

CHAPTER 6

International Comparisons of Education

This chapter offers a broad perspective on education across the nations of the world. It also provides an international context for examining the condition of education in the United States. Insights into the educational practices and outcomes of the United States are obtained by comparing them with those of other education systems. Most of the education systems represent countries; however, some of the tables in this chapter also include data for subnational entities with separate education systems, such as Hong Kong. The National Center for Education Statistics (NCES) carries out a variety of activities in order to provide statistical data for international comparisons of education.

This chapter presents data drawn from materials prepared by the United Nations Educational, Scientific, and Cultural Organization (UNESCO); the Organization for Economic Cooperation and Development (OECD); and the International Association for the Evaluation of Educational Achievement (IEA). Basic summary data on enrollments and enrollment ratios, teachers, educational attainment, and finances were synthesized from data published by OECD in the Online Education Database and the annual *Education at a Glance* report, as well as from data collected by UNESCO. Even though their tabulations are carefully prepared, international data users should be cautioned about the many problems of definition and reporting involved in the collection of data about the education systems of the world (see the OECD and UNESCO entries in Appendix A: Guide to Sources).

Also presented in this chapter are data from two international assessments of student achievement that are carried out under the aegis of IEA and supported by NCES. The Trends in International Mathematics and Science Study (TIMSS), formerly known as the Third International Mathematics and Science Study, assesses the mathematics and science knowledge and skills of fourth- and eighth-graders every 4 years. The Progress in International Reading Literacy Study (PIRLS) measures the reading knowledge and skills of fourth-graders every 5 years.

This chapter includes additional information from the Program for International Student Assessment (PISA), an OECD assessment supported by NCES. PISA provides performance scores of 15-year-olds in the areas of reading, mathematics, and science literacy; it also measures general, or cross-curricular, competencies such as learning strategies. While PISA focuses on OECD countries, data from some non-OECD education systems are also provided.

Further information on survey methodologies is in Appendix A: Guide to Sources and in the publications cited in the table source notes.

Population

Among the reporting OECD countries, Mexico had the largest percentage of its population made up of young people ages 5 to 14 (20 percent) in 2010, followed by Israel and Turkey (both at 18 percent) (table 601.30). OECD countries with small percentages of people in this age group included the Czech Republic, Estonia, Germany, Greece, Italy, Japan, and Slovenia (all at 9 percent), and Austria, Hungary, Poland, Portugal, the Slovak Republic, Spain, and Switzerland (all at 10 percent). In the United States, the proportion of 5- to 14-year-olds was 13 percent, which was higher than in most of the other OECD countries.

Enrollments

In 2011, about 1.4 billion students were enrolled in schools around the world (table 601.10). Of these students, 699 million were in elementary-level programs, 544 million were in secondary programs, and 183 million were in postsecondary programs.

From 2000 to 2011, enrollment changes varied from region to region. Changes in elementary enrollment ranged from increases of 49 percent in Africa, 8 percent in Oceania, and less than 1 percent in Asia to decreases of 12 percent in Europe, 6 percent in Central and South America (including Latin America and the Caribbean), and 1 percent in Northern America (including Bermuda, Canada, Greenland, St. Pierre and Miquelon, and the United States) (table F, table 601.10, and figure 27). Over the same period, secondary enrollment increased by 68 percent in Africa, 29 percent in Asia, 11 percent in Central and South America, and 5 percent in Northern America, but decreased by 20 percent in Europe and 4 percent in Oceania. At the postsecondary level, enrollments increased in all major areas of the world from 2000 to 2011. Postsecondary enrollment rose by 126 percent in Asia, 96 percent in Central and South America, 80 percent in Africa, 54 percent in Oceania, 51 percent in Northern America, and 31 percent in Europe. These increases are due to both growth in the percentages of people attending postsecondary institutions and population increases.

Table F. Population and enrollment at different levels in major areas of the world: 2000 and 2011

[In millions]

Area of the world	Population	Enrollment		
		Elementary	Secondary	Postsecondary
World total				
2000.....	6,090.3	654.7	450.4	99.5
2011.....	6,943.4	699.3	544.0	183.0
Africa				
2000.....	803.5	108.3	38.3	6.1
2011.....	1,048.3	161.5	64.2	10.9
Asia				
2000.....	3,694.6	404.0	258.5	41.0
2011.....	4,181.6	404.7	332.9	92.8
Europe				
2000.....	730.6	41.7	70.4	25.6
2011.....	740.3	36.8	56.5	33.5
Central and South America				
2000.....	517.8	70.0	54.7	11.4
2011.....	592.2	65.9	60.8	22.4
Northern America				
2000.....	313.4	27.4	25.1	14.4
2011.....	345.8	27.0	26.4	21.8
Oceania				
2000.....	30.4	3.1	3.4	1.0
2011.....	35.4	3.4	3.2	1.6

SOURCE: United Nations Educational, Scientific, and Cultural Organization, unpublished tabulations, and U.S. Department of Commerce, Census Bureau, International Data Base.

In 2011, the reporting OECD country with the highest proportion of 18- to 21-year-olds enrolled in postsecondary education was the Republic of Korea (68 percent), followed by the United States (50 percent), Greece (48 percent), Belgium (46 percent), and Slovenia (44 percent) (table 601.40). Also in 2011, the reporting OECD country with the highest proportion of 22- to 25-year-olds enrolled in postsecondary education was Slovenia (39 percent), followed by Finland and the Republic of Korea (both at 38 percent) and Denmark (37 percent). The United States' proportion of enrolled 22- to 25-year-olds was 27 percent. Postsecondary enrollment varied among countries due partially to differences in how postsecondary education is defined and the age at which postsecondary education begins. For example, programs classified as postsecondary education in some countries may be classified as long-duration secondary education in other countries.

Achievement

Mathematics and Science at Grades 4 and 8

The 2011 TIMSS assessed students' mathematics and science performance at grade 4 in 45 countries and at grade 8 in 38 countries. A number of subnational entities also participated in TIMSS as separate education systems. Examples of subnational participants include the cities of Hong Kong and Taipei, several U.S. states and Canadian provinces, Northern Ireland and England within the United Kingdom, and the Flemish community in Belgium. Results for individual U.S. states are based on public school students only,

while U.S. national results are based on both public and private school students. TIMSS assessments are curriculum based and measure what students have actually learned against the subject matter that is expected to be taught in the participating education systems by the end of grades 4 and 8. At both grades, TIMSS scores are reported on a scale of 0 to 1,000, with the scale average set at 500.

In 2011, the average mathematics scores of U.S. fourth-graders (541) and eighth-graders (509) were higher than the TIMSS scale average of 500 (tables 602.20 and 602.30). The average U.S. fourth-grade mathematics score was higher than the average score in 37 of the 44 other countries participating at grade 4, lower than the average score in 3 countries, and not measurably different from the average score in the remaining 4 countries (table 602.20). The 3 countries that outperformed the United States in fourth-grade mathematics were Singapore, the Republic of Korea, and Japan. At grade 8, the average U.S. mathematics score was higher than the average score in 27 of the 37 other participating countries in 2011, lower than the average score in 4 countries, and not measurably different from the average score in the remaining 6 countries (table 602.30). The 4 countries that outperformed the United States in eighth-grade mathematics were the Republic of Korea, Singapore, Japan, and the Russian Federation.

Of the two U.S. states that participated in the 2011 TIMSS as separate education systems at grade 4, one state—North Carolina—had an average score for public schools that was higher than both the TIMSS scale average and the U.S. national average in mathematics (table 602.20). Public schools in the other state, Florida, had an average fourth-grade mathematics score that was higher than the TIMSS scale average but not measurably different from the U.S. national average. Of the nine U.S. states that participated separately at grade 8, four states—Massachusetts, Minnesota, North Carolina, and Indiana—had public school average scores that were higher than both the TIMSS scale average and the U.S. national average in mathematics (table 602.30). The public schools in three states—Colorado, Connecticut, and Florida—had average eighth-grade mathematics scores that were higher than the TIMSS scale average but not measurably different from the U.S. national average. The average eighth-grade score for public schools in California was not measurably different from the TIMSS scale average but was lower than the U.S. national average, while Alabama's public school average was lower than both the TIMSS scale average and the U.S. national average in mathematics.

The average science scores of both U.S. fourth-graders (544) and U.S. eighth-graders (525) were higher than the TIMSS scale average of 500 in 2011 (tables 602.20 and 602.30). The average U.S. fourth-grade science score was higher than the average score in 39 of the 44 other countries participating at grade 4 and lower than the average score in 5 countries (table 602.20). The 5 countries that outperformed the United States in fourth-grade science were the Republic of Korea, Singapore, Finland, Japan, and the Rus-

sian Federation. At grade 8, the average U.S. science score was higher than the average score in 28 of the 37 other participating countries in 2011, lower than the average score in 6 countries, and not measurably different from the average score in the remaining 3 countries (table 602.30). The 6 countries that outperformed the United States in eighth-grade science were Singapore, the Republic of Korea, Japan, Finland, Slovenia, and the Russian Federation.

Public schools in both Florida and North Carolina, which were the two U.S. states participating in the 2011 TIMSS at grade 4, had average fourth-grade science scores that were higher than the TIMSS scale average but not measurably different from the U.S. national average (table 602.20). Of the nine U.S. states that participated at grade 8, three states—Massachusetts, Minnesota, and Colorado—had public school average scores that were higher than both the TIMSS scale average and the U.S. national average in science (table 602.30). Public schools in four states—Indiana, Connecticut, North Carolina, and Florida—had average eighth-grade science scores that were higher than the TIMSS scale average but not measurably different from the U.S. national average. The average eighth-grade score for public schools in California was not measurably different from the TIMSS scale average but was lower than the U.S. national average, while Alabama’s public school average was lower than both the TIMSS scale average and the U.S. national average in science.

Reading Literacy at Grade 4

PIRLS has conducted international assessments of fourth-grade reading literacy in 2001, 2006, and 2011. In 2011, PIRLS participants consisted of 40 countries as well as a number of subnational education systems. Examples of subnational participants include the cities of Hong Kong and Taipei, the public school system of the U.S. state of Florida, several Canadian provinces, Northern Ireland and England within the United Kingdom, and the Flemish community in Belgium. PIRLS scores are reported on a scale from 0 to 1,000, with the scale average set at 500.

On the 2011 PIRLS, U.S. fourth-graders had an average reading literacy score of 556 (table 602.10). The U.S. average score in 2011 was 14 points higher than in 2001 and 16 points higher than in 2006. In all 3 assessment years, the U.S. average score was higher than the PIRLS scale average.

In 2011, the average reading literacy score of fourth-graders in the United States was higher than the average score in 33 of the 39 other participating countries, lower than the average score in 3 countries, and not measurably different from the average in the remaining 3 countries. The 3 countries that outperformed the United States on the 2011 PIRLS were the Russian Federation, Finland, and Singapore. Public school students in Florida scored higher than both the PIRLS scale average and the U.S. national average.

In the United States, the 2011 average reading literacy score for females (562) was higher than the average score for males (551). In 34 of the 39 other participating countries, the

average score for females was also higher than the average score for males, while there was no measurable difference between females’ and males’ average scores in the remaining 5 countries.

Reading, Mathematics, and Science Literacy at Age 15

PISA assesses 15-year-old students’ application of reading, mathematics, and science literacy to problems within a real-life context. In 2012, PISA assessed students in the 34 OECD countries as well as in a number of other education systems. Some subnational entities participated as separate education systems, including the U.S. states of Connecticut, Florida, and Massachusetts. Results for individual U.S. states are based on public school students only, while U.S. national results are based on both public and private school students. PISA scores are reported on a scale of 0 to 1,000.

On the 2012 PISA assessment, U.S. 15-year-olds’ average score in reading literacy was 498, which was not measurably different from the OECD average of 496 (table 602.50). The average reading literacy score in the United States was lower than the average score in 13 of the 33 other OECD countries, higher than the average score in 10 of the other OECD countries, and not measurably different from the average score in 10 of the OECD countries. The average reading literacy scores of public school students in Massachusetts (527) and Connecticut (521) were higher than both the U.S. average and the OECD average, while the average score in Florida (492) was not measurably different from either the U.S. average or the OECD average. In all participating education systems, females outperformed males in reading (table 602.40). The U.S. gender gap in reading (31 points) was smaller than the OECD average gap (38 points) and smaller than the gaps in 14 of the OECD countries.

In mathematics literacy, U.S. 15-year-olds’ average score of 481 on the 2012 PISA assessment was lower than the OECD average score of 494 (table 602.60). The average mathematics literacy score in the United States was lower than the average in 21 of the 33 other OECD countries, higher than the average in 5 OECD countries, and not measurably different from the average in 7 OECD countries. The average mathematics literacy score of public school students in Massachusetts (514) was higher than both the U.S. average and the OECD average, while the average score in Connecticut (506) was higher than the U.S. average but not measurably different from the OECD average. The average score in Florida (467) was lower than both the U.S. average and the OECD average. In 25 of the OECD countries, males outperformed females in mathematics literacy (table 602.40). In the United States, however, the average score of males (484) was not measurably different from that of females (479).

In science literacy, U.S. 15-year-olds’ average score of 497 was not measurably different from the OECD average score of 501 (table 602.70). The average science literacy score in the United States was lower than the average in 15

OECD countries, higher than the average in 8 OECD countries, and not measurably different from the average in 10 OECD countries. The average science literacy scores of public school students in Massachusetts (527) and Connecticut (521) were higher than both the U.S. average and the OECD average. The average score in Florida (485) was not measurably different from the U.S. average but was lower than the OECD average.

Educational Attainment

In 2011, the percentage of 25- to 64-year-olds who had completed high school varied among reporting OECD countries (table 603.10). Countries with high percentages included the Czech Republic (92 percent); the Slovak Republic (91 percent); and the United States, Poland, Estonia, and Canada (all at 89 percent). Ten additional countries had percentages between 80 and 87 percent. Countries with relatively low percentages of 25- to 64-year-olds who had completed high school included Turkey (32 percent), Portugal (35 percent), and Mexico (36 percent).

In 2011, the OECD country reporting the highest percentage of 25- to 64-year-olds with a bachelor's or higher degree was Norway (36 percent), followed by the United States (32 percent); Israel (31 percent); and Iceland, the United Kingdom, and the Netherlands (all at 30 percent) (table 603.20). The countries with the lowest percentages of 25- to 64-year-olds who had attained a bachelor's or higher degree were Austria (12 percent), Slovenia and Turkey (both at 14 percent), and Italy (15 percent). The percentage of younger adults (25 to 34 years old) with a bachelor's or higher degree also varied in 2011 (table 603.20 and figure 28). The OECD country reporting the highest percentage of 25- to 34-year-olds at this level of educational attainment was Norway (46 percent), followed by the United Kingdom, Poland, and the Republic of Korea (all at 39 percent); Finland and the Netherlands (both at 38 percent); and Iceland (37 percent). Eleven additional countries reported that at least 30 percent of their 25- to 34-year-olds had a bachelor's or higher degree. In the United States, 33 percent of adults in this age group had a bachelor's or higher degree. The lowest percentages among OECD countries were reported by Austria (16 percent), Germany (18 percent), and Turkey (19 percent).

Degrees

In 29 of the 32 reporting OECD countries, more than half of all bachelor's and higher degrees were awarded to women in 2011 (table 603.60). However, the proportion of degrees awarded to women varied by field. For example, 30 of the 32 countries reported that more than 70 percent of education degrees at the bachelor's or higher level were awarded to women. In contrast, women received less than 24 percent of the computer science degrees in 24 of the 31 countries reporting data on degrees awarded in this field.

