level teachers with an undergraduate or graduate major and certification in science, by state: Academic year 1999–2000

	Total major	Total certification	Major and certification	No major, no certification
United States	66.9	80.0	59.3	12.5
Alabama	66.9	80.3	59.5	12.2!
Alaska	‡	‡	‡	‡
Arizona	57.6	76.8	54.1	19.7!
Arkansas	53.0	89.4	48.6	6.3!
California	70.9	73.3	58.3	14.1
Colorado	78.8	72.4	60.7	9.5!
Connecticut	‡	‡	‡	‡
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	60.7	87.8	56.0	7.4!
Georgia	‡	‡	‡	‡
Hawaii	‡	‡	‡	‡
Idaho	72.2	93.2	71.4	6.1!
Illinois	77.0	81.9	68.3	9.4!
Indiana	‡	‡	‡	‡
Iowa	‡	‡	‡	‡
Kansas	67.9	83.2	62.8	11.7!
Kentucky	‡	‡	‡	‡
Louisiana	39.6!	75.9	35.6!	20.1!
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	‡	‡	‡	‡
Michigan	78.8	76.8	63.7	8.2!
Minnesota	85.3	86.8	78.3	6.1!
Mississippi	59.6	86.1	55.5	9.8!
Missouri	68.6	80.6	62.9	13.7!
Montana	64.4	73.9	58.6	20.3!
Nebraska	‡	‡	‡	‡
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	‡	‡	‡	‡
New Mexico	‡	‡	‡	‡
New York	69.6	67.3	56.6	19.6!
North Carolina	‡	‡	‡	‡
North Dakota	‡	‡	‡	‡
Ohio	64.8	81.4	59.8	13.6!
Oklahoma	59.9	91.3	58.1	6.9!
Oregon	72.7	87.0	64.5	4.8!
Pennsylvania	75.6	83.1	73.0	14.3!
Rhode Island	‡	‡	‡	‡
South Carolina	‡	‡	‡	‡
South Dakota	70.7	95.0	68.8	3.1!
Tennessee	46.9	87.5	42.5	8.1!
Texas	48.6	83.4	42.2	10.1!
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	66.0	81.6	57.8	10.2!
Washington	‡	‡	‡	‡
West Virginia	‡	‡	‡	‡
Wisconsin	82.2	89.6	74.6	2.8!
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 12-B. Standard errors for table 12-A: Percentage of science classes taught by public school secondary level teachers with an undergraduate or graduate major and certification in science, by state: Academic year 1999–2000

	Total major	Total certification	Major and certification	No major, no certification
United States	1.30	1.03	1.46	0.83
Alabama	5.55	4.34	5.82	3.26!
Alaska	‡	‡	‡	‡
Arizona	6.59	5.20	6.40	4.92!
Arkansas	5.98	3.33	5.70	2.20!
California	3.78	3.74	4.31	2.56
Colorado	5.00	5.35	5.97	3.97!
Connecticut	‡	‡	‡	‡
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	9.67	2.66	8.90	2.19!
Georgia	‡	‡	‡	‡
Hawaii	‡	‡	‡	‡
Idaho	2.79	1.35	2.83	1.27!
Illinois	4.11	3.55	4.57	2.41!
Indiana	‡	‡	‡	‡
Iowa	‡	‡	‡	‡
Kansas	6.34	3.83	6.75	3.35!
Kentucky	‡	‡	‡	‡
Louisiana	10.10!	8.21	8.24!	6.42!
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	‡	‡	‡	‡
Michigan	4.75	6.54	7.36	2.68!
Minnesota	5.17	2.93	5.49	2.12!
Mississippi	4.90	2.72	4.85	2.39!
Missouri	8.93	5.44	8.95	5.31!
Montana	4.69	4.84	4.33	5.22!
Nebraska	‡	‡	‡	‡
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	‡	‡	‡	‡
New Mexico	‡	‡	‡	‡
New York	7.69	7.01	8.80	5.84!
North Carolina	‡	‡	‡	‡
North Dakota	‡	‡	‡	‡
Ohio	6.16	5.78	6.23	5.55!
Oklahoma	6.60	2.08	6.58	2.13!
Oregon	6.77	5.14	6.73	2.26!
Pennsylvania	6.96	5.59	7.06	5.37!
Rhode Island	‡	‡	‡	‡
South Carolina	‡	‡	‡	‡
South Dakota	4.14	1.22	4.12	0.88!
Tennessee	8.54	2.87	8.15	2.32!
Texas	5.45	2.79	4.86	2.23!
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	4.94	4.59	5.58	2.79!
Washington	‡	‡	‡	‡
West Virginia	‡	‡	‡	‡
Wisconsin	4.51	3.74	5.68	1.01!
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 13-A. Percentage of social studies classes taught by public school secondary level teachers with an undergraduate or graduate major and certification in social studies, by state: Academic year 1999–2000

	Total major	Total certification	Major and certification	No major, no certification
United States	70.2	79.3	61.7	12.1
Alabama	60.9	86.8	57.5	9.9!
Alaska	67.3	72.5	56.3	16.5!
Arizona	72.4	75.4	61.8	14.0!
Arkansas	‡	‡	‡	‡
California	76.0	74.5	62.5	12.0!
Colorado	69.7	76.7	61.2	14.9!
Connecticut	‡	‡	‡	‡
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	83.9	70.5	67.7	13.3!
Georgia	70.0	77.1	63.2	16.2!
Hawaii	‡	‡	‡	‡
Idaho	69.0	83.7	59.5	6.8!
Illinois	79.2	84.3	70.7	7.2!
Indiana	‡	‡	‡	‡
Iowa	77.0	82.8	66.1	6.3!
Kansas	66.4	83.1	63.3	13.9!
Kentucky	‡	‡	‡	‡
Louisiana	52.6	63.6	36.4!	20.2!
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	89.5	89.4	82.5	3.5!
Michigan	55.3	68.7	49.5	25.4
Minnesota	94.1	92.6	89.4	2.8!
Mississippi	66.4	93.7	65.2	5.0!
Missouri	71.6	85.1	67.6	11.0!
Montana	66.6	87.6	60.1	5.8
Nebraska	‡	‡	‡	‡
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	‡	‡	‡	‡
New Mexico	‡	‡	‡	‡
New York	82.6	74.3	70.9	13.9!
North Carolina	‡	‡	‡	‡
North Dakota	70.2	90.6	66.2	5.4!
Ohio	‡	‡	‡	‡
Oklahoma	49.3	88.9	45.8	7.6!
Oregon	60.8	81.1	49.5	7.5!
Pennsylvania	65.1	76.8	60.3	18.5!
Rhode Island	‡	‡	‡	‡
South Carolina	‡	‡	‡	‡
South Dakota	53.2	87.3	51.6	11.1!
Tennessee	59.8	78.9	50.4	11.6!
Texas	50.8	75.0	41.8	16.0
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	72.1	71.9	62.2	18.1!
Washington	69.2	71.8	56.8	15.8!
West Virginia	68.5	84.6	67.5	14.3!
Wisconsin	81.8	89.8	77.2	5.6!
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 13-B. Standard errors for table 13-A: Percentage of social studies classes taught by public school secondary level teachers with an undergraduate or graduate major and certification in social studies, by state: Academic year 1999–2000

	Total major	Total certification	Major and certification	No major, no certification
United States	0.95	1.10	1.13	0.76
Alabama	5.57	4.51	5.70	4.05!
Alaska	3.43	3.92	4.19	3.36!
Arizona	5.42	4.67	4.88	4.54!
Arkansas	‡	‡	‡	‡
California	4.63	5.03	6.01	2.69!
Colorado	5.40	4.31	5.49	3.59!
Connecticut	‡	‡	‡	‡
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	5.04	6.21	6.35	4.41!
Georgia	7.43	5.60	6.88	5.56!
Hawaii	‡	‡	‡	‡
Idaho	3.18	2.13	3.02	1.47!
Illinois	5.08	3.22	5.45	1.73!
Indiana	‡	‡	‡	‡
Iowa	3.95	5.02	4.89	2.13!
Kansas	4.78	3.74	4.80	3.61!
Kentucky	‡	‡	‡	‡
Louisiana	7.98	8.00	8.52!	5.93!
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	2.75	2.60	3.51	1.73!
Michigan	5.60	4.88	5.43	4.93
Minnesota	1.75	2.62	2.94	1.30!
Mississippi	4.27	1.58	4.33	1.29!
Missouri	5.46	3.66	5.80	3.01!
Montana	3.71	2.33	3.71	1.12
Nebraska	‡	‡	‡	‡
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	‡	‡	‡	‡
New Mexico	‡	‡	‡	‡
New York	3.09	4.80	4.68	3.43!
North Carolina	‡	‡	‡	‡
North Dakota	3.91	2.03	4.27	1.42!
Ohio	‡	‡	‡	‡
Oklahoma	6.27	2.30	6.41	2.06!
Oregon	6.87	5.94	7.28	1.57!
Pennsylvania	7.00	6.60	6.73	7.04!
Rhode Island	‡	‡	‡	‡
South Carolina	‡	‡	‡	‡
South Dakota	4.35	2.90	4.40	2.76!
Tennessee	9.77	5.83	7.89	5.38!
Texas	4.17	3.71	3.94	2.59
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	4.00	4.20	4.64	3.63!
Washington	5.19	4.60	5.67	4.00!
West Virginia	4.46	3.46	4.38	3.41!
Wisconsin	5.41	2.95	5.56	2.58!
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 14-A. Percentage of English students taught by public school secondary level teachers with an undergraduate or graduate major and certification in English, by state: Academic year 1999–2000

	Total major	Total certification	Major and certification	No major, no certification
United States	62.9	81.5	56.8	12.4
Alabama	52.0	79.7	50.8	19.1!
Alaska	66.5	77.5	63.3	19.3
Arizona	53.9	81.8	51.7	16.0!
Arkansas	77.1	87.0	74.3	10.3!
California	65.0	75.1	52.8	12.7!
Colorado	73.3	75.6	65.7	16.7!
Connecticut	63.5	77.3	56.4	15.6!
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	69.7	79.0	67.2	18.5!
Georgia	58.1	78.7	56.5	19.7!
Hawaii	‡	‡	‡	‡
Idaho	58.2	90.8	54.4	5.4
Illinois	58.1	88.0	57.9	11.8!
Indiana	82.6	90.4	77.4	4.4!
Iowa	70.3	82.6	67.1	14.2!
Kansas	65.6	81.3	61.2	14.3!
Kentucky	55.0	74.5	46.6	17.2!
Louisiana	44.9	77.9	41.9!	19.1!
Maine	66.2	79.8	58.9	12.9
Maryland	58.2	77.9	56.1	20.0!
Massachusetts	71.0	89.6	64.6	4.0!
Michigan	60.4	83.3	51.0	7.3!
Minnesota	81.1	93.3	78.8	4.4!
Mississippi	47.4	68.8	40.0	23.7
Missouri	57.5	80.7	56.3	18.2!
Montana	68.0	87.0	64.5	9.6
Nebraska	67.4	83.3	60.6	10.0!
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	74.0	88.9	71.3	8.4
New Mexico	53.1	74.1	41.6!	14.4!
New York	75.5	69.4	56.7	11.8!
North Carolina	82.8	75.1	66.0	8.1!
North Dakota	63.1	92.8	59.5	3.7!
Ohio	46.4	76.5	41.9	18.9!
Oklahoma	47.6	86.5	44.3	10.2!
Oregon	57.2	80.9	55.9	17.8!
Pennsylvania	65.2	81.3	57.5	11.1!
Rhode Island	‡	‡	‡	‡
South Carolina	55.4	87.6	50.3	7.3!
South Dakota	67.6	87.2	64.2	9.4!
Tennessee	65.8	89.5	62.9	7.6!
Texas	53.0	85.5	48.1	9.6!
Utah	59.2	82.8	55.4	13.4!
Vermont	‡	‡	‡	‡
Virginia	60.9	87.3	58.8	10.6!
Washington	66.3	84.7	61.5	10.5!
West Virginia	57.8	82.5	51.9	11.6!
Wisconsin	68.0	92.1	67.3	7.2!
Wyoming	66.3	95.6	64.1	2.1!

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 14-B. Standard errors for table 14-A: percentage of English students taught by public school secondary level teachers with an undergraduate or graduate major and certification in arts or music, by state: Academic year 1999–2000

	Total major	Total certification	Major and certification	No major, no certification
United States	1.07	0.78	1.13	0.68
Alabama	6.69	4.24	6.57	4.23!
Alaska	4.32	3.62	4.51	3.25
Arizona	6.06	5.29	6.00	5.36!
Arkansas	5.50	4.26	5.77	4.05!
California	3.55	3.41	3.91	2.55!
Colorado	4.25	4.35	4.50	3.96!
Connecticut	4.87	3.89	4.95	3.40!
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	5.73	4.67	5.95	4.41!
Georgia	4.45	4.00	4.76	4.38!
Hawaii	‡	‡	‡	‡
Idaho	3.22	0.96	3.02	0.74
Illinois	4.60	4.29	4.59	4.32!
Indiana	3.05	3.27	3.90	1.13!
Iowa	5.43	4.24	5.51	4.11!
Kansas	6.72	3.99	6.64	3.93!
Kentucky	5.41	4.97	5.31	4.65!
Louisiana	8.58	6.67	8.94!	6.18!
Maine	4.34	2.94	4.09	2.51
Maryland	5.49	4.22	5.59	4.22!
Massachusetts	6.52	1.97	6.51	1.34!
Michigan	5.98	3.86	6.27	1.80!
Minnesota	5.80	2.13	5.99	1.95!
Mississippi	4.42	4.75	3.96	4.65
Missouri	5.76	4.82	5.73	4.78!
Montana	3.09	2.36	3.52	1.67
Nebraska	6.18	5.84	7.02	4.01!
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	4.50	1.77	4.58	1.46
New Mexico	7.85	12.49	9.28!	7.98!
New York	5.38	5.51	6.56	3.34!
North Carolina	5.14	6.68	7.04	3.62!
North Dakota	3.32	1.57	3.10	1.45!
Ohio	7.59	5.57	7.62	5.49!
Oklahoma	8.91	3.95	8.25	3.71!
Oregon	9.20	7.07	8.96	7.19!
Pennsylvania	5.00	4.69	6.45	4.13!
Rhode Island	‡	‡	‡	‡
South Carolina	8.64	3.07	8.23	2.83!
South Dakota	2.79	2.01	2.69	1.99!
Tennessee	7.79	3.48	8.23	2.43!
Texas	5.51	2.89	5.58	2.21!
Utah	4.51	4.29	5.42	3.15!
Vermont	‡	‡	‡	‡
Virginia	4.37	2.94	4.22	2.93!
Washington	5.33	2.73	5.84	2.13!
West Virginia	6.41	3.86	5.81	3.35!
Wisconsin	4.44	2.65	4.37	2.78!
Wyoming	5.32	1.31	5.24	0.77!

