

Supplemental Tables to NCES 2011-317

These supplemental tables contain additional data supporting the report *Education and Certification Qualifications of Departmentalized Public High School-Level Teachers of Core Subjects: Evidence from the 2007–08 Schools and Staffing Survey* (NCES 2011-317). While the tables and findings of the main report provide 2007-08 Schools and Staffing Survey data on the qualifications of teachers by subject area(s) taught (main assignment and other assignments), these supplemental tables provides a finer breakdown of teacher qualifications by state, by subject (English, mathematics, science, and social science) and teacher and school characteristics. For more information about the content of these tables, please see the main report (NCES 2011-317).

List of Tables

Table	Page
1. Number of public high school-level teachers who reported a main assignment in a specified field and the percentage distribution with a major and/or certification in that main assignment, by state: 2007–08.....	1
2. Number of public high school-level teachers who reported a main assignment in a specified field and the percentage distribution with a major and/or certification in that main assignment, by selected teacher and school characteristics: 2007–08.....	3
3. Number of public high school-level teachers with a main assignment in English and the percentage distribution with a major and/or certification in English, by selected teacher and school characteristics: 2007–08.....	4
4. Number of public high school-level teachers with a main assignment in mathematics and the percentage distribution with a major and/or certification in mathematics, by selected teacher and school characteristics: 2007–08.....	5
5. Number of public high school-level teachers with a main assignment in science and the percentage distribution with a major and/or certification in science, by selected teacher and school characteristics: 2007–08.....	6
6. Number of public high school-level teachers with a main assignment in social science and the percentage distribution with a major and/or certification in social science, by selected teacher and school characteristics: 2007–08.....	7
7. Number of public high school-level teachers who reported a main assignment in a specified field and the percentage distribution with a major in their main assignment awarded by a department, college, or school of education and/or a certification in that main assignment, by selected main assignments: 2007–08.....	8
8. Number of public high school-level teachers who reported a main assignment in a specified field and the percentage distribution with a major in their main assignment awarded outside a department, college, or school of education and/or a certification in that main assignment, by selected main assignments: 2007–08.....	9
9. Number of public high school-level teachers who reported more than one degree for a main assignment in a specified field and the percentage with majors in main assignment awarded both within and outside a department, college, or school of education and/or a certification in that main assignment, by selected main assignments: 2007–08.....	10

Table Page

Standard Error Tables

A-1.	Standard errors for: Number of public high school-level teachers who reported a main assignment in a specified field and the percentage distribution with a major and/or certification in that main assignment, by state: 2007–08.....	11
A-2.	Standard errors for: Number of public high school-level teachers who reported a main assignment in a specified field and the percentage distribution with a major and/or certification in that main assignment, by selected teacher and school characteristics: 2007–08.....	13
A-3.	Standard errors for: Number of public high school-level teachers with a main assignment in English and the percentage distribution with a major and/or certification in English, by selected teacher and school characteristics: 2007–08.....	14
A-4.	Standard errors for: Number of public high school-level teachers with a main assignment in mathematics and the percentage distribution with a major and/or certification in mathematics, by selected teacher and school characteristics: 2007–08.....	15
A-5.	Standard errors for: Number of public high school-level teachers with a main assignment in science and the percentage distribution with a major and/or certification in science, by selected teacher and school characteristics: 2007–08.....	16
A-6.	Standard errors for: Number of public high school-level teachers with a main assignment in social science and the percentage distribution with a major and/or certification in social science, by selected teacher and school characteristics: 2007–08.....	17
A-7.	Standard errors for: Number of public high school-level teachers who reported a main assignment in a specified field and the percentage distribution with a major in their main assignment awarded by a department, college, or school of education and/or a certification in that main assignment, by selected main assignments: 2007–08.....	18
A-8.	Standard errors for: Number of public high school-level teachers who reported a main assignment in a specified field and the percentage distribution with a major in their main assignment awarded outside a department, college, or school of education and/or a certification in that main assignment, by selected main assignments: 2007–08.....	19
A-9.	Standard errors for: Number of public high school-level teachers who reported more than one degree for a main assignment in a specified field and the percentage with majors in main assignment awarded both within and outside a department, college, or school of education and/or a certification in that main assignment, by selected main assignments: 2007–08.....	20

Table 1. Number of public high school-level teachers who reported a main assignment in a specified field and the percentage distribution with a major and/or certification in that main assignment, by state: 2007–08

State	Number of teachers	Major in main assignment			No major in main assignment			Total certified
		Total	Certified ¹	Not certified	Total	Certified	Not certified	
United States ²	677,000	81.1	70.6	10.5	18.9	12.0	6.9	82.6
Alabama	9,500	82.3	62.6	19.6	17.7	8.2	9.6	70.8
Alaska	1,700	75.6	58.5	17.1	24.4	13.2 !	11.1 !	71.8
Arizona	12,500	76.1	60.8	15.3	23.9	13.1	10.8	73.9
Arkansas	7,000	77.0	69.9	7.0 !	23.0	12.9	10.2	82.8
California	65,800	78.4	70.0	8.4	21.6	12.1	9.5	82.1
Colorado	9,900	83.1	70.0	13.2	16.9	10.8	6.1 !	80.7
Connecticut	8,900	89.1	83.0	6.1 !	10.9	9.3	‡	92.2
Delaware	1,300	77.0	68.1	‡	23.0 !	‡	12.8 !	78.3
District of Columbia	800 !	92.1	50.2	41.9	‡	#	‡	50.2
Florida	37,600	70.8	55.9	14.9	29.2	18.2	11.0	74.1
Georgia	19,800	86.1	70.4	15.7	13.9	8.1	5.8 !	78.5
Hawaii	2,400	66.6	50.7	15.9	33.4	18.8	14.6 !	69.5
Idaho	3,800	80.4	71.2	9.2	19.6	15.0	4.6 !	86.2
Illinois	27,400	91.2	82.8	8.4	8.8	6.5	‡	89.3
Indiana	15,800	81.9	76.2	5.7	18.1	13.0	5.1 !	89.2
Iowa	8,300	89.9	85.3	4.6 !	10.1	8.0	2.1 !	93.3
Kansas	8,300	81.5	68.6	12.9	18.5	10.8	7.7 !	79.4
Kentucky	8,400	82.0	70.4	11.6	18.0	9.2	8.8	79.7
Louisiana	8,200	66.1	58.9	7.2	33.9	24.4	9.5 !	83.3
Maine	3,500	78.0	69.4	8.6	22.0	13.7	8.4 !	83.1
Maryland	12,500	81.6	70.0	11.5	18.4	7.5	10.9	77.5
Massachusetts	18,600	83.0	69.1	13.9	17.0	10.4	6.6	79.4
Michigan	18,500	83.5	76.3	7.2	16.5	12.7	3.7 !	89.0
Minnesota	12,700	89.4	82.6	6.8	10.6	6.7	4.0 !	89.3
Mississippi	6,300	71.4	65.0	6.4	28.6	20.8	7.7	85.8

See notes at end of table.

Table 1. Number of public high school-level teachers who reported a main assignment in a specified field and the percentage distribution with a major and/or certification in that main assignment, by state: 2007–08—Continued

State	Number of teachers	Major in main assignment			No major in main assignment			Total certified
		Total	Certified	Not certified	Total	Certified	Not certified	
Missouri	14,800	80.7	68.2	12.6	19.3	8.5	10.8	76.7
Montana	2,800	81.3	77.5	3.9 !	18.7	13.3	5.3 !	90.8
Nebraska	5,000	86.8	82.1	4.7 !	13.2	7.6	5.5 !	89.8
Nevada	3,900	83.9	67.4	16.5	16.1	11.0 !	5.1 !	78.4
New Hampshire	3,900	84.7	76.2	8.5	15.3	10.5 !	4.8 !	86.7
New Jersey	24,300	86.8	80.9	5.9	13.2	10.5	2.7 !	91.4
New Mexico	4,200	66.6	58.7	7.9	33.4	24.4	9.0 !	83.1
New York	51,500	87.7	73.1	14.6	12.3	6.7 !	5.6 !	79.8
North Carolina	15,400	87.7	76.8	10.9	12.3	8.3	4.0	85.0
North Dakota	2,000	86.9	81.8	5.1 !	13.1	10.1	‡	91.9
Ohio	25,600	85.6	77.1	8.5	14.4	11.8 !	2.6 !	89.0
Oklahoma	10,300	72.0	63.7	8.3	28.0	18.3	9.7	82.0
Oregon	5,700	82.3	74.0	8.3	17.7	11.3	6.4	85.3
Pennsylvania	28,200	80.4	72.2	8.2	19.6	12.2	7.4	84.4
Rhode Island	2,600	78.9	66.4	12.6 !	21.1 !	16.4 !	‡	82.7
South Carolina	9,600	84.6	73.7	11.0	15.4	10.9	4.5 !	84.5
South Dakota	2,300	78.0	72.7	5.2 !	22.0	19.7	‡	92.4
Tennessee	11,300	78.7	70.4	8.3	21.3	16.5	4.8 !	87.0
Texas	69,800	71.9	59.9	12.0	28.1	17.4	10.7	77.3
Utah	4,400	79.7	75.4	‡	20.3	13.2	7.2 !	88.6
Vermont	2,100	84.5	77.8	6.7 !	15.5 !	12.6 !	‡	90.4
Virginia	16,400	84.8	75.0	9.8	15.2	11.7	‡	86.7
Washington	11,200	77.7	62.5	15.2	22.3	11.4	10.9	73.9
West Virginia	4,100	82.2	70.8	11.5	17.8	13.5	4.3 !	84.3
Wisconsin	14,500	93.1	87.0	6.1	6.9	5.6	‡	92.6
Wyoming	1,500	80.6	71.4	9.2 !	19.4	14.4	‡	85.8

! Interpret data with caution. The standard error for this estimate is equal to 30 percent or more of the estimate's value.