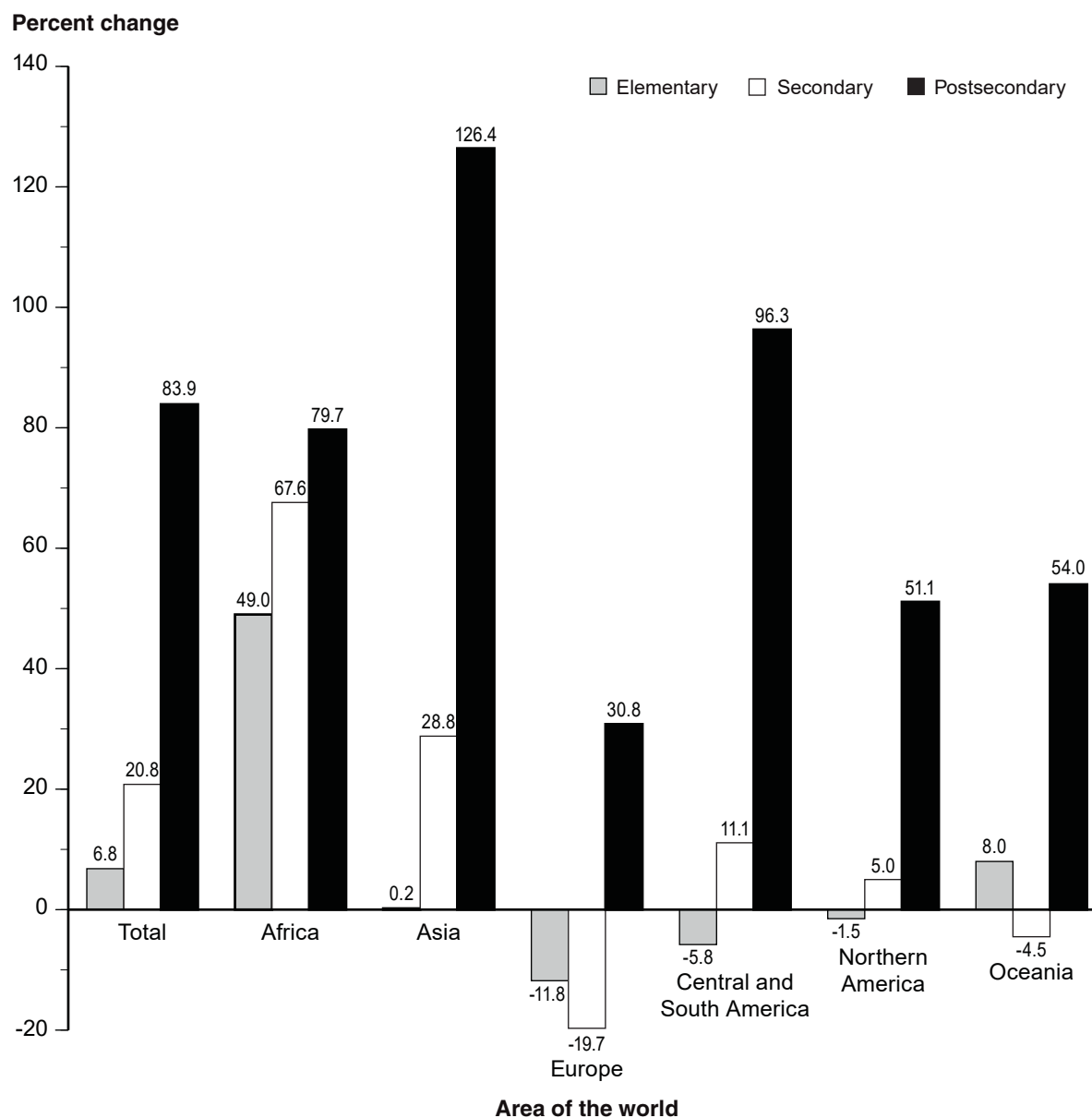
The percentages of bachelor's degrees that were awarded in mathematics and science fields—including natural sciences, mathematics and computer science, and engineering—varied across the 32 OECD countries that reported these data in 2010 (table 603.70). Only one of the reporting OECD countries awarded more than 30 percent of its bachelor's degrees in mathematics and science fields: the Republic of Korea (34 percent). Two countries awarded 15 percent or less of their bachelor's degrees in mathematics and science fields: the Netherlands (13 percent) and Norway (15 percent). In 2010, the United States awarded 16 percent of its bachelor's degrees in mathematics and science fields, a lower percentage than most other reporting countries.

The percentages of graduate degrees awarded in mathematics and science fields ranged widely across the 31 OECD countries that reported these data in 2010 (table 603.80). Seven of the reporting OECD countries awarded 30 percent or more of their graduate degrees in mathematics and science fields: Japan (46 percent), Sweden and Finland (both at 40 percent), Germany (33 percent), Austria and Greece (both at 32 percent), and Portugal (31 percent). Six OECD countries awarded less than 15 percent of their graduate degrees in mathematics and science fields: Hungary (10 percent), Chile and Poland (both at 11 percent), Mexico and the United States (both at 13 percent), and Iceland (14 percent).

Finances

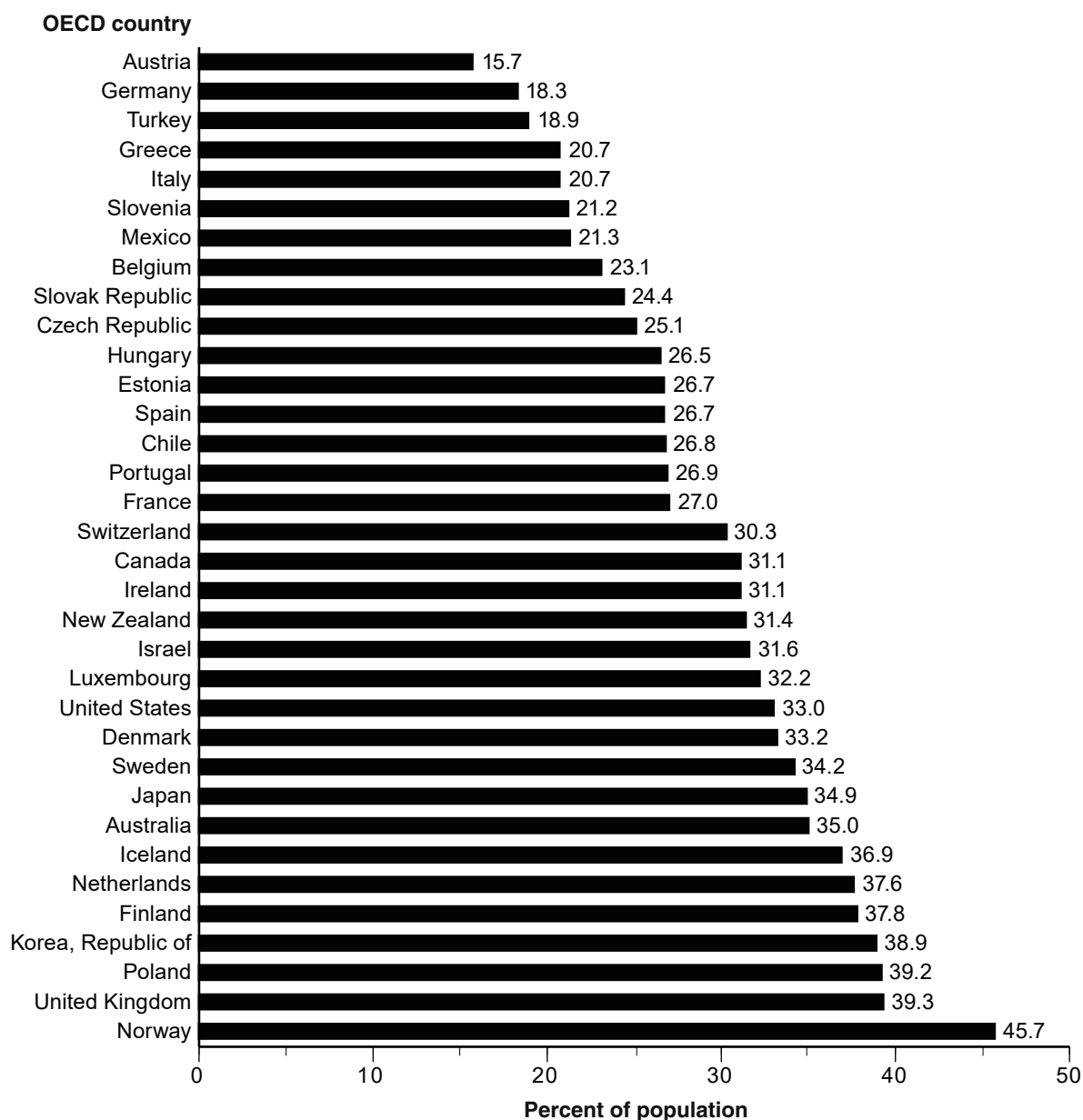
In 2010, expenditures per full-time-equivalent (FTE) student at the combined elementary and secondary level of education were over \$11,000 (in current U.S. dollars) in 6 of the 31 OECD countries that reported finance data for this level of education (table 605.10). Specifically, Luxembourg spent \$19,000 per elementary/secondary student; Switzerland spent \$13,500; Norway spent \$13,100; the United States spent \$11,800; Austria spent \$11,700; and Denmark spent \$11,400. At the higher education level, 6 of 29 reporting countries had expenditures of over \$17,000 per FTE student in 2010: the United States (\$25,600), Switzerland (\$21,900), Sweden (\$19,600), Denmark (\$19,000), Norway (\$18,500), and the Netherlands (\$17,200). These expenditures were adjusted to U.S. dollars using the purchasing-power-parity (PPP) index. This index is considered more stable and comparable than indexes using currency exchange rates.

A comparison of public direct expenditures on education as a percentage of gross domestic product (GDP) in reporting OECD countries shows that public investment in education in 2010 ranged from 3.6 percent in Japan to 7.5 percent in Norway and 7.6 percent in Denmark (table 605.20 and figure 29). Among reporting OECD countries, the average public direct expenditure on education in 2010 was 5.4 percent of GDP. In the United States, the public direct expenditure on education as a percentage of GDP was 5.1 percent.

Figure 27. Percentage change in enrollment, by major areas of the world and level of education: 2000 to 2011

NOTE: Europe includes all countries of the former Union of Soviet Socialist Republics (U.S.S.R.) except Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, and Uzbekistan, which are included in Asia. Turkey, the Arab states, and Israel are also included in Asia. Central and South America includes Latin America and the Caribbean. Northern America includes Bermuda, Canada, Greenland, St. Pierre and Miquelon, and the United States of America. Data include imputed values for nonrespondent countries.

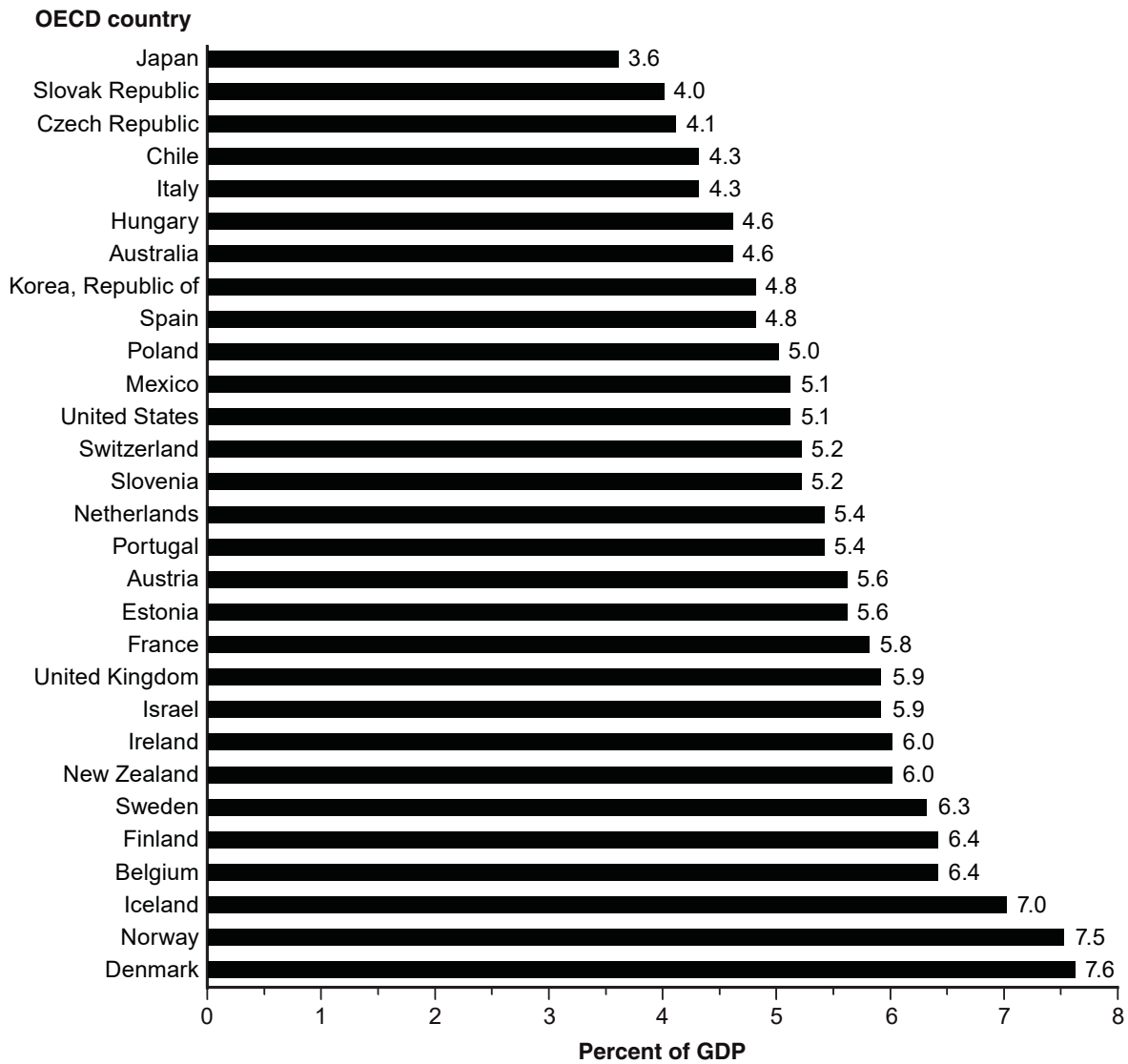
SOURCE: United Nations Educational, Scientific, and Cultural Organization (UNESCO), previously unpublished tabulations (January 2014).

Figure 28. Percentage of the population 25 to 34 years old with a bachelor's or higher degree, by OECD country: 2011

NOTE: Refers to degrees classified by OECD as International Standard Classification of Education (ISCED) level 5A (first and second award) or level 6. ISCED 5A, first award, corresponds to the bachelor's degree in the United States; ISCED 5A, second award, corresponds to master's and first-professional degrees in the United States; and ISCED 6 corresponds to doctor's degrees.

SOURCE: Organization for Economic Cooperation and Development (OECD), *Education at a Glance*, 2013.

Figure 29. Public direct expenditures on education institutions as a percentage of gross domestic product (GDP), by OECD country: 2010



NOTE: Includes amounts spent directly by governments to hire educational personnel and to procure other resources, as well as amounts provided by governments to public or private institutions.
 SOURCE: Organization for Economic Cooperation and Development (OECD), *Education at a Glance*, 2013.

Table 601.10. Population, school enrollment, and number of teachers, by major areas of the world and level of education: Selected years, 1980 through 2011

[In thousands]

Year and selected characteristic	World total ¹	Major areas of the world					
		Africa	Asia ^{1,2}	Europe ²	Central and South America ³	Northern America ³	Oceania
1	2	3	4	5	6	7	8
1980							
Population, all ages ⁴	4,450,930	478,544	2,644,088	695,225	358,609	251,929	22,534
Enrollment, all levels	856,277	74,774	493,963	134,690	87,097	60,541	5,213
First (elementary) level ⁵	524,358	59,058	333,939	49,038	56,781	22,893	2,649
Second level ⁶	282,241	14,187	146,984	68,702	25,521	24,695	2,153
Third level ⁷	49,679	1,529	13,040	16,951	4,795	12,954	411
Teachers, all levels	38,891	2,252	19,259	—	3,835	—	276
First (elementary) level ⁵	18,511	1,605	10,706	2,582	1,871	—	134
Second level ⁶	16,481	560	7,410	5,509	1,582	1,309	112
Third level ⁷	3,898	87	1,142	—	382	815	31
1990							
Population, all ages ⁴	5,287,869	630,169	3,190,508	722,638	440,609	277,533	26,412
Enrollment, all levels	975,595	104,938	562,137	132,631	108,550	61,543	5,797
First (elementary) level ⁵	576,949	76,465	361,573	46,581	65,092	24,629	2,609
Second level ⁶	331,242	25,764	177,817	67,340	36,216	21,534	2,571
Third level ⁷	67,404	2,709	22,747	18,710	7,242	15,380	617
Teachers, all levels	47,477	3,597	24,499	9,892	5,236	3,938	315
First (elementary) level ⁵	22,181	2,271	13,070	2,691	2,401	1,608	139
Second level ⁶	20,294	1,188	9,732	5,666	2,234	1,340	135
Third level ⁷	5,002	138	1,697	1,535	601	991	41
1995							
Population, all ages ⁴	5,699,768	712,602	3,452,081	730,000	480,608	296,092	28,385
Enrollment, all levels	1,086,114	125,117	630,703	137,195	120,167	65,901	7,030
First (elementary) level ⁵	619,091	90,412	386,975	44,849	67,604	26,243	3,008
Second level ⁶	387,832	30,631	215,238	71,104	44,400	23,595	2,864
Third level ⁷	79,191	4,074	28,489	21,242	8,164	16,063	1,158
Teachers, all levels	52,201	4,198	26,934	10,556	5,931	4,208	—
First (elementary) level ⁵	23,793	2,569	14,049	2,776	2,627	1,622	149
Second level ⁶	22,690	1,429	10,890	6,099	2,604	1,503	—
Third level ⁷	5,718	200	1,996	1,681	699	1,083	—
2000							
Population, all ages ⁴	6,090,319	803,528	3,694,628	730,598	517,756	313,388	30,421
Enrollment, all levels	1,204,589	152,697	703,506	137,711	136,169	66,968	7,538
First (elementary) level ⁵	654,698	108,346	404,035	41,730	70,021	27,435	3,130
Second level ⁶	450,383	38,294	258,475	70,410	54,724	25,117	3,363
Third level ⁷	99,508	6,058	40,996	25,571	11,423	14,416	1,044
Teachers, all levels	56,512	4,928	29,058	10,704	6,769	4,648	—
First (elementary) level ⁵	24,839	2,870	14,501	2,735	2,774	1,806	155
Second level ⁶	25,001	1,785	12,119	6,095	3,126	1,682	—
Third level ⁷	6,672	274	2,439	1,874	869	1,161	—
2005							
Population, all ages ⁴	6,474,229	907,745	3,920,235	733,119	552,438	328,033	32,659
Enrollment, all levels	1,329,991	192,665	778,939	135,132	143,413	72,374	7,468
First (elementary) level ⁵	683,216	135,510	410,474	38,465	68,845	26,780	3,141
Second level ⁶	508,270	48,849	306,007	64,855	58,487	27,039	3,033
Third level ⁷	138,505	8,305	62,458	31,812	16,081	18,555	1,294
Teachers, all levels	64,089	5,926	34,315	10,690	7,737	5,005	—
First (elementary) level ⁵	26,964	3,459	15,860	2,658	2,964	1,865	159
Second level ⁶	28,043	2,134	14,597	5,798	3,551	1,774	—
Third level ⁷	9,081	332	3,859	2,234	1,223	1,366	—
2011							
Population, all ages ⁴	6,943,437	1,048,252	4,181,579	740,300	592,169	345,751	35,386
Enrollment, all levels	1,426,217	236,551	830,359	126,787	149,135	75,182	8,203
First (elementary) level ⁵	699,280	161,474	404,677	36,791	65,930	27,027	3,382
Second level ⁶	543,976	64,192	332,879	56,545	60,779	26,368	3,213
Third level ⁷	182,960	10,885	92,804	33,450	22,426	21,787	1,608
Teachers, all levels	71,471	7,418	39,274	10,333	8,560	5,445	—
First (elementary) level ⁵	28,869	4,110	16,862	2,672	3,101	1,954	—
Second level ⁶	31,521	2,896	17,464	5,271	3,834	1,867	—
Third level ⁷	11,081	412	4,948	2,389	1,625	1,625	—

—Not available.