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 15-A. Percentage of mathematics students taught by public school secondary level teachers with an undergraduate or graduate major and certification in mathematics, by state: Academic year 1999–2000

	Total major	Total certification	Major and certification	No major, no certification
United States	59.1	79.8	54.1	15.2
Alabama	73.0	85.5	67.9	9.5!
Alaska	61.6	68.7	55.7	25.4
Arizona	49.0	73.6	46.8	24.2
Arkansas	63.2	88.2	61.0	9.6!
California	49.7	69.7	40.9	21.5
Colorado	53.0	68.1	47.8	26.7!
Connecticut	50.1	80.3	48.0	17.7!
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	54.6	77.4	51.4	19.5!
Georgia	62.6	83.0	58.3	12.7!
Hawaii	‡	‡	‡	‡
Idaho	47.3	88.2	46.8	11.3
Illinois	52.9	86.1	52.7	13.7!
Indiana	64.1	92.8	63.1	6.3!
Iowa	62.5	86.4	58.9	10.0!
Kansas	47.8	82.7	46.7	16.2!
Kentucky	47.7	74.5	44.2	21.9
Louisiana	47.9	74.8	41.5	18.8!
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	65.3	86.3	59.5	7.8!
Michigan	53.6	66.1	48.6	28.9!
Minnesota	81.3	91.5	78.2	5.4!
Mississippi	55.6	74.5	49.4	19.4
Missouri	47.3	82.4	43.6	13.9!
Montana	72.9	90.1	69.2	6.2
Nebraska	82.2	89.8	78.9	7.0!
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	83.7	91.5	82.4	7.3!
New Mexico	‡	‡	‡	‡
New York	73.2	75.4	61.9	13.3!
North Carolina	63.6	77.0	54.7	14.1!
North Dakota	71.5	90.1	68.9	7.3
Ohio	70.9	83.0	63.8	10.0!
Oklahoma	63.1	84.7	59.4	11.5!
Oregon	56.2	86.3	54.9	12.4!
Pennsylvania	82.9	88.0	78.8	8.0!
Rhode Island	‡	‡	‡	‡
South Carolina	66.8	79.2	59.5	13.5!
South Dakota	68.4	96.5	67.5	2.6!
Tennessee	39.3	82.4	34.7	13.0!
Texas	46.8	73.2	41.4	21.4!
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	51.4	82.6	45.0	11.0!
Washington	52.3	86.9	51.3	12.2!
West Virginia	59.8	86.5	59.8	13.5!
Wisconsin	‡	‡	‡	‡
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 15-B. Standard errors for table 15-A: percentage of mathematics students taught by public school secondary level teachers with an undergraduate or graduate major and certification in mathematics, by state: Academic year 1999–2000

	Total major	Total certification	Major and certification	No major, no certification
United States	1.25	1.15	1.20	1.04
Alabama	5.86	3.56	5.30	2.36!
Alaska	5.05	4.18	4.61	4.92
Arizona	4.15	3.99	4.15	3.89
Arkansas	7.16	5.54	6.88	5.40!
California	5.29	4.51	4.90	3.09
Colorado	8.65	6.66	7.30	6.91!
Connecticut	6.13	5.06	6.00	5.00!
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	5.76	4.46	5.58	4.35!
Georgia	8.07	5.20	8.02	4.19!
Hawaii	‡	‡	‡	‡
Idaho	3.06	2.24	3.07	2.21
Illinois	5.96	4.52	5.95	4.52!
Indiana	5.63	1.77	5.58	1.79!
Iowa	5.62	3.94	5.39	3.48!
Kansas	5.99	4.74	5.74	4.85!
Kentucky	6.64	4.08	6.41	4.11
Louisiana	7.85	6.69	7.51	6.19!
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	4.26	2.29	4.12	2.04!
Michigan	8.78	9.14	8.54	9.24!
Minnesota	5.71	2.56	5.56	1.90!
Mississippi	4.05	3.44	4.13	3.22
Missouri	67.47	6.40	7.28	6.36!
Montana	4.65	1.86	5.31	1.02
Nebraska	3.74	3.24	3.65	2.87!
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	3.99	1.99	4.04	1.85!
New Mexico	‡	‡	‡	‡
New York	5.43	4.00	6.05	2.93!
North Carolina	7.42	4.93	7.02	4.42!
North Dakota	3.79	1.50	3.85	1.32
Ohio	5.97	5.84	6.55	4.53!
Oklahoma	6.94	4.63	6.78	4.70!
Oregon	4.73	3.69	4.81	3.64!
Pennsylvania	5.20	3.18	5.21	3.08!
Rhode Island	‡	‡	‡	‡
South Carolina	5.46	5.51	5.33	4.57!
South Dakota	3.71	0.76	3.65	0.55!
Tennessee	6.16	4.39	5.58	4.13!
Texas	5.73	5.47	5.16	5.25!
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	4.87	4.33	5.19	2.81!
Washington	6.02	3.06	6.12	2.94!
West Virginia	6.59	5.03	6.59	5.03!
Wisconsin	‡	‡	‡	‡
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 16-A. Percentage of science students taught by public school secondary level teachers with an undergraduate or graduate major and certification in science, by state: Academic year 1999–2000

	Total major	Total certification	Major and certification	No major, no certification
United States	67.4	81.2	59.8	11.2
Alabama	65.7	79.0	58.2	13.4!
Alaska	‡	‡	‡	‡
Arizona	57.5	79.0	54.2	17.7!
Arkansas	47.2	90.4	43.4	5.8!
California	71.2	73.9	58.5	13.4!
Colorado	77.0	74.9	61.4	9.4!
Connecticut	‡	‡	‡	‡
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	61.7	90.1	57.8	6.0!
Georgia	‡	‡	‡	‡
Hawaii	‡	‡	‡	‡
Idaho	71.9	93.8	71.4	5.7!
Illinois	81.4	84.4	72.3	6.5!
Indiana	‡	‡	‡	‡
Iowa	82.8	90.0	81.9	9.1!
Kansas	72.4	83.1	63.5	7.9!
Kentucky	‡	‡	‡	‡
Louisiana	40.5!	76.9	36.2!	18.9!
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	‡	‡	‡	‡
Michigan	81.1	80.1	67.1	5.9!
Minnesota	85.2	88.2	79.3	5.9!
Mississippi	59.2	85.6	55.1	10.2!
Missouri	69.0	82.8	63.1	11.3!
Montana	68.5	80.9	64.0	14.5!
Nebraska	‡	‡	‡	‡
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	‡	‡	‡	‡
New Mexico	‡	‡	‡	‡
New York	69.7	68.8	55.2	16.7!
North Carolina	‡	‡	‡	‡
North Dakota	79.3	89.4	76.0	7.4!
Ohio	63.2	79.1	57.8	15.6!
Oklahoma	62.3	93.9	60.7	4.6!
Oregon	73.8	88.3	65.7	3.6!
Pennsylvania	74.9	82.8	72.1	14.4!
Rhode Island	‡	‡	‡	‡
South Carolina	‡	‡	‡	‡
South Dakota	70.2	95.7	69.2	3.2!
Tennessee	44.2	87.8	40.0!	8.0!
Texas	48.2	83.1	41.1	9.8!
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	66.7	85.6	59.1	6.9!
Washington	‡	‡	‡	‡
West Virginia	‡	‡	‡	‡
Wisconsin	83.3	91.5	76.9	2.0!
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 16-B. Standard errors for table 16-A: percentage of science classes taught by public school secondary level teachers with an undergraduate or graduate major and certification in science , by state: Academic year 1999–2000

	Total major	Total certification	Major and certification	No major, no certification
United States	1.15	1.04	1.52	0.79
Alabama	5.81	4.96	5.87	4.19!
Alaska	‡	‡	‡	‡
Arizona	7.54	5.39	7.25	5.10!
Arkansas	6.29	3.43	6.08	2.37!
California	4.08	4.03	4.41	2.86!
Colorado	4.96	4.81	5.73	3.93!
Connecticut	‡	‡	‡	‡
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	10.25	2.49	9.56	2.05!
Georgia	‡	‡	‡	‡
Hawaii	‡	‡	‡	‡
Idaho	2.78	1.26	2.80	1.23!
Illinois	3.95	3.34	4.60	1.93!
Indiana	‡	‡	‡	‡
Iowa	4.79	3.04	4.85	3.04!
Kansas	5.71	4.83	6.93	2.50!
Kentucky	‡	‡	‡	‡
Louisiana	10.54!	8.37	8.42!	6.39!
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	‡	‡	‡	‡
Michigan	4.76	6.40	7.51	2.15!
Minnesota	5.16	2.77	5.47	1.96!
Mississippi	5.23	3.17	5.29	2.78!
Missouri	9.56	5.18	9.61	4.89!
Montana	3.63	3.28	3.67	3.17!
Nebraska	‡	‡	‡	‡
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	‡	‡	‡	‡
New Mexico	‡	‡	‡	‡
New York	8.46	7.12	9.64	5.48!
North Carolina	‡	‡	‡	‡
North Dakota	3.67	1.95	3.82	1.50!
Ohio	6.26	6.50	6.25	6.25!
Oklahoma	7.16	1.57	7.18	1.39!
Oregon	7.43	5.26	7.44	1.92!
Pennsylvania	8.47	7.03	8.52	6.83!
Rhode Island	‡	‡	‡	‡
South Carolina	‡	‡	‡	‡
South Dakota	4.37	1.20	4.36	1.06!
Tennessee	8.71	2.90	8.30!	2.41!
Texas	5.75	3.67	4.91	3.11!
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	5.44	4.35	6.01	2.10!
Washington	‡	‡	‡	‡
West Virginia	‡	‡	‡	‡
Wisconsin	4.77	3.28	5.60	1.02!
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 17-A. Percentage of social studies students taught by public school secondary level teachers with an undergraduate or graduate major and certification in social studies, by state: Academic year 1999–2000

	Total major	Total certification	Major and certification	No major, no certification
United States	71.8	81.4	63.4	10.1
Alabama	61.8	87.5	58.0	8.7!
Alaska	73.2	78.6	62.6	10.8!
Arizona	73.2	78.6	64.2	12.4!
Arkansas	63.3	80.4	56.8	13.2!
California	78.2	77.0	64.5	9.3!
Colorado	69.3	76.7	61.1	15.1!
Connecticut	‡	‡	‡	‡
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	87.6	75.1	71.8	9.1!
Georgia	72.5	80.0	65.3	12.7!
Hawaii	‡	‡	‡	‡
Idaho	75.6	87.7	67.7	4.5!
Illinois	81.8	86.1	73.0	5.2!
Indiana	‡	‡	‡	‡
Iowa	79.8	80.1	65.1	5.2!
Kansas	70.0	85.1	65.7	10.7!
Kentucky	‡	‡	‡	‡
Louisiana	53.0	65.7	37.7!	19.0!
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	90.6	90.5	84.3	3.3!
Michigan	60.7	70.2	52.5	21.6!
Minnesota	94.3	92.6	89.7	2.8!
Mississippi	67.9	94.6	66.6	4.1!
Missouri	71.7	85.8	67.9	10.3!
Montana	66.8	88.0	60.2	5.4
Nebraska	‡	‡	‡	‡
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	‡	‡	‡	‡
New Mexico	‡	‡	‡	‡
New York	85.1	80.5	76.6	11.0!
North Carolina	‡	‡	‡	‡
North Dakota	69.9	90.1	65.8	5.9!
Ohio	‡	‡	‡	‡
Oklahoma	52.7	90.8	48.8	5.2!
Oregon	62.1	82.1	50.3	6.1!
Pennsylvania	67.4	77.5	62.4	17.6!
Rhode Island	‡	‡	‡	‡
South Carolina	‡	‡	‡	‡
South Dakota	55.1	89.5	54.2	9.5!
Tennessee	60.8	80.6	51.8	10.4!
Texas	52.0	78.3	43.1	12.8
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	73.0	73.1	62.9	16.7!
Washington	70.9	74.1	58.8	13.7!
West Virginia	71.3	87.8	70.9	11.8!
Wisconsin	83.7	91.0	79.5	4.8!
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 17-B. Standard errors for table 17-A: percentage of social studies classes taught by public school secondary level teachers with an undergraduate or graduate major and certification in social studies, by state: Academic year 1999–2000

	Total major	Total certification	Major and certification	No major, no certification
United States	1.08	1.16	1.24	0.77
Alabama	5.36	3.69	5.48	2.97!
Alaska	3.34	3.39	4.16	2.63!
Arizona	4.81	3.89	4.53	3.62!
Arkansas	6.66	5.95	6.75	5.05!
California	4.64	4.99	6.21	2.27!
Colorado	5.58	4.51	5.71	3.90!
Connecticut	‡	‡	‡	‡
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	4.51	6.06	6.25	3.49!
Georgia	7.07	4.92	6.72	4.55!
Hawaii	‡	‡	‡	‡
Idaho	3.18	1.98	3.44	1.11!
Illinois	5.25	3.26	5.70	1.33!
Indiana	‡	‡	‡	‡
Iowa	4.44	9.69	8.04	1.91!
Kansas	5.38	3.96	5.66	3.55!
Kentucky	‡	‡	‡	‡
Louisiana	8.34	7.43	8.52!	6.47!
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	2.80	2.59	3.47	1.69!
Michigan	6.27	5.24	5.63	5.25!
Minnesota	1.89	2.89	3.09	1.58!
Mississippi	4.05	1.42	4.13	1.13!
Missouri	5.68	3.52	6.14	2.85!
Montana	3.76	2.32	3.91	1.06
Nebraska	‡	‡	‡	‡
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	‡	‡	‡	‡
New Mexico	‡	‡	‡	‡
New York	2.97	3.78	3.70	3.34!
North Carolina	‡	‡	‡	‡
North Dakota	4.19	2.39	4.39	1.87!
Ohio	‡	‡	‡	‡
Oklahoma	6.72	2.08	6.99	1.52!
Oregon	7.15	5.18	7.99	1.50!
Pennsylvania	7.52	7.50	7.21	8.15!
Rhode Island	‡	‡	‡	‡
South Carolina	‡	‡	‡	‡
South Dakota	4.09	2.28	4.10	2.20!
Tennessee	10.01	5.93	8.04	5.67!
Texas	4.63	3.72	4.36	2.35
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	3.78	4.11	4.54	3.42!
Washington	5.36	4.56	5.94	3.75!
West Virginia	4.24	3.79	4.21	3.80!
Wisconsin	4.95	2.72	5.13	2.27!
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 18-A. Percentage of public school elementary level teachers with a main assignment in elementary education with an undergraduate or graduate major or minor and certification in education, by state: Academic year 1999–2000