‡ Reporting standards not met.

¹ Teachers of art/arts and crafts, music, dance and drama/theater were allowed to report an ungraded or secondary level (grades 9-12) certification.

² "United States" includes the subsample of high school-level teachers (defined below) who reported a main assignment in English, mathematics, science, social science, French, German, Latin, Spanish, art/arts or crafts, music, or dance/theater.

NOTE: Teachers include traditional public school and public charter school teachers who taught departmentalized classes to students in any of grades 10–12, or grade 9 and no grade lower. "Major in main assignment" include all teachers, regardless of whether the major was earned within or outside a department, college, or school of education. Majors in main assignment are credited if they were earned at the bachelor's degree level or higher. A certification is credited if it is a regular or standard state certificate, or a probationary certification in-subject and at the secondary level (grades 9-12). Detail may not sum to totals because of rounding and because some data are not shown.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey (SASS), "Public School Teacher Data File," 2007–08.

Table 2. Number of public high school-level teachers who reported a main assignment in a specified field and the percentage distribution with a major and/or certification in that main assignment, by selected teacher and school characteristics: 2007–08

Selected teacher and school characteristic	Number of teachers	Major in main assignment			No major in main assignment			Total certified
		Total	Certified ¹	Not certified	Total	Certified	Not certified	
All teachers ²	677,000	81.1	70.6	10.5	18.9	12.0	6.9	82.6
Average class size								
10 or fewer students	38,300	66.1	53.2	12.9	33.9	13.2	20.6	66.5
11-18	155,000	81.1	70.4	10.6	18.9	11.2	7.7	81.7
19-27	331,100	82.1	71.5	10.6	17.9	12.6	5.3	84.1
28 or more students	152,500	82.8	73.3	9.5	17.2	11.1	6.2	84.3
Years of teaching experience								
3 or fewer	123,100	78.9	59.3	19.6	21.1	9.6	11.5	68.8
4-9	189,700	79.7	69.9	9.8	20.3	13.5	6.8	83.4
10-19	185,900	82.3	74.7	7.6	17.7	12.0	5.7	86.7
20 or more	178,300	82.8	74.9	7.9	17.2	11.9	5.2	86.9
School classification								
Charter school	17,700	70.5	50.2	20.3	29.5	11.4	18.1	61.6
Traditional public school	659,300	81.4	71.2	10.2	18.6	12.0	6.6	83.1
Community type ³								
City	178,000	80.6	66.8	13.8	19.4	10.8	8.6	77.6
Suburban	238,200	83.3	74.2	9.1	16.7	11.5	5.2	85.7
Town	86,800	79.4	70.2	9.2	20.6	12.8	7.9	83.0
Rural	174,100	79.5	69.9	9.6	20.5	13.3	7.2	83.2
Student enrollment								
Less than 100	14,700	62.0	42.8	19.2	38.0	17.0	21.0	59.8
100-199	23,900	72.4	61.0	11.3	27.6	14.6	13.0	75.7
200-499	87,900	77.5	65.6	11.9	22.5	13.0	9.5	78.6
500-749	68,500	80.4	71.3	9.1	19.6	12.8	6.8	84.1
750-999	62,300	82.5	72.4	10.2	17.5	12.1	5.3	84.5
1,000-1,499	146,100	84.1	74.2	10.0	15.9	10.8	5.1	84.9
1,500 or more	273,700	82.3	72.1	10.2	17.7	11.5	6.2	83.6
Percent of K-12 students in school who are of a racial/ethnic minority ⁴								
Less than 20	256,000	84.0	75.6	8.4	16.0	11.2	4.8	86.8
20 to 59	197,800	79.5	69.8	9.7	20.5	13.4	7.1	83.2
60 or more	223,300	79.2	65.7	13.5	20.8	11.6	9.3	77.2
Percent of K-12 students in school who were approved for free or reduced-price lunches								
Less than 35	371,700	83.5	74.6	8.8	16.5	11.6	4.9	86.3
35-49	127,500	78.5	69.1	9.4	21.5	13.3	8.1	82.5
50-74	107,200	79.9	65.6	14.3	20.1	12.2	7.9	77.8
75 or more	54,800	73.9	58.8	15.1	26.1	11.5	14.6	70.4
School did not participate in free or reduced-price lunch program	15,700	78.9	63.0	15.9	21.1	8.1	13.1	71.0

¹ Teachers of art/arts and crafts, music, dance and drama/theater were allowed to report an ungraded or secondary level (grades 9-12) certification.

² "All teachers" includes the subsample of high school-level teachers (defined below) who reported a main assignment in English, mathematics, science, social science, French, German, Latin, Spanish, art/arts or crafts, music, or dance/theater.

³ Community type is a 4-level collapse of the urban-centric school locale code (SLOCP12) for 2007-08 SASS school. The origin of SLOCP12 is the ULOCALE variable from the 2005–06 Common Core Data (CCD) Elementary/Secondary Locale Code File.

⁴ Racial/ethnic minority includes Hispanic or Latino, regardless of race, Black, not of Hispanic or Latino origin, Asian or Pacific Islander, and American Indian or Alaska Native.

NOTE: Teachers include traditional public school and public charter school teachers who taught departmentalized classes to students in any of grades 10-12, or grade 9 and no grade lower. "Major in main assignment" columns include all teachers, regardless of whether the major was earned within or outside a department, college, or school of education. Majors in main assignment are credited if they were earned at the bachelor's degree level or higher. A certification is credited if it is a regular or standard state certificate, or a probationary certification in-subject and at the secondary level (grades 9-12). Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey (SASS), "Public School Teacher Data File," 2007-08.

Table 3. Number of public high school-level teachers with a main assignment in English and the percentage distribution with a major and/or certification in English, by selected teacher and school characteristics: 2007–08

Selected teacher and school characteristic	Number of teachers	Major in English			No major in English			Total certified in English
		Total	Certified in English	Not certified in English	Total	Certified in English	Not certified in English	
All teachers with an English main assignment ¹	161,300	82.8	71.4	11.4	17.2	9.9	7.3	81.3
Average class size								
10 or fewer students	10,500	61.9	49.0	12.9 !	38.1	12.1	25.9	61.2
11-18	39,400	82.4	70.3	12.1	17.6	9.3	8.3	79.6
19-27	81,500	85.2	74.3	10.8	14.8	10.4	4.4	84.7
28 or more students	29,800	84.1	72.6	11.5	15.9	8.7	7.2	81.2
Years of teaching experience								
3 or fewer	32,300	78.5	57.2	21.2	21.5	10.9	10.6	68.1
4-9	47,600	82.4	71.8	10.5	17.6	11.3	6.4	83.1
10-19	38,700	86.6	79.8	6.7	13.4	8.1	5.3	87.9
20 or more	42,600	83.0	73.8	9.2	17.0	9.5	7.5	83.3
School classification								
Charter school	4,000 !	72.4	54.3	18.1 !	27.6 !	15.1 !	12.4 !	69.4
Traditional public school	157,300	83.0	71.8	11.2	17.0	9.8	7.1	81.6
Community type ²								
City	44,700	81.9	68.1	13.8	18.1	7.9	10.3	76.0
Suburban	57,100	84.8	75.0	9.8	15.2	9.5	5.7	84.5
Town	18,800	79.2	71.3	7.9	20.8	12.5	8.3	83.8
Rural	40,500	82.7	70.0	12.6	17.3	11.6	5.8	81.6
Student enrollment								
Less than 100	4,400	55.9	40.8	15.1 !	44.1	20.8 !	23.3 !	61.7
100-199	4,800	71.1	56.9	14.3	28.9	18.1	10.8 !	74.9
200-499	20,300	76.1	66.0	10.1	23.9	14.3	9.6	80.3
500-749	15,600	85.7	75.8	9.9	14.3	6.8	7.5 !	82.6
750-999	14,800	86.6	73.5	13.1	13.4	10.1	3.2 !	83.7
1,000-1,499	32,800	87.5	77.7	9.8	12.5	8.6	3.9	86.3
1,500 or more	68,500	83.6	71.5	12.1	16.4	8.7	7.8	80.1
Percent of K-12 students in school who are of a racial/ethnic minority ³								
Less than 20	55,600	87.5	77.9	9.6	12.5	8.3	4.2	86.2
20 to 59	47,500	81.6	72.4	9.2	18.4	10.8	7.6	83.2
60 or more	58,100	79.2	64.3	14.9	20.8	10.8	10.0	75.1
Percent of K-12 students in school who were approved for free or reduced-price lunches								
Less than 35	84,900	85.5	76.1	9.4	14.5	10.0	4.5	86.1
35-49	30,800	81.6	71.7	9.9	18.4	10.7	7.7	82.4
50-74	27,500	82.4	64.6	17.7	17.6	10.1	7.5	74.7
75 or more	14,500	70.1	55.7	14.4 !	29.9	9.0 !	20.9	64.6
School did not participate in free or reduced-price lunch program	3,600	83.3	71.4	11.9 !	16.7	5.0 !	11.7 !	76.4

! Interpret data with caution. The standard error for this estimate is equal to 30 percent or more of the estimate's value.