¹Enrollment and teacher data for the world total and Asia exclude Taiwan.

²Europe includes all countries of the former Union of Soviet Socialist Republics (U.S.S.R.) except Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, and Uzbekistan, which are included in Asia. Turkey, the Arab states, and Israel are also included in Asia.

³Central and South America includes Latin America and the Caribbean. Northern America includes Bermuda, Canada, Greenland, St. Pierre and Miquelon, and the United States of America.

⁴Estimate of midyear population.

⁵First-level enrollment generally consists of elementary school, grades 1–6.

⁶Second-level enrollment includes general education, teacher training (at the second level), and technical and vocational education. This level generally corresponds to secondary education in the United States, grades 7–12.

⁷Third-level enrollment includes college and university enrollment, and technical and vocational education beyond the secondary school level.

NOTE: Detail may not sum to totals because of rounding. Data include imputed values for nonrespondent countries. Enrollment and teacher data exclude several island countries or territories with small populations (less than 150,000). Some data have been revised from previously published figures.

SOURCE: United Nations Educational, Scientific, and Cultural Organization (UNESCO), unpublished tabulations. U.S. Department of Commerce, Census Bureau, International Data Base, retrieved January 16, 2014, from <http://www.census.gov/population/international/data/idb/informationGateway.php>. (This table was prepared January 2014.)

Table 601.20. Selected population and enrollment statistics for countries with populations of at least 10 million in 2011, by continent and country: Selected years, 1990 through 2011

Continent and country ¹	Midyear population (in millions)			Persons per square kilo- meter, 2011	First level ²					Second level ³					Third level ⁴				
	1991	2000	2011		Enrollment (in thousands)		Gross enrollment ratio ⁵			Enrollment (in thousands)		Gross enrollment ratio ⁵			Enrollment (in thousands)		Gross enrollment ratio ⁵		
					1999–2000	2010–11	1990–91	1999–2000	2010–11	1999–2000	2010–11	1990–91	1999–2000	2010–11	1999–2000	2010–11	1990–91	1999–2000	2010–11
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
World total⁶	5,371	6,090	6,943	53	654,723	699,301⁷	99	99	107⁷	450,397	543,989⁷	52	60	71⁷	99,511	182,963⁷	14	19	30⁷
Africa																			
Algeria ⁸	26	31	37	15	4,843	3,363	100	103	115	2,994	4,573	61	62	98	—	1,189	11	—	30
Angola	10	13	18	14	—	5,027	92	—	140	355	885	12	15	32	—	143	1	—	7
Burkina Faso	9	12	17	61	852	2,205	33	45	82	190	604	7	10	24	11 ⁷	61	1	1 ⁷	4
Cameroon	12	16	21	45	2,237 ⁹	3,585	101	83 ⁹	106	700	1,574	28	27	47	66	244	3	5	12
Chad	6	8	11	9	914	1,929	54	64	91	137	457	8 ¹⁰	11	23	6	24	1 ^{11,12}	1	2
Cote d'Ivoire	13	17	22	68	1,944	2,758	67	77	90	620 ⁷	—	22	25 ⁷	—	—	—	—	—	—
Democratic Rep. of the Congo	41	52	72	32	—	11,083	70	—	105	—	3,783	21 ¹³	—	43	—	488	2	—	8
Egypt ⁸	56	65	82	83	7,947 ⁷	10,266	94	101 ⁷	109	8,028 ⁷	—	76	86 ⁷	—	—	2,246	16 ^{14,15}	—	29
Ethiopia	49	64	89	89	5,847	14,298	33	55	95	1,195	4,542	14	14	36	68	632	1	1	8
Ghana ⁸	16	19	24	106	2,561	3,860	75	86	107	1,057	2,148	36	41	57	—	286	1 ¹¹	—	12
Guinea	7	8	11	43	790	1,537	37	57	89	—	640	10	—	38	—	103	1	—	10
Kenya ⁸	24	31	42	74	5,035	—	95	96	—	1,909	—	24 ¹⁰	39	—	89	—	2 ¹¹	3	—
Madagascar	12	16	21	37	2,208	4,305	103	100	144	—	—	18 ¹⁰	—	—	32	86	3	2	4
Malawi	10	12	16	169	2,695	3,564	68	138	140	487	736	8	32	34	4	12	1	—	1
Mali	9	11	15	12	1,017	2,115	26	62	92	258 ⁷	821	7	19 ⁷	44	20	88	1	2	7
Morocco ⁸	24	28	32	72	3,670	4,001	67	92	115	1,541	2,479	35	38	66	276	506	11	9	16
Mozambique ⁸	13	18	23	29	2,544	5,254	67	74	107	124	716	8	6	26	12	113	# ¹²	1	5
Niger	8	11	16	13	579	1,910	29	34	69	106 ⁷	342	7	7 ⁷	15	—	18	1	—	2
Nigeria ⁸	99	124	164	181	19,151	—	91	98	—	4,104	—	25	24	—	—	—	4 ^{11,16}	—	—
Rwanda	7	8	11	461	1,432	2,341	70	111	128	130	486	8	11	32	9	74	# ¹⁷	1	7
Senegal	8	9	13	66	1,108	1,726	59	68	84	250	834 ¹⁸	16	16	41 ¹⁸	—	—	3	—	—
South Africa	39	45	49	40	7,445	—	122	107	—	4,142	—	74	84	—	—	—	13 ¹⁹	—	—
South Sudan	5	6	10	16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sudan ⁸	22	27	34	18	2,567	—	53	—	—	980	—	24	—	—	204 ⁷	—	3 ¹¹	—	—
Tunisia	8	10	11	68	1,414	1,028	113	116	108	1,104 ⁷	1,152	45	75 ⁷	91	180	362	9	19	35
Uganda	17	23	33	165	6,559	8,098	74 ^{20,21}	129	110	547	—	13 ^{10,21}	16	—	56	290	1	3	9
United Republic of Tanzania	26	33	46	52	4,382	—	70	68	—	—	—	5	—	—	—	—	# ¹³	—	—
Zambia	8	10	13	18	1,590	3,030	99	84	113	—	—	24	—	—	25 ⁷	—	2	2 ⁷	—
Zimbabwe	10	12	12	31	2,461	—	116	101	—	844	—	50	43	—	—	93	5	—	6
Asia																			
Afghanistan ⁸	14	22	30	46	749	5,292	27	21	97	—	2,209	9	—	52	—	98	2	—	4
Bangladesh	114	132	159	1,218	—	18,432 ¹⁸	72	—	114 ¹⁸	10,329	11,543	19	48	51	727	2,008	4	5	13
Cambodia	10	12	15	83	2,248	2,224	121	106	126	351	—	32	17	—	22	223	1	2	16
China	1,164	1,264	1,337	140	—	99,708	125	—	128	81,488	97,452	49	58	87	7,364	31,308	3	8	24
India	854	1,006	1,189	400	113,613	137,747	97	96	113	71,031	113,728	44 ¹⁰	46	69	9,404	26,651	6	10	23
Indonesia	185	214	246	136	28,509	30,662	115	110	109	14,720	20,778	44	56	81	3,126	5,364	9 ¹³	15	27
Iran, Islamic Republic of..	60	69	78	51	8,288	5,678	112	101	106	9,955	7,237	55	79	84	1,405	4,117	10 ¹⁴	19	49
Iraq	17	23	30	70	3,639	—	111	96	—	1,224	—	47 ¹⁰	37	—	289	—	12 ¹⁷	12	—
Japan	124	127	127	350	7,529	7,029	100	101	103	8,782	7,285	97	102	102	3,982	3,881	30 ¹³	49	60
Kazakhstan	17	16	17	6	1,208	986	87	99	105	2,003	1,680	98	96	97	370	638	40	29	42
Korea, North (DPR)	21	23	24	203	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Korea, South (Republic of) ..	43	47	49	503	4,030	3,140	105	102	104	3,959	3,868	90	99	97	3,003	3,356	39	79	101

See notes at end of table.

Table 601.20. Selected population and enrollment statistics for countries with populations of at least 10 million in 2011, by continent and country: Selected years, 1990 through 2011—Continued

Continent and country ¹	Midyear population (in millions)			Persons per square kilo- meter, 2011	First level ²					Second level ³					Third level ⁴				
	1991	2000	2011		Enrollment (in thousands)		Gross enrollment ratio ⁵			Enrollment (in thousands)		Gross enrollment ratio ⁵			Enrollment (in thousands)		Gross enrollment ratio ⁵		
					1999–2000	2010–11	1990–91	1999–2000	2010–11	1999–2000	2010–11	1990–91	1999–2000	2010–11	1999–2000	2010–11	1990–91	1999–2000	2010–11
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Malaysia.....	18	23	29	87	3,026	—	94	98	—	2,205	—	56	66	—	549	—	7	26	—
Myanmar.....	41	47	54	83	4,858	—	106	98	—	2,268	—	23	36	—	—	660	4 ¹³	—	14
Nepal ⁶	19	25	29	205	3,780 ⁹	4,952	108	126 ⁹	143	1,348	2,830	33	37	63	94	385	5	4	14
Pakistan.....	122	152	187	243	13,987 ¹⁸	18,051	61 ²²	70 ¹⁸	92	—	9,939	23	—	35	—	1,573	3	—	8
Philippines.....	67	81	102	342	12,708	—	111	110	—	—	—	73	—	—	—	—	28	—	—
Saudi Arabia.....	16	21	26	12	—	3,348	73	—	101	—	3,153 ⁷	44	—	114 ⁷	404	1,021	12	23	43
Sri Lanka ⁶	17	19	21	329	—	1,735	106	—	99	—	2,574	74	—	99	—	232	5 ^{13,23}	—	14
Syrian Arab Republic.....	13	16	23	123	2,775	2,507	108	108	121	1,069	2,821	52	44	74	—	571	18	—	26
Taiwan.....	20	22	23	718	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Thailand.....	57	63	67	131	6,101	—	99	98	—	—	4,893	30	—	87	1,900	2,497	19 ¹²	35	53
Turkey.....	58	67	79	102	6,562	6,581	99	103	102	5,658	7,966	47	73	89	—	3,817	13	—	61
Uzbekistan.....	21	25	28	66	2,602	1,948	81	99	93	3,566	4,370	99	88	105	305	277	30	13	9
Vietnam.....	69	79	91	292	10,063	7,048	103	107	105	—	—	32	—	—	732	2,229	2	9	24
Yemen.....	13	17	24	45	—	3,641	79 ¹⁶	—	97	—	1,643	23 ¹⁶	—	46	—	267	4 ¹³	—	10
Europe																			
Belgium.....	10	10	10	345	774	736	101	105	104	1,058	803	103	145	106	356	462	40	58	69
Czech Republic.....	10	10	11	137	645	468	96	103	102	958	805	91	89	96	254	446	16 ²⁴	28	65
France.....	59	61	65	102	3,885	4,172	108	104	108	5,929	5,888	99	106	110	2,015	2,259	40	57	57
Germany ²⁵	80	82	81	234	3,656	2,990	101	103	101	8,307	7,528	98	96	102	—	2,763	34	—	57
Greece.....	10	11	11	82	645	—	98	96	—	739	—	93	89	—	422	—	36	51	—
Italy ⁶	57	58	61	207	2,836	2,828	103	103	100	4,404	4,630	83	93	101	1,770	1,968	32	49	64
Netherlands ⁶	15	16	17	491	1,279	1,292	102	109	108	1,379	1,539	120	123	128	488	780	40	53	76
Poland ⁶	38	39	38	126	3,319	2,192	98	99	99	3,988	2,726	81	100	97	1,580	2,080	22	50	74
Portugal.....	10	10	11	118	811	—	123	122	—	831	—	67	105	—	374	—	23	48	—
Romania ⁶	23	22	22	95	1,189	826	91	106	104	2,226	1,778	92	111	129	453	872	10	24	52
Russian Federation.....	148	147	143	9	6,138	—	109	93	96	—	—	93	81	96	6,331	—	52	55	—
Spain ⁶	39	41	47	94	2,540	2,773	109	103	—	3,246	3,248	104	—	—	1,829	1,950	37	59	83
Ukraine ⁶	52	49	45	78	2,079	1,563	89	109	106	5,204	2,926	93	99	94	1,812	2,566	47	49	79
United Kingdom ⁶	58	59	63	259	4,632	4,420	104	101	107	5,315	5,000	85	102	97	2,024	2,492	30	58	61
North America																			
Canada.....	28	31	34	4	2,456	—	103	100	—	2,519	—	101	102	—	1,212	—	95	59	—
Cuba.....	11	11	11	101	1,046	828	98	101	101	790	798	89	82	90	159	665	21	22	80
Guatemala.....	9	11	14	129	1,909	2,645	78	104	114	504	1,114	23 ¹³	38	65	—	—	8 ¹²	—	—
Mexico.....	86	100	116	60	14,766	14,935	114	106	104	9,094	11,836	53	70	84	1,963	2,981	15	19	28
United States.....	253	282	312	34	24,973	24,432	102	101	99	22,594	24,214	93	92	94	13,203	21,016	75	68	95
South America																			
Argentina.....	34	37	42	15	4,728	—	106	114	—	3,428	—	71	87	—	1,767 ⁷	—	38 ¹³	53 ⁷	—
Bolivia.....	7	8	10	9	1,492	1,390	95	112	94	877 ⁷	1,060	37	78 ⁷	77	279	—	21	35	—
Brazil.....	152	174	198	23	—	—	106	—	—	—	—	38	—	—	2,781	6,929	11 ²⁶	—	—
Chile.....	13	15	17	23	1,799	1,520	100	100	102	1,391	1,493	73	82	90	452	1,062	21 ¹³	37	71
Colombia.....	34	39	45	43	5,221	4,924	102	119	111	3,569	5,131	50 ¹³	72	97	934	1,849	13	24	43

See notes at end of table.

Table 601.20. Selected population and enrollment statistics for countries with populations of at least 10 million in 2011, by continent and country: Selected years, 1990 through 2011—Continued

Continent and country ¹	Midyear population (in millions)			Persons per square kilo- meter, 2011	First level ²					Second level ³					Third level ⁴				
	1991	2000	2011		Enrollment (in thousands)		Gross enrollment ratio ⁵			Enrollment (in thousands)		Gross enrollment ratio ⁵			Enrollment (in thousands)		Gross enrollment ratio ⁵		
					1999–2000	2010–11	1990–91	1999–2000	2010–11	1999–2000	2010–11	1990–91	1999–2000	2010–11	1999–2000	2010–11	1990–91	1999–2000	2010–11
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Ecuador	10	12	15	54	1,925	2,121	116	113	115	917	1,488	55	59	85	—	—	20	—	—
Peru	22	26	29	23	4,338	3,671	118	122	105	2,374	2,640	67	85	91	—	—	30	—	—
Venezuela	20	23	28	31	3,328	3,466	96	101	102	1,543	2,287	35	60	83	668	—	29	28	—
Oceania																			
Australia ⁶	17	19	22	3	1,906	2,042	108	100	104	2,589	2,328	82	161	133	845	1,324	35 ²⁷	65	83

—Not available.

#Rounds to zero.

¹Selection based on total population for midyear 2011.²First-level enrollment consists of elementary school, typically corresponding to grades 1–6 in the United States.³Second-level enrollment includes general education, teacher training (at the second level), and technical and vocational education.

This level generally corresponds to secondary education in the United States, grades 7–12.