	Total major/minor	Total certification	Major/minor and certification	No major/minor, no certification
United States	76.4	93.2	72.6	3.1
Alabama	77.9	98.8	77.4	0.7!
Alaska	85.5	92.7	80.5	2.2
Arizona	83.7	92.1	78.2	2.4!
Arkansas	90.9	100.0	90.9	‡
California	40.4	87.0	37.5	10.1
Colorado	77.1	92.7	71.8	1.9!
Connecticut	87.3	97.5	84.8	‡
Delaware	‡	‡	‡	‡
District of Columbia	75.9	79.4	62.0	6.7
Florida	87.4	96.3	85.1	1.4!
Georgia	45.3	93.7	40.9	2.0!
Hawaii	86.9	93.7	83.0	2.4!
Idaho	85.7	98.7	84.3	‡
Illinois	87.1	96.5	86.1	2.5!
Indiana	96.0	97.9	93.9	‡
Iowa	94.4	92.7	87.9	0.8!
Kansas	95.1	100.0	95.1	‡
Kentucky	92.2	92.1	85.2	0.9!
Louisiana	87.2	91.3	82.5	4.1!
Maine	82.3	97.9	81.0	0.8!
Maryland	75.8	91.5	70.0	2.7!
Massachusetts	83.6	94.9	80.0	1.5!
Michigan	74.4	83.9	61.9	3.5!
Minnesota	94.4	98.9	93.4	0.1!
Mississippi	93.8	95.1	90.9	2.0!
Missouri	95.0	92.8	89.7	1.9!
Montana	93.5	99.2	93.0	0.3!
Nebraska	95.3	99.4	95.3	0.6!
Nevada	84.3	94.0	80.2	2.0!
New Hampshire	81.8	99.4	81.2	‡
New Jersey	79.8	97.7	78.9	1.4!
New Mexico	79.1	97.6	77.7	1.0!
New York	82.1	89.4	76.0	4.4!
North Carolina	68.2	97.2	66.8	1.4!
North Dakota	97.3	98.5	95.7	‡
Ohio	83.7	83.6	68.3	0.9!
Oklahoma	88.2	99.2	88.0	0.6!
Oregon	86.0	100.0	86.0	‡
Pennsylvania	89.1	98.1	87.6	0.3!
Rhode Island	87.7	94.4	83.0	0.9!
South Carolina	74.7	96.0	70.7	‡
South Dakota	97.6	98.9	96.5	‡
Tennessee	80.6	95.3	78.5	2.7!
Texas	73.9	91.1	70.6	5.6!
Utah	87.2	98.2	86.0	0.6!
Vermont	83.4	100.0	83.4	‡
Virginia	69.5	88.3	62.6	4.8!
Washington	71.4	98.1	69.9	0.4!
West Virginia	91.1	100.0	91.1	‡
Wisconsin	89.7	96.9	87.5	1.0!
Wyoming	93.5	99.3	92.8	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 18-B. Standard errors for table 18-A: Percentage of public school elementary level teachers with a main assignment in elementary education with an undergraduate or graduate major or minor and certification in elementary education, by state: Academic year 1999–2000

	Total major/minor	Total certification	Major/minor and certification	No major/minor, no certification
United States	0.68	0.41	0.67	0.26
Alabama	2.72	0.76	2.55	0.50!
Alaska	1.24	1.19	1.62	0.42
Arizona	2.21	1.21	2.55	0.69!
Arkansas	2.14	0.00	2.14	‡
California	3.06	1.50	2.83	1.39
Colorado	2.73	1.45	2.96	0.88!
Connecticut	2.18	1.00	2.36	‡
Delaware	‡	‡	‡	‡
District of Columbia	2.41	2.13	3.11	1.25
Florida	1.90	0.91	2.15	0.55!
Georgia	5.22	1.92	5.14	1.18!
Hawaii	2.56	1.70	2.58	1.01!
Idaho	1.47	0.41	1.58	‡
Illinois	2.85	1.28	2.88	1.11!
Indiana	1.44	1.24	1.90	‡
Iowa	1.38	1.81	2.30	0.51!
Kansas	1.91	0.00	1.91	‡
Kentucky	2.12	2.27	2.94	0.68!
Louisiana	4.10	3.50	4.74	2.52!
Maine	2.33	0.77	2.31	0.47!
Maryland	3.92	2.26	3.81	1.31!
Massachusetts	2.71	1.64	2.61	0.74!
Michigan	4.19	2.61	4.34	1.53!
Minnesota	1.61	0.98	1.54	0.03!
Mississippi	1.72	1.52	1.84	0.85!
Missouri	2.29	2.55	2.48	1.62!
Montana	1.03	0.36	1.06	0.20!
Nebraska	0.85	0.38	0.85	0.38!
Nevada	2.25	1.36	2.51	0.72!
New Hampshire	3.53	0.63	3.58	‡
New Jersey	2.47	1.10	2.49	0.90!
New Mexico	4.05	1.47	4.07	0.62!
New York	2.29	2.65	3.28	1.09!
North Carolina	4.67	1.30	4.90	0.84!
North Dakota	0.81	0.63	1.03	‡
Ohio	2.86	2.95	3.17	0.72!
Oklahoma	3.28	0.74	3.28	0.72!
Oregon	2.35	0.00	2.35	‡
Pennsylvania	3.19	1.60	3.72	0.26!
Rhode Island	1.47	0.75	1.40	0.36!
South Carolina	3.72	1.54	3.73	‡
South Dakota	0.74	0.63	1.18	‡
Tennessee	3.15	1.94	3.07	1.35!
Texas	3.29	1.97	3.38	1.53!
Utah	2.58	0.81	2.41	0.57!
Vermont	2.56	0.00	2.56	‡
Virginia	3.99	2.61	4.12	2.02!
Washington	2.64	0.70	2.60	0.17!
West Virginia	2.29	0.00	2.29	‡
Wisconsin	2.32	1.20	2.61	0.77!
Wyoming	1.25	0.42	1.25	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 19-A. Percentage of public school secondary level teachers with a main assignment in English with an undergraduate or graduate major or minor and certification in English, by state: Academic year 1999–2000

	Total major/minor	Total certification	Major/minor and certification	No major/minor, no certification
United States	70.4	89.1	65.4	5.9
Alabama	52.9	87.8	52.2	11.5!
Alaska	‡	‡	‡	‡
Arizona	60.5	85.2	57.8	12.1!
Arkansas	75.5	94.4	75.5	5.6!
California	73.6	82.4	61.5	5.5!
Colorado	74.8	84.3	66.4	7.3!
Connecticut	70.2	84.9	65.9	10.8!
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	67.4	88.0	60.8	5.5!
Georgia	55.9	91.2	55.2	8.0!
Hawaii	‡	‡	‡	‡
Idaho	60.5	94.2	59.7	5.0!
Illinois	65.0	94.1	65.0	5.9!
Indiana	92.9	95.0	88.8	0.9!
Iowa	68.6	83.7	64.3	12.0!
Kansas	69.6	86.4	66.6	10.7!
Kentucky	67.5	87.9	60.9	5.5!
Louisiana	59.2	88.8	56.5	8.5!
Maine	82.7	93.0	78.2	2.5!
Maryland	‡	‡	‡	‡
Massachusetts	71.4	91.8	67.0	3.7!
Michigan	86.0	87.3	75.1	1.7!
Minnesota	80.1	94.9	79.0	4.0!
Mississippi	47.8	76.4	42.3	18.1!
Missouri	67.7	88.8	63.9	7.3!
Montana	72.3	95.7	70.1	2.2!
Nebraska	77.9	92.7	73.8	3.3!
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	81.5	96.6	80.6	2.5!
New Mexico	‡	‡	‡	‡
New York	82.3	87.0	71.5	2.1!
North Carolina	78.2	81.7	63.4	3.5!
North Dakota	71.3	97.0	70.3	2.0!
Ohio	63.6	82.6	54.9	8.7!
Oklahoma	66.3	93.8	64.4	4.3!
Oregon	67.6	93.8	65.6	4.2!
Pennsylvania	71.2	91.4	69.2	6.6!
Rhode Island	‡	‡	‡	‡
South Carolina	55.7	80.2	50.9	15.0!
South Dakota	77.4	97.9	76.1	0.8!
Tennessee	63.0	98.5	62.6	1.0!
Texas	65.7	93.2	63.1	4.2!
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	64.5	88.9	64.5	11.1!
Washington	70.7	98.9	70.7	1.2!
West Virginia	‡	‡	‡	‡
Wisconsin	81.3	93.4	78.7	4.1!
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 19-B. Standard errors for table 19-A: Percentage of public school secondary level teachers with a main assignment in English with an undergraduate or graduate major or minor and certification in English, by state: Academic year 1999–2000

	Total major/minor	Total certification	Major/minor and certification	No major/minor, no certification
United States	1.12	0.73	1.19	0.59
Alabama	5.08	4.75	5.03	4.72!
Alaska	‡	‡	‡	‡
Arizona	5.88	3.19	5.82	3.16!
Arkansas	5.21	3.28	5.21	3.28!
California	5.55	2.84	5.56	2.16!
Colorado	4.98	4.31	5.18	3.67!
Connecticut	4.63	3.64	4.69	3.34!
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	5.87	5.15	6.85	2.25!
Georgia	5.70	4.56	5.65	4.58!
Hawaii	‡	‡	‡	‡
Idaho	2.96	1.46	2.94	1.40!
Illinois	5.61	3.13	5.61	3.13!
Indiana	1.58	3.06	3.21	0.56!
Iowa	4.57	3.99	4.36	3.76!
Kansas	5.52	4.69	5.48	4.79!
Kentucky	3.83	3.34	3.60	2.58!
Louisiana	8.18	5.29	8.46	4.83!
Maine	4.27	1.54	4.35	1.08!
Maryland	‡	‡	‡	‡
Massachusetts	5.34	2.38	5.41	2.24!
Michigan	4.27	4.08	5.52	1.06!
Minnesota	6.03	3.16	6.16	3.00!
Mississippi	4.54	5.02	4.30	4.54!
Missouri	5.95	5.01	5.85	4.31!
Montana	3.50	1.88	3.66	1.63!
Nebraska	5.03	2.72	5.89	1.67!
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	4.22	1.01	4.21	0.94!
New Mexico	‡	‡	‡	‡
New York	3.97	3.32	4.28	2.11!
North Carolina	5.41	4.49	6.46	2.99!
North Dakota	3.79	0.95	3.82	0.97!
Ohio	7.87	5.28	9.36	4.03!
Oklahoma	6.21	2.80	6.08	2.81!
Oregon	5.79	2.94	5.69	2.85!
Pennsylvania	6.66	4.49	6.66	4.48!
Rhode Island	‡	‡	‡	‡
South Carolina	7.70	4.62	7.42	4.69!
South Dakota	2.90	0.57	2.89	0.25!
Tennessee	9.19	0.68	9.22	0.50!
Texas	5.27	2.13	5.21	2.05!
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	4.89	4.39	4.89	4.39!
Washington	4.61	0.62	4.61	0.62!
West Virginia	‡	‡	‡	‡
Wisconsin	4.01	3.77	4.10	3.16!
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 20-A. Percentage of public school secondary level teachers with a main assignment in mathematics with an undergraduate or graduate major or minor and certification in mathematics, by state: Academic year 1999–2000

	Total major/minor	Total certification	Major/minor and certification	No major/minor, no certification
United States	69.5	85.3	64.2	9.4
Alabama	87.0	91.2	80.2	2.1!
Alaska	‡	‡	‡	‡
Arizona	58.9	74.2	52.3	19.2!
Arkansas	‡	‡	‡	‡
California	57.5	78.2	47.9	12.2!
Colorado	75.7	77.5	69.6	16.5!
Connecticut	‡	‡	‡	‡
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	67.2	84.4	65.2	13.6!
Georgia	55.9	88.9	54.6	9.8!
Hawaii	‡	‡	‡	‡
Idaho	‡	‡	‡	‡
Illinois	66.8	89.0	66.5	10.7!
Indiana	74.6	92.9	72.7	5.3!
Iowa	‡	‡	‡	‡
Kansas	66.5	90.9	66.2	8.8!
Kentucky	49.3	79.2	46.1	17.5!
Louisiana	65.3	78.5	55.1	11.3!
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	71.5	87.1	67.4	8.8!
Michigan	75.7	87.7	70.2	6.9!
Minnesota	84.9	94.8	83.7	4.0!
Mississippi	51.6	77.9	48.3	18.8!
Missouri	67.2	91.0	63.0	4.8!
Montana	79.3	90.9	76.4	6.3!
Nebraska	‡	‡	‡	‡
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	‡	‡	‡	‡
New Mexico	‡	‡	‡	‡
New York	79.8	77.0	65.6	8.8!
North Carolina	54.8	77.6	48.7	16.3!
North Dakota	‡	‡	‡	‡
Ohio	77.8	88.2	73.5	7.5!
Oklahoma	73.1	91.1	71.4	7.2!
Oregon	‡	‡	‡	‡
Pennsylvania	86.7	88.6	81.5	6.2!
Rhode Island	‡	‡	‡	‡
South Carolina	73.1	81.0	65.5	11.5!
South Dakota	79.7	98.8	79.7	1.2!
Tennessee	59.5	88.0	55.9	8.5!
Texas	67.0	82.6	61.0	11.4!
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	56.6	87.5	51.0	7.0!
Washington	78.7	93.9	76.0	3.5!
West Virginia	‡	‡	‡	‡
Wisconsin	‡	‡	‡	‡
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 20-B. Standard errors for table 20-A: Percentage of public school secondary level teachers with a main assignment in mathematics with an undergraduate or graduate major or minor and certification in mathematics, by state: Academic year 1999–2000