¹ "All teachers with an English main assignment" includes the subsample of high school-level teachers who reported a main assignment in communications, composition, English, journalism, language arts, reading, or speech.

² Community type is a 4-level collapse of the urban-centric school locale code (SLOCP12) for 2007-08 SASS school. The origin of SLOCP12 is the ULOCALE variable from the 2005–06 Common Core Data (CCD) Elementary/Secondary Locale Code File.

³ Racial/ethnic minority includes Hispanic or Latino, regardless of race, Black, not of Hispanic or Latino origin, Asian or Pacific Islander, and American Indian or Alaska Native.

NOTE: Teachers include traditional public school and public charter school teachers who taught departmentalized classes to students in any of grades 10–12, or grade 9 and no grade lower. Included in the "Major in English" columns are all teachers, regardless of whether the major was earned within or outside a department, college, or school of education. Majors in English are credited if they were earned at the bachelor's degree level or higher. "Certified in English" columns contain teachers with a regular or standard state certificate, or a probationary certification in main assignment and at the high school-level. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey (SASS), "Public School Teacher Data File," 2007–08.

Table 4. Number of public high school-level teachers with a main assignment in mathematics and the percentage distribution with a major and/or certification in mathematics, by selected teacher and school characteristics: 2007–08

Selected teacher and school characteristic	Number of teachers	Major in mathematics			No major in mathematics			Total certified in mathematics
		Total	Certified in mathematics	Not certified in mathematics	Total	Certified in mathematics	Not certified in mathematics	
All teachers with a mathematics main assignment ¹	143,600	72.5	63.1	9.4	27.5	16.4	11.1	79.5
Average class size								
10 or fewer students	9,700	57.7	48.1	9.5 †	42.3	15.4	26.9	63.6
11-18	35,400	72.0	62.0	9.9	28.0	17.1	10.9	79.1
19-27	70,900	73.2	63.4	9.8	26.8	16.8	10.0	80.3
28 or more students	27,600	76.6	68.9	7.7	23.4	14.6	8.8	83.5
Years of teaching experience								
3 or fewer	25,900	64.2	49.9	14.3	35.8	15.3	20.5	65.2
4-9	40,800	71.4	60.8	10.6	28.6	18.0	10.7	78.8
10-19	42,700	74.9	66.6	8.3 †	25.1	16.6	8.6	83.1
20 or more	34,200	77.2	71.5	5.7	22.8	15.0	7.8	86.5
School classification								
Charter school	4,000 †	50.7	42.1	‡	49.3	19.9 †	29.4	62.0
Traditional public school	139,600	73.1	63.7	9.4	26.9	16.3	10.6	80.0
Community type ²								
City	37,300	72.5	59.5	13.1 †	27.5	14.4	13.0	73.9
Suburban	48,900	73.9	65.7	8.2	26.1	16.5	9.6	82.2
Town	19,400	69.9	62.7	7.2	30.1	17.5	12.6	80.2
Rural	38,000	72.0	63.5	8.5	28.0	17.5	10.5	81.0
Student enrollment								
Less than 100	3,300	41.9	28.0	‡	58.1	36.7 †	21.4 †	64.7
100-199	5,500	62.4	55.2	7.2 †	37.6	14.8 †	22.8	69.9
200-499	20,200	70.1	55.8	14.3 †	29.9	14.6	15.3	70.4
500-749	14,100	72.1	63.4	8.7	27.9	18.9	9.0	82.3
750-999	14,700	74.3	66.4	7.9 †	25.7	14.3	11.4	80.7
1,000-1,499	31,100	75.5	67.6	7.8	24.5	17.1	7.4	84.7
1,500 or more	54,700	74.2	65.2	9.0	25.8	15.5	10.3	80.6
Percent of K-12 students in school who are of a racial/ethnic minority ³								
Less than 20	52,500	78.6	72.2	6.5	21.4	14.6	6.7	86.8
20 to 59	40,300	67.8	58.6	9.1	32.2	21.2	11.1	79.8
60 or more	50,800	70.0	57.3	12.7	30.0	14.4	15.7	71.7
Percent of K-12 students in school who were approved for free or reduced-price lunches								
Less than 35	75,900	77.5	70.1	7.4	22.5	15.1	7.4	85.2
35-49	28,600	66.0	57.8	8.2	34.0	21.1	12.9	78.8
50-74	22,500	70.4	58.4	12.0	29.6	16.1	13.5	74.4
75 or more	12,600	63.5	44.2	‡	36.5	14.7	21.8 †	58.9
School did not participate in free or reduced-price lunch program	4,000	64.5	54.1	‡	35.5	14.9 †	20.7	69.0

† Interpret data with caution. The standard error for this estimate is equal to 30 percent or more of the estimate's value.

‡ Reporting standards not met.

¹ "All teachers with a mathematics main assignment" includes the subsample of high school-level teachers who reported a main assignment in algebra (elementary, intermediate, or advanced), basic and general mathematics, business and applied math, calculus and precalculus, computer science, geometry, prealgebra, statistics and probability, or trigonometry.

² Community type is a 4-level collapse of the urban-centric school locale code (SLOCP12) for 2007-08 SASS school. The origin of SLOCP12 is the ULOCALE variable from the 2005–06 Common Core Data (CCD) Elementary/Secondary Locale Code File.

³ Racial/ethnic minority includes Hispanic or Latino, regardless of race, Black, not of Hispanic or Latino origin, Asian or Pacific Islander, and American Indian or Alaska Native.

NOTE: Teachers include traditional public school and public charter school teachers who taught departmentalized classes to students in any of grades 10–12, or grade 9 and no grade lower. Included in the "Major in mathematics" columns are all teachers, regardless of whether the major was earned within or outside a department, college, or school of education. Majors in mathematics are credited if they were earned at the bachelor's degree level or higher. "Certified in mathematics" columns contain teachers with a regular or standard state certificate, or a probationary certification in main assignment and at the high school-level. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey (SASS), "Public School Teacher Data File," 2007–08.

Table 5. Number of public high school-level teachers with a main assignment in science and the percentage distribution with a major and/or certification in science, by selected teacher and school characteristics: 2007–08

Selected teacher and school characteristic	Number of teachers	Major in science			No major in science			Total certified in science
		Total	Certified in science	Not certified in science	Total	Certified in science	Not certified in science	
All teachers with a science main assignment ¹	119,800	84.0	73.6	10.4	16.0	12.0	4.0	85.6
Average class size								
10 or fewer students	5,000	68.5	49.6	18.9 !	31.5	19.1 !	12.4 !	68.7
11-18	26,300	85.2	75.5	9.7	14.8	8.8	5.9	84.3
19-27	63,000	85.3	75.1	10.1	14.7	11.9	2.8 !	87.0
28 or more students	25,500	82.8	72.5	10.3	17.2	13.9	‡	86.4
Years of teaching experience								
3 or fewer	21,600	86.3	60.6	25.7	13.7	4.8	8.9	65.4
4-9	31,700	82.9	74.2	8.8	17.1	12.6	4.5 !	86.7
10-19	35,400	83.1	77.0	6.1 !	16.9	14.3	2.6 !	91.3
20 or more	31,000	84.6	78.2	6.4	15.4	13.7	‡	91.9
School classification								
Charter school	2,500 !	70.2	52.0	18.2 !	29.8 !	‡	24.0 !	57.9
Traditional public school	117,200	84.3	74.1	10.3	15.7	12.1	3.6	86.2
Community type ²								
City	31,500	83.7	71.2	12.4	16.3	12.5	‡	83.7
Suburban	42,000	85.4	76.8	8.7	14.6	12.6	2.0	89.3
Town	15,800	84.8	71.5	13.3	15.2	10.8	4.4 !	82.3
Rural	30,400	82.1	72.7	9.3	17.9	11.2	6.7	84.0
Student enrollment								
Less than 100	2,700	76.4	52.2 !	24.2 !	23.6 !	‡	‡	56.4
100-199	3,800	69.0	60.8	8.2 !	31.0	18.4 !	12.6	79.2
200-499	14,200	85.4	71.5	13.9	14.6	9.7	4.9 !	81.3
500-749	12,000	81.3	74.0	7.2	18.7	12.1	6.7 !	86.1
750-999	10,300	84.8	76.2	8.6	15.2	11.9	‡	88.2
1,000-1,499	26,900	87.9	75.1	12.8	12.1	9.2	2.9 !	84.3
1,500 or more	50,000	83.6	74.8	8.8	16.4	14.0	2.4 !	88.8
Percent of K-12 students in school who are a racial/ethnic minority ³								
Less than 20	45,500	86.1	76.9	9.1	13.9	10.8	3.2	87.7
20 to 59	37,300	84.2	73.5	10.7	15.8	11.6	4.2	85.1
60 or more	37,000	81.4	69.5	11.8	18.6	13.8	4.8 !	83.3
Percent of K-12 students in school who were approved for free or reduced-price lunches								
Less than 35	66,500	85.3	75.9	9.4	14.7	12.2	2.5	88.1
35-49	23,600	82.6	72.2	10.4	17.4	10.9	6.5 !	83.0
50-74	17,900	83.0	72.7	10.3	17.0	12.0	5.0 !	84.7
75 or more	9,700	81.1	64.6	16.5	18.9 !	13.3 !	‡	77.8
School did not participate in free or reduced-price lunch program	2,000	82.7	65.0	17.7 !	17.3 !	‡	‡	74.2

! Interpret data with caution. The standard error for this estimate is equal to 30 percent or more of the estimate's value.