⁴Third-level enrollment includes college and university enrollment and technical and vocational education beyond the secondary school level.⁵Data represent the total enrollment of all ages in the school level divided by the population of the specific age groups that correspond to the school level. Adjustments have been made for the varying lengths of first- and second-level programs. Ratios may exceed 100 because some countries have many students from outside the normal age range.⁶Enrollment totals and ratios exclude Democratic People's Republic of Korea.⁷Estimated by the UNESCO Institute for Statistics.⁸Classification or data coverage of levels has been revised. Data by level may not be comparable over time.⁹Policy change in 1999–2000: introduction of free universal primary education.¹⁰General education enrollment only. Excludes teacher training and vocational education enrollments.¹¹Excludes nonuniversity institutions (such as teacher training colleges and technical colleges) and excludes distance-learning universities.¹²Data for 1992–93.¹³Data for 1991–92.¹⁴Excludes private institutions.¹⁵Data refer to universities and exclude Al Azhar.¹⁶Data for 1993–94.¹⁷Data for 1985–86.¹⁸National estimation.¹⁹Not including the former Independent States of Transkei, Bophuthatswana, Venda, and Ciskei.²⁰Estimated.²¹Data refer to government aided and maintained schools only.²²Includes preprimary education.²³Excludes some nonuniversity institutions.²⁴Includes full-time students only.²⁵Data include both former East and West Germany.²⁶Excludes enrollments in programs formerly classified as doctoral.²⁷Data do not include Vocational Education and Training Institutes (VETs).

NOTE: Data do not include adult education or special education provided outside regular schools. Some data have been revised from previously published figures.

SOURCE: United Nations Educational, Scientific, and Cultural Organization (UNESCO), *Statistical Yearbook, 1999*; unpublished tabulations; and tabulations from the UNESCO Institute for Statistics Online Data Center, retrieved December 16, 2013, from <http://data.uis.unesco.org/>; U.S. Department of Commerce, Census Bureau, International Data Base, retrieved December 16, 2013, from <http://www.census.gov/population/international/data/idb/informationGateway.php>. (This table was prepared January 2014.)

Table 601.30. School-age populations as a percentage of total population, by age group and OECD or other country: Selected years, 1985 through 2010

	5- to 14-year-olds as a percent of total population												15- to 19-year-olds as a percent of total population											
Country	1985 ¹	1990 ¹	1995 ¹	1999	2003	2004	2005	2006	2007	2008	2009	2010	1985 ²	1990 ²	1995 ²	1999	2003	2004	2005	2006	2007	2008	2009	2010
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
OECD average ³	—	—	—	13	13	13	13	12	12	12	12	12	—	—	—	7	7	7	7	7	7	7	7	6
Australia.....	14	13	13	14	14	14	13	13	13	13	13	12	7	6	6	7	7	7	7	7	7	7	7	7
Austria.....	—	—	—	—	12	11	11	11	11	11	10	10	—	—	—	—	6	6	6	6	6	6	6	6
Belgium.....	11	11	11	12	12	12	12	12	11	11	11	11	6	5	5	6	6	6	6	6	6	6	6	6
Canada.....	13	12	12	14	13	13	13	12	12	11	11	11	6	5	5	7	7	7	7	7	7	7	7	7
Chile.....	—	—	—	—	18	18	18	17	16	15	15	15	—	—	—	—	9	9	9	9	9	9	9	9
Czech Republic.....	(⁴)	(⁴)	12	12	11	11	10	10	10	9	9	9	(⁴)	(⁴)	6	7	7	7	6	6	6	6	6	6
Denmark.....	12	10	10	12	13	13	13	13	13	12	12	12	6	6	5	5	5	5	6	6	6	6	6	6
Estonia.....	(⁴)	(⁴)	—	—	—	—	11	10	10	10	9	9	(⁴)	(⁴)	—	—	—	—	8	8	8	7	7	6
Finland.....	11	12	11	13	12	12	12	12	12	11	11	11	6	5	5	6	6	6	6	6	6	6	6	6
France.....	13	12	12	13	12	12	12	12	12	12	12	12	6	6	5	7	6	6	7	6	6	6	6	6
Germany ⁵	9	9	10	11	10	10	10	10	10	10	9	9	6	4	4	6	6	6	6	6	6	6	5	5
Greece.....	—	—	11	11	10	10	10	10	10	9	9	9	—	5	6	7	6	6	6	5	5	5	5	5
Hungary.....	—	—	—	—	11	11	11	11	10	10	10	10	—	—	—	—	6	6	6	6	6	6	6	6
Iceland.....	16	15	14	16	16	15	15	15	14	14	14	14	7	7	6	8	7	7	7	7	7	8	7	7
Ireland.....	18	18	15	15	14	14	14	13	13	13	13	13	8	8	8	9	8	8	7	7	7	6	6	6
Israel.....	—	—	—	—	18	18	18	18	18	18	18	18	—	—	—	—	9	8	8	8	8	8	8	8
Italy.....	13	10	9	10	10	10	9	9	9	9	9	9	6	6	5	5	5	5	5	5	5	5	5	5
Japan.....	14	12	10	10	10	9	9	9	9	9	9	9	6	7	5	6	6	5	5	5	5	5	5	5
Korea, Republic of.....	—	—	14	14	14	14	14	14	13	13	12	12	—	—	7	8	7	6	7	7	7	7	7	7
Luxembourg.....	10	10	11	12	13	13	13	13	12	12	12	12	5	4	4	6	6	6	6	6	6	6	6	6
Mexico.....	—	—	—	—	22	22	21	21	21	21	20	20	—	—	—	—	10	10	10	10	10	10	10	10
Netherlands.....	12	11	11	12	12	12	12	12	12	12	12	12	7	5	5	6	6	6	6	6	6	6	6	6
New Zealand.....	15	13	13	15	15	15	15	14	14	14	14	13	7	7	6	7	7	7	7	8	8	7	7	7
Norway.....	13	11	11	13	14	14	13	13	13	13	13	13	6	6	5	6	6	6	6	6	7	7	7	7
Poland.....	—	—	—	—	13	12	12	12	11	11	10	10	—	—	—	—	8	8	8	8	7	7	7	7
Portugal.....	—	—	—	—	11	10	10	10	10	10	10	10	—	—	—	—	6	6	6	6	6	5	5	5
Slovak Republic.....	(⁴)	(⁴)	—	—	13	13	12	12	11	11	10	10	(⁴)	(⁴)	—	—	8	8	8	8	7	7	7	7
Slovenia.....	(⁴)	(⁴)	—	—	—	—	10	10	9	9	9	9	(⁴)	(⁴)	—	—	—	—	6	6	6	6	5	5
Spain.....	15	13	10	10	10	10	9	9	9	9	9	10	7	7	6	7	6	6	5	5	5	5	5	5
Sweden.....	11	10	11	13	13	13	12	12	11	11	11	11	5	5	5	6	6	6	6	7	7	7	7	7
Switzerland.....	11	10	10	12	12	11	11	11	11	11	10	10	6	5	5	6	6	6	6	6	6	6	6	6
Turkey.....	21	21	20	21	19	19	19	19	19	18	18	18	9	9	9	11	9	9	9	9	9	9	9	9
United Kingdom.....	11	11	12	13	13	13	12	12	12	12	11	11	6	5	5	6	6	7	7	7	7	7	6	6
United States.....	13	13	13	15	14	14	14	14	13	13	13	13	6	5	6	7	7	7	7	7	7	7	7	7
Other reporting countries	—	—	—	—	21	20	19	19	18	18	17	17	—	—	—	—	11	10	10	10	9	9	9	9
Brazil.....	(⁴)	(⁴)	14	14	12	11	10	10	10	9	9	9	(⁴)	(⁴)	—	—	9	9	9	8	8	7	7	6
Russian Federation.....	(⁴)	(⁴)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

—Not available.

¹Data are for the 5- to 13-year-old population.²Data are for the 14- to 17-year-old population.³Refers to the mean of the data values for all reporting OECD countries, to which each country reporting data contributes equally. The average includes all current OECD countries for which a given year's data are available, even if they were not members of OECD in that year. However, if data for a given year are available for less than 75 percent of the countries, the average for that year is omitted.⁴Country did not exist in its current form in the given year.⁵Data for 1985 are for the former West Germany.SOURCE: Organization for Economic Cooperation and Development (OECD), *Education at a Glance*, selected years, 1987 through 2001; and Online Education Database, retrieved July 23, 2013, from <http://stats.oecd.org/Index.aspx>. (This table was prepared July 2013.)

Table 601.40. Percentage of population enrolled in secondary and postsecondary education, by age group and OECD or other country: Selected years, 2002 through 2011

Country	Secondary education, 2011								Postsecondary education (total tertiary education)											
	16 years old	17 years old	18 to 21 years old					22 years old and older	18 to 21 years old				22 to 25 years old				26 to 29 years old			
			Total	18 years old	19 years old	20 years old	21 years old		2002	2005	2010	2011	2002	2005	2010	2011	2002	2005	2010	2011
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
OECD average ¹	94	88	25	56	28	14	9	1	26	28	31	31	21	23	25	26	9	10	11	11
Australia.....	95	80	23	39	24	18	14	3	35	34	36	37	20	21	23	24	10	10	11	11
Austria.....	90	75	18	44	19	8	4	#	15	16	21	21	18	20	26	26	9	9	15	15
Belgium.....	100	98	24	48	24	13	9	5	42	43	45	46	18	19	22	22	5	6	6	7
Canada.....	—	—	—	—	—	—	—	—	—	—	36	35	—	—	20	20	—	—	8	8
Chile.....	90	86	12	32	10	3	2	#	—	—	36	39	—	—	26	28	—	—	11	11
Czech Republic.....	98	96	34	86	41	9	3	#	20	23	26	28	16	21	27	28	5	6	8	8
Denmark.....	94	89	50	84	58	34	23	2	10	10	13	15	29	34	35	37	16	20	19	20
Estonia.....	96	94	28	79	24	11	6	#	—	32	31	31	—	22	25	26	—	12	10	11
Finland.....	95	95	41	93	34	18	17	4	21	24	22	22	39	40	38	38	19	20	20	20
France.....	93	87	20	46	22	9	4	#	35	36	37	38	20	20	20	20	5	5	5	5
Germany.....	97	92	41	82	48	24	16	#	12	13	18	19	20	23	25	26	12	13	13	14
Greece.....	96	94	11	19	11	9	4	#	46	65	44	48	24	18	31	30	11	8	16 ²	18 ²
Hungary.....	100	98	32	75	33	14	8	1	24	29	29	28	18	23	24	24	7	9	8	7
Iceland.....	95	88	52	81	71	35	23	3	10	12	14	14	24	28	28	31	12	16	16	17
Ireland.....	100	86	12	39	5	2	1	#	36	38	46	41	11	13	13	13	5	5	—	—
Israel.....	94	88	5	16	2	1	#	#	10	12	13	13	26	25	27	27	17	15	18	19
Italy.....	91	88	27	75	21	8	4	#	24	29	27	27	21	23	25	25	8	8	8	8
Japan.....	93	94	1	3	1	—	—	#	—	—	—	—	—	—	—	—	—	—	—	—
Korea, Republic of.....	95	91	2	6	#	#	#	#	56	65	70	68	32	32	38	38	7	6	8	8
Luxembourg.....	89	80	40	70	46	27	15	#	—	—	—	—	—	—	—	—	—	—	—	—
Mexico.....	64	51	13	20	28	3	1	2	15	16	20	21	7	9	10	10	3	3	3	3
Netherlands.....	99	90	39	66	44	29	18	2	28	29	34	36	22	24	27	31	6	7	8	11
New Zealand.....	97	83	14	29	12	8	6	2	30	34	36	37	17	23	22	22	8	11	12	11
Norway.....	95	92	39	88	39	19	10	1	17	19	20	21	27	30	28	28	13	14	13	13
Poland.....	97	96	36	92	41	11	6	#	27	31	35	35	26	30	32	32	7	6	6	6
Portugal.....	100	90	26	51	28	16	10	2	25	27	33	34	20	21	18	20	8	8	7	8
Slovak Republic.....	94	91	32	81	39	9	2	#	21	22	26	25	13	16	24	24	4	5	6	6
Slovenia.....	97	95	26	86	26	#	#	1	—	37	43	44	—	35	39	39	—	11	11	10
Spain.....	95	89	25	47	28	17	11	1	35	34	37	38	24	22	23	25	8	9	9	10
Sweden.....	100	98	37	94	25	14	14	2	17	17	18	18	28	32	29	29	13	16	16	16
Switzerland.....	91	88	40	79	49	23	11	#	10	12	14	15	18	20	24	24	9	10	12	12
Turkey.....	73	65	8	30	—	—	—	—	—	20	30	33	—	11	22	23	—	4	8	9
United Kingdom.....	97	83	15	34	14	8	6	1	30	28	32	33	12	13	13	13	6	7	7	7
United States.....	93	84	7	25	4	#	#	#	46	45	49	50	25	23	28	27	11	11	12	14
Other reporting countries																				
Brazil.....	87	84	30	54	31	19	13	2	3	10	13	15	10	9	13	15	5	5	8	8
Russian Federation.....	69	45	6	15	5	4	1	#	42	41	—	49	10	26	—	21	—	—	—	10

—Not available.

#Rounds to zero.

¹Refers to the mean of the data values for all reporting OECD countries, to which each country reporting data contributes equally. The average includes all current OECD countries for which a given year's data are available, even if they were not members of OECD in that year. However, if data for a given year are available for less than 75 percent of the countries, the average for that year is omitted.

²Data are for the population 26 to 28 years old.

NOTE: Data refer to programs classified as International Standard Classification of Education (ISCED) level 3, level 5A (first and second award), level 5B, and level 6. ISCED level 3 corresponds to secondary education in the United States. ISCED levels 5A (first and second award), 5B, and 6 together make up total tertiary education, which corresponds to 2-year and 4-year

college undergraduate and graduate programs in the United States. Excludes enrollment in ISCED level 4, which is nontertiary education that corresponds to enrollment in programs of less than 2 years after high school in the United States. Includes both full-time and part-time students. Some increases in enrollment rates may be due to more complete reporting by countries. Enrollment rates may not be directly comparable across countries due to differing definitions of postsecondary (tertiary) education and the age at which it begins. Differences in reference dates between enrollment and population data can result in enrollment rates that exceed 100 percent. Postsecondary data for Luxembourg are not shown because tertiary students generally study for no more than 1 year in Luxembourg and must complete their studies in other countries.

SOURCE: Organization for Economic Cooperation and Development (OECD), Online Education Database, retrieved December 26, 2013, from <http://stats.oecd.org/Index.aspx>. (This table was prepared December 2013.)

Table 601.50. Pupil/teacher ratios in public and private elementary and secondary schools, by level of education and country: Selected years, 2000 through 2011