	Total major/minor	Total certification	Major/minor and certification	No major/minor, no certification
United States	1.16	0.84	1.18	0.77
Alabama	3.19	3.72	4.02	1.26!
Alaska	‡	‡	‡	‡
Arizona	4.99	4.57	4.67	4.68!
Arkansas	‡	‡	‡	‡
California	4.41	3.84	4.11	2.61!
Colorado	6.68	7.23	7.27	6.64!
Connecticut	‡	‡	‡	‡
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	5.44	4.35	5.46	4.35!
Georgia	6.86	4.87	6.96	4.73!
Hawaii	‡	‡	‡	‡
Idaho	‡	‡	‡	‡
Illinois	6.45	4.80	6.42	4.80!
Indiana	4.55	3.53	4.58	3.43!
Iowa	‡	‡	‡	‡
Kansas	5.47	3.72	5.44	3.72!
Kentucky	5.33	4.23	5.41	4.02!
Louisiana	7.33	6.85	7.62	5.81!
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	7.47	4.74	7.36	4.73!
Michigan	8.15	3.84	7.78	3.27!
Minnesota	5.17	1.91	5.18	1.53!
Mississippi	4.27	4.63	4.32	4.39!
Missouri	8.42	4.13	8.20	4.07!
Montana	3.67	2.39	3.64	2.19!
Nebraska	‡	‡	‡	‡
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	‡	‡	‡	‡
New Mexico	‡	‡	‡	‡
New York	5.77	4.40	6.30	3.64!
North Carolina	8.98	7.12	8.32	7.34!
North Dakota	‡	‡	‡	‡
Ohio	6.34	4.99	6.36	4.28!
Oklahoma	5.78	4.27	5.72	4.35!
Oregon	‡	‡	‡	‡
Pennsylvania	5.71	5.22	5.78	5.10!
Rhode Island	‡	‡	‡	‡
South Carolina	4.37	5.60	4.81	4.66!
South Dakota	3.79	0.48	3.79	0.48!
Tennessee	7.44	5.03	7.33	4.94!
Texas	5.27	4.13	5.24	4.03!
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	5.56	4.33	6.30	2.85!
Washington	4.60	2.28	4.79	1.45!
West Virginia	‡	‡	‡	‡
Wisconsin	‡	‡	‡	‡
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 21-A. Percentage of public school secondary level teachers with a main assignment in science with an undergraduate or graduate major or minor and certification in science, by state: Academic year 1999–2000

	Total major/minor	Total certification	Major/minor and certification	No major/minor, no certification
United States	76.4	85.6	68.4	6.4
Alabama	68.2	87.5	61.5	5.8!
Alaska	‡	‡	‡	‡
Arizona	59.8	81.6	57.1	15.6!
Arkansas	‡	‡	‡	‡
California	82.4	78.1	67.7	7.2!
Colorado	77.4	79.8	64.8	7.7!
Connecticut	‡	‡	‡	‡
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	63.5	84.7	59.0	10.8!
Georgia	‡	‡	‡	‡
Hawaii	‡	‡	‡	‡
Idaho	‡	‡	‡	‡
Illinois	‡	‡	‡	‡
Indiana	‡	‡	‡	‡
Iowa	‡	‡	‡	‡
Kansas	‡	‡	‡	‡
Kentucky	‡	‡	‡	‡
Louisiana	‡	‡	‡	‡
Maine	‡	‡	‡	‡
Maryland	85.6	84.8	78.3	7.9!
Massachusetts	74.7	80.7	63.5	8.1!
Michigan	84.3	82.7	68.2	1.1!
Minnesota	88.9	92.2	82.9	1.8!
Mississippi	66.8	86.0	62.3	9.6!
Missouri	‡	‡	‡	‡
Montana	75.4	94.9	70.2	‡
Nebraska	‡	‡	‡	‡
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	‡	‡	‡	‡
New Mexico	‡	‡	‡	‡
New York	88.5	77.5	72.8	6.8!
North Carolina	‡	‡	‡	‡
North Dakota	‡	‡	‡	‡
Ohio	70.9	81.0	61.1	9.2!
Oklahoma	71.4	95.8	70.5	3.4!
Oregon	‡	‡	‡	‡
Pennsylvania	74.2	88.2	71.7	9.3!
Rhode Island	‡	‡	‡	‡
South Carolina	‡	‡	‡	‡
South Dakota	84.3	98.2	84.0	1.5!
Tennessee	58.0	95.5	55.3	1.7!
Texas	67.7	84.7	58.7	6.3!
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	76.8	89.3	67.3	1.2!
Washington	‡	‡	‡	‡
West Virginia	‡	‡	‡	‡
Wisconsin	86.2	90.9	78.1	0.9!
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 21-B. Standard errors for table 21-A: Percentage of public school secondary level teachers with a main assignment in science with an undergraduate or graduate major or minor and certification in science, by state: Academic year 1999–2000

	Total major/minor	Total certification	Major/minor and certification	No major/minor, no certification
United States	1.16	0.84	1.19	0.65
Alabama	6.01	4.13	5.92	3.43!
Alaska	‡	‡	‡	‡
Arizona	8.37	5.60	8.04	5.75!
Arkansas	‡	‡	‡	‡
California	3.06	3.72	4.30	1.71!
Colorado	6.84	3.94	6.36	3.73!
Connecticut	‡	‡	‡	‡
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	10.17	6.49	9.47	6.78!
Georgia	‡	‡	‡	‡
Hawaii	‡	‡	‡	‡
Idaho	‡	‡	‡	‡
Illinois	‡	‡	‡	‡
Indiana	‡	‡	‡	‡
Iowa	‡	‡	‡	‡
Kansas	‡	‡	‡	‡
Kentucky	‡	‡	‡	‡
Louisiana	‡	‡	‡	‡
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	‡	‡	‡	‡
Michigan	5.73	4.83	6.25	0.91!
Minnesota	4.48	2.74	4.90	1.40!
Mississippi	5.00	4.29	5.09	4.19!
Missouri	‡	‡	‡	‡
Montana	3.82	1.62	3.92	‡
Nebraska	‡	‡	‡	‡
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	‡	‡	‡	‡
New Mexico	‡	‡	‡	‡
New York	3.10	5.01	5.24	3.21!
North Carolina	‡	‡	‡	‡
North Dakota	‡	‡	‡	‡
Ohio	5.07	5.96	5.36	5.51!
Oklahoma	6.29	1.69	6.38	1.66!
Oregon	‡	‡	‡	‡
Pennsylvania	7.14	5.71	7.15	5.57!
Rhode Island	‡	‡	‡	‡
South Carolina	‡	‡	‡	‡
South Dakota	4.02	0.87	4.03	0.85!
Tennessee	9.14	1.28	8.83	0.99!
Texas	5.47	3.54	5.24	2.68!
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	3.85	4.03	5.01	0.77!
Washington	‡	‡	‡	‡
West Virginia	‡	‡	‡	‡
Wisconsin	5.24	4.34	6.46	0.67!
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 22-A. Percentage of public school secondary level teachers with a main assignment in social studies with an undergraduate or graduate major or minor and certification in social studies, by state: Academic year 1999–2000

	Total major/minor	Total certification	Major/minor and certification	No major/minor, no certification
United States	81.9	90.2	75.1	3.1!
Alabama	75.6	100.0	75.6	‡
Alaska	‡	‡	‡	‡
Arizona	86.9	84.4	76.0	4.6!
Arkansas	‡	‡	‡	‡
California	90.9	89.9	81.7	0.9!
Colorado	87.8	92.1	80.3	0.4
Connecticut	‡	‡	‡	‡
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	88.0	77.6	75.4	9.8!
Georgia	84.8	94.8	80.7	1.0!
Hawaii	‡	‡	‡	‡
Idaho	‡	‡	‡	‡
Illinois	‡	‡	‡	‡
Indiana	‡	‡	‡	‡
Iowa	‡	‡	‡	‡
Kansas	‡	‡	‡	‡
Kentucky	‡	‡	‡	‡
Louisiana	‡	‡	‡	‡
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	‡	‡	‡	‡
Michigan	91.6	83.6	76.7	1.5!
Minnesota	93.5	98.4	91.9	‡
Mississippi	76.8	93.4	75.9	5.7!
Missouri	83.5	95.8	80.3	1.1!
Montana	78.6	95.3	76.3	2.4!
Nebraska	‡	‡	‡	‡
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	‡	‡	‡	‡
New Mexico	‡	‡	‡	‡
New York	91.0	90.9	82.3	0.4!
North Carolina	‡	‡	‡	‡
North Dakota	89.6	100.0	89.6	‡
Ohio	‡	‡	‡	‡
Oklahoma	74.1	92.7	73.0	6.3!
Oregon	‡	‡	‡	‡
Pennsylvania	64.2	87.0	61.2	10.0!
Rhode Island	‡	‡	‡	‡
South Carolina	‡	‡	‡	‡
South Dakota	77.9	98.1	77.9	1.9!
Tennessee	70.6	90.9	62.0	0.5!
Texas	74.4	84.1	61.9	3.4!
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	72.0	88.8	67.4	6.6!
Washington	‡	‡	‡	‡
West Virginia	‡	‡	‡	‡
Wisconsin	‡	‡	‡	‡
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 22-B. Standard errors for table 22-A: Percentage of public school secondary level teachers with a main assignment in social studies with an undergraduate or graduate major or minor and certification in social studies, by state: Academic year 1999–2000

	Total major/minor	Total certification	Major/minor and certification	No major/minor, no certification
United States	0.98	0.98	1.06	0.64
Alabama	4.74	0.00	4.74	‡
Alaska	‡	‡	‡	‡
Arizona	2.61	4.68	4.99	1.36!
Arkansas	‡	‡	‡	‡
California	4.15	3.99	5.70	0.76!
Colorado	3.93	2.28	4.38	0.07
Connecticut	‡	‡	‡	‡
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	6.40	7.68	7.60	6.27!
Georgia	4.75	2.36	4.67	1.13!
Hawaii	‡	‡	‡	‡
Idaho	‡	‡	‡	‡
Illinois	‡	‡	‡	‡
Indiana	‡	‡	‡	‡
Iowa	‡	‡	‡	‡
Kansas	‡	‡	‡	‡
Kentucky	‡	‡	‡	‡
Louisiana	‡	‡	‡	‡
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	‡	‡	‡	‡
Michigan	3.29	5.68	6.28	1.36!
Minnesota	4.51	1.22	4.63	‡
Mississippi	3.68	2.19	3.72	2.13!
Missouri	6.22	1.74	6.10	0.99!
Montana	3.66	2.05	3.83	1.57!
Nebraska	‡	‡	‡	‡
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	‡	‡	‡	‡
New Mexico	‡	‡	‡	‡
New York	4.07	3.38	3.59	0.26!
North Carolina	‡	‡	‡	‡
North Dakota	2.53	0.00	2.53	‡
Ohio	‡	‡	‡	‡
Oklahoma	5.80	5.09	5.61	5.25!
Oregon	‡	‡	‡	‡
Pennsylvania	7.70	9.23	7.20	9.72!
Rhode Island	‡	‡	‡	‡
South Carolina	‡	‡	‡	‡
South Dakota	3.65	1.03	3.65	1.03!
Tennessee	8.75	5.23	6.69	0.41!
Texas	4.66	4.00	4.56	1.36!
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	5.55	2.55	5.77	1.93!
Washington	‡	‡	‡	‡
West Virginia	‡	‡	‡	‡
Wisconsin	‡	‡	‡	‡
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 23-A. Percentage of public school secondary level teachers who taught at least one class in English with an undergraduate or graduate major or minor and certification in English, by state: Academic year 1999–2000

	Total major/minor	Total certification	Major/minor and certification	No major/minor, no certification
United States	61.3	71.5	53.0	20.2
Alabama	49.8	64.2	45.4	31.4
Alaska	50.8	58.0	45.3	36.5
Arizona	52.1	73.7	48.4	22.6
Arkansas	69.0	74.9	64.8	20.8!
California	63.4	67.2	49.9	19.3
Colorado	62.6	63.4	54.3	28.3
Connecticut	62.5	69.4	55.1	23.3
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	63.1	66.9	55.1	25.1
Georgia	44.7	63.4	43.0	34.9
Hawaii	‡	‡	‡	‡
Idaho	60.0	85.2	53.6	8.4
Illinois	55.9	82.0	54.1	16.2!
Indiana	81.0	83.5	74.0	9.6!
Iowa	65.7	74.6	59.3	18.9
Kansas	62.9	65.6	54.2	25.7
Kentucky	50.0	68.7	42.1	23.4
Louisiana	43.8	64.3	37.2	29.1!
Maine	63.5	71.0	56.1	21.7
Maryland	49.0	60.9	45.1	35.2
Massachusetts	67.7	81.5	61.5	12.3!
Michigan	78.0	65.9	60.0	16.2
Minnesota	71.0	80.9	67.2	15.3!
Mississippi	51.8	58.7	40.4	29.8
Missouri	52.8	68.1	49.7	28.8
Montana	65.3	74.9	60.1	19.8
Nebraska	62.9	73.0	56.3	20.5
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	69.0	76.2	64.4	19.2
New Mexico	50.7	67.3	43.0	25.1!
New York	70.5	60.4	49.6	18.6
North Carolina	72.8	65.9	55.2	16.4!
North Dakota	64.6	82.9	61.2	13.7
Ohio	49.2	71.4	42.5	21.9!
Oklahoma	51.5	71.2	44.5	21.8!
Oregon	57.7	73.4	55.4	24.3
Pennsylvania	70.2	72.6	60.2	17.5!
Rhode Island	‡	‡	‡	‡
South Carolina	55.9	78.4	47.2	12.9!
South Dakota	68.5	83.7	64.5	12.3
Tennessee	58.9	77.5	53.2	16.8!
Texas	60.3	76.6	52.6	15.8!
Utah	69.7	67.9	58.0	20.4
Vermont	‡	‡	‡	‡
Virginia	52.1	80.7	48.4	15.7
Washington	62.1	71.2	52.6	19.3!
West Virginia	57.6	73.5	51.2	20.1
Wisconsin	63.2	83.8	59.2	12.2!
Wyoming	65.0	88.7	60.6	7.0!