‡ Reporting standards not met.

¹ "All teachers with a science main assignment" includes the subsample of high school-level teachers who reported a main assignment in science (general), biology/life sciences, chemistry, Earth sciences, integrated science, physical science, or physics.

² Community type is a 4-level collapse of the urban-centric school locale code (SLOCP12) for 2007-08 SASS school. The origin of SLOCP12 is the ULOCALE variable from the 2005–06 Common Core Data (CCD) Elementary/Secondary Locale Code File.

³ Racial/ethnic minority includes Hispanic or Latino, regardless of race, Black, not of Hispanic or Latino origin, Asian or Pacific Islander, and American Indian or Alaska Native.

NOTE: Teachers include traditional public school and public charter school teachers who taught departmentalized classes to students in any of grades 10–12, or grade 9 and no grade lower. Included in the "Major in science" columns are all teachers, regardless of whether the major was earned within or outside a department, college, or school of education. Majors in science are credited if they were earned at the bachelor's degree level or higher. "Certified in science" columns contain teachers with a regular or standard state certificate, or a probationary certification in main assignment and at the high school-level. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey (SASS), "Public School Teacher Data File," 2007–08.

Table 6. Number of public high school-level teachers with a main assignment in social science and the percentage distribution with a major and/or certification in social science, by selected teacher and school characteristics: 2007–08

Selected teacher and school characteristic	Number of teachers	Major in social science			No major in social science			Total certified in social science
		Total	Certified in social science	Not certified in social science	Total	Certified in social science	Not certified in social science	
All teachers with a social science main assignment ¹	119,200	83.3	73.6	9.7	16.7	10.9	5.8	84.5
Average class size								
10 or fewer students	4,700	76.5	65.3	11.2 !	23.5	7.0 !	16.5	72.3
11-18	19,500	84.4	75.8	8.7	15.6	7.5	8.1	83.3
19-27	58,000	82.0	72.0	9.9	18.0	12.6	5.5	84.6
28 or more students	37,100	85.8	76.0	9.8	14.2	10.5	3.7	86.5
Years of teaching experience								
3 or fewer	20,400	87.5	69.3	18.2	12.5	7.6	4.9 !	76.9
4-9	35,500	83.1	75.6	7.5	16.9	12.8	4.1	88.4
10-19	34,300	83.9	76.7	7.2	16.1	9.3	6.8	86.0
20 or more	29,000	79.9	70.5	9.5	20.1	12.8	7.2	83.3
School classification								
Charter school	3,100 !	83.2	69.2	14.0 !	16.8	8.6 !	8.2 !	77.7
Traditional public school	116,200	83.3	73.7	9.6	16.7	11.0	5.7	84.7
Community type ²								
City	32,200	84.1	71.0	13.1	15.9	9.4	6.5	80.4
Suburban	41,900	87.5	79.3	8.1	12.5	8.9	3.7	88.2
Town	16,200	79.9	69.9	9.9	20.1	11.4	8.7	81.3
Rural	28,900	78.4	70.3	8.1	21.6	15.2	6.5	85.4
Student enrollment								
Less than 100	2,400	79.0	66.6	12.4 !	21.0 !	8.0 !	13.0 !	74.6
100-199	4,900	74.7	64.7	10.0 !	25.3	14.6 !	10.8 !	79.3
200-499	15,300	80.1	69.1	11.1	19.9	11.6	8.2 !	80.7
500-749	12,000	77.1	67.3	9.8	22.9	17.8	5.0 !	85.2
750-999	10,200	82.7	71.9	10.8 !	17.3	10.5	6.8 !	82.4
1,000-1,499	26,500	85.8	76.9	8.9	14.2	8.6	5.6 !	85.5
1,500 or more	48,000	85.8	76.4	9.3	14.2	10.0	4.2	86.4
Percent of K-12 students in school who are of a racial/ethnic minority ³								
Less than 20	42,800	80.4	72.0	8.4	19.6	14.1	5.5	86.2
20 to 59	36,400	84.8	75.1	9.7	15.2	9.2	6.0	84.3
60 or more	40,100	85.1	74.0	11.2	14.9	8.9	5.9	82.9
Percent of K-12 students in school who were approved for free or reduced-price lunches								
Less than 35	63,100	84.4	76.6	7.8	15.6	10.3	5.3	87.0
35-49	21,600	80.8	71.7	9.1	19.2	13.6	5.7 !	85.2
50-74	20,800	85.3	71.7	13.6	14.7	10.1	4.6 !	81.8
75 or more	10,400	76.5	62.4	14.0 !	23.5	12.6 !	11.0 !	75.0
School did not participate in free or reduced-price lunch program	3,300	89.1	75.9	13.2 !	10.9 !	‡	‡	79.4

! Interpret data with caution. The standard error for this estimate is equal to 30 percent or more of the estimate's value.

‡ Reporting standards not met.

¹ "All teachers with a social science main assignment" includes the subsample of high school-level teachers who reported a main assignment in social studies (general), anthropology, economics, geography, government/civics, history, Native American studies, psychology, or sociology.

² Community type is a 4-level collapse of the urban-centric school locale code (SLOCP12) for 2007-08 SASS school. The origin of SLOCP12 is the ULOCALE variable from the 2005-06 Common Core Data (CCD) Elementary/Secondary Locale Code File.

³ Racial/ethnic minority includes Hispanic or Latino, regardless of race, Black, not of Hispanic or Latino origin, Asian or Pacific Islander, and American Indian or Alaska Native.

NOTE: Teachers include traditional public school and public charter school teachers who taught departmentalized classes to students in any of grades 10–12, or grade 9 and no grade lower. Included in the "Major in social science" columns are all teachers, regardless of whether the major was earned within or outside a department, college, or school of education. Majors in social science are credited if they were earned at the bachelor's degree level or higher. "Certified in social science" columns contain teachers with a regular or standard state certificate, or a probationary certification in main assignment and at the high school-level. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey (SASS), "Public School Teacher Data File," 2007–08.

Table 7. Number of public high school-level teachers who reported a main assignment in a specified field and the percentage distribution with a major in their main assignment awarded by a department, college, or school of education and/or a certification in that main assignment, by selected main assignments: 2007–08

Selected main assignment	Number of teachers	Major in main assignment awarded by a department, college, or school of education			No major in main assignment awarded by a department, college, or school of education			Total certified
		Total	Certified	Not certified	Total	Certified	Not certified	
English	161,300	54.3	47.9	6.4	45.7	33.4	12.3	81.3
Mathematics	143,600	51.8	46.7	5.1	48.2	32.7	15.4	79.5
Science	119,800	43.5	38.7	4.9	56.5	46.9	9.6	85.6
Biology or life sciences	53,800	40.8	34.0	6.7	59.2	43.3	15.9	77.4
Physical science	58,100	24.3	20.4	3.9	75.7	48.9	26.8	69.4
Chemistry	24,500	23.8	19.6	4.2 !	76.2	51.8	24.4	71.4
Earth sciences	8,500	22.4	19.1	3.3 !	77.6	31.3	46.3	50.4
Physics	8,800	24.7	18.8	5.9 !	75.3	52.0	23.3	70.8
Social science	119,200	51.7	46.9	4.9	48.3	37.6	10.6	84.5
Economics	6,200	‡	‡	‡	95.9	10.1 !	85.8	11.6 !
Geography	8,000	4.4 !	3.0 !	‡	95.6	21.5 !	74.1	24.5
Government or civics	15,000	‡	‡	‡	95.9	15.1	80.8	15.8
History	60,100	40.6	20.0	20.5	59.4	18.1	41.3	38.2
French	11,500	41.2	36.2	‡	58.8	47.9	10.9 !	84.1
German	3,100	65.2	60.5	‡	34.8	33.9	‡	94.4
Latin	2,000 !	17.9 !	‡	‡	82.1	64.8	‡	82.3
Spanish	41,700	52.7	42.5	10.2	47.3	34.9	12.4	77.4
Art or arts and crafts ¹	32,400	70.5	62.5	8.0	29.5	24.0	5.5	86.5
Music ¹	34,900	78.5	72.9	5.6	21.5	15.4	6.1	88.3
Dance and drama or theater ¹	7,500	33.1	27.7	5.5 !	66.9	41.4	25.4	69.1

! Interpret data with caution. The standard error for this estimate is equal to 30 percent or more of the estimate's value.