Country	Elementary							Junior high school (lower secondary)							Senior high school (upper secondary)						
	2000	2005	2007	2008	2009	2010	2011	2000	2005	2007	2008	2009	2010	2011	2000	2005	2007	2008	2009	2010	2011
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
OECD average¹.	17.7	17.0	16.2	16.4	16.0	15.9	15.4	—	14.0	13.4	13.7	13.5	13.5	13.2	13.7	13.5	13.1	13.3	13.4	13.6	13.7
Australia.....	17.3	16.2	15.9	15.8	15.8	15.7	15.6	—	—	—	—	—	—	—	—	12.1 ^{2,3}	12.1 ^{2,3}	12.0 ^{2,3}	12.0 ^{2,3}	12.0 ^{2,3}	12.0 ^{2,3}
Austria.....	—	14.1	13.6	12.9	12.6	12.2	12.1	—	10.6	10.3	9.9	9.6	9.3	9.1	—	11.3	11.0	10.5	10.2	10.1	9.8
Belgium.....	15.0 ⁴	12.8	12.6 ⁵	12.6 ⁵	12.5 ⁵	12.4 ⁵	12.4 ⁵	—	9.4	9.2 ⁵	8.1 ⁵	8.1 ⁵	8.1 ⁵	8.1 ⁵	9.7 ^{3,6}	9.9 ⁶	10.2 ^{5,6}	10.8 ^{5,6}	10.2 ^{5,6}	10.1 ^{5,6}	10.1 ^{5,6}
Canada.....	18.1	—	—	—	—	—	—	18.1	—	—	16.6 ^{4,7}	17.7 ^{4,7}	15.9 ^{4,7}	—	19.5	—	16.4 ^{3,4,7,8}	14.7	15.8	14.2	—
Chile.....	—	25.9	24.7	24.1	22.4	24.6	23.1	—	25.9	24.7	24.1	22.4	25.1	23.6	—	26.6	25.7	25.2	24.7	26.1	25.4
Czech Republic.....	19.7	17.5	18.7	18.1	18.4	18.7	18.7	14.7	13.5	12.3	11.8	11.5	11.2	11.1	11.5	12.8	12.3	12.2	12.2	12.1	11.7
Denmark.....	10.4	—	—	—	—	—	—	11.4	11.9 ⁷	11.2 ⁷	10.1 ⁷	9.9 ⁷	11.5 ⁷	11.8 ⁷	14.4	—	—	—	—	—	—
Estonia.....	—	—	14.4	16.4	16.2	16.2	13.2	—	—	—	11.4	16.0	15.7	14.9	10.1	—	12.2 ⁶	12.4 ⁶	16.8 ⁶	16.6 ⁶	13.7
Finland.....	16.9	15.9	15.0	14.4	13.6	14.0	13.7	10.7	10.0	9.9	10.6	10.1	9.8	9.3	17.0 ^{6,9}	18.0 ^{6,9}	15.9 ⁶	15.9 ⁶	16.6 ⁶	17.1 ⁶	16.3 ⁶
France.....	19.8	19.4	19.7 ⁵	19.9 ⁵	19.7 ⁵	18.7 ⁵	18.4 ⁵	14.7	14.2	14.3 ⁵	14.6 ⁵	14.9 ⁵	15.0 ⁵	14.8 ⁵	10.4	10.3	9.6 ⁵	9.4 ⁵	9.6 ⁵	9.7 ⁵	10.0 ⁵
Germany.....	19.8	18.8	18.3	18.0	17.4	16.7	16.3	15.7	15.5	15.2	15.0	15.1	14.9	14.2	13.9	14.0	14.3	14.0	13.9	13.2	13.8
Greece.....	13.4	11.1	10.1	—	—	—	—	10.8	7.9	7.7	—	—	—	—	10.5	8.8	7.3	—	—	—	—
Hungary.....	10.9	10.6	10.2	10.6	10.7	10.8	10.7	10.9	10.4	10.2	10.9	10.8	10.7	10.5	11.4 ⁶	12.2	12.1	12.3	12.8	12.5	12.4
Iceland.....	—	—	—	—	—	—	10.2	12.7 ⁷	11.3 ⁷	10.4 ⁷	10.0 ⁷	9.9 ⁷	10.3 ⁷	10.6	9.7	10.8 ⁶	10.2 ⁶	10.6 ⁶	10.9 ⁶	11.3	11.5 ⁶
Ireland.....	21.5	17.9	17.9	17.8	15.9	15.9	15.7	—	—	—	—	—	—	—	15.9 ^{3,6}	15.5 ^{3,6}	13.2 ^{3,6,8}	12.8 ^{3,6,8}	12.6 ^{3,6,8}	14.4 ^{3,6,8}	14.4 ^{3,6}
Israel.....	—	17.3	16.4	16.3	17.0	20.6 ⁸	15.9 ⁸	—	13.4	12.4	12.2	13.7	12.8 ⁸	13.6 ⁸	—	13.4	11.8	10.9	10.8	11.0 ⁸	11.3 ⁸
Italy.....	11.0	10.6	10.5	10.6 ⁸	10.7 ⁸	11.3 ⁸	11.7 ⁸	10.4	10.1	9.4	9.7 ⁸	10.0 ⁸	11.9 ⁸	11.5 ⁸	10.2	11.0	10.8	11.8 ⁸	11.8 ⁸	12.1 ⁸	12.8 ⁸
Japan.....	20.9	19.4	19.0	18.8	18.6	18.4	18.1	16.8	15.1	14.8	14.7	14.5	14.4	14.2	14.0	13.0 ⁶	12.5 ⁶	12.3 ⁶	12.2 ⁶	12.2 ⁶	12.2 ⁶
Korea, Republic of..	32.1	28.0	25.6	24.1	22.5	21.1	19.6	21.5	20.8	20.5	20.2	19.9	19.7	18.8	20.9	16.0	16.2	16.5	16.7	16.5	15.8
Luxembourg.....	15.9 ⁸	—	11.2 ⁸	12.1 ⁸	11.6	10.1	9.9	—	—	—	—	—	—	—	9.2 ^{3,8}	9.0 ^{3,8}	9.0 ^{3,8}	9.1 ^{3,8}	9.1 ³	9.1 ³	9.6 ³
Mexico.....	27.2	28.3	28.0	28.0	28.1	28.1	28.1	34.8	33.7	33.3	33.9	33.0	32.7	31.9	26.5	25.8	25.7	25.8	25.6	26.9	26.8
Netherlands.....	16.8 ⁴	15.9 ⁴	15.6 ⁴	15.8 ^{4,8}	15.8 ^{4,8}	15.7 ^{4,8}	15.8	—	—	—	—	—	—	15.3	17.1 ³	16.2 ³	15.7 ^{3,6}	15.8 ^{3,6,8}	16.1 ^{3,6,8}	16.5 ^{3,6,8}	18.2
New Zealand.....	20.6	18.1	17.5	17.1	16.3	16.2	16.3	19.9	16.8	16.2	16.2	16.3	16.3	16.3	13.1	12.9	13.3	12.8	12.8	14.4	13.9
Norway.....	12.4	—	11.0 ⁸	10.8 ⁸	10.7 ⁸	10.5 ⁸	10.4 ⁸	9.9	—	10.2 ⁸	10.1 ⁸	9.9 ⁸	9.9 ⁸	10.0 ⁸	9.7	—	9.8 ^{6,8}	9.9 ^{6,8}	9.4 ^{6,8}	9.4 ⁸	9.7 ^{6,8}
Poland.....	12.7	11.7	11.0	10.5	10.2	10.0	11.0	11.5	12.7	12.4	12.9	12.9	12.7	10.0	16.9	12.9	12.2	12.0	12.1	11.1	—
Portugal.....	12.1	10.8	11.8	11.3	11.3	10.9	11.2	10.4	8.2	7.9	8.1	7.6	7.9	8.2	7.9	8.0	8.4 ⁶	7.3 ⁶	7.7 ⁶	7.2 ⁶	7.3 ⁶
Slovak Republic.....	18.3	18.9	17.9	18.6	17.7	17.1	16.9	13.5	14.1	13.9	14.5	14.0	13.6	13.1	12.8	14.3	14.1	15.1	14.6	14.3	14.3
Slovenia.....	—	15.0	15.2	15.8	16.7	16.2	16.0	—	11.1	9.5	8.9	7.9	8.0	7.9	—	14.6	13.9 ⁶	13.7 ⁶	14.3 ⁶	14.3 ⁶	14.3 ⁶
Spain.....	14.9	14.3	13.6	13.1	13.3	13.2	13.2	—	12.5	11.7	10.3	10.1	10.1	10.3	11.9 ³	8.1	7.7	8.7	9.3	9.6	9.8
Sweden.....	12.8	12.2	12.3	12.2	12.1	11.7	11.3	12.8	12.0	11.5	11.4	11.3	11.4	11.3	15.2	14.0	13.6	14.7	13.2	13.1	13.0
Switzerland ⁹	—	14.6	14.8	15.4	15.4	14.9	—	—	11.7	12.3	12.1	12.0	11.8	—	—	10.5 ²	10.6 ²	10.4 ²	10.4 ²	10.3 ²	—
Turkey.....	30.5	25.8	26.2	24.4	22.9	21.7	21.0	—	↑	↑	↑	↑	↑	↑	14.0	16.2	16.2	17.0	16.9	17.6	17.8
United Kingdom.....	21.2	20.7	19.4	20.2	19.9	19.8	19.9	17.6 ²	17.0	16.7	15.0	16.1	17.1	15.2	12.5 ²	11.8 ^{2,6}	11.3 ^{2,6}	12.4 ⁶	12.3 ⁶	15.2 ⁶	17.3
United States.....	15.8	14.9	14.6	15.0	14.8	14.5	15.3	16.3	15.1	14.7	14.8	14.3	14.0	15.2	14.1	16.0	15.6	15.6	15.1	15.0	15.3
Other reporting countries																					
Brazil.....	—	22.9	25.8	24.5	24.0	23.4	22.5	—	18.1	22.3	21.2	21.0	20.4	19.8	—	17.6	20.2	18.4	18.1	17.3	16.9
Russian Federation.....	—	—	17.0 ⁸	17.3 ⁸	17.9 ⁸	19.2 ⁸	20.0 ⁸	—	—	—	—	—	—	—	—	11.2 ^{6,10}	8.8 ^{3,6,11}	8.7 ^{3,6,11}	8.7 ^{3,6,11}	11.3 ^{3,6,11}	8.7 ^{3,6,8}

—Not available.

†Not applicable. This level of education does not exist within the national education structure; students in the age group normally associated with this education level are reported in other levels.

¹Refers to the mean of the data values for all reporting Organization for Economic Cooperation and Development (OECD) countries, to which each country reporting data contributes equally. The average includes all current OECD countries for which a given year's data are available, even if they were not members of OECD in that year. However, if data were reported for less than 75 percent of the countries, the average for that year is omitted.²Includes only general programs.³Includes junior high school data.⁴Includes preprimary data.⁵Excludes independent private institutions.⁶Includes postsecondary non-higher-education.⁷Includes elementary school data.⁸Public schools only.⁹Includes occupation-specific education corresponding to that offered at the vocational associate's degree level in the United States.¹⁰Excludes general programs.¹¹Excludes part-time personnel in public institutions.

NOTE: The pupil/teacher ratio is the number of full-time-equivalent students divided by the number of full-time-equivalent teachers, including teachers for students with disabilities and other special teachers. In this table, elementary school corresponds to International Standard Classification of Education (ISCED) level 1 (U.S. grades 1 through 6), junior high school corresponds to ISCED level 2 (U.S. grades 7 through 9), and senior high school corresponds to ISCED level 3 (U.S. grades 10 through 12).

SOURCE: Organization for Economic Cooperation and Development (OECD), Online Education Database; and *Education at a Glance*, 2002 through 2013. (This table was prepared December 2013.)

Table 601.60. Teachers' statutory teaching and total working time and average class size in public elementary and secondary schools, by level of education and country: 2011

Country	Statutory teaching and total working time												Average class size	
	Number of weeks of instruction			Number of days of instruction			Net teaching time in hours			Total working time in hours				
	Elementary	Junior high school (lower secondary)	Senior high school (upper secondary) ¹	Elementary	Junior high school (lower secondary)	Senior high school (upper secondary) ¹	Elementary	Junior high school (lower secondary)	Senior high school (upper secondary) ¹	Elementary	Junior high school (lower secondary)	Senior high school (upper secondary) ¹	Elementary	Junior high school (lower secondary)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
OECD average ²	38	38	37	185	185	183	790	709	664	1,599	1,591	1,593	21	23
Australia ³	40	40	40	196	196	195	873	811	802	†	†	†	23	23
Austria ³	38	38	38	180	180	180	779	607	589	1,776	1,776	†	18	21
Belgium (Flemish) ³	37	37	37	178	179	179	757	671	626	†	†	†	—	—
Belgium (French) ³	37	37	37	181	181	181	721	661	601	†	†	†	21	—
Canada ³	37	37	37	183	183	183	799	743	747	†	†	†	—	—
Chile ⁴	38	38	38	182	182	182	1,120	1,120	1,120	1,998	1,998	1,998	30	31
Czech Republic ³	39	39	39	191	191	191	840	630	602	1,696	1,696	1,696	20	21
Denmark ⁵	42	42	42	200	200	200	650	650	369	1,680	1,680	1,680	21	21
England ⁵	38	38	38	190	190	190	684	695	695	1,265	1,265	1,265	—	—
Estonia ⁴	35	35	35	172	172	172	619	619	568	1,540	1,540	1,540	17	17
Finland ⁶	38	38	38	189	189	189	680	595	553	†	†	†	19	20
France ³	36	36	36	141	—	—	936	648	648	1,607	1,607	1,607	23	24
Germany ³	40	40	40	193	193	193	804	757	715	1,793	1,793	1,793	21	25
Greece ³	36	31	31	177	153	153	589	415	415	†	†	†	17	22
Hungary ⁶	37	37	37	183	183	183	604	604	604	1,864	1,864	1,864	21	21
Iceland ³	37	37	35	180	180	170	624	624	544	1,800	1,800	1,800	18	20
Ireland ³	37	33	33	183	167	167	915	735	735	†	†	†	24	—
Israel ³	38	37	37	183	175	175	842	614	521	†	†	†	28	30
Italy ⁶	39	39	39	175	175	175	770	630	630	†	†	†	19	22
Japan ⁵	40	40	39	200	200	196	731	602	510	1,883	1,883	1,883	28	33
Korea, Republic of ⁴	40	40	40	220	220	220	812	621	609	1,680	1,680	1,680	26	34
Luxembourg ³	36	36	36	176	176	176	810	739	739	†	†	†	15	19
Mexico ³	41	41	36	200	200	173	800	1,047	848	†	†	†	20	27
Netherlands ⁴	40	—	—	195	—	—	930	750	750	1,659	1,659	1,659	—	—
New Zealand ³	39	39	38	195	193	190	935	848	760	†	†	†	—	—
Norway ³	38	38	38	190	190	190	741	663	523	1,688	1,688	1,688	†	†
Poland ⁵	37	36	36	179	177	175	618	547	544	1,464	1,448	1,432	19	23
Portugal ⁴	38	38	38	176	176	176	880	774	774	1,508	1,508	1,508	21	22
Scotland ⁴	38	38	38	190	190	190	855	855	855	1,365	1,365	1,365	—	—
Slovak Republic ³	39	39	39	190	190	190	846	656	627	1,583	1,583	1,583	18	20
Slovenia ³	40	40	40	190	190	190	690	690	633	†	†	†	19	19
Spain ³	37	37	36	176	176	171	880	713	693	1,425	1,425	1,425	20	24
Sweden ³	†	†	†	†	†	†	—	—	—	1,767	1,767	1,767	—	—
Switzerland.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Turkey ³	38	†	38	180	†	180	639	†	567	1,816	†	1,816	26	†
United Kingdom.....	—	—	—	—	—	—	—	—	—	—	—	—	26	21
United States ⁵	36	36	36	180	180	180	1,097	1,068	1,051	1,913	1,977	1,998	20	24
Other reporting countries														
Argentina ⁷	38	38	38	180	181	181	720	1,448	1,448	—	—	—	25	28
Brazil.....	—	—	—	—	—	—	—	—	—	—	—	—	26	29
China.....	—	—	—	—	—	—	—	—	—	—	—	—	38	53
Indonesia ^{5,8}	44	44	44	244	200	200	697	544	638	1,069	1,069	1,069	26	35
Russian Federation ⁵	34	35	35	170	210	210	561	483	483	†	†	†	18	18

—Not available.

†Not applicable according to the Organization for Economic Cooperation and Development (OECD).

¹General programs only.

²Refers to the mean of the data values for all reporting OECD countries, to which each country or country component reporting data contributes equally.

³Typical teaching time reported.

⁴Maximum teaching time reported.

⁵Actual teaching time reported.

⁶Minimum teaching time reported.

⁷Data are for 2010.

⁸Statutory teaching and total working time data are for 2010.

NOTE: In this table, elementary school corresponds to International Standard Classification of Education (ISCED) level 1 (U.S. grades 1 through 6), junior high school corresponds to ISCED level 2 (U.S. grades 7 through 9), and senior high school corresponds to ISCED level 3 (U.S. grades 10 through 12).

SOURCE: Organization for Economic Cooperation and Development (OECD), *Education at a Glance*, 2013. (This table was prepared December 2013.)

Table 602.10. Average reading literacy scale scores of fourth-graders and percentage whose schools emphasize reading skills and strategies at or before second grade or at third grade, by sex and country or other education system: 2001, 2006, and 2011
[Standard errors appear in parentheses]