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 23-B. Standard errors for table 23-A: Percentage of public school secondary level teachers who taught at least one class in English with an undergraduate or graduate major or minor and certification in English, by state: Academic year 1999–2000

	Total major/minor	Total certification	Major/minor and certification	No major/minor, no certification
United States	0.87	0.85	0.87	0.71
Alabama	4.50	4.22	4.89	3.66
Alaska	4.12	4.56	4.65	3.92
Arizona	6.52	3.96	6.27	4.08
Arkansas	4.97	4.54	5.03	4.51!
California	2.80	4.19	3.25	3.22
Colorado	4.84	4.92	4.28	5.06
Connecticut	5.09	3.87	4.63	3.51
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	4.53	4.66	5.18	3.21
Georgia	4.60	5.55	4.35	5.86
Hawaii	‡	‡	‡	‡
Idaho	2.77	1.58	2.73	1.25
Illinois	4.61	3.78	4.55	3.63!
Indiana	3.42	3.68	3.91	2.90!
Iowa	4.26	3.77	3.87	3.67
Kansas	5.16	4.25	5.20	3.90
Kentucky	5.66	4.03	5.09	4.01
Louisiana	7.68	7.40	7.44	7.32!
Maine	4.47	3.63	4.22	3.75
Maryland	4.13	5.46	4.22	5.44
Massachusetts	7.16	4.47	7.02	4.48!
Michigan	3.67	4.65	5.06	3.20
Minnesota	6.98	6.63	6.56	7.12!
Mississippi	3.84	4.59	4.19	3.70
Missouri	5.49	5.22	4.54	5.48
Montana	3.74	3.43	4.10	3.04
Nebraska	5.36	4.70	5.30	3.81
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	3.34	3.41	3.45	3.26
New Mexico	6.25	8.96	7.88	7.16!
New York	4.37	5.33	5.80	3.04
North Carolina	6.37	6.05	6.47	5.29!
North Dakota	3.37	2.53	3.15	2.51
Ohio	8.24	6.51	7.82	6.81!
Oklahoma	5.22	5.39	4.55	5.78!
Oregon	5.19	4.07	4.95	4.10
Pennsylvania	5.77	5.17	4.93	4.82!
Rhode Island	‡	‡	‡	‡
South Carolina	6.00	4.75	6.30	4.26!
South Dakota	2.73	2.13	3.22	1.99
Tennessee	7.63	6.53	8.34	4.55!
Texas	5.04	4.10	5.28	3.31!
Utah	4.13	5.50	5.18	3.99
Vermont	‡	‡	‡	‡
Virginia	4.48	2.83	4.26	2.80
Washington	4.16	3.17	4.62	3.97!
West Virginia	4.72	3.47	4.43	3.25
Wisconsin	4.57	3.73	4.53	3.38!
Wyoming	4.21	3.12	4.46	2.13!

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 24-A. Percentage of public school secondary level teachers who taught at least one class in mathematics with an undergraduate or graduate major or minor and certification in mathematics, by state: Academic year 1999–2000

	Total major/minor	Total certification	Major/minor and certification	No major/minor, no certification
United States	57.6	70.3	51.6	23.8
Alabama	71.1	74.8	65.0	19.2!
Alaska	45.9	42.1	31.9	44.0
Arizona	53.1	62.8	44.3	28.5
Arkansas	69.7	83.6	67.8	14.5!
California	46.1	62.3	37.2	28.8
Colorado	55.5	56.4	45.6	33.8
Connecticut	42.6	67.7	39.7	29.5
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	52.8	64.2	49.6	32.6
Georgia	46.7	76.1	45.0	22.2!
Hawaii	‡	‡	‡	‡
Idaho	50.4	79.4	48.2	18.4
Illinois	55.1	75.8	53.9	23.0
Indiana	66.0	79.3	63.6	18.2!
Iowa	59.3	76.6	52.6	16.6!
Kansas	52.5	72.8	50.7	25.5
Kentucky	46.8	71.1	41.6	23.7
Louisiana	54.8	65.5	44.7	24.4!
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	61.1	72.2	55.0	21.7
Michigan	55.6	61.3	48.8	31.8
Minnesota	76.2	82.6	71.8	13.0!
Mississippi	42.4	60.8	37.7	34.5
Missouri	58.8	78.7	54.5	17.0!
Montana	68.6	75.9	62.4	17.8
Nebraska	71.2	75.5	64.6	17.9!
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	74.4	81.0	71.7	16.4
New Mexico	‡	‡	‡	‡
New York	65.4	66.1	54.0	22.5
North Carolina	48.7	66.6	41.8	26.4!
North Dakota	65.4	77.5	61.8	18.9
Ohio	68.0	77.0	61.4	16.4!
Oklahoma	63.4	77.3	57.9	17.2!
Oregon	53.7	66.6	50.1	29.8
Pennsylvania	74.2	73.0	67.4	20.3!
Rhode Island	‡	‡	‡	‡
South Carolina	71.2	78.0	63.3	14.1!
South Dakota	69.1	88.7	66.1	8.3!
Tennessee	44.3	69.8	40.5	26.4!
Texas	53.7	62.1	46.4	30.5
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	46.3	71.3	41.7	24.1
Washington	58.4	76.6	54.6	19.6
West Virginia	56.4	81.9	55.5	17.1!
Wisconsin	68.2	91.1	67.9	8.5!
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 24-B. Standard errors for table 24-A: Percentage of public school secondary level teachers who taught at least one class in mathematics with an undergraduate or graduate major or minor and certification in mathematics, by state: Academic year 1999–2000

	Total major/minor	Total certification	Major/minor and certification	No major/minor, no certification
United States	1.01	0.92	1.00	0.88
Alabama	4.67	4.85	4.73	4.25!
Alaska	6.30	4.73	4.54	6.16
Arizona	4.63	4.66	4.02	4.83
Arkansas	5.95	4.55	5.66	4.74!
California	3.53	3.53	3.19	2.90
Colorado	5.45	5.46	5.49	5.06
Connecticut	5.80	4.96	5.60	4.99
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	4.99	5.41	4.87	5.44
Georgia	6.16	5.37	6.17	5.28!
Hawaii	‡	‡	‡	‡
Idaho	3.14	1.90	2.91	1.84
Illinois	5.45	4.44	5.46	4.40
Indiana	4.98	3.68	4.82	3.82!
Iowa	4.99	5.50	4.69	5.19!
Kansas	5.16	5.02	5.04	4.99
Kentucky	4.98	3.96	4.84	3.91
Louisiana	6.07	6.44	6.36	5.84!
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	5.77	3.97	5.57	3.89
Michigan	5.89	5.30	5.69	5.04
Minnesota	5.30	4.20	5.14	3.86!
Mississippi	3.41	4.08	3.19	4.00
Missouri	7.25	6.01	7.01	6.08!
Montana	2.80	2.47	2.70	2.29
Nebraska	4.98	4.73	4.79	4.48!
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	4.27	2.99	4.35	2.84
New Mexico	‡	‡	‡	‡
New York	6.06	4.41	5.94	4.27
North Carolina	7.29	6.96	6.71	6.86!
North Dakota	3.56	2.68	3.55	2.46
Ohio	4.68	5.15	5.47	4.02!
Oklahoma	4.82	3.83	4.59	3.72!
Oregon	4.65	5.84	4.51	5.60
Pennsylvania	5.49	5.39	5.52	5.43!
Rhode Island	‡	‡	‡	‡
South Carolina	4.16	5.07	4.44	4.28!
South Dakota	3.04	2.05	2.83	1.71!
Tennessee	6.39	5.89	5.99	5.98!
Texas	4.39	4.22	3.99	4.80
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	4.17	4.13	4.25	3.89
Washington	4.95	4.22	4.99	3.80
West Virginia	4.60	3.56	4.69	3.47!
Wisconsin	6.76	2.99	6.72	2.98!
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 25-A. Percentage of public school secondary level teachers who taught at least one class in science with an undergraduate or graduate major or minor and certification in science, by state: Academic year 1999–2000

	Total major/minor	Total certification	Major/minor and certification	No major/minor, no certification
United States	68.2	74.0	58.5	16.3
Alabama	61.9	70.2	53.6	21.5!
Alaska	‡	‡	‡	‡
Arizona	56.4	68.3	48.9	24.3!
Arkansas	67.4	85.8	62.4	9.3!
California	71.3	67.6	55.3	16.4
Colorado	79.6	69.3	61.7	12.8!
Connecticut	‡	‡	‡	‡
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	58.1	76.1	53.1	18.9!
Georgia	55.4	75.5	52.4	21.5!
Hawaii	‡	‡	‡	‡
Idaho	77.8	86.9	75.8	11.2
Illinois	71.5	79.1	64.8	14.2!
Indiana	‡	‡	‡	‡
Iowa	76.3	77.1	70.4	17.0!
Kansas	67.4	74.4	59.0	17.1!
Kentucky	‡	‡	‡	‡
Louisiana	44.0!	66.0	35.9	25.9!
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	‡	‡	‡	‡
Michigan	75.1	74.4	58.2	8.7!
Minnesota	79.1	78.9	72.4	14.4!
Mississippi	64.4	77.7	57.5	15.4!
Missouri	69.3	76.0	63.2	18.0!
Montana	67.0	74.5	58.8	17.4!
Nebraska	‡	‡	‡	‡
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	‡	‡	‡	‡
New Mexico	‡	‡	‡	‡
New York	80.3	62.6	58.7	15.9!
North Carolina	‡	‡	‡	‡
North Dakota	78.7	81.9	72.4	11.9!
Ohio	67.3	77.7	57.3	12.3!
Oklahoma	64.5	86.0	60.6	10.1
Oregon	65.5	81.4	55.8	8.9!
Pennsylvania	72.0	78.2	69.5	19.4!
Rhode Island	‡	‡	‡	‡
South Carolina	‡	‡	‡	‡
South Dakota	78.3	92.9	74.6	3.3!
Tennessee	55.0	79.8	48.4	13.6!
Texas	56.4	72.6	47.8	18.8!
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	69.1	76.8	60.2	14.3!
Washington	71.4	85.6	69.1	12.1!
West Virginia	‡	‡	‡	‡
Wisconsin	83.3	85.1	73.6	5.1!
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 25-B. Standard errors for table 25-A: Percentage of public school secondary level teachers who taught at least one class in science with an undergraduate or graduate major or minor and certification in science, by state: Academic year 1999–2000

	Total major/minor	Total certification	Major/minor and certification	No major/minor, no certification
United States	1.25	1.05	1.23	0.97
Alabama	5.32	4.94	5.22	4.77!
Alaska	‡	‡	‡	‡
Arizona	6.74	6.38	6.24	5.27!
Arkansas	5.89	3.04	5.74	2.74!
California	3.89	3.98	4.39	3.28
Colorado	5.38	4.58	5.80	4.14!
Connecticut	‡	‡	‡	‡
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	7.73	5.10	6.98	5.31!
Georgia	7.49	7.10	6.90	7.37!
Hawaii	‡	‡	‡	‡
Idaho	2.28	2.14	2.39	1.97
Illinois	5.58	4.22	5.51	3.93!
Indiana	‡	‡	‡	‡
Iowa	5.31	5.51	5.57	5.27!
Kansas	4.02	5.05	4.82	4.69!
Kentucky	‡	‡	‡	‡
Louisiana	9.27!	8.07	6.33	6.71!
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	‡	‡	‡	‡
Michigan	6.63	4.73	6.33	2.48!
Minnesota	5.40	4.14	5.24	4.14!
Mississippi	4.57	4.22	4.56	4.09!
Missouri	6.68	5.12	7.18	4.09!
Montana	3.50	3.27	3.72	2.83!
Nebraska	‡	‡	‡	‡
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	‡	‡	‡	‡
New Mexico	‡	‡	‡	‡
New York	5.09	6.57	6.42	5.41!
North Carolina	‡	‡	‡	‡
North Dakota	3.65	2.98	3.81	2.67!
Ohio	4.71	6.11	5.24	5.59!
Oklahoma	6.01	2.42	5.91	1.99
Oregon	6.80	6.15	6.35	4.65!
Pennsylvania	5.87	5.60	5.90	5.48!
Rhode Island	‡	‡	‡	‡
South Carolina	‡	‡	‡	‡
South Dakota	3.93	1.59	4.11	0.97!
Tennessee	7.63	5.45	7.36	5.53!
Texas	5.65	4.33	4.88	4.53!
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	4.37	5.37	5.25	4.24!
Washington	5.67	3.80	5.87	3.60!
West Virginia	‡	‡	‡	‡
Wisconsin	4.80	4.83	6.14	1.80!
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 26-A. Percentage of public school secondary level teachers who taught at least one class in social studies with an undergraduate or graduate major or minor and certification in social studies, by state: Academic year 1999–2000

	Total major/minor	Total certification	Major/minor and certification	No major/minor, no certification
United States	70.3	71.8	59.1	16.9
Alabama	67.3	81.4	62.0	13.4!
Alaska	64.3	63.1	51.2	23.8
Arizona	83.1	72.1	65.8	10.6
Arkansas	73.4	75.3	64.1	15.4!
California	74.1	67.2	58.3	17.0
Colorado	77.4	70.4	61.7	13.9!
Connecticut	74.6	70.2	59.0	14.1!
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	76.2	65.1	63.4	22.1!
Georgia	72.0	72.8	62.8	18.0!
Hawaii	‡	‡	‡	‡
Idaho	77.2	79.7	63.8	6.9!
Illinois	74.2	80.2	66.6	12.2!
Indiana	‡	‡	‡	‡
Iowa	74.9	76.6	67.1	15.7!
Kansas	60.1	71.4	54.5	22.9!
Kentucky	‡	‡	‡	‡
Louisiana	54.6	61.2	39.6	23.9!
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	88.0	81.7	77.6	7.9!
Michigan	75.1	64.1	57.1	17.9
Minnesota	87.3	86.4	80.0	6.3!
Mississippi	70.4	88.6	69.1	10.0!
Missouri	64.8	73.3	61.1	23.1
Montana	76.4	76.3	61.9	9.3!
Nebraska	‡	‡	‡	‡
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	75.7	68.7	65.8	21.4
New Mexico	‡	‡	‡	‡
New York	72.8	65.7	59.6	21.1!
North Carolina	‡	‡	‡	‡
North Dakota	85.3	88.8	78.6	4.4!
Ohio	59.3	77.1	55.5	19.1!
Oklahoma	65.8	77.0	60.0	17.2!
Oregon	62.1	67.6	43.4	13.7!
Pennsylvania	57.5	68.5	53.2	27.1!
Rhode Island	‡	‡	‡	‡
South Carolina	‡	‡	‡	‡
South Dakota	66.8	82.5	62.1	12.8!
Tennessee	58.1	72.6	46.0	15.3!
Texas	62.0	65.3	45.7	18.5
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	64.6	71.9	55.6	19.1
Washington	66.6	66.7	53.3	20.1!
West Virginia	63.9	80.9	60.7	15.9
Wisconsin	81.5	87.0	75.7	7.1!
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 26-B. Standard errors for table 26-A: Percentage of public school secondary level teachers who taught at least one class in social studies with an undergraduate or graduate major or minor and certification in social studies, by state: Academic year 1999–2000