‡ Reporting standards not met.

¹Teachers of art/arts and crafts, music, and dance/theater were allowed to report an ungraded or secondary level (grades 9-12) certification.

NOTE: Teachers include traditional public school and public charter school teachers who taught departmentalized classes to students in any of grades 10–12, or grade 9 and no grade lower. Under science and social science, several subfields are examined in detail. These subfields are not inclusive of all subfields in the subject and, therefore, do not add to the broad field total. See *Education and Certification Qualifications of Departmentalized Public High School-Level Teachers of Core Subjects: Evidence from the 2007–08 Schools and Staffing Survey* (NCES 2011-317) appendices for technical notes and specific definitions of subjects within main assignment fields and major/certification areas. "Major in main assignment awarded by a department, college, or school of education" columns include only teachers who earned their major within a department, college, or school of education. Majors in main assignment are credited if they were earned at the bachelor's degree level or higher. "No major in main assignment awarded by a department, college, or school of education" columns include a major earned in main assignment outside a department, college, or school of education or a major out of main assignment. A certification is credited if it is a regular or standard state certificate, or a probationary certification in-subject and at the secondary level (grades 9-12). In cases where a teacher earned two majors under the first bachelor's degree, the department that awarded the first major was used to assign where the first and second majors were earned. All teachers who earned an educational specialist/professional diploma or Certificate of Advanced Graduate Studies were flagged if they received the degree from a department, college, or school of education. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey (SASS), "Public School Teacher Data File," 2007–08.

Table 8. Number of public high school-level teachers who reported a main assignment in a specified field and the percentage distribution with a major in their main assignment awarded outside a department, college, or school of education and/or a certification in that main assignment, by selected main assignments: 2007–08

Selected main assignment	Number of teachers	Major in main assignment awarded outside a department, college, or school of education			No major in main assignment awarded outside a department, college, or school of education			Total certified
		Total	Certified	Not certified	Total	Certified	Not certified	
English	161,300	33.6	28.4	5.2	66.4	52.9	13.5	81.3
Mathematics	143,600	23.5	18.9	4.5	76.5	60.6	16.0	79.5
Science	119,800	44.3	38.0	6.3	55.7	47.5	8.2	85.6
Biology or life sciences	53,800	38.1	28.0	10.1	61.9	49.4	12.5	77.4
Physical science	58,100	25.6	20.0	5.5	74.4	49.4	25.1	69.4
Chemistry	24,500	25.1	17.9	7.2	74.9	53.5	21.4	71.4
Earth sciences	8,500	11.5 †	‡	‡	88.5	41.7	46.8	50.4
Physics	8,800	36.4	26.3	10.1 †	63.6	44.5	19.0	70.8
Social science	119,200	35.3	30.1	5.2	64.7	54.4	10.3	84.5
Economics	6,200	‡	‡	‡	89.1	9.2 †	79.9	11.6 †
Geography	8,000	‡	‡	‡	94.7	21.4	73.3	24.5
Government or civics	15,000	‡	‡	‡	98.0	15.1	82.9	15.8
History	60,100	26.1	12.2	13.9	73.9	26.0	47.9	38.2
French	11,500	44.4	39.3	5.1 †	55.6	44.8	10.7 †	84.1
German	3,100	24.7	23.9	‡	75.3	70.6	‡	94.4
Latin	2,000 †	53.1	41.1	‡	46.9	41.2 †	‡	82.3
Spanish	41,700	23.2	17.6	5.7	76.8	59.8	16.9	77.4
Art or arts and crafts ¹	32,400	25.6	23.1	2.5 †	74.4	63.4	10.9	86.5
Music ¹	34,900	22.8	19.7	3.1 †	77.2	68.7	8.6	88.3
Dance and drama or theater ¹	7,500	30.4	27.1	3.3 †	69.6	42.0	27.6	69.1

† Interpret data with caution. The standard error for this estimate is equal to 30 percent or more of the estimate's value.

‡ Reporting standards not met.

¹Teachers of art/arts and crafts, music, and dance/theater were allowed to report an ungraded or secondary level (grades 9-12) certification.

NOTE: Teachers include traditional public school and public charter school teachers who taught departmentalized classes to students in any of grades 10–12, or grade 9 and no grade lower. Under science and social science, several subfields are examined in detail. These subfields are not inclusive of all subfields in the subject and, therefore, do not add to the broad field total. See *Education and Certification Qualifications of Departmentalized Public High School-Level Teachers of Core Subjects: Evidence from the 2007–08 Schools and Staffing Survey* (NCES 2011-317) appendices for technical notes and specific definitions of subjects within main assignment fields and major/certification areas. "Major in main assignment awarded outside a department, college, or school of education" columns include only teachers who earned their major outside the department, college, or school of education. Majors in main assignment are credited if they were earned at the bachelor's degree level or higher. "No major in main assignment awarded outside a department, college, or school of education" columns include a major earned in main assignment within a department, college, or school of education or a major out of main assignment. A certification is credited if it is a regular or standard state certificate, or a probationary certification in-subject and at the secondary level (grades 9-12). In cases where a teacher earned two majors under the first bachelor's degree, the department that awarded the first major was used to assign where the first and second majors were earned. All teachers who earned an educational specialist/professional diploma or Certificate of Advanced Graduate Studies were flagged if they received the degree from a department, college, or school of education. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey (SASS), "Public School Teacher Data File," 2007–08.

Table 9. Number of public high school-level teachers who reported more than one degree for a main assignment in a specified field and the percentage with majors in main assignment awarded both within and outside a department, college, or school of education and/or a certification in that main assignment, by selected main assignments: 2007–08

Selected main assignment	Number of teachers	Majors in main assignment awarded both within and outside a department, college, or school of education		
		Total	Certified	Not certified
English	161,300	5.2	5.0	‡
Mathematics	143,600	2.8	2.6	‡
Science	119,800	3.8	3.1	‡
Biology or life sciences	53,800	2.8 !	1.9 !	‡
Physical science	58,100	1.3 !	0.9 !	‡
Chemistry	24,500	‡	‡	‡
Earth sciences	8,500	‡	‡	‡
Physics	8,800	‡	‡	‡
Social science	119,200	3.7	3.4	0.3 !
Economics	6,200	#	#	#
Geography	8,000	#	#	#
Government or civics	15,000	#	#	#
History	60,100	2.9 !	1.4 !	‡
French	11,500	‡	‡	‡
German	3,100	‡	‡	‡
Latin	2,000 !	‡	‡	‡
Spanish	41,700	1.3 !	1.0 !	‡
Art or arts and crafts ¹	32,400	6.6	6.3	‡
Music ¹	34,900	6.1	5.7	‡
Dance and drama or theater ¹	7,500	‡	‡	‡

Rounds to zero.

! Interpret data with caution. The standard error for this estimate is equal to 30 percent or more of the estimate's value.

‡ Reporting standards not met.

¹Teachers of art/arts and crafts, music, and dance/theater were allowed to report an ungraded or secondary level (grades 9-12) certification.

NOTE: Teachers include traditional public school and public charter school teachers who taught departmentalized classes to students in any of grades 10–12, or grade 9 and no grade lower. Under science and social science, several subfields are examined in detail. These subfields are not inclusive of all subfields in the subject and, therefore, do not add to the broad field total. See *Education and Certification Qualifications of Departmentalized Public High School-Level Teachers of Core Subjects: Evidence from the 2007–08 Schools and Staffing Survey* (NCES 2011-317) appendices for technical notes and specific definitions of subjects within main assignment fields and major/certification areas. "Majors in main assignment awarded both within and outside a department, college, or school of education" columns include only teachers who have more than one degree in their main assignment: at least one earned within the a department, college, or school of education and another earned outside the a department, college, or school of education. A certification is credited if it is a regular or standard state certificate, or a probationary certification in-subject and at the secondary level (grades 9-12). All teachers who earned an educational specialist/professional diploma or Certificate of Advanced Graduate Studies were flagged if they received the degree from a department, college, or school of education. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey (SASS), "Public School Teacher Data File," 2007–08.