	Average reading literacy scale score ²						Percent of fourth-graders in 2011, by grade at which reading skills and strategies emphasized ³							
Country or other education system ¹	2001	2006	2011			At or before second grade		At third grade						
			Total	Male	Female									
1	2	3	4	5	6	7	8							
PIRLS average⁴	500	(†)	500	(†)	500	(†)	504	(0.5)	520	(0.5)	28	(0.5)	68	(0.5)
Australia	—	(†)	—	(†)	527	(2.2)	519	(2.7)	536	(2.7)	73	(4.0)	27	(4.0)
Austria	—	(†)	538	(2.2)	529	(2.0)	525	(2.3)	533	(2.2)	29	(4.2)	71	(4.2)
Azerbaijan ⁵	—	(†)	—	(†)	462 ⁶	(3.3)	456 ⁶	(3.5)	470 ⁶	(3.6)	19	(3.6)	79	(3.8)
Belgium (French)-BEL	—	(†)	500	(2.6)	506 ^{6,7}	(2.9)	504 ^{6,7}	(3.1)	509 ^{6,7}	(3.1)	29	(5.0)	70	(5.1)
Bulgaria	550	(3.8)	547	(4.4)	532	(4.1)	524	(4.3)	539	(4.5)	25	(3.5)	74	(3.6)
Canada	—	(†)	—	(†)	548 ⁶	(1.6)	542 ⁶	(2.1)	555 ⁶	(1.7)	55	(2.7)	44	(2.7)
Chinese Taipei-CHN	—	(†)	535	(2.0)	553	(1.9)	546	(2.1)	561	(2.1)	17	(3.0)	80	(3.0)
Colombia	422	(4.4)	—	(†)	448	(4.1)	448	(4.6)	447	(4.6)	13	(3.3)	81	(3.6)
Croatia	—	(†)	—	(†)	553 ⁶	(1.9)	546 ⁶	(2.2)	560 ⁶	(2.1)	31	(4.1)	68	(4.2)
Czech Republic	537	(2.3)	—	(†)	545	(2.2)	542	(2.5)	549	(2.5)	24	(3.8)	74	(4.0)
Denmark	—	(†)	546	(2.3)	554 ⁶	(1.7)	548 ⁶	(2.1)	560 ⁶	(1.9)	21	(2.4)	79	(2.4)
England-GBR	553 ^{4,5}	(3.4)	539	(2.6)	552 ⁷	(2.6)	540 ⁷	(3.1)	563 ⁷	(3.0)	84	(3.3)	15	(3.2)
Finland	—	(†)	—	(†)	568	(1.9)	558	(2.2)	578	(2.3)	10	(2.6)	87	(2.8)
France	525	(2.4)	522	(2.1)	520	(2.6)	518	(2.4)	522	(3.4)	18	(3.3)	81	(3.4)
Georgia ⁵	—	(†)	471 ^{6,8}	(3.1)	488 ⁸	(3.1)	477 ⁸	(4.0)	499 ⁸	(2.7)	20	(2.8)	79	(2.9)
Germany	539	(1.9)	548	(2.2)	541	(2.2)	537	(2.7)	545	(2.3)	30	(3.4)	69	(3.3)
Hong Kong-CHN	528	(3.1)	564	(2.4)	571 ⁹	(2.3)	563 ⁹	(2.5)	579 ⁹	(2.3)	16	(3.5)	81	(3.8)
Hungary	543	(2.2)	551	(3.0)	539	(2.9)	532	(3.2)	547	(3.2)	28	(4.1)	71	(4.0)
Indonesia	—	(†)	405	(4.1)	428	(4.2)	419	(4.3)	437	(4.5)	†	(†)	88	(3.2)
Iran, Islamic Republic of	414	(4.2)	421	(3.1)	457	(2.8)	448	(4.3)	467	(4.3)	7	(1.6)	85	(2.4)
Ireland	—	(†)	—	(†)	552	(2.3)	544	(3.0)	559	(2.9)	40	(4.0)	60	(4.0)
Israel	509 ¹⁰	(2.8)	512 ¹⁰	(3.3)	541 ⁹	(2.7)	538 ⁹	(3.4)	544 ⁹	(3.1)	59	(4.7)	41	(4.7)
Italy	541	(2.4)	551	(2.9)	541	(2.2)	540	(2.7)	543	(2.4)	15	(2.5)	84	(2.5)
Lithuania	543 ⁸	(2.6)	537 ⁸	(1.6)	528 ^{6,8}	(2.0)	520 ^{6,8}	(2.4)	537 ^{6,8}	(2.4)	23	(3.3)	76	(3.4)
Malta	—	(†)	—	(†)	477	(1.4)	468	(2.0)	486	(1.9)	14	(0.1)	86	(0.1)
Morocco	350 ¹¹	(9.6)	323	(5.9)	310 ¹²	(3.9)	296 ¹²	(4.6)	326 ¹²	(4.0)	†	(†)	48	(4.0)
Netherlands	554 ⁷	(2.5)	547 ⁷	(1.5)	546 ⁷	(1.9)	543 ⁷	(2.2)	549 ⁷	(2.1)	22 ¹³	(4.4)	78 ¹³	(4.4)
New Zealand	529	(3.6)	532	(2.0)	531	(1.9)	521	(2.7)	541	(2.2)	73	(3.6)	27	(3.6)
Northern Ireland-GBR	—	(†)	—	(†)	558 ⁷	(2.4)	550 ⁷	(3.2)	567 ⁷	(2.5)	55 ¹³	(4.6)	45 ¹³	(4.6)
Norway	499	(2.9)	498 ¹³	(2.6)	507 ¹¹	(1.9)	500 ¹¹	(2.7)	514 ¹¹	(2.2)	14	(3.4)	83	(3.9)
Oman	—	(†)	—	(†)	391 ¹⁴	(2.8)	371 ¹⁴	(3.4)	411 ¹⁴	(3.0)	4	(0.9)	86	(2.0)
Poland	—	(†)	519	(2.4)	526	(2.1)	519	(2.7)	533	(2.5)	6 ¹	(2.1)	94	(2.1)
Portugal	—	(†)	—	(†)	541	(2.6)	534	(2.8)	548	(3.0)	25	(4.1)	75	(4.1)
Qatar	—	(†)	353	(1.1)	425 ⁶	(3.5)	411 ⁶	(4.2)	441 ⁶	(4.7)	24	(3.0)	66	(3.4)
Romania	512	(4.6)	489	(5.0)	502	(4.3)	495	(4.3)	510	(4.8)	14	(3.4)	85	(3.5)
Russian Federation	528 ⁶	(4.4)	565 ⁶	(3.4)	568	(2.7)	559	(3.1)	578	(2.8)	50	(3.7)	50	(3.7)
Saudi Arabia	—	(†)	—	(†)	430	(4.4)	402	(8.2)	456	(3.1)	7	(1.7)	78	(3.5)
Singapore	528	(5.2)	558	(2.9)	567 ⁶	(3.3)	559 ⁶	(3.6)	576 ⁶	(3.5)	46	(#)	54	(#)
Slovak Republic	518	(2.8)	531	(2.8)	535	(2.8)	530	(2.8)	540	(3.1)	24	(3.2)	76	(3.3)
Slovenia	502	(2.0)	522	(2.1)	530	(2.0)	523	(2.7)	539	(2.2)	8	(1.8)	87	(2.4)
Spain	—	(†)	513	(2.5)	513	(2.3)	511	(2.8)	516	(2.5)	29	(3.2)	71	(3.2)
Sweden	561	(2.2)	549	(2.3)	542	(2.1)	535	(2.5)	549	(2.4)	37 ¹³	(4.5)	63 ¹³	(4.5)
Trinidad and Tobago	—	(†)	436	(4.9)	471	(3.8)	456	(4.3)	487	(4.5)	32	(3.8)	66	(4.0)
United Arab Emirates	—	(†)	—	(†)	439	(2.2)	425	(3.5)	452	(3.0)	15	(1.3)	68	(2.2)
United States	542 ^{6,7}	(3.8)	540 ⁷	(3.5)	556 ⁶	(1.5)	551 ⁶	(1.7)	562 ⁶	(1.9)	75 ¹³	(2.7)	24 ¹³	(2.7)
Benchmarking education systems														
Abu Dhabi-UAE	—	(†)	—	(†)	424	(4.7)	406	(6.3)	442	(5.5)	11	(2.6)	61	(4.4)
Alberta-CAN	—	(†)	560 ⁶	(2.4)	548 ⁶	(2.9)	543 ⁶	(3.1)	553 ⁶	(3.1)	52	(4.5)	48	(4.5)
Andalusia-ESP	—	(†)	—	(†)	515	(2.3)	511	(2.8)	519	(2.4)	26	(3.6)	74	(3.6)
Dubai-UAE	—	(†)	—	(†)	476	(2.0)	470	(3.5)	483	(3.9)	28	(0.3)	66	(0.3)
Florida-USA ¹⁵	—	(†)	—	(†)	569 ^{8,10}	(2.9)	561 ^{8,10}	(3.0)	576 ^{8,10}	(3.4)	82 ¹³	(4.7)	18 ¹³	(4.7)
Maltese-MLT	—	(†)	—	(†)	457	(1.5)	445	(2.2)	470	(2.0)	14	(0.1)	86	(0.1)
Ontario-CAN	548 ⁶	(3.3)	555 ⁶	(2.7)	552 ⁶	(2.6)	546 ⁶	(2.8)	558 ⁶	(3.3)	75	(4.0)	25	(4.0)
Quebec-CAN	537	(3.0)	533	(2.8)	538	(2.1)	531	(2.4)	544	(2.6)	23	(3.9)	75	(4.1)

—Not available.

†Not applicable.

#Rounds to zero.

!Interpret data with caution. The coefficient of variation (CV) for this estimate is between 30 and 50 percent.

‡Reporting standards not met. The coefficient of variation (CV) for this estimate is 50 percent or greater.

¹Most of the education systems represent complete countries, but some represent subnational entities such as U.S. states, Canadian provinces, and England (which is part of the United Kingdom). The name of each subnational entity appears in italics and includes as a suffix the three-letter International Organization for Standardization (ISO) abbreviation for its complete country. Examples include *Florida-USA*, *Ontario-CAN*, and *England-GBR*.

²Progress in International Reading Literacy Study (PIRLS) scores are reported on a scale from 0 to 1,000, with the scale average set at 500 and the standard deviation set at 100.

³Based on principals' reports of the earliest grade at which each of 11 reading skills and strategies first receive a major emphasis in instruction. A school is counted as emphasizing reading skills and strategies at a certain grade (or before) only if its principal reported that all 11 skills and strategies are emphasized at that grade (or before). A small percentage of fourth-graders (1 percent in the United States) are not shown because their schools first emphasized reading skills and strategies at fourth grade or later.

⁴The PIRLS average includes only education systems that are members of the International Association for the Evaluation of Educational Achievement (IAE), which develops and implements PIRLS

at the international level. "Benchmarking" education systems are not members of the IEA and are therefore not included in the average.

⁵Exclusion rates for Azerbaijan and Georgia are slightly underestimated as some conflict zones were not covered and no official statistics were available for 2011.

⁶National Defined Population covers 90 percent to 95 percent of National Target Population.

⁷Met guidelines for sample participation rates only after replacement schools were included.

⁸National Target Population does not include all of the International Target Population.

⁹National Defined Population covers less than 90 percent of National Target Population.

¹⁰National Defined Population covers less than 80 percent of National Target Population.

¹¹Nearly satisfied guidelines for sample participation rates after replacement schools were included.

¹²The TIMSS & PIRLS International Study Center has reservations about the reliability of the average achievement score because the percentage of students with achievement too low for estimation exceeds 25 percent.

¹³Data are available for at least 70 percent but less than 85 percent of students.

¹⁴The TIMSS & PIRLS International Study Center has reservations about the reliability of the average achievement score because the percentage of students with achievement too low for estimation exceeds 15 percent, though it is less than 25 percent.

¹⁵All data for Florida are based on public schools only.

SOURCE: International Association for the Evaluation of Educational Achievement (IEA), Progress in International Reading Literacy Study (PIRLS), 2001, 2006, and 2011. (This table was prepared February 2013).

Table 602.20. Average fourth-grade scores and annual instructional time in mathematics and science, by country or other education system: 2011
[Standard errors appear in parentheses]

Country or other education system ¹	Total instructional hours per year	Mathematics				Science			
		Average score ²	Instructional time in mathematics		Average score ²	Instructional time in science			
			Hours per year	As a percent of total instructional hours		Hours per year	As a percent of total instructional hours		
1	2	3	4	5	6	7	8		
TIMSS average³	897 (2.0)	500 (†)	162 (0.5)	18 (0.1)	500 (†)	85 (0.5)	10 (0.1)		
Armenia	851 ⁴ (17.1)	452 (3.5)	139 ⁴ (1.7)	16 (0.2)	416 (3.8)	54 ⁵ (0.6)	6 (0.1)		
Australia	1,008 (6.9)	516 (2.9)	230 ⁵ (5.8)	23 (0.6)	516 (2.8)	65 ⁵ (2.3)	6 (0.2)		
Austria	808 (6.9)	508 (2.6)	146 (2.1)	18 (0.3)	532 (2.8)	96 (2.3)	12 (0.3)		
Azerbaijan ^{6,7}	804 (27.7)	463 (5.8)	130 (3.3)	18 (0.7)	438 (5.6)	61 (1.4)	8 (0.3)		
Bahrain	964 (10.8)	436 (3.3)	131 ⁴ (4.4)	14 (0.4)	449 (3.5)	85 ⁴ (2.7)	9 (0.3)		
Belgium (Flemish)-BEL	1,010 ⁴ (16.8)	549 (1.9)	224 ⁴ (4.1)	21 (0.3)	509 (2.0)	— (†)	— (†)		
Chile	1,228 ⁴ (22.6)	462 (2.3)	231 ⁵ (6.7)	19 (0.6)	480 (2.4)	161 ⁵ (6.4)	13 (0.5)		
Chinese Taipei-CHN	989 ⁴ (13.4)	591 (2.0)	133 (3.9)	12 (0.4)	552 (2.2)	90 (2.3)	9 (0.3)		
Croatia ⁸	776 (19.4)	490 (1.9)	134 (2.3)	18 (0.4)	516 (2.1)	95 (2.4)	13 (0.4)		
Czech Republic	782 (8.2)	511 (2.4)	163 (3.0)	21 (0.4)	536 (2.5)	60 (2.2)	8 (0.3)		
Denmark ⁶	863 ⁴ (9.4)	537 (2.6)	124 ⁵ (2.0)	15 (0.3)	528 (2.8)	62 ⁵ (1.9)	7 (0.2)		
England-GBR	970 ⁴ (8.3)	542 (3.5)	188 ⁵ (3.3)	19 (0.4)	529 (2.9)	76 ⁵ (3.2)	8 (0.3)		
Finland	779 (9.8)	545 (2.3)	139 (2.5)	18 (0.4)	570 (2.6)	98 (1.9)	13 (0.4)		
Georgia ^{7,8}	748 ⁴ (18.7)	450 (3.7)	148 ⁴ (3.9)	21 (0.6)	455 (3.8)	110 ⁴ (2.7)	16 (0.4)		
Germany	863 ⁴ (11.2)	528 (2.2)	163 ⁴ (3.1)	19 (0.3)	528 (2.9)	75 ⁵ (3.5)	8 (0.4)		
Hong Kong-CHN ⁶	1,059 ⁴ (11.2)	602 (3.4)	158 ⁴ (3.0)	15 (0.3)	535 (3.8)	88 ⁴ (4.2)	8 (0.4)		
Hungary	760 (12.2)	515 (3.4)	148 (3.3)	20 (0.5)	534 (3.7)	72 (2.2)	10 (0.3)		
Iran, Islamic Republic of	727 (11.2)	431 (3.5)	146 (3.9)	20 (0.4)	453 (3.7)	106 (3.2)	14 (0.4)		
Ireland	854 (#)	527 (2.6)	150 (2.8)	18 (0.3)	516 (3.4)	63 (6.6)	7 (0.8)		
Italy	1,085 (12.6)	508 (2.6)	214 (3.9)	20 (0.4)	524 (2.7)	78 ⁴ (1.8)	7 (0.2)		
Japan	891 (3.7)	585 (1.7)	150 (1.6)	17 (0.1)	559 (1.9)	91 (0.8)	10 (0.1)		
Kazakhstan ⁶	779 (10.6)	501 (4.5)	140 (2.7)	18 (0.4)	495 (5.1)	57 (1.3)	8 (0.2)		
Korea, Republic of	789 (11.4)	605 (1.9)	121 (3.0)	15 (0.4)	587 (2.0)	92 (2.5)	11 (0.4)		
Kuwait ⁶	928 ⁴ (23.1)	342 ⁹ (3.4)	120 ⁴ (4.9)	13 (0.4)	347 ¹⁰ (4.7)	85 ⁵ (5.8)	10 (0.6)		
Lithuania ^{6,8}	649 (9.0)	534 (2.4)	133 (2.6)	21 (0.5)	515 (2.4)	60 (1.5)	9 (0.3)		
Malta	891 ⁴ (0.2)	496 (1.3)	183 ⁴ (0.1)	21 (#)	446 (1.9)	39 ⁴ (0.1)	4 (#)		
Morocco	1,040 ⁴ (23.6)	335 ⁹ (4.0)	174 ⁵ (3.5)	17 (0.4)	264 ⁹ (4.5)	44 ⁵ (5.5)	5 (0.6)		
Netherlands ¹¹	1,074 ⁵ (9.9)	540 (1.7)	195 ⁵ (7.0)	18 (0.5)	531 (2.2)	42 ⁵ (2.4)	4 (0.2)		
New Zealand	925 (3.9)	486 (2.6)	168 (2.4)	18 (0.3)	497 (2.3)	52 ⁵ (3.0)	6 (0.3)		
Northern Ireland-GBR ¹¹	970 ⁴ (11.0)	562 (2.9)	232 ⁵ (6.1)	24 (0.6)	517 (2.6)	72 ⁵ (3.9)	8 (0.4)		
Norway ¹²	817 (10.7)	495 (2.8)	157 (4.1)	19 (0.6)	494 (2.3)	55 (2.2)	7 (0.3)		
Oman	999 ⁵ (17.4)	385 ¹⁰ (2.9)	170 ⁵ (3.1)	17 (0.3)	377 (4.3)	120 ⁵ (2.4)	12 (0.2)		
Poland	764 ⁴ (13.5)	481 (2.2)	157 ⁴ (3.0)	21 (0.5)	505 (2.6)	64 ⁴ (3.1)	8 (0.4)		
Portugal	940 ⁴ (13.1)	532 (3.4)	250 ⁴ (4.3)	27 (0.4)	522 (3.9)	162 ⁴ (4.1)	17 (0.8)		
Qatar ⁶	1,068 (9.1)	413 (3.5)	185 (6.3)	17 (0.6)	394 (4.3)	135 (6.8)	13 (0.6)		
Romania	796 (17.9)	482 (5.8)	148 (3.9)	19 (0.5)	505 (5.9)	56 (6.2)	7 (0.8)		
Russian Federation	660 ⁴ (8.0)	542 (3.7)	104 (1.0)	16 (0.2)	552 (3.5)	49 (0.7)	8 (0.2)		
Saudi Arabia	977 ⁴ (19.4)	410 (5.3)	147 ⁴ (6.6)	15 (0.5)	429 (5.4)	82 ⁴ (4.2)	8 (0.5)		
Serbia ⁶	778 (18.5)	516 (3.0)	153 (2.1)	20 (0.5)	516 (3.1)	72 (5.0)	10 (0.9)		
Singapore ⁶	1,012 (#)	606 (3.2)	208 (3.2)	21 (0.3)	583 (3.4)	96 (2.1)	9 (0.2)		
Slovak Republic	780 (8.8)	507 (3.8)	147 (1.4)	19 (0.1)	532 (3.8)	101 (4.3)	13 (0.6)		
Slovenia	684 (#)	513 (2.2)	169 (2.6)	25 (0.4)	520 (2.7)	101 (1.2)	15 (0.2)		
Spain	884 ⁴ (9.7)	482 (2.9)	167 ⁴ (2.3)	19 (0.2)	505 (3.0)	145 ⁴ (2.6)	16 (0.3)		
Sweden	849 ⁴ (11.3)	504 (2.0)	138 ⁵ (3.8)	17 (0.5)	533 (2.7)	75 ⁵ (3.0)	9 (0.4)		
Thailand	1,201 ⁴ (20.9)	458 (4.8)	167 (5.2)	14 (0.6)	472 (5.6)	109 (4.9)	9 (0.5)		
Tunisia	963 ⁴ (22.9)	359 ¹⁰ (3.9)	175 ⁴ (2.9)	19 (0.3)	346 ¹⁰ (5.3)	93 ⁴ (5.4)	10 (0.6)		
Turkey	900 (19.3)	469 (4.7)	126 (2.5)	15 (0.4)	463 (4.5)	94 (1.8)	11 (0.3)		
United Arab Emirates	1,025 ⁴ (8.5)	434 (2.0)	154 ⁵ (2.4)	15 (0.2)	428 (2.5)	108 ⁵ (3.0)	11 (0.3)		
United States ⁶	1,078 (7.3)	541 (1.8)	206 ⁴ (4.6)	19 (0.5)	544 (2.1)	105 ⁴ (3.1)	10 (0.3)		
Yemen	831 ⁴ (14.1)	248 ⁹ (6.0)	135 ⁴ (6.4)	16 (0.7)	209 ⁹ (7.3)	91 ⁴ (5.6)	11 (0.6)		
Benchmarking education systems									
Abu Dhabi-UAE	1,033 ⁴ (18.1)	417 (4.6)	150 ⁵ (4.3)	15 (0.4)	411 (4.9)	110 ⁵ (6.8)	11 (0.6)		
Alberta-CAN ⁶	1,006 (8.8)	507 (2.5)	169 ⁵ (3.2)	17 (0.4)	541 (2.4)	130 ⁵ (4.1)	13 (0.6)		
Dubai-UAE	993 ⁴ (0.7)	468 (1.6)	158 ⁵ (2.3)	16 (0.2)	461 (2.3)	99 ⁵ (1.6)	10 (0.2)		
Florida-USA ^{8,13,14}	1,073 ⁴ (19.7)	545 (2.9)	217 ⁵ (8.8)	20 (0.9)	545 (3.7)	113 ⁵ (9.6)	10 (0.8)		
North Carolina-USA ^{6,8,14}	1,113 ⁴ (22.9)	554 (4.2)	221 ⁴ (13.5)	20 (1.2)	538 (4.6)	94 ⁴ (6.0)	9 (0.4)		
Ontario-CAN	969 (7.4)	518 (3.1)	201 ⁴ (4.1)	21 (0.5)	528 (3.0)	92 ⁴ (3.2)	10 (0.3)		
Quebec-CAN	916 (5.1)	533 (2.4)	229 (5.0)	25 (0.6)	516 (2.7)	50 (1.7)	5 (0.2)		