	Total major/minor	Total certification	Major/minor and certification	No major/minor, no certification
United States	0.92	1.18	1.04	0.90
Alabama	4.68	3.98	4.67	3.64!
Alaska	2.90	3.44	3.12	2.98
Arizona	2.89	4.33	5.01	2.06
Arkansas	4.78	5.53	5.79	5.04!
California	3.58	4.27	4.57	2.64
Colorado	3.36	4.26	4.47	2.83!
Connecticut	4.28	5.14	5.32	3.02!
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	5.87	6.35	6.49	5.65!
Georgia	6.01	5.90	6.07	5.05!
Hawaii	‡	‡	‡	‡
Idaho	2.50	2.42	2.53	1.81!
Illinois	5.27	4.10	5.17	3.92!
Indiana	‡	‡	‡	‡
Iowa	4.80	3.93	4.88	3.57!
Kansas	5.72	4.85	5.79	4.61!
Kentucky	‡	‡	‡	‡
Louisiana	7.58	7.06	7.48	6.83!
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	4.85	5.00	5.17	4.73!
Michigan	4.82	3.82	4.80	3.20
Minnesota	5.11	4.45	5.09	4.04!
Mississippi	3.30	2.41	3.40	2.30!
Missouri	4.99	4.71	5.13	4.38
Montana	3.15	3.29	3.47	2.43!
Nebraska	‡	‡	‡	‡
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	3.86	6.27	6.34	3.56
New Mexico	‡	‡	‡	‡
New York	4.81	4.81	4.27	4.57!
North Carolina	‡	‡	‡	‡
North Dakota	3.17	2.06	3.69	1.16!
Ohio	6.97	4.60	7.14	4.53!
Oklahoma	5.00	5.20	4.55	5.61!
Oregon	8.03	7.74	4.34	3.40!
Pennsylvania	6.45	7.46	6.07	7.84!
Rhode Island	‡	‡	‡	‡
South Carolina	‡	‡	‡	‡
South Dakota	3.73	2.74	3.63	2.58!
Tennessee	8.85	6.73	6.91	6.13!
Texas	4.42	4.47	4.24	3.57
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	3.94	3.38	4.28	3.18
Washington	4.65	4.47	4.99	4.07!
West Virginia	4.82	3.14	5.16	2.85
Wisconsin	5.36	3.12	5.48	2.87!
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 27-A. Percentage of English classes taught by public school secondary level teachers with an undergraduate or graduate major or minor and certification in English, by state: Academic year 1999–2000

	Total major/minor	Total certification	Major/minor and certification	No major/minor, no certification
United States	68.3	78.7	60.4	13.4
Alabama	55.5	72.5	49.5	21.6
Alaska	65.7	76.3	61.4	19.4
Arizona	56.8	79.3	53.7	17.6!
Arkansas	77.6	84.3	73.8	11.9!
California	70.6	72.2	56.1	13.3
Colorado	74.3	76.5	66.5	15.8!
Connecticut	68.1	77.7	61.1	15.4
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	69.3	71.4	61.2	20.5
Georgia	58.4	75.5	56.3	22.3!
Hawaii	‡	‡	‡	‡
Idaho	62.9	89.8	57.9	5.1
Illinois	67.2	88.2	65.8	10.4!
Indiana	88.2	90.5	83.1	4.3!
Iowa	75.8	79.9	70.2	14.5!
Kansas	74.6	78.2	66.9	14.1!
Kentucky	56.0	71.5	46.9	19.4!
Louisiana	47.2	74.0	42.9!	21.8!
Maine	69.2	75.5	62.1	17.5
Maryland	57.4	75.2	54.6	22.0
Massachusetts	74.8	87.4	67.5	5.2!
Michigan	83.6	77.4	70.1	9.2!
Minnesota	81.2	91.3	78.1	5.6!
Mississippi	57.7	68.0	48.6	22.9
Missouri	58.7	77.2	57.2	21.2!
Montana	73.5	85.8	69.2	9.9
Nebraska	71.4	82.8	64.6	10.4!
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	79.5	82.2	73.7	12.0
New Mexico	59.2	67.4!	44.9	18.3!
New York	76.3	67.8	56.6	12.6!
North Carolina	81.7	72.6	63.4	9.2!
North Dakota	71.3	89.5	68.5	7.8
Ohio	53.8	73.9	44.8	17.1!
Oklahoma	57.9	82.3	52.0	11.7!
Oregon	66.3	79.6	64.8	18.8!
Pennsylvania	76.2	78.6	66.5	11.7!
Rhode Island	‡	‡	‡	‡
South Carolina	56.3	85.7	49.4	7.4!
South Dakota	72.3	86.0	68.3	10.0
Tennessee	65.2	87.6	62.4	9.5!
Texas	63.1	82.5	56.9	11.4!
Utah	75.2	77.0	66.6	14.4!
Vermont	‡	‡	‡	‡
Virginia	60.6	83.8	57.1	12.7!
Washington	73.7	81.5	64.7	9.5!
West Virginia	60.9	80.3	54.8	13.6!
Wisconsin	75.9	89.8	71.6	5.9!
Wyoming	74.3	93.6	70.8	2.8!

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 27-B. Standard errors for table 27-A: Percentage of English classes taught by public school secondary level teachers with an undergraduate or graduate major or minor and certification in English, by state: Academic year 1999–2000

	Total major/minor	Total certification	Major/minor and certification	No major/minor, no certification
United States	0.97	0.80	0.99	0.67
Alabama	5.22	4.82	5.81	3.51
Alaska	4.64	3.78	5.03	3.21
Arizona	5.73	4.56	5.65	4.59!
Arkansas	4.22	3.67	4.49	3.43!
California	3.05	3.52	3.42	2.62
Colorado	4.21	4.08	4.21	3.69!
Connecticut	4.81	3.44	4.30	3.04
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	4.90	6.22	6.62	3.60
Georgia	4.66	4.46	4.42	4.93!
Hawaii	‡	‡	‡	‡
Idaho	3.12	1.01	2.92	0.74
Illinois	4.39	3.36	4.28	3.36!
Indiana	2.03	2.92	3.07	1.26!
Iowa	4.75	4.26	4.68	4.13!
Kansas	4.48	3.67	4.86	2.98!
Kentucky	5.68	4.81	5.49	4.57!
Louisiana	8.44	6.55	8.74!	6.08!
Maine	4.22	3.32	4.10	3.12
Maryland	5.09	4.41	5.22	4.31
Massachusetts	5.06	2.18	5.23	1.59!
Michigan	3.41	4.57	5.67	2.39!
Minnesota	5.65	2.61	5.89	2.46!
Mississippi	4.29	4.49	4.29	4.08
Missouri	6.74	6.70	6.55	6.80!
Montana	3.10	2.24	3.38	1.82
Nebraska	5.27	4.86	6.10	3.33!
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	2.56	2.32	2.80	2.02
New Mexico	8.33	13.55!	10.27	8.44!
New York	4.76	5.04	6.14	3.02!
North Carolina	4.66	6.46	6.72	3.07!
North Dakota	2.79	1.49	2.64	1.41
Ohio	8.57	5.94	8.39	5.80!
Oklahoma	6.64	4.15	6.23	3.97!
Oregon	6.51	6.09	6.35	6.20!
Pennsylvania	5.83	4.82	4.66	4.05!
Rhode Island	‡	‡	‡	‡
South Carolina	8.01	3.25	7.64	2.86!
South Dakota	2.54	1.85	2.84	1.75
Tennessee	7.70	3.37	8.04	2.38!
Texas	5.78	3.56	5.62	3.40!
Utah	4.35	4.66	5.19	3.22!
Vermont	‡	‡	‡	‡
Virginia	4.79	2.92	4.55	2.82!
Washington	3.85	2.70	4.82	2.32!
West Virginia	5.16	3.43	4.68	3.23!
Wisconsin	3.68	3.19	3.84	1.65!
Wyoming	4.19	2.07	4.17	0.97!

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 28-A. Percentage of mathematics classes taught by public school secondary level teachers with an undergraduate or graduate major or minor and certification in mathematics, by state: Academic year 1999–2000

	Total major/minor	Total certification	Major/minor and certification	No major/minor, no certification
United States	66.5	77.2	60.2	16.5
Alabama	78.4	81.3	73.0	13.3!
Alaska	58.0	58.0	50.9	34.9!
Arizona	58.8	70.8	50.5	20.9
Arkansas	75.4	87.7	73.2	10.1!
California	58.7	66.9	46.8	21.2
Colorado	72.4	67.7	59.8	19.6
Connecticut	50.4	80.4	48.3	17.6!
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	56.4	69.9	52.1	25.8!
Georgia	61.9	82.5	58.9	14.5!
Hawaii	‡	‡	‡	‡
Idaho	‡	‡	‡	‡
Illinois	64.3	85.2	62.9	13.4!
Indiana	78.3	90.9	76.1	6.9!
Iowa	68.9	82.0	61.0	10.1!
Kansas	67.6	82.8	65.1	14.7!
Kentucky	52.4	75.3	47.2	19.4!
Louisiana	58.5	73.3	49.0	17.3!
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	74.1	83.4	67.9	10.4!
Michigan	64.6	63.0	57.7	30.0!
Minnesota	81.3	88.2	77.4	7.9!
Mississippi	58.3	71.7	51.1	21.1
Missouri	64.0	82.6	59.9	13.4!
Montana	84.7	87.0	77.7	5.9
Nebraska	85.9	87.4	79.9	6.6!
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	78.8	85.2	75.7	11.7!
New Mexico	‡	‡	‡	‡
New York	75.2	72.1	61.6	14.4
North Carolina	63.4	74.6	54.0	16.0!
North Dakota	78.5	87.1	75.5	10.0
Ohio	75.3	82.9	67.7	9.5!
Oklahoma	72.2	83.5	66.6	10.9!
Oregon	70.5	83.2	67.7	14.0!
Pennsylvania	85.2	86.3	80.3	8.9!
Rhode Island	‡	‡	‡	‡
South Carolina	74.7	80.0	66.9	12.2!
South Dakota	75.4	94.3	73.0	3.3!
Tennessee	45.0	77.7	40.5	17.8!
Texas	57.3	66.8	51.1	27.0!
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	56.1	79.2	50.2	15.0!
Washington	65.0	84.0	62.1	13.1!
West Virginia	‡	‡	‡	‡
Wisconsin	‡	‡	‡	‡
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 28-B. Standard errors for table 28-A: Percentage of mathematics classes taught by public school secondary level teachers with an undergraduate or graduate major or minor and certification in mathematics, by state: Academic year 1999–2000

	Total major/minor	Total certification	Major/minor and certification	No major/minor, no certification
United States	1.14	1.10	1.19	1.03
Alabama	3.87	3.96	4.26	2.80!
Alaska	8.53	7.17	7.21	8.46!
Arizona	4.60	4.06	4.18	4.06
Arkansas	5.86	4.42	5.64	4.44!
California	4.32	4.23	4.33	2.80
Colorado	4.20	4.77	5.00	3.66
Connecticut	6.15	4.69	6.03	4.56!
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	6.11	5.54	5.92	5.47!
Georgia	7.76	4.52	7.81	4.10!
Hawaii	‡	‡	‡	‡
Idaho	‡	‡	‡	‡
Illinois	5.61	3.84	5.64	3.73!
Indiana	3.75	1.92	3.82	1.85!
Iowa	4.95	4.87	4.69	4.28!
Kansas	4.79	3.68	4.55	3.61!
Kentucky	6.11	3.90	5.92	3.91!
Louisiana	7.25	6.60	7.30	5.80!
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	4.05	2.71	3.95	2.57!
Michigan	8.80	8.11	8.31	8.38!
Minnesota	5.31	3.24	5.36	2.48!
Mississippi	3.93	3.53	3.95	3.25
Missouri	8.01	6.14	7.68	6.10!
Montana	2.69	1.58	3.01	1.05
Nebraska	3.59	3.40	3.75	2.40!
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	4.31	2.78	4.38	2.48!
New Mexico	‡	‡	‡	‡
New York	4.92	3.62	5.34	2.72
North Carolina	6.36	4.73	5.98	4.24!
North Dakota	3.37	1.68	3.37	1.48
Ohio	6.15	5.60	6.92	3.62!
Oklahoma	6.23	4.27	6.02	4.15!
Oregon	4.73	4.01	4.58	3.83!
Pennsylvania	3.88	3.03	4.14	2.69!
Rhode Island	‡	‡	‡	‡
South Carolina	4.96	5.36	4.99	4.23!
South Dakota	3.54	1.28	3.44	0.67!
Tennessee	6.63	5.51	6.10	5.50!
Texas	5.16	5.85	4.86	6.15!
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	4.61	4.48	4.93	3.49!
Washington	4.75	3.32	4.79	2.92!
West Virginia	‡	‡	‡	‡
Wisconsin	‡	‡	‡	‡
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 29-A. Percentage of science classes taught by public school secondary level teachers with an undergraduate or graduate major or minor and certification in science, by state: Academic year 1999–2000

	Total major/minor	Total certification	Major/minor and certification	No major/minor, no certification
United States	74.2	80.0	64.8	10.6
Alabama	71.7	80.3	63.0	11.0!
Alaska	‡	‡	‡	‡
Arizona	61.0	76.8	57.4	19.5!
Arkansas	74.1	89.4	69.2	5.7!
California	78.4	73.3	62.2	10.5!
Colorado	83.0	72.4	64.0	8.6!
Connecticut	‡	‡	‡	‡
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	61.4	87.8	56.5	7.3!
Georgia	‡	‡	‡	‡
Hawaii	‡	‡	‡	‡
Idaho	86.7	93.2	85.9	6.1!
Illinois	80.2	81.9	71.5	9.4!
Indiana	‡	‡	‡	‡
Iowa	‡	‡	‡	‡
Kansas	83.3	83.2	74.3	7.7!
Kentucky	‡	‡	‡	‡
Louisiana	45.6!	75.9	40.9!	19.3!
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	‡	‡	‡	‡
Michigan	84.4	76.8	66.9	5.6!
Minnesota	89.0	86.8	81.9	6.1!
Mississippi	67.4	86.1	62.0	8.5!
Missouri	79.2	80.6	71.6	11.8!
Montana	71.4	73.9	63.0	17.7!
Nebraska	‡	‡	‡	‡
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	‡	‡	‡	‡
New Mexico	‡	‡	‡	‡
New York	82.2	67.3	61.8	12.3!
North Carolina	‡	‡	‡	‡
North Dakota	‡	‡	‡	‡
Ohio	71.5	81.4	63.2	10.3!
Oklahoma	70.3	91.3	67.8	6.1!
Oregon	76.4	87.0	68.2	4.8!
Pennsylvania	76.9	83.1	74.3	14.3!
Rhode Island	‡	‡	‡	‡
South Carolina	‡	‡	‡	‡
South Dakota	86.1	95.0	83.7	2.6!
Tennessee	55.3	87.5	49.0	6.3!
Texas	64.2	83.4	56.5	8.9!
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	73.4	81.6	64.0	8.9!
Washington	‡	‡	‡	‡
West Virginia	‡	‡	‡	‡
Wisconsin	87.2	89.6	79.4	2.5!
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 29-B. Standard errors for table 29-A: Percentage of science classes taught by public school secondary level teachers with an undergraduate or graduate major or minor and certification in science, by state: Academic year 1999–2000