Table A-1. Standard errors for: Number of public high school-level teachers who reported a main assignment in a specified field and the percentage distribution with a major and/or certification in that main assignment, by state: 2007–08

State	Number of teachers	Major in main assignment			No major in main assignment			Total certified
		Total	Certified	Not certified	Total	Certified	Not certified	
United States	22,520	0.63	0.68	0.53	0.63	0.44	0.42	0.62
Alabama	1,360	3.18	6.55	4.62	3.18	2.19	2.36	5.84
Alaska	290	4.78	4.14	3.61	4.78	4.24	4.43	4.77
Arizona	2,570	3.07	4.04	2.70	3.07	2.87	2.07	3.29
Arkansas	670	3.68	3.64	2.39	3.68	3.64	2.27	3.48
California	10,730	2.20	2.28	1.49	2.20	1.81	1.87	2.18
Colorado	1,500	3.03	3.43	2.79	3.03	2.01	2.16	3.25
Connecticut	1,630	2.34	2.87	2.05	2.34	2.29	†	2.17
Delaware	300	7.73	8.21	†	7.73	†	4.12	6.41
District of Columbia	260	5.41	11.00	8.22	†	†	†	11.00
Florida	5,790	2.74	4.29	2.49	2.74	2.09	1.65	3.13
Georgia	2,060	2.93	3.50	2.95	2.93	2.20	1.78	2.96
Hawaii	700	6.31	7.10	4.72	6.31	4.96	4.84	5.65
Idaho	460	3.03	2.74	2.05	3.03	2.32	1.54	2.38
Illinois	2,720	2.35	3.34	2.28	2.35	1.80	†	3.39
Indiana	1,920	2.48	3.00	1.36	2.48	2.21	1.68	2.32
Iowa	760	2.10	2.64	1.37	2.10	2.01	0.93	1.65
Kansas	820	2.96	3.41	2.69	2.96	2.04	2.37	3.48
Kentucky	940	3.09	3.95	2.57	3.09	2.36	2.21	3.49
Louisiana	1,480	4.89	5.60	1.93	4.89	3.84	2.86	3.73
Maine	250	3.49	3.66	2.06	3.49	2.35	2.83	3.11
Maryland	1,890	3.02	3.78	3.25	3.02	2.17	2.41	3.53
Massachusetts	1,240	2.99	3.40	2.04	2.99	2.38	1.85	2.43
Michigan	2,780	2.90	3.24	1.61	2.90	2.57	1.46	2.34
Minnesota	1,930	1.75	1.92	1.46	1.75	1.32	1.21	1.78
Mississippi	770	2.84	2.61	1.71	2.84	2.51	1.95	2.69

See notes at end of table.

Table A-1. Standard errors for: Number of public high school-level teachers who reported a main assignment in a specified field and the percentage distribution with a major and/or certification in that main assignment, by states: 2007–08— Continued

State	Number of teachers	Major in main assignment			No major in main assignment			Total certified
		Total	Certified	Not certified	Total	Certified	Not certified	
Missouri	1,940	2.36	2.97	2.76	2.36	1.91	1.83	3.11
Montana	250	3.29	3.41	1.24	3.29	2.50	1.67	2.04
Nebraska	400	2.54	2.97	1.58	2.54	1.57	1.68	2.22
Nevada	430	3.86	4.32	2.87	3.86	3.32	1.62	3.21
New Hampshire	340	4.01	4.62	2.25	4.01	3.58	2.27	3.20
New Jersey	5,110	2.35	2.67	1.64	2.35	2.36	1.18	2.20
New Mexico	690	5.36	6.17	1.99	5.36	4.08	3.15	4.16
New York	7,780	3.26	3.16	2.49	3.26	2.02	2.34	2.78
North Carolina	1,520	1.94	2.76	2.03	1.94	1.96	1.00	2.30
North Dakota	540	2.97	2.99	2.01	2.97	2.59	†	2.23
Ohio	5,390	4.24	4.07	2.14	4.24	4.15	1.18	2.28
Oklahoma	1,260	2.82	2.59	1.86	2.82	2.26	1.72	2.21
Oregon	1,040	2.47	3.13	2.32	2.47	2.15	1.84	2.67
Pennsylvania	3,140	2.98	3.16	1.90	2.98	2.46	1.92	2.63
Rhode Island	440	7.39	8.04	4.37	7.39	6.65	†	4.90
South Carolina	660	2.81	3.89	2.58	2.81	2.74	1.57	3.00
South Dakota	340	3.82	3.85	2.03	3.82	3.49	†	2.75
Tennessee	1,270	3.56	3.37	2.22	3.56	3.04	1.54	2.60
Texas	9,720	3.36	3.61	2.60	3.36	3.06	2.09	3.09
Utah	930	4.06	4.57	†	4.06	2.89	3.31	3.61
Vermont	480	5.16	5.90	2.93	5.16	4.86	†	4.18
Virginia	2,390	3.90	4.55	2.59	3.90	3.37	†	3.40
Washington	1,860	3.07	3.59	2.87	3.07	2.10	2.50	3.55
West Virginia	380	2.62	3.39	1.94	2.62	2.20	1.43	2.13
Wisconsin	1,600	1.87	2.38	1.52	1.87	1.58	†	1.89
Wyoming	180	5.06	5.50	3.13	5.06	4.13	†	3.93

† Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey (SASS), "Public School Teacher Data File," 2007–08.

Table A-2. Standard errors for: Number of public high school-level teachers who reported a main assignment in a specified field and the percentage distribution with a major and/or certification in that main assignment, by selected teacher and school characteristics: 2007–08

Selected school and teacher characteristic	Number of teachers	Major in main assignment			No major in main assignment			
		Total	Certified	Not certified	Total	Certified	Not certified	Total certified
All teachers	22,520	0.63	0.68	0.53	0.63	0.44	0.42	0.62
Average class size								
10 or fewer students	2,220	2.99	3.19	1.88	2.99	2.00	2.53	3.03
11-18	7,270	1.24	1.41	0.95	1.24	1.07	0.80	1.26
19-27	11,620	0.86	1.01	0.80	0.86	0.67	0.55	0.93
28 or more students	8,510	1.09	1.17	0.80	1.09	0.82	0.74	0.96
Years of teaching experience								
3 or fewer	4,980	1.63	1.91	1.40	1.63	0.93	1.30	1.67
4-9	8,070	1.09	1.22	0.90	1.09	0.91	0.65	1.08
10-19	7,160	1.11	1.37	1.15	1.11	0.79	0.71	1.35
20 or more	8,330	1.07	1.14	0.86	1.07	1.11	0.70	1.09
School classification								
Charter school	4,660	4.03	7.08	3.85	4.03	2.81	2.80	5.11
Traditional public school	20,330	0.63	0.64	0.51	0.63	0.45	0.43	0.60
Community type								
City	10,750	1.47	1.69	1.29	1.47	0.94	1.02	1.45
Suburban	13,170	0.95	1.02	0.70	0.95	0.86	0.60	0.80
Town	6,040	1.73	1.93	0.95	1.73	1.43	1.01	1.34
Rural	13,980	1.33	1.63	0.89	1.33	1.14	0.75	1.26
Student enrollment								
Less than 100	3,030	4.85	7.58	5.13	4.85	4.15	3.13	5.26
100-199	2,440	3.04	3.44	1.77	3.04	2.94	1.87	2.71
200-499	7,200	2.02	2.38	1.77	2.02	1.84	1.44	2.10
500-749	5,900	1.94	2.06	1.10	1.94	1.49	1.07	1.45
750-999	5,650	1.73	1.78	1.17	1.73	1.44	0.92	1.27
1,000-1,499	8,610	1.16	1.52	1.05	1.16	0.89	0.73	1.22
1,500 or more	15,740	0.90	0.91	0.64	0.90	0.76	0.57	0.80
Percent of K-12 students in school who are of a racial/ethnic minority								
Less than 20	11,820	0.94	0.93	0.50	0.94	0.88	0.43	0.62
20 to 59	12,500	1.24	1.43	0.74	1.24	0.89	0.74	1.05
60 or more	13,330	1.22	1.43	1.11	1.22	0.78	0.89	1.26
Percent of K-12 students in school who were approved for free or reduced-price lunches								
Less than 35	17,970	0.79	0.86	0.51	0.79	0.65	0.48	0.73
35-49	8,340	1.53	1.95	0.93	1.53	1.12	0.94	1.44
50-74	8,830	1.52	1.62	1.33	1.52	0.94	1.08	1.23
75 or more	6,850	2.62	3.19	3.00	2.62	1.41	2.28	3.17
School did not participate in free or reduced-price lunch program	2,230	2.58	4.24	3.64	2.58	2.06	2.59	4.33

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey (SASS), "Public School Teacher Data File," 2007-08.