—Not available.

†Not applicable.

#Rounds to zero.

¹Most of the education systems represent complete countries, but some represent subnational entities such as U.S. states, Canadian provinces, and England (which is part of the United Kingdom). The name of each subnational entity appears in *italics* and includes as a suffix the three-letter International Organization for Standardization (ISO) abbreviation for its complete country. Examples include *Florida-USA*, *Ontario-CAN*, and *England-GBR*.

²Trends in International Mathematics and Science Study (TIMSS) scores are reported on a scale from 0 to 1,000, with the scale average set at 500 and the standard deviation set at 100.

³The TIMSS average includes only education systems that are members of the International Association for the Evaluation of Educational Achievement (IAE), which develops and implements TIMSS at the international level. "Benchmarking" education systems are not members of the IEA and are therefore not included in the average.

⁴Data are available for at least 70 percent but less than 85 percent of students.

⁵Data are available for at least 50 percent but less than 70 percent of students.

⁶National Defined Population covers 90 to 95 percent of National Target Population.

⁷Exclusion rates for Azerbaijan and Georgia are slightly underestimated as some conflict zones were not covered and no official statistics were available.

⁸National Target Population does not include all of the International Target Population defined by TIMSS.

⁹The TIMSS & PIRLS International Study Center has reservations about the reliability of the average achievement score because the percentage of students with achievement too low for estimation exceeds 25 percent.

¹⁰The TIMSS & PIRLS International Study Center has reservations about the reliability of the average achievement score because the percentage of students with achievement too low for estimation exceeds 15 percent, though it is less than 25 percent.

¹¹Met guidelines for sample participation rates only after replacement schools were included.

¹²Nearly satisfied guidelines for sample participation rates after replacement schools were included.

¹³National Defined Population covers less than 90 percent of National Target Population (but at least 77 percent).

¹⁴All U.S. state data are based on public school students only.

NOTE: Countries were required to sample students in the grade that corresponded to the end of 4 years of formal schooling, providing that the mean age at the time of testing was at least 9.5 years. Instructional times shown in this table are actual or implemented times (as opposed to intended times prescribed by the curriculum). Principals reported total instructional hours per day and school days per year. Total instructional hours per year were calculated by multiplying the number of school days per year by the number of instructional hours per day. Teachers reported instructional hours per week in mathematics and science. Instructional hours per year in mathematics and science were calculated by dividing weekly instructional hours by the number of school days per week and then multiplying by the number of school days per year.

SOURCE: International Association for the Evaluation of Educational Achievement (IEA), Trends in International Mathematics and Science Study (TIMSS), 2011; *TIMSS 2011 International Results in Mathematics*, by Ina V.S. Mullis et al.; and *TIMSS 2011 International Results in Science*, by Michael O. Martin et al. (This table was prepared December 2012.)

Table 602.30. Average eighth-grade scores and annual instructional time in mathematics and science, by country or other education system: 2011

[Standard errors appear in parentheses]

Country or other education system ¹	Total instructional hours per year	Mathematics				Science			
		Average score ²	Instructional time in mathematics		As a percent of total instructional hours	Average score ²	Instructional time in science ³		As a percent of total instructional hours
			Hours per year				Hours per year		
1	2	3	4	5	6	7	8		
TIMSS average⁴	1,031 (2.3)	500 (†)	138 (0.5)	14 (0.1)	500 (†)	158 (0.8)	11 (0.1)		
Armenia.....	979 ⁵ (12.8)	467 (2.7)	143 ⁵ (3.0)	15 (0.2)	437 (3.1)	240 ⁶ (4.9)	† (†)		
Australia.....	1,039 (7.2)	505 (5.1)	143 ⁶ (3.5)	14 (0.3)	519 (4.8)	131 ⁶ (4.5)	12 (0.4)		
Bahrain.....	1,019 (1.1)	409 ⁷ (2.0)	142 ⁵ (2.5)	14 (0.3)	452 (2.0)	130 ⁵ (2.8)	13 (0.3)		
Chile.....	1,245 ⁵ (23.5)	416 (2.6)	193 ⁵ (4.5)	15 (0.3)	461 (2.5)	134 ⁵ (3.8)	11 (0.3)		
Chinese Taipei-CHN.....	1,153 (11.7)	609 (3.2)	166 (2.4)	15 (0.2)	564 (2.3)	157 (2.7)	14 (0.3)		
England-GBR ⁸	992 ⁵ (8.4)	507 (5.5)	116 ⁵ (2.1)	11 (0.3)	533 (4.9)	102 ⁶ (3.1)	10 (0.4)		
Finland.....	934 (11.7)	514 (2.5)	105 (1.8)	11 (0.2)	552 (2.5)	190 ⁵ (6.0)	† (†)		
Georgia ^{9,10}	833 ⁵ (10.8)	431 (3.8)	123 ⁵ (3.3)	15 (0.5)	420 (3.0)	198 ⁵ (6.8)	† (†)		
Ghana.....	1,153 ⁵ (18.9)	331 ¹¹ (4.3)	165 ⁵ (6.8)	14 (0.6)	306 ⁷ (5.2)	148 ⁵ (6.1)	13 (0.4)		
Hong Kong-CHN.....	1,026 ⁵ (11.3)	586 (3.8)	138 ⁵ (2.9)	13 (0.3)	535 (3.4)	103 ⁵ (4.6)	10 (0.4)		
Hungary.....	836 (12.2)	505 (3.5)	119 (1.9)	15 (0.3)	522 (3.1)	236 (4.8)	28 ! (13.1)		
Indonesia.....	1,494 ⁵ (40.9)	386 ⁷ (4.3)	173 ⁵ (7.9)	12 (0.6)	406 (4.5)	190 ⁵ (12.2)	10 (0.5)		
Iran, Islamic Republic of.....	994 (15.9)	415 ⁷ (4.3)	124 (3.3)	13 (0.3)	474 (4.0)	120 (3.6)	12 (0.4)		
Israel ¹²	1,108 ⁵ (14.1)	516 (4.1)	165 ⁵ (3.0)	15 (0.2)	516 (4.0)	132 (3.9)	12 (0.4)		
Italy.....	1,085 (9.4)	498 (2.4)	155 (2.5)	14 (0.2)	501 (2.5)	73 (1.0)	7 (0.1)		
Japan.....	1,016 (6.7)	570 (2.6)	108 (1.4)	11 (0.1)	558 (2.4)	128 (1.7)	12 (0.3)		
Jordan.....	1,041 (11.9)	406 ⁷ (3.7)	130 (3.8)	13 (0.4)	449 (4.0)	134 (3.1)	13 (0.4)		
Kazakhstan.....	920 (9.9)	487 (4.0)	117 (3.2)	13 (0.4)	490 (4.3)	244 (4.8)	27 ! (11.0)		
Korea, Republic of.....	1,006 (12.1)	613 (2.9)	137 (1.8)	13 (0.2)	560 (2.0)	126 (2.5)	11 (0.2)		
Lebanon.....	1,028 ⁵ (12.7)	449 (3.7)	178 ⁵ (3.9)	17 (0.4)	406 (4.9)	† (†)	† (†)		
Lithuania ⁹	898 (13.9)	502 (2.5)	132 (2.7)	15 (0.4)	514 (2.6)	251 ⁵ (5.2)	† (†)		
Macedonia, Republic of.....	1,023 ⁵ (21.4)	426 ⁷ (5.2)	122 ⁶ (4.6)	13 (0.6)	407 (5.4)	334 ⁶ (14.7)	† (†)		
Malaysia.....	1,198 ⁵ (13.7)	440 (5.4)	123 ⁵ (3.4)	10 (0.3)	426 (6.3)	126 (3.6)	10 (0.3)		
Morocco.....	1,303 ⁵ (24.9)	371 ¹¹ (2.0)	148 ⁵ (2.1)	12 (0.2)	376 (2.2)	144 ⁵ (2.0)	† (†)		
New Zealand.....	959 (4.4)	488 (5.5)	141 (1.8)	15 (0.2)	512 (4.6)	130 ⁵ (2.6)	14 (0.3)		
Norway.....	880 (6.3)	475 (2.4)	125 (3.4)	14 (0.4)	494 (2.6)	101 (3.3)	11 (0.4)		
Oman.....	1,044 ⁵ (17.7)	366 ⁷ (2.8)	161 ⁵ (5.1)	16 (0.4)	420 (3.2)	161 ⁶ (3.8)	16 (0.3)		
Palestinian National Authority.....	918 (7.3)	404 ⁷ (3.5)	134 (4.0)	15 (0.4)	420 (3.2)	107 (3.4)	12 (0.4)		
Qatar.....	1,054 (1.3)	410 ⁷ (3.1)	162 (3.6)	15 (0.4)	419 (3.4)	131 (6.9)	12 (0.5)		
Romania.....	984 (15.5)	458 (4.0)	145 (3.7)	15 (0.3)	465 (3.5)	281 (10.1)	† (†)		
Russian Federation ¹³	882 (8.7)	539 (3.6)	142 (2.0)	16 (0.3)	542 (3.2)	208 (1.6)	24 ! (8.8)		
Saudi Arabia.....	1,050 ⁵ (20.9)	394 ⁷ (4.6)	134 ⁵ (5.4)	13 (0.4)	436 (3.9)	124 ⁵ (6.8)	12 (0.5)		
Singapore ¹³	1,106 (†)	611 (3.8)	138 (1.7)	13 (0.2)	590 (4.3)	115 (2.1)	11 (0.2)		
Slovenia.....	798 (†)	505 (2.2)	121 (1.5)	15 (0.2)	543 (2.7)	251 (4.6)	31 (4.6)		
Sweden.....	969 ⁵ (13.4)	484 (1.9)	97 ⁶ (2.2)	10 (0.3)	509 (2.5)	94 ⁶ (3.1)	9 (0.4)		
Syrian Arab Republic.....	811 (14.2)	380 ⁷ (4.5)	118 ⁵ (4.7)	15 (0.5)	426 (3.9)	150 ⁵ (7.5)	† (†)		
Thailand.....	1,270 ⁵ (15.1)	427 (4.3)	129 (4.3)	10 (0.3)	451 (3.9)	119 (2.9)	9 (0.3)		
Tunisia.....	1,299 ⁵ (25.4)	425 (2.8)	131 ⁵ (3.0)	10 (0.2)	439 (2.5)	64 ⁵ (1.9)	5 (0.1)		
Turkey.....	889 (16.7)	452 (3.9)	117 (1.8)	14 (0.3)	483 (3.4)	99 (1.1)	12 (0.2)		
Ukraine.....	901 (10.7)	479 (3.9)	132 (3.5)	15 (0.4)	501 (3.4)	239 (4.0)	27 ! (11.4)		
United Arab Emirates.....	1,046 ⁵ (8.0)	456 (2.1)	157 ⁵ (2.9)	15 (0.3)	465 (2.4)	115 ⁶ (2.7)	11 (0.3)		
United States ¹³	1,114 (6.6)	509 (2.6)	157 ⁶ (3.2)	14 (0.3)	525 (2.6)	139 ¹⁴ (2.4)	13 ¹⁴ (0.2)		
Benchmarking education systems									
Abu Dhabi-UAE.....	1,045 ⁵ (16.6)	449 (3.7)	158 ⁵ (5.8)	15 (0.5)	461 (4.0)	111 ⁶ (4.8)	11 (0.5)		
Alabama-USA ^{9,15}	1,135 ⁵ (16.0)	466 (5.9)	166 ⁶ (8.9)	15 (0.9)	485 (6.2)	167 ⁶ (6.0)	15 (0.5)		
Alberta-CAN ¹³	1,031 (10.0)	505 (2.6)	156 (4.2)	19 (0.4)	546 (2.4)	145 ⁵ (4.0)	10 (0.4)		
California-USA ^{9,13,15}	1,040 ⁵ (15.2)	493 (4.9)	172 ⁶ (8.0)	17 (0.7)	499 (4.6)	† (†)	14 (0.7)		
Colorado-USA ^{9,15}	1,148 (17.0)	518 (4.9)	173 ⁵ (8.6)	15 (0.8)	542 (4.4)	138 ⁶ (6.0)	12 (0.5)		

See notes at end of table.

Table 602.30. Average eighth-grade scores and annual instructional time in mathematics and science, by country or other education system: 2011—Continued

[Standard errors appear in parentheses]

Country or other education system ¹	Total instructional hours per year	Mathematics				Science		
		Average score ²	Instructional time in mathematics		Average score ²	Instructional time in science ³		As a percent of total instructional hours
			Hours per year	As a percent of total instructional hours		Hours per year	As a percent of total instructional hours	
1	2	3	4	5	6	7	8	
<i>Connecticut-USA^{9,13,15}</i>	1,071 (19.3)	518 (4.8)	144 ⁵ (4.4)	14 (0.5)	532 (4.6)	139 ⁶ (6.2)	13 (0.6)	
<i>Dubai-UAE</i>	1,022 ⁵ (1.5)	478 (2.1)	155 ⁵ (3.6)	15 (0.3)	485 (2.5)	125 ⁶ (3.6)	11 (0.3)	
<i>Florida-USA^{9,13,15}</i>	1,119 ⁵ (17.0)	513 (6.4)	144 ⁶ (7.4)	13 (0.7)	530 (7.3)	† (†)	13 (0.8)	
<i>Indiana-USA^{9,13,15}</i>	1,133 ⁵ (14.9)	522 (5.1)	149 ⁶ (6.9)	13 (0.7)	533 (4.8)	132 ⁶ (6.5)	12 (0.6)	
<i>Massachusetts-USA^{9,13,15}</i>	1,087 (13.6)	561 (5.3)	154 ⁵ (5.4)	14 (0.6)	567 (5.1)	156 ⁶ (6.1)	15 (0.6)	
<i>Minnesota-USA^{9,15}</i>	1,043 (14.8)	545 (4.6)	142 ⁵ (7.5)	14 (0.7)	553 (4.6)	140 ⁶ (8.3)	14 (0.9)	
<i>North Carolina-USA^{9,12,15}</i>	1,159 (16.0)	537 (6.8)	185 ⁶ (9.7)	16 (0.8)	532 (6.3)	† (†)	16 (1.2)	
<i>Ontario-CAN¹³</i>	971 ⁵ (7.5)	512 (2.5)	181 ⁵ (3.9)	16 (0.5)	521 (2.5)	96 ⁵ (3.5)	11 (0.3)	
<i>Quebec-CAN</i>	913 (3.3)	532 (2.3)	147 (4.1)	15 (0.5)	520 (2.5)	102 ⁵ (3.0)	14 (0.4)	

†Not applicable.

#Rounds to zero.