	Total major/minor	Total certification	Major/minor and certification	No major/minor, no certification
United States	1.25	1.03	1.39	0.75
Alabama	5.46	4.34	5.56	3.13!
Alaska	‡	‡	‡	‡
Arizona	6.93	5.20	6.67	4.92!
Arkansas	5.68	3.33	5.96	2.10!
California	3.22	3.74	4.22	2.34!
Colorado	4.92	5.35	5.89	3.78!
Connecticut	‡	‡	‡	‡
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	9.69	2.66	8.90	2.18!
Georgia	‡	‡	‡	‡
Hawaii	‡	‡	‡	‡
Idaho	1.87	1.35	1.92	1.27!
Illinois	4.05	3.55	4.54	2.41!
Indiana	‡	‡	‡	‡
Iowa	‡	‡	‡	‡
Kansas	3.09	3.83	4.62	2.52!
Kentucky	‡	‡	‡	‡
Louisiana	10.67!	8.21	8.48!	6.49!
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	‡	‡	‡	‡
Michigan	4.40	6.54	7.17	2.43!
Minnesota	3.51	2.93	3.83	2.12!
Mississippi	4.99	2.72	4.94	2.33!
Missouri	6.64	5.44	7.33	4.38!
Montana	4.88	4.84	4.58	5.11!
Nebraska	‡	‡	‡	‡
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	‡	‡	‡	‡
New Mexico	‡	‡	‡	‡
New York	4.56	7.01	7.46	4.26!
North Carolina	‡	‡	‡	‡
North Dakota	‡	‡	‡	‡
Ohio	5.07	5.78	5.65	5.38!
Oklahoma	6.70	2.08	6.66	1.97!
Oregon	6.67	5.14	6.65	2.26!
Pennsylvania	6.75	5.59	6.86	5.37!
Rhode Island	‡	‡	‡	‡
South Carolina	‡	‡	‡	‡
South Dakota	3.32	1.22	3.41	0.81!
Tennessee	9.47	2.87	8.96	2.16!
Texas	5.60	2.79	5.26	2.20!
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	4.55	4.59	5.61	2.60!
Washington	‡	‡	‡	‡
West Virginia	‡	‡	‡	‡
Wisconsin	4.42	3.74	5.56	0.98!
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 30-A. Percentage of social studies classes taught by public school secondary level teachers with an undergraduate or graduate major or minor and certification in social studies, by state: Academic year 1999–2000

	Total major/minor	Total certification	Major/minor and certification	No major/minor, no certification
United States	78.2	79.3	67.9	10.4
Alabama	73.5	86.8	69.1	8.8!
Alaska	72.1	72.5	60.1	15.4!
Arizona	87.0	75.4	70.2	7.8!
Arkansas	‡	‡	‡	‡
California	80.9	74.5	66.6	11.1!
Colorado	79.2	76.7	65.4	9.5!
Connecticut	‡	‡	‡	‡
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	84.8	70.5	67.9	12.7!
Georgia	71.1	77.1	64.0	15.9!
Hawaii	‡	‡	‡	‡
Idaho	82.8	83.7	71.3	4.8!
Illinois	89.8	84.3	80.0	5.8!
Indiana	‡	‡	‡	‡
Iowa	86.5	82.8	75.5	6.3!
Kansas	77.3	83.1	73.4	13.0!
Kentucky	‡	‡	‡	‡
Louisiana	66.3	63.6	44.3!	14.3!
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	92.8	89.4	84.9	2.7!
Michigan	76.8	68.7	61.0	15.5!
Minnesota	96.2	92.6	90.6	1.9!
Mississippi	76.3	93.7	75.0	5.0!
Missouri	80.2	85.1	76.3	11.0!
Montana	80.0	87.6	71.6	4.0!
Nebraska	‡	‡	‡	‡
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	‡	‡	‡	‡
New Mexico	‡	‡	‡	‡
New York	83.8	74.3	70.9	12.8!
North Carolina	‡	‡	‡	‡
North Dakota	87.3	90.6	81.5	3.7!
Ohio	‡	‡	‡	‡
Oklahoma	74.5	88.9	69.0	5.6!
Oregon	71.2	81.1	59.5	7.2!
Pennsylvania	68.8	76.8	63.4	17.8!
Rhode Island	‡	‡	‡	‡
South Carolina	‡	‡	‡	‡
South Dakota	70.7	87.3	68.2	10.2!
Tennessee	64.2	78.9	53.8	10.7!
Texas	70.3	75.0	56.9	11.6
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	73.5	71.9	62.2	16.8!
Washington	79.7	71.8	64.6	13.1!
West Virginia	73.5	84.6	71.8	13.6!
Wisconsin	84.5	89.8	78.8	4.6!
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 30-B. Standard errors for table 30-A: Percentage of social studies classes taught by public school secondary level teachers with an undergraduate or graduate major or minor and certification in social studies, by state: Academic year 1999–2000

	Total major/minor	Total certification	Major/minor and certification	No major/minor, no certification
United States	0.86	1.10	1.09	0.68
Alabama	5.36	4.51	5.44	4.06!
Alaska	3.29	3.92	3.65	3.34!
Arizona	2.41	4.67	4.88	1.78!
Arkansas	‡	‡	‡	‡
California	4.23	5.03	5.90	2.47!
Colorado	4.09	4.31	4.99	2.14!
Connecticut	‡	‡	‡	‡
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	4.93	6.21	6.40	4.36!
Georgia	7.45	5.60	6.86	5.54!
Hawaii	‡	‡	‡	‡
Idaho	2.84	2.13	2.62	1.23!
Illinois	2.39	3.22	3.53	1.76!
Indiana	‡	‡	‡	‡
Iowa	3.18	5.02	5.01	2.13!
Kansas	4.01	3.74	4.30	3.66!
Kentucky	‡	‡	‡	‡
Louisiana	7.12	8.00	8.95!	4.38!
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	2.24	2.60	3.18	1.68!
Michigan	4.85	4.88	5.53	3.58!
Minnesota	1.65	2.62	2.90	1.24!
Mississippi	3.32	1.58	3.42	1.29!
Missouri	4.11	3.66	4.75	3.01!
Montana	3.00	2.33	3.42	1.15!
Nebraska	‡	‡	‡	‡
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	‡	‡	‡	‡
New Mexico	‡	‡	‡	‡
New York	3.03	4.80	4.68	3.38!
North Carolina	‡	‡	‡	‡
North Dakota	2.89	2.03	3.48	1.24!
Ohio	‡	‡	‡	‡
Oklahoma	5.57	2.30	5.71	1.74!
Oregon	6.55	5.94	4.49	1.54!
Pennsylvania	6.90	6.60	6.58	6.96!
Rhode Island	‡	‡	‡	‡
South Carolina	‡	‡	‡	‡
South Dakota	4.17	2.90	4.10	2.76!
Tennessee	9.32	5.83	7.54	5.31!
Texas	4.36	3.71	4.62	2.18
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	3.94	4.20	4.64	3.57!
Washington	4.19	4.60	5.42	3.28!
West Virginia	4.36	3.46	4.49	3.34!
Wisconsin	5.36	2.95	5.68	2.49!
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 31-A. Percentage of English students taught by public school secondary level teachers with an undergraduate or graduate major or minor and certification in English, by state: Academic year 1999–2000

	Total major/minor	Total certification	Major/minor and certification	No major/minor, no certification
United States	70.0	81.5	62.7	11.1
Alabama	61.0	79.7	55.6	14.9
Alaska	67.0	77.5	63.3	18.9
Arizona	59.4	81.8	56.5	15.4!
Arkansas	81.4	87.0	78.0	9.7!
California	72.0	75.1	57.7	10.7
Colorado	75.8	75.6	67.1	15.6!
Connecticut	67.7	77.3	60.5	15.6!
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	74.3	79.0	68.5	15.2
Georgia	59.7	78.7	58.1	19.7!
Hawaii	‡	‡	‡	‡
Idaho	64.6	90.8	59.5	4.1
Illinois	63.5	88.0	62.5	11.0!
Indiana	88.8	90.4	82.8	3.6!
Iowa	78.7	82.6	74.2	12.9!
Kansas	73.2	81.3	66.4	11.9!
Kentucky	57.3	74.5	49.0	17.2!
Louisiana	48.6	77.9	44.8!	18.4!
Maine	74.2	79.8	66.7	12.6!
Maryland	59.1	77.9	57.0	20.0!
Massachusetts	76.0	89.6	69.5	4.0!
Michigan	87.8	83.3	76.5	5.5!
Minnesota	82.4	93.3	80.1	4.4!
Mississippi	56.8	68.8	48.4	22.7!
Missouri	61.6	80.7	60.5	18.2!
Montana	74.2	87.0	70.0	8.8
Nebraska	72.9	83.3	65.6	9.4!
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	84.0	88.9	49.4!	7.4
New Mexico	61.0	74.1	49.4	14.4!
New York	77.0	69.4	57.5	11.1!
North Carolina	83.0	75.1	66.2	8.1!
North Dakota	74.6	92.8	71.0	3.7!
Ohio	56.3	76.5	48.6	15.8!
Oklahoma	57.9	86.5	52.5	8.2!
Oregon	69.7	80.9	68.1	17.5!
Pennsylvania	75.1	81.3	66.6	10.2!
Rhode Island	‡	‡	‡	‡
South Carolina	56.6	87.6	50.3	6.1!
South Dakota	73.7	87.2	69.6	8.7!
Tennessee	68.0	89.5	65.1	7.6!
Texas	65.4	85.5	59.3	8.4!
Utah	80.3	82.8	72.6	9.6!
Vermont	‡	‡	‡	‡
Virginia	62.0	87.3	59.7	10.4!
Washington	75.5	84.7	67.5	7.2!
West Virginia	62.3	82.5	55.9	11.2!
Wisconsin	75.7	92.1	72.0	4.2!
Wyoming	73.0	95.6	70.7	2.1!

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 31-B. Standard errors for table 31-A: percentage of English students taught by public school secondary level teachers with an undergraduate or graduate major or minor and certification in English, by state: Academic year 1999–2000

	Total major/minor	Total certification	Major/minor and certification	No major/minor, no certification
United States	1.05	0.78	1.09	0.64
Alabama	5.92	4.24	6.57	2.83
Alaska	4.28	3.62	4.51	3.20
Arizona	6.15	5.29	6.03	5.39!
Arkansas	4.81	4.26	5.19	3.99!
California	3.33	3.41	3.74	2.02
Colorado	4.36	4.35	4.39	3.91!
Connecticut	4.88	3.89	4.68	3.40!
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	4.69	4.67	5.74	2.91
Georgia	4.52	4.00	4.44	4.38!
Hawaii	‡	‡	‡	‡
Idaho	3.31	0.96	3.07	0.66
Illinois	4.91	4.29	4.79	4.28!
Indiana	2.11	3.27	3.36	1.23!
Iowa	4.44	4.24	4.44	4.12!
Kansas	6.00	3.99	6.16	3.06!
Kentucky	5.41	4.97	5.36	4.65!
Louisiana	9.28	6.67	9.55!	6.15!
Maine	4.14	2.94	4.04	2.55!
Maryland	5.46	4.22	5.56	4.22!
Massachusetts	5.72	1.97	5.91	1.34!
Michigan	3.03	3.86	5.04	1.57!
Minnesota	5.74	2.13	5.96	1.95!
Mississippi	4.81	4.75	4.68	4.63!
Missouri	5.89	4.82	5.82	4.78!
Montana	3.21	2.36	3.70	1.73
Nebraska	5.82	5.84	7.08	3.96!
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	2.20	1.77	2.42	1.39
New Mexico	7.82	12.49	10.47!	7.98!
New York	5.28	5.51	6.45	3.37!
North Carolina	5.16	6.68	7.05	3.62!
North Dakota	2.98	1.57	2.76	1.45!
Ohio	8.60	5.57	8.75	5.26!
Oklahoma	9.84	3.95	9.06	3.25!
Oregon	6.68	7.07	6.51	7.20!
Pennsylvania	6.36	4.69	5.17	4.11!
Rhode Island	‡	‡	‡	‡
South Carolina	8.27	3.07	8.23	2.53!
South Dakota	2.47	2.01	2.62	1.99!
Tennessee	7.78	3.48	8.18	2.43!
Texas	5.43	2.89	5.46	2.18!
Utah	4.53	4.29	5.43	2.69!
Vermont	‡	‡	‡	‡
Virginia	4.37	2.94	4.23	2.92!
Washington	4.16	2.73	4.90	1.77!
West Virginia	6.18	3.86	5.57	3.35!
Wisconsin	4.39	2.65	4.18	1.29!
Wyoming	4.55	1.31	4.53	0.77!