Table A-3. Standard errors for: Number of public high school-level teachers with a main assignment in English and the percentage distribution with a major and/or certification in English, by selected teacher and school characteristics: 2007–08

Selected teacher and school characteristic	Number of teachers	Major in English			No major in English			Total certified in English
		Total	Certified in English	Not certified in English	Total	Certified in English	Not certified in English	
All teachers with an English main assignment	7,480	1.19	1.45	0.97	1.19	0.90	0.81	1.27
Average class size								
10 or fewer students	1,110	6.03	6.59	4.28	6.03	3.55	5.12	5.94
11-18	2,960	2.27	2.93	1.89	2.27	1.76	1.58	2.50
19-27	4,560	1.70	1.93	1.27	1.70	1.50	0.87	1.50
28 or more students	2,540	2.77	3.55	2.11	2.77	2.08	2.08	3.12
Years of teaching experience								
3 or fewer	2,450	3.15	3.53	2.62	3.15	1.98	2.52	3.29
4-9	3,350	2.11	2.56	1.63	2.11	1.61	1.37	2.27
10-19	2,750	1.84	2.33	1.43	1.84	1.51	1.14	1.72
20 or more	2,930	2.08	2.66	1.99	2.08	1.73	1.61	2.47
School classification								
Charter school	1,470	8.83	12.36	5.63	8.83	6.92	5.48	7.25
Traditional public school	6,670	1.19	1.38	0.97	1.19	0.91	0.81	1.24
Community type								
City	3,740	2.75	3.27	2.32	2.75	1.73	2.13	2.98
Suburban	3,450	1.96	2.13	1.56	1.96	1.78	1.01	1.89
Town	1,670	3.48	4.01	2.15	3.48	2.73	2.37	3.32
Rural	3,690	1.95	2.81	1.94	1.95	1.90	0.86	2.12
Student enrollment								
Less than 100	1,140	8.06	8.13	6.02	8.06	8.47	7.56	6.38
100-199	790	5.76	6.98	3.85	5.76	5.13	3.64	5.14
200-499	1,930	3.49	3.95	2.03	3.49	2.66	2.45	3.15
500-749	1,740	2.62	3.46	2.60	2.62	1.87	2.35	3.21
750-999	1,730	2.56	3.26	2.69	2.56	2.51	1.06	2.89
1,000-1,499	2,500	2.47	3.17	2.08	2.47	2.18	1.00	2.37
1,500 or more	4,420	1.89	2.21	1.63	1.89	1.17	1.53	2.18
Percent of K-12 students in school who are of a racial/ethnic minority								
Less than 20	3,330	1.49	1.68	1.21	1.49	1.30	0.80	1.45
20 to 59	4,130	2.13	2.40	1.45	2.13	1.84	1.35	1.98
60 or more	4,230	2.37	2.74	2.20	2.37	1.65	1.80	2.58
Percent of K-12 students in school who were approved for free or reduced-price lunches								
Less than 35	5,170	1.46	1.75	1.12	1.46	1.17	0.81	1.44
35-49	2,560	2.58	3.41	2.37	2.58	2.13	1.55	2.57
50-74	2,760	2.64	3.89	3.18	2.64	2.20	1.91	3.67
75 or more	2,250	5.74	5.01	4.34	5.74	2.80	4.91	4.77
School did not participate in free or reduced-price lunch program	780	4.20	6.85	5.62	4.20	2.48	4.19	6.73

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey (SASS), "Public School Teacher Data File," 2007–08.

Table A-4. Standard errors for: Number of public high school-level teachers with a main assignment in mathematics and the percentage distribution with a major and/or certification in mathematics, by selected teacher and school characteristics: 2007–08

Selected teacher and school characteristic	Number of teachers	Major in mathematics			No major in mathematics			Total certified in mathematics
		Total	Certified in mathematics	Not certified in mathematics	Total	Certified in mathematics	Not certified in mathematics	
All teachers with a mathematics main assignment	5,740	1.58	1.53	1.43	1.58	1.12	1.12	1.54
Average class size								
10 or fewer students	970	5.42	5.87	3.39	5.42	4.00	5.26	6.12
11-18	2,170	2.93	3.14	2.11	2.93	2.15	1.77	2.60
19-27	3,940	2.11	2.40	2.44	2.11	1.74	1.64	2.64
28 or more students	2,500	3.11	3.44	2.14	3.11	2.32	1.90	2.65
Years of teaching experience								
3 or fewer	1,640	3.64	3.82	2.52	3.64	2.82	3.27	3.80
4-9	2,310	2.66	2.95	2.01	2.66	2.12	2.07	2.73
10-19	3,300	2.31	3.36	3.78	2.31	1.72	1.48	3.66
20 or more	2,380	2.42	2.68	1.58	2.42	2.07	1.82	2.27
School classification								
Charter school	1,230	9.62	9.06	†	9.62	8.28	7.09	8.14
Traditional public school	5,190	1.54	1.52	1.46	1.54	1.12	1.12	1.58
Community type								
City	3,370	3.17	3.81	3.98	3.17	2.02	2.79	4.47
Suburban	3,410	2.43	2.85	1.86	2.43	2.16	1.57	2.00
Town	1,910	4.64	4.47	1.83	4.64	3.41	3.09	3.54
Rural	3,190	2.54	2.64	1.24	2.54	2.13	1.52	1.81
Student enrollment								
Less than 100	760	10.10	8.29	†	10.10	12.86	7.85	10.67
100-199	750	6.46	6.51	3.41	6.46	5.60	5.06	5.69
200-499	2,740	4.78	5.54	6.69	4.78	2.79	3.87	6.39
500-749	1,510	3.72	3.86	2.54	3.72	3.09	2.22	3.22
750-999	1,610	4.16	4.29	2.77	4.16	3.18	3.37	3.73
1,000-1,499	2,290	2.49	2.85	1.64	2.49	2.18	1.64	2.30
1,500 or more	3,430	2.66	2.86	1.58	2.66	1.97	1.54	2.03
Percent of K-12 students in school who are of a racial/ethnic minority								
Less than 20	2,600	1.82	1.79	1.06	1.82	1.57	0.99	1.46
20 to 59	2,900	3.41	3.28	1.86	3.41	2.60	2.21	2.63
60 or more	4,450	2.74	3.07	3.35	2.74	2.00	2.36	3.58
Percent of K-12 students in school who were approved for free or reduced-price lunches								
Less than 35	3,790	1.84	2.13	1.29	1.84	1.33	1.18	1.68
35-49	2,450	3.38	3.72	1.89	3.38	2.66	2.20	2.89
50-74	2,420	2.91	3.86	2.86	2.91	2.08	2.30	3.61
75 or more	2,480	7.26	7.81	†	7.26	3.04	6.69	8.90
School did not participate in free or reduced-price lunch program	760	7.19	7.99	†	7.19	7.23	5.98	7.58

† Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey (SASS), "Public School Teacher Data File," 2007–08.

Table A-5. Standard errors for: Number of public high school-level teachers with a main assignment in science and the percentage distribution with a major and/or certification in science, by selected teacher and school characteristics: 2007–08

Selected teacher and school characteristic	Number of teachers	Major in science			No major in science			Total certified in science
		Total	Certified in science	Not certified in science	Total	Certified in science	Not certified in science	
All teachers with a science main assignment	5,610	1.16	1.44	0.92	1.16	1.05	0.74	1.20
Average class size								
10 or fewer students	710	7.20	7.10	5.91	7.20	7.29	4.81	6.71
11-18	2,080	2.24	2.83	1.64	2.24	1.69	1.73	2.48
19-27	2,880	1.66	1.84	1.17	1.66	1.56	0.86	1.49
28 or more students	2,670	2.60	2.92	2.02	2.60	2.34	†	2.46
Years of teaching experience								
3 or fewer	1,760	2.78	4.13	3.09	2.78	1.30	2.66	4.11
4-9	2,590	2.09	2.40	1.49	2.09	1.78	1.54	2.24
10-19	2,030	2.45	2.83	1.85	2.45	2.26	1.04	2.14
20 or more	2,330	2.38	3.04	1.50	2.38	2.48	†	1.97
School classification								
Charter school	1,020	9.56	12.05	6.31	9.56	†	9.79	13.15
Traditional public school	5,140	1.20	1.50	0.93	1.20	1.08	0.61	1.13
Community type								
City	2,630	2.49	3.33	2.35	2.49	2.40	†	2.87
Suburban	3,020	2.12	2.48	1.26	2.12	2.01	0.57	1.38
Town	1,540	3.31	3.98	2.52	3.31	2.72	1.91	2.86
Rural	2,720	2.56	3.16	1.75	2.56	1.83	1.96	2.90
Student enrollment								
Less than 100	750	9.90	16.10	9.65	9.90	†	†	16.85
100-199	680	7.15	7.38	2.90	7.15	7.81	3.42	4.58
200-499	1,610	2.33	3.95	3.15	2.33	1.90	1.90	3.87
500-749	1,230	4.32	4.57	1.93	4.32	3.43	2.08	2.74
750-999	1,340	3.65	4.38	2.20	3.65	3.51	†	2.51
1,000-1,499	1,990	2.21	2.98	2.34	2.21	1.75	1.21	2.65
1,500 or more	3,930	2.13	2.26	1.47	2.13	2.03	1.05	1.59
Percent of K-12 students in school who are of a racial/ethnic minority								
Less than 20	2,590	2.00	2.03	1.47	2.00	1.95	0.88	1.68
20 to 59	3,260	2.43	2.92	1.79	2.43	1.93	1.16	2.23
60 or more	3,200	2.88	2.97	1.87	2.88	2.32	1.96	2.76
Percent of K-12 students in school who were approved for free or reduced-price lunches								
Less than 35	4,380	1.65	2.07	1.31	1.65	1.51	0.52	1.40
35-49	1,820	2.95	3.31	1.93	2.95	1.84	2.68	3.27
50-74	1,870	3.08	3.60	2.21	3.08	2.76	1.63	2.96
75 or more	1,720	5.68	6.20	4.60	5.68	4.32	†	5.35
School did not participate in free or reduced-price lunch program	420	8.41	9.51	6.38	8.41	†	†	7.48

† Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey (SASS), "Public School Teacher Data File," 2007–08.