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 32-A. Percentage of mathematics students taught by public school secondary level teachers with an undergraduate or graduate major or minor and certification in mathematics, by state: Academic year 1999–2000

	Total major/minor	Total certification	Major/minor and certification	No major/minor, no certification
United States	68.3	79.8	61.9	13.8
Alabama	80.7	85.5	75.7	9.5!
Alaska	68.4	68.7	60.3	23.2
Arizona	60.9	73.6	53.3	18.8!
Arkansas	74.9	88.2	72.3	9.3!
California	59.7	69.7	47.8	18.4
Colorado	77.8	68.1	61.4	15.5!
Connecticut	51.8	80.3	49.7	17.7!
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	61.3	77.4	58.0	19.4!
Georgia	63.9	83.0	59.6	12.7!
Hawaii	‡	‡	‡	‡
Idaho	59.1	88.2	58.4	11.2
Illinois	64.7	86.1	62.0	11.2!
Indiana	78.7	92.8	76.9	5.4!
Iowa	70.3	86.4	63.5	6.8!
Kansas	64.3	82.7	61.5	14.5!
Kentucky	52.6	74.5	46.9	19.8!
Louisiana	59.4	74.8	49.5	15.3!
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	73.8	86.3	67.9	7.8!
Michigan	64.5	66.1	59.0	28.4!
Minnesota	83.8	91.5	80.2	4.9!
Mississippi	59.7	74.5	52.8	18.6
Missouri	65.2	82.4	61.5	13.9!
Montana	85.3	90.1	79.7	4.3
Nebraska	88.1	89.8	83.1	5.2!
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	85.1	91.5	83.0	6.4!
New Mexico	‡	‡	‡	‡
New York	76.0	75.4	63.7	12.3!
North Carolina	65.1	77.0	54.7	12.6!
North Dakota	80.6	90.1	77.8	7.1
Ohio	78.0	83.0	71.0	10.0!
Oklahoma	72.2	84.7	67.4	10.4!
Oregon	69.7	86.3	67.9	11.9!
Pennsylvania	86.7	88.0	81.7	7.0!
Rhode Island	‡	‡	‡	‡
South Carolina	73.3	79.2	65.4	12.8!
South Dakota	76.7	96.5	75.8	2.6!
Tennessee	44.9	82.4	40.3	13.0!
Texas	64.5	73.2	58.0	20.2!
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	56.8	82.6	50.3	11.0!
Washington	68.6	86.9	65.5	10.0!
West Virginia	62.3	86.5	62.2	13.4!
Wisconsin	‡	‡	‡	‡
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 32-B. Standard errors for table 32-A: percentage of mathematics students taught by public school secondary level teachers with an undergraduate or graduate major or minor and certification in mathematics, by state: Academic year 1999–2000

	Total major/minor	Total certification	Major/minor and certification	No major/minor, no certification
United States	1.16	1.15	1.26	1.00
Alabama	4.23	3.56	4.45	2.36!
Alaska	5.44	4.18	4.89	4.62
Arizona	4.74	3.99	4.24	4.08!
Arkansas	6.86	5.54	6.65	5.46!
California	4.72	4.51	4.85	2.89
Colorado	4.20	6.66	6.61	3.41!
Connecticut	6.27	5.06	6.13	5.00!
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	5.90	4.46	5.76	4.34!
Georgia	7.95	5.20	8.53	4.19!
Hawaii	‡	‡	‡	‡
Idaho	3.37	2.24	3.35	2.21
Illinois	6.03	4.52	6.10	4.12!
Indiana	4.13	1.77	4.17	1.73!
Iowa	5.38	3.94	5.34	2.76!
Kansas	6.21	4.74	5.71	4.75!
Kentucky	6.91	4.08	6.60	4.06!
Louisiana	7.68	6.69	7.71	5.61!
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	4.32	2.29	4.24	2.04!
Michigan	9.77	9.14	9.35	9.32!
Minnesota	5.80	2.56	5.67	1.87!
Mississippi	4.21	3.44	4.26	3.13
Missouri	7.78	6.40	7.54	6.36!
Montana	3.46	1.86	3.98	0.87
Nebraska	3.53	3.24	3.64	2.45!
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	3.98	1.99	4.06	1.78!
New Mexico	‡	‡	‡	‡
New York	5.61	4.00	6.09	3.04!
North Carolina	7.70	4.93	7.02	4.55!
North Dakota	3.80	1.50	3.75	1.30
Ohio	5.29	5.84	6.13	4.53!
Oklahoma	7.20	4.63	6.94	4.66!
Oregon	4.93	3.69	4.96	3.61!
Pennsylvania	4.27	3.18	4.42	2.91!
Rhode Island	‡	‡	‡	‡
South Carolina	5.30	5.51	5.24	4.53!
South Dakota	3.89	0.76	3.84	0.55!
Tennessee	7.19	4.39	6.56	4.13!
Texas	5.56	5.47	5.72	5.34!
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	4.75	4.33	5.10	2.81!
Washington	4.88	3.06	4.99	2.64!
West Virginia	6.16	5.03	6.19	5.02!
Wisconsin	‡	‡	‡	‡
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 33-A. Percentage of science students taught by public school secondary level teachers with an undergraduate or graduate major or minor and certification in science, by state: Academic year 1999–2000

	Total major/minor	Total certification	Major/minor and certification	No major/minor, no certification
United States	74.7	81.2	65.1	9.3
Alabama	70.4	79.0	61.5	12.1!
Alaska	‡	‡	‡	‡
Arizona	59.9	79.0	56.4	17.5!
Arkansas	70.7	90.4	66.2	5.1!
California	79.3	73.9	62.5	9.3!
Colorado	83.3	74.9	66.6	8.4!
Connecticut	‡	‡	‡	‡
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	62.7	90.1	58.7	5.9!
Georgia	‡	‡	‡	‡
Hawaii	‡	‡	‡	‡
Idaho	86.8	93.8	86.3	5.7!
Illinois	83.9	84.4	74.9	6.5!
Indiana	‡	‡	‡	‡
Iowa	87.7	90.0	84.8	7.1!
Kansas	86.1	83.1	73.5	4.3!
Kentucky	‡	‡	‡	‡
Louisiana	46.6!	76.9	41.7!	18.1!
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	‡	‡	‡	‡
Michigan	85.6	80.1	69.8	4.1!
Minnesota	89.2	88.2	83.3	5.9!
Mississippi	67.4	85.6	61.6	8.6!
Missouri	80.9	82.8	73.0	9.3!
Montana	75.2	80.9	68.4	12.2!
Nebraska	‡	‡	‡	‡
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	‡	‡	‡	‡
New Mexico	‡	‡	‡	‡
New York	81.5	68.8	59.9	9.6!
North Carolina	‡	‡	‡	‡
North Dakota	87.2	89.4	83.4	6.8!
Ohio	71.4	79.1	62.0	11.6!
Oklahoma	72.1	93.9	69.9	3.9!
Oregon	77.5	88.3	69.4	3.6!
Pennsylvania	76.1	82.8	73.4	14.4!
Rhode Island	‡	‡	‡	‡
South Carolina	‡	‡	‡	‡
South Dakota	87.1	95.7	85.2	2.4!
Tennessee	52.0	87.8	45.9!	6.2!
Texas	63.4	83.1	55.5	9.0!
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	75.1	85.6	66.4	5.8!
Washington	‡	‡	‡	‡
West Virginia	‡	‡	‡	‡
Wisconsin	87.8	91.5	81.2	1.9!
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 33-B. Standard errors for table 33-A: percentage of science classes taught by public school secondary level teachers with an undergraduate or graduate major or minor and certification in science, by state: Academic year 1999–2000

	Total major/minor	Total certification	Major/minor and certification	No major/minor, no certification
United States	1.36	1.04	1.50	0.73
Alabama	5.90	4.96	5.74	4.11!
Alaska	‡	‡	‡	‡
Arizona	7.91	5.39	7.55	5.10!
Arkansas	7.00	3.43	7.23	2.15!
California	3.27	4.03	4.36	2.35!
Colorado	4.97	4.81	5.75	3.73!
Connecticut	‡	‡	‡	‡
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	10.33	2.49	9.60	2.05!
Georgia	‡	‡	‡	‡
Hawaii	‡	‡	‡	‡
Idaho	1.87	1.26	1.89	1.23!
Illinois	3.85	3.34	4.53	1.93!
Indiana	‡	‡	‡	‡
Iowa	3.78	3.04	3.98	2.90!
Kansas	3.24	4.83	5.93	1.44!
Kentucky	‡	‡	‡	‡
Louisiana	11.06!	8.37	8.66!	6.47!
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	‡	‡	‡	‡
Michigan	4.33	6.40	7.29	1.85!
Minnesota	3.23	2.77	3.55	1.96!
Mississippi	5.28	3.17	5.38	2.67!
Missouri	6.57	5.18	7.49	3.77!
Montana	3.39	3.28	3.75	2.81!
Nebraska	‡	‡	‡	‡
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	‡	‡	‡	‡
New Mexico	‡	‡	‡	‡
New York	5.93	7.12	8.61	3.84!
North Carolina	‡	‡	‡	‡
North Dakota	2.94	1.95	3.22	1.40!
Ohio	5.11	6.50	5.68	6.11!
Oklahoma	7.26	1.57	7.30	1.21!
Oregon	7.34	5.26	7.37	1.92!
Pennsylvania	8.29	7.03	8.36	6.83!
Rhode Island	‡	‡	‡	‡
South Carolina	‡	‡	‡	‡
South Dakota	3.21	1.20	3.31	0.84!
Tennessee	9.72	2.90	9.21!	2.23!
Texas	6.11	3.67	5.65	3.09!
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	4.76	4.35	5.95	1.86!
Washington	‡	‡	‡	‡
West Virginia	‡	‡	‡	‡
Wisconsin	4.66	3.28	5.47	1.01!
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 34-A. Percentage of social studies students taught by public school secondary level teachers with an undergraduate or graduate major or minor and certification in social studies, by state: Academic year 1999–2000

	Total major/minor	Total certification	Major/minor and certification	No major/minor, no certification
United States	79.3	81.4	69.3	8.7
Alabama	74.9	87.5	70.1	7.7!
Alaska	77.3	78.6	66.3	10.4!
Arizona	86.0	78.6	72.4	7.7!
Arkansas	80.6	80.4	70.3	9.3!
California	83.1	77.0	68.9	8.7!
Colorado	79.9	76.7	65.3	8.7!
Connecticut	‡	‡	‡	‡
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	88.4	75.1	72.0	8.5!
Georgia	74.9	80.0	67.4	12.4!
Hawaii	‡	‡	‡	‡
Idaho	87.2	87.7	78.1	3.2!
Illinois	91.5	86.1	81.9	4.3!
Indiana	‡	‡	‡	‡
Iowa	89.0	80.1	74.3	5.2!
Kansas	80.8	85.1	76.3	10.5!
Kentucky	‡	‡	‡	‡
Louisiana	66.7	65.7	45.6	13.3!
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	93.8	90.5	86.8	2.5!
Michigan	80.6	70.2	62.7	12.0!
Minnesota	96.2	92.6	90.9	2.2!
Mississippi	77.6	94.6	76.3	4.1!
Missouri	80.3	85.8	76.4	10.3!
Montana	79.6	88.0	71.6	4.0!
Nebraska	‡	‡	‡	‡
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	‡	‡	‡	‡
New Mexico	‡	‡	‡	‡
New York	85.5	80.5	76.6	10.6!
North Carolina	‡	‡	‡	‡
North Dakota	86.4	90.1	80.8	4.4!
Ohio	‡	‡	‡	‡
Oklahoma	77.7	90.8	71.8	3.3!
Oregon	73.6	82.1	61.5	5.8!
Pennsylvania	70.5	77.5	65.3	17.4!
Rhode Island	‡	‡	‡	‡
South Carolina	‡	‡	‡	‡
South Dakota	72.2	89.5	70.4	8.8!
Tennessee	65.7	80.6	56.1	9.8!
Texas	70.2	78.3	57.6	9.1!
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	73.6	73.1	62.9	16.2!
Washington	81.2	74.1	67.0	11.7!
West Virginia	76.1	87.8	75.1	11.2!
Wisconsin	86.2	91.0	80.8	3.6!
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."

Table 34-B. Standard errors for table 34-A: percentage of social studies classes taught by public school secondary level teachers with an undergraduate or graduate major or minor and certification in social studies, by state: Academic year 1999–2000

	Total major/minor	Total certification	Major/minor and certification	No major/minor, no certification
United States	0.97	1.16	1.20	0.68
Alabama	4.98	3.69	5.03	2.99!
Alaska	3.19	3.39	3.65	2.63!
Arizona	2.47	3.89	4.30	1.76!
Arkansas	5.28	5.95	6.41	4.91!
California	4.22	4.99	6.07	2.10!
Colorado	4.15	4.51	5.25	2.09!
Connecticut	‡	‡	‡	‡
Delaware	‡	‡	‡	‡
District of Columbia	‡	‡	‡	‡
Florida	4.39	6.06	6.29	3.44!
Georgia	6.91	4.92	6.50	4.53!
Hawaii	‡	‡	‡	‡
Idaho	2.51	1.98	2.66	0.92!
Illinois	2.04	3.26	3.57	1.35!
Indiana	‡	‡	‡	‡
Iowa	3.05	9.69	8.95	1.91!
Kansas	4.17	3.96	4.89	3.56!
Kentucky	‡	‡	‡	‡
Louisiana	7.43	7.43	8.92	5.14!
Maine	‡	‡	‡	‡
Maryland	‡	‡	‡	‡
Massachusetts	2.23	2.59	3.10	1.63!
Michigan	4.65	5.24	5.78	2.97!
Minnesota	1.83	2.89	3.05	1.56!
Mississippi	3.42	1.42	3.52	1.13!
Missouri	4.26	3.52	4.95	2.85!
Montana	3.22	2.32	3.72	1.14!
Nebraska	‡	‡	‡	‡
Nevada	‡	‡	‡	‡
New Hampshire	‡	‡	‡	‡
New Jersey	‡	‡	‡	‡
New Mexico	‡	‡	‡	‡
New York	2.96	3.78	3.70	3.34!
North Carolina	‡	‡	‡	‡
North Dakota	3.49	2.39	3.96	1.76!
Ohio	‡	‡	‡	‡
Oklahoma	5.16	2.08	5.50	0.94!
Oregon	6.60	5.18	4.31	1.46!
Pennsylvania	7.44	7.50	7.03	8.13!
Rhode Island	‡	‡	‡	‡
South Carolina	‡	‡	‡	‡
South Dakota	3.69	2.28	3.64	2.22!
Tennessee	9.62	5.93	7.79	5.64!
Texas	4.78	3.72	4.94	2.06!
Utah	‡	‡	‡	‡
Vermont	‡	‡	‡	‡
Virginia	3.77	4.11	4.54	3.43!
Washington	4.18	4.56	5.50	3.11!
West Virginia	4.18	3.79	4.25	3.78!
Wisconsin	4.88	2.72	5.25	2.12!
Wyoming	‡	‡	‡	‡

! Interpret data with caution

‡ Reporting standards not met

NOTE: Secondary level teachers include teachers who taught students in grades 5–12; teachers who taught in grades 5–9 who identified themselves as elementary or special education teachers were not included. Detail may not add to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey, 1999–2000 "Public Teacher Survey," and 1999–2000 "Public Charter Teacher Survey."