Table A-6. Standard errors for: Number of public high school-level teachers with a main assignment in social science and the percentage distribution with a major and/or certification in social science, by selected teacher and school characteristics: 2007–08

Selected teacher and school characteristic	Number of teachers	Major in social science			No major in social science			Total certified in social science
		Total	Certified in social science	Not certified in social science	Total	Certified in social science	Not certified in social science	
All teachers with a social science main assignment	5,100	1.22	1.44	1.00	1.22	1.04	0.79	1.18
Average class size								
10 or fewer students	630	5.03	6.08	4.16	5.03	2.36	4.76	5.80
11-18	1,850	2.36	3.03	2.02	2.36	1.59	2.07	2.93
19-27	3,150	1.75	2.00	1.48	1.75	1.57	1.17	1.72
28 or more students	2,450	2.05	2.56	1.63	2.05	1.94	0.93	1.85
Years of teaching experience								
3 or fewer	1,960	2.17	3.88	3.28	2.17	1.64	1.49	3.63
4-9	2,680	2.05	2.58	1.63	2.05	1.70	0.94	1.95
10-19	1,910	2.14	2.46	1.34	2.14	1.67	1.69	2.03
20 or more	1,840	2.73	2.97	2.17	2.73	2.32	1.85	2.79
School classification								
Charter school	1,310	4.89	8.12	5.73	4.89	3.71	3.80	6.03
Traditional public school	4,560	1.24	1.40	0.98	1.24	1.05	0.80	1.16
Community type								
City	2,780	2.56	3.24	2.45	2.56	1.96	1.79	2.80
Suburban	2,900	1.93	2.12	1.40	1.93	1.82	1.07	1.56
Town	1,330	3.17	3.64	2.77	3.17	2.26	2.13	3.30
Rural	3,140	2.66	2.85	1.52	2.66	1.98	1.75	2.01
Student enrollment								
Less than 100	540	6.36	8.15	6.18	6.36	3.51	5.88	7.27
100-199	750	7.08	7.35	3.45	7.08	6.32	3.58	4.98
200-499	1,550	3.41	4.34	3.15	3.41	2.17	2.94	4.13
500-749	1,320	4.09	3.75	2.42	4.09	4.10	1.80	2.86
750-999	1,290	3.82	4.72	3.95	3.82	2.76	2.45	4.22
1,000-1,499	1,750	2.52	3.11	2.02	2.52	1.96	1.78	2.65
1,500 or more	3,670	2.18	2.31	1.48	2.18	2.02	1.19	1.80
Percent of K-12 students in school who are of a racial/ethnic minority								
Less than 20	3,060	2.19	2.17	1.31	2.19	2.02	1.26	1.60
20 to 59	2,470	2.10	2.42	1.64	2.10	1.79	1.19	2.03
60 or more	3,140	2.28	2.86	2.00	2.28	1.70	1.61	2.40
Percent of K-12 students in school who were approved for free or reduced-price lunches								
Less than 35	3,600	1.86	1.86	1.15	1.86	1.39	1.22	1.51
35-49	1,650	2.64	2.96	1.99	2.64	2.13	1.77	2.35
50-74	2,320	2.61	3.52	3.06	2.61	2.35	1.48	3.08
75 or more	1,510	5.24	5.55	4.28	5.24	4.13	4.00	5.38
School did not participate in free or reduced-price lunch program	810	4.82	7.64	6.15	4.82	†	†	7.27

† Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey (SASS), "Public School Teacher Data File," 2007–08.

Table A-7. Standard errors for: Number of public high school-level teachers who reported a main assignment in a specified field and the percentage distribution with a major in their main assignment awarded by a department, college, or school of education and/or a certification in that main assignment, by selected main assignments: 2007–08

Selected main assignment	Number of teachers	Major in main assignment awarded by a department, college, or school of education			No major in main assignment awarded by a department, college, or school of education			Total certified
		Total	Certified	Not certified	Total	Certified	Not certified	
English	7,480	1.68	1.49	0.65	1.68	1.60	1.11	1.27
Mathematics	5,740	1.31	1.27	0.71	1.31	1.49	1.49	1.54
Science	5,610	1.56	1.63	0.77	1.56	1.58	0.93	1.20
Biology or life sciences	2,520	2.82	2.73	1.02	2.82	2.70	1.72	1.93
Physical science	3,450	1.73	1.77	0.87	1.73	2.37	2.09	2.22
Chemistry	1,870	3.05	2.64	1.72	3.05	4.17	3.76	3.92
Earth sciences	1,140	5.44	5.38	1.61	5.44	7.02	6.84	6.84
Physics	1,280	5.42	4.30	2.82	5.42	6.13	4.75	5.10
Social science	5,100	1.65	1.60	0.67	1.65	1.54	1.06	1.18
Economics	850	†	†	†	2.82	4.75	5.33	4.88
Geography	1,300	1.94	1.43	†	1.94	6.45	6.83	6.70
Government or civics	1,300	†	†	†	2.09	2.73	3.34	2.82
History	3,390	2.43	1.79	2.04	2.43	1.56	2.31	2.06
French	1,390	5.11	4.97	†	5.11	5.71	3.45	4.46
German	580	8.60	8.97	†	8.60	8.32	†	4.72
Latin	600	8.88	†	†	8.88	14.05	†	12.06
Spanish	2,910	3.01	2.65	2.14	3.01	2.80	1.89	2.52
Art or arts and crafts	2,390	4.38	4.25	1.51	4.38	4.85	1.51	2.41
Music	1,950	2.60	2.68	1.06	2.60	2.08	1.60	1.71
Dance and drama or theater	1,050	6.20	6.08	2.53	6.20	6.61	6.23	6.55

† Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey (SASS), "Public School Teacher Data File," 2007–08.

Table A-8. Standard errors for: Number of public high school-level teachers who reported a main assignment in a specified field and the percentage distribution with a major in their main assignment awarded outside a department, college, or school of education and/or a certification in that main assignment, by selected main assignments: 2007–08

Selected main assignment	Number of teachers	Major in main assignment awarded outside a department, college, or school of education			No major in main assignment awarded outside a department, college, or school of education			Total certified
		Total	Certified	Not certified	Total	Certified	Not certified	
English	7,480	1.63	1.49	0.70	1.63	1.47	0.98	1.27
Mathematics	5,740	1.79	1.42	1.31	1.79	1.55	1.22	1.54
Science	5,610	1.51	1.43	0.68	1.51	1.56	1.03	1.20
Biology or life sciences	2,520	2.61	2.45	1.49	2.61	2.49	1.42	1.93
Physical science	3,450	2.60	2.65	1.06	2.60	2.62	2.20	2.22
Chemistry	1,870	3.31	3.35	2.10	3.31	3.76	3.63	3.92
Earth sciences	1,140	5.60	†	†	5.60	6.83	6.78	6.84
Physics	1,280	6.88	6.81	3.76	6.88	6.24	4.06	5.10
Social science	5,100	1.55	1.48	0.81	1.55	1.66	0.99	1.18
Economics	850	†	†	†	6.52	3.87	7.58	4.88
Geography	1,300	†	†	†	4.32	6.28	6.95	6.70
Government or civics	1,300	†	†	†	1.22	2.83	3.17	2.82
History	3,390	2.13	1.54	2.00	2.13	2.09	2.15	2.06
French	1,390	5.72	5.69	1.75	5.72	5.42	4.66	4.46
German	580	7.32	6.96	†	7.32	7.97	†	4.72
Latin	600	12.30	11.09	†	12.30	12.67	†	12.06
Spanish	2,910	2.39	2.11	1.40	2.39	3.00	2.34	2.52
Art or arts and crafts	2,390	2.77	2.59	0.92	2.77	3.32	2.01	2.41
Music	1,950	2.39	2.30	0.97	2.39	2.92	1.45	1.71
Dance and drama or theater	1,050	5.17	5.03	1.61	5.17	6.46	6.30	6.55

† Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey (SASS), "Public School Teacher Data File," 2007–08.

Table A-9. Standard errors for: Number of public high school-level teachers who reported more than one degree for a main assignment in a specified field and the percentage with majors in main assignment awarded both within and outside a department, college, or school of education and/or a certification in that main assignment, by selected main assignments: 2007–08

Selected main assignment	Number of teachers	Majors in main assignment awarded both within and outside a department, college, or school of education		
		Total	Certified	Not certified
English	7,480	0.71	0.68	†
Mathematics	5,740	0.46	0.47	†
Science	5,610	0.68	0.63	†
Biology or life sciences	2,520	0.99	0.75	†
Physical science	3,450	0.44	0.41	†
Chemistry	1,870	†	†	†
Earth sciences	1,140	†	†	†
Physics	1,280	†	†	†
Social science	5,100	0.79	0.75	0.15
Economics	850	†	†	†
Geography	1,300	†	†	†
Government or civics	1,300	†	†	†
History	3,390	1.08	0.55	†
French	1,390	†	†	†
German	580	†	†	†
Latin	600	†	†	†
Spanish	2,910	0.65	0.50	†
Art or arts and crafts	2,390	1.40	1.38	†
Music	1,950	1.53	1.51	†
Dance and drama or theater	1,050	†	†	†

† Not applicable.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey (SASS), "Public School Teacher Data File," 2007–08.