!Interpret data with caution. The coefficient of variation (CV) for this estimate is between 30 and 50 percent.

‡Reporting standards not met. Either data are available for less than 50 percent of the students or the coefficient of variation (CV) is 50 percent or greater.

¹Most of the education systems represent complete countries, but some represent subnational entities such as U.S. states, Canadian provinces, and England (which is part of the United Kingdom). The name of each subnational entity appears in italics and includes as a suffix the three-letter International Organization for Standardization (ISO) abbreviation for its complete country. Examples include *Florida-USA*, *Ontario-CAN*, and *England-GBR*.

²Trends in International Mathematics and Science Study (TIMSS) scores are reported on a scale from 0 to 1,000, with the scale average set at 500 and the standard deviation set at 100.

³General/integrated science instructional time is shown for the 27 participating countries that teach science as a general or integrated subject at the eighth grade. For the 15 participating countries that teach the sciences as separate subjects (biology, chemistry, etc.) at the eighth grade, total instructional time across science subjects is shown.

⁴The TIMSS average includes only education systems that are members of the International Association for the Evaluation of Educational Achievement (IAE), which develops and implements TIMSS at the international level. "Benchmarking" education systems are not members of the IEA and are therefore not included in the average.

⁵Data are available for at least 70 percent but less than 85 percent of students.

⁶Data are available for at least 50 percent but less than 70 percent of students.

⁷The TIMSS & PIRLS International Study Center has reservations about the reliability of the average achievement score because the percentage of students with achievement too low for estimation exceeds 15 percent, though it is less than 25 percent.

⁸Nearly satisfied guidelines for sample participation rate after replacement schools were included.

⁹National Target Population does not include all of the International Target Population defined by TIMSS.

¹⁰Exclusion rates for Georgia are slightly underestimated as some conflict zones were not covered and no official statistics were available.

¹¹The TIMSS & PIRLS International Study Center has reservations about the reliability of the average achievement score because the percentage of students with achievement too low for estimation exceeds 25 percent.

¹²National Defined Population covers less than 90 percent of National Target Population (but at least 77 percent).

¹³National Defined Population covers 90 to 95 percent of National Target Population.

¹⁴Data are for 2007 and are from *TIMSS 2007 International Results in Science*. Met guidelines for sample participation rates only after replacement schools were included. Data are available for at least 50 percent but less than 70 percent of students.

¹⁵All U.S. state data are based on public school students only.

NOTE: Countries were required to sample students in the grade that corresponded to the end of 8 years of formal schooling, providing that the mean age at the time of testing was at least 13.5 years. Instructional times shown in this table are actual or implemented times (as opposed to intended times prescribed by the curriculum). Principals reported total instructional hours per day and school days per year. Total instructional hours per year were calculated by multiplying the number of school days per year by the number of instructional hours per day. Teachers reported instructional hours per week in mathematics and science. Instructional hours per year in mathematics and science were calculated by dividing weekly instructional hours by the number of school days per week and then multiplying by the number of school days per year.

SOURCE: International Association for the Evaluation of Educational Achievement (IEA), Trends in International Mathematics and Science Study (TIMSS), 2011; *TIMSS 2011 International Results in Mathematics*, by Ina V.S. Mullis et al.; and *TIMSS 2011 International Results in Science*, by Michael O. Martin et al. (This table was prepared December 2012.)

Table 602.40. Average reading literacy, mathematics literacy, and science literacy scores of 15-year-old students, by sex and country or other education system: 2009 and 2012

[Standard errors appear in parentheses]

Country or other education system	Reading literacy				Mathematics literacy				Science literacy			
	2009	2012			2009	2012			2009	2012		
		Total	Male	Female		Total	Male	Female		Total	Male	Female
1	2	3	4	5	6	7	8	9	10	11	12	13
OECD average¹	493 (0.5)	496 (0.5)	478 (0.6)	515 (0.5)	496 (0.5)	494 (0.5)	499 (0.6)	489 (0.5)	501 (0.5)	501 (0.5)	502 (0.6)	500 (0.5)
Australia	515 (2.3)	512 (1.6)	495 (2.3)	530 (2.0)	514 (2.5)	504 (1.6)	510 (2.4)	498 (2.0)	527 (2.5)	521 (1.8)	524 (2.5)	519 (2.1)
Austria	470 (2.9)	490 (2.8)	471 (4.0)	508 (3.4)	496 (2.7)	506 (2.7)	517 (3.9)	494 (3.3)	494 (3.2)	506 (2.7)	510 (3.9)	501 (3.4)
Belgium	506 (2.3)	509 (2.3)	493 (3.0)	525 (2.7)	515 (2.3)	515 (2.1)	520 (2.9)	509 (2.6)	507 (2.5)	505 (2.2)	507 (3.0)	503 (2.6)
Canada	524 (1.5)	523 (1.9)	506 (2.3)	541 (2.1)	527 (1.6)	518 (1.8)	523 (2.1)	513 (2.1)	529 (1.6)	525 (1.9)	527 (2.4)	524 (2.0)
Chile	449 (3.1)	441 (2.9)	430 (3.8)	452 (2.9)	421 (3.1)	423 (3.1)	436 (3.8)	411 (3.1)	447 (2.9)	445 (2.9)	448 (3.7)	442 (2.9)
Czech Republic	478 (2.9)	493 (2.9)	474 (3.3)	513 (3.4)	493 (2.8)	499 (2.9)	505 (3.7)	493 (3.6)	500 (3.0)	508 (3.0)	509 (3.7)	508 (3.5)
Denmark	495 (2.1)	496 (2.6)	481 (3.3)	512 (2.6)	503 (2.6)	500 (2.3)	507 (2.9)	493 (2.3)	499 (2.5)	498 (2.7)	504 (3.5)	493 (2.5)
Estonia	501 (2.6)	516 (2.0)	494 (2.4)	538 (2.3)	512 (2.6)	521 (2.0)	523 (2.6)	518 (2.2)	528 (2.7)	541 (1.9)	540 (2.5)	543 (2.3)
Finland	536 (2.3)	524 (2.4)	494 (3.1)	556 (2.4)	541 (2.2)	519 (1.9)	517 (2.6)	520 (2.2)	554 (2.3)	545 (2.2)	537 (3.0)	554 (2.3)
France	496 (3.4)	505 (2.8)	483 (3.8)	527 (3.0)	497 (3.1)	495 (2.5)	499 (3.4)	491 (2.5)	498 (3.6)	499 (2.6)	498 (3.8)	500 (2.4)
Germany	497 (2.7)	508 (2.8)	486 (2.9)	530 (3.1)	513 (2.9)	514 (2.9)	520 (3.0)	507 (3.4)	520 (2.8)	524 (3.0)	524 (3.1)	524 (3.5)
Greece	483 (4.3)	477 (3.3)	452 (4.1)	502 (3.1)	466 (3.9)	453 (2.5)	457 (3.3)	449 (2.6)	470 (4.0)	467 (3.1)	460 (3.8)	473 (3.0)
Hungary	494 (3.2)	488 (3.2)	468 (3.9)	508 (3.3)	490 (3.5)	477 (3.2)	482 (3.7)	473 (3.6)	503 (3.1)	494 (2.9)	496 (3.4)	493 (3.3)
Iceland	500 (1.4)	483 (1.8)	457 (2.4)	508 (2.5)	507 (1.4)	493 (1.7)	490 (2.3)	496 (2.3)	496 (1.4)	478 (2.1)	477 (2.7)	480 (2.9)
Ireland	496 (3.0)	523 (2.6)	509 (3.5)	538 (3.0)	487 (2.5)	501 (2.2)	509 (3.3)	494 (2.6)	508 (3.3)	522 (2.5)	524 (3.4)	520 (3.1)
Israel	474 (3.6)	486 (5.0)	463 (8.2)	507 (3.9)	447 (3.3)	466 (4.7)	472 (7.8)	461 (3.5)	455 (3.1)	470 (5.0)	470 (7.9)	470 (4.0)
Italy	486 (1.6)	490 (2.0)	471 (2.5)	510 (2.3)	483 (1.9)	485 (2.0)	494 (2.4)	476 (2.2)	489 (1.8)	494 (1.9)	495 (2.2)	492 (2.4)
Japan	520 (3.5)	538 (3.7)	527 (4.7)	551 (3.6)	529 (3.3)	536 (3.6)	545 (4.6)	527 (3.6)	539 (3.4)	547 (3.6)	552 (4.7)	541 (3.5)
Korea, Republic of	539 (3.5)	536 (3.9)	525 (5.0)	548 (4.5)	546 (4.0)	554 (4.6)	562 (5.8)	544 (5.1)	538 (3.4)	538 (3.7)	539 (4.7)	536 (4.2)
Luxembourg	472 (1.3)	488 (1.5)	473 (1.9)	503 (1.8)	489 (1.2)	490 (1.1)	502 (1.5)	477 (1.4)	484 (1.2)	491 (1.3)	499 (1.7)	483 (1.7)
Mexico	425 (2.0)	424 (1.5)	411 (1.7)	435 (1.6)	419 (1.8)	413 (1.4)	420 (1.6)	406 (1.4)	416 (1.8)	415 (1.3)	418 (1.5)	412 (1.3)
Netherlands	508 (5.1)	511 (3.5)	498 (4.0)	525 (3.5)	526 (4.7)	523 (3.5)	528 (3.6)	518 (3.9)	522 (5.4)	522 (3.5)	524 (3.7)	520 (3.9)
New Zealand	521 (2.4)	512 (2.4)	495 (3.3)	530 (3.5)	519 (2.3)	500 (2.2)	507 (3.2)	492 (2.9)	532 (2.6)	516 (2.1)	518 (3.2)	513 (3.3)
Norway	503 (2.6)	504 (3.2)	481 (3.3)	528 (3.9)	498 (2.4)	489 (2.7)	490 (2.8)	488 (3.4)	500 (2.6)	495 (3.1)	493 (3.2)	496 (3.7)
Poland	500 (2.6)	518 (3.1)	497 (3.7)	539 (3.1)	495 (2.8)	518 (3.6)	520 (4.3)	516 (3.8)	508 (2.4)	526 (3.1)	524 (3.7)	527 (3.2)
Portugal	489 (3.1)	488 (3.8)	468 (4.2)	508 (3.7)	487 (2.9)	487 (3.8)	493 (4.1)	481 (3.9)	493 (2.9)	489 (3.7)	488 (4.1)	490 (3.8)
Slovak Republic	477 (2.5)	463 (4.2)	444 (4.6)	483 (5.1)	497 (3.1)	482 (3.4)	486 (4.1)	477 (4.1)	490 (3.0)	471 (3.6)	475 (4.3)	467 (4.2)
Slovenia	483 (1.0)	481 (1.2)	454 (1.7)	510 (1.8)	501 (1.2)	501 (1.2)	503 (2.0)	499 (2.0)	512 (1.1)	514 (1.3)	510 (1.9)	519 (1.9)
Spain	481 (2.0)	488 (1.9)	474 (2.3)	503 (1.9)	483 (2.1)	484 (1.9)	492 (2.4)	476 (2.0)	488 (2.1)	496 (1.8)	500 (2.3)	493 (1.9)
Sweden	497 (2.9)	483 (3.0)	458 (4.0)	509 (2.8)	494 (2.9)	478 (2.3)	477 (3.0)	480 (2.4)	495 (2.7)	485 (3.0)	481 (3.9)	489 (2.8)
Switzerland	501 (2.4)	509 (2.6)	491 (3.1)	527 (2.5)	534 (3.3)	531 (3.0)	537 (3.5)	524 (3.1)	517 (2.8)	515 (2.7)	518 (3.3)	512 (2.7)
Turkey	464 (3.5)	475 (4.2)	453 (4.6)	499 (4.3)	445 (4.4)	448 (4.8)	452 (5.1)	444 (5.7)	454 (3.6)	463 (3.9)	458 (4.5)	469 (4.3)
United Kingdom	494 (2.3)	499 (3.5)	487 (4.5)	512 (3.8)	492 (2.4)	494 (3.3)	500 (4.2)	488 (3.8)	514 (2.5)	514 (3.4)	521 (4.5)	508 (3.7)
United States	500 (3.7)	498 (3.7)	482 (4.1)	513 (3.8)	487 (3.6)	481 (3.6)	484 (3.8)	479 (3.9)	502 (3.6)	497 (3.8)	497 (4.1)	498 (4.0)
Non-OECD education systems												
Albania	385 (4.0)	394 (3.2)	387 (3.8)	401 (3.7)	377 (4.0)	394 (2.0)	394 (2.6)	395 (2.6)	391 (3.9)	397 (2.4)	394 (3.0)	401 (2.9)
Argentina	398 (4.6)	396 (3.7)	377 (4.5)	414 (3.6)	388 (4.1)	388 (3.5)	396 (4.2)	382 (3.4)	401 (4.6)	406 (3.9)	402 (4.5)	409 (4.0)
Brazil	412 (2.7)	410 (2.1)	394 (2.4)	425 (2.2)	386 (2.4)	391 (2.1)	401 (2.2)	383 (2.3)	405 (2.4)	405 (2.1)	406 (2.3)	404 (2.3)
Bulgaria	429 (6.7)	436 (6.0)	403 (6.3)	472 (5.6)	428 (5.9)	439 (4.0)	438 (4.7)	440 (4.2)	439 (5.9)	446 (4.8)	437 (5.6)	457 (4.6)
Chinese Taipei	— (†)	523 (3.0)	507 (4.3)	539 (4.3)	— (†)	560 (3.3)	563 (5.4)	557 (5.7)	— (†)	523 (2.3)	524 (3.9)	523 (4.0)
Colombia	413 (3.7)	403 (3.4)	394 (3.9)	412 (3.8)	381 (3.2)	376 (2.9)	390 (3.4)	364 (3.2)	402 (3.6)	399 (3.1)	408 (3.4)	390 (3.6)
Connecticut-USA ²	— (†)	521 (6.5)	510 (7.1)	532 (6.7)	— (†)	506 (6.2)	513 (6.9)	499 (6.3)	— (†)	521 (5.7)	528 (6.2)	514 (6.1)
Costa Rica	— (†)	441 (3.5)	427 (3.9)	452 (3.5)	— (†)	407 (3.0)	420 (3.6)	396 (3.1)	— (†)	429 (2.9)	436 (3.5)	424 (3.2)
Croatia	476 (2.9)	485 (3.3)	461 (4.1)	509 (3.3)	460 (3.1)	471 (3.5)	477 (4.4)	465 (3.7)	486 (2.8)	491 (3.1)	490 (3.9)	493 (3.3)
Cyprus	— (†)	449 (1.2)	418 (1.9)	481 (1.9)	— (†)	440 (1.1)	440 (1.5)	440 (1.6)	— (†)	438 (1.2)	431 (1.8)	444 (1.7)
Florida-USA ²	— (†)	492 (6.1)	481 (7.0)	503 (5.9)	— (†)	467 (5.8)	474 (6.3)	460 (6.0)	— (†)	485 (6.4)	491 (7.4)	478 (6.2)
Hong Kong-China	533 (2.1)	545 (2.8)	533 (3.8)	558 (3.3)	555 (2.7)	561 (3.2)	568 (4.6)	553 (3.9)	549 (2.8)	555 (2.6)	558 (3.6)	551 (3.1)
Indonesia	402 (3.7)	396 (4.2)	382 (4.8)	410 (4.3)	371 (3.7)	375 (4.0)	377 (4.4)	373 (4.3)	383 (3.8)	382 (3.8)	380 (4.1)	383 (4.1)
Jordan	405 (3.3)	399 (3.6)	361 (5.5)	436 (3.1)	387 (3.7)	386 (3.1)	375 (5.4)	396 (3.1)	415 (3.5)	409 (3.1)	388 (5.4)	430 (2.9)
Kazakhstan	390 (3.1)	393 (2.7)	374 (3.4)	411 (2.6)	405 (3.0)	432 (3.0)	432 (3.4)	432 (3.3)	400 (3.1)	425 (3.0)	420 (3.4)	429 (3.2)
Latvia	484 (3.0)	489 (2.4)	462 (3.3)	516 (2.7)	482 (3.1)	491 (2.8)	489 (3.4)	493 (3.2)	494 (3.1)	502 (2.8)	495 (3.6)	510 (2.8)
Liechtenstein	499 (2.8)	516 (4.1)	504 (6.2)	529 (5.8)	536 (4.1)	535 (4.0)	546 (6.0)	523 (5.8)	520 (3.4)	525 (3.5)	533 (5.8)	516 (5.7)
Lithuania	468 (2.4)	477 (2.5)	450 (2.8)	505 (2.6)	477 (2.6)	479 (2.6)	479 (2.8)	479 (3.0)	491 (2.9)	496 (2.6)	488 (3.0)	503 (2.6)
Macao-China	487 (0.9)	509 (0.9)	492 (1.4)	527 (1.1)	525 (0.9)	538 (1.0)	540 (1.4)	537 (1.3)	511 (1.0)	521 (0.8)	520 (1.3)	521 (1.2)
Malaysia	— (†)	398 (3.3)	377 (3.9)	418 (3.3)	— (†)	421 (3.2)	416 (3.7)	424 (3.7)	— (†)	420 (3.0)	414 (3.8)	425 (3.1)
Montenegro, Republic of	408 (1.7)	422 (1.2)	391 (2.3)	453 (1.5)	403 (2.0)	410 (1.1)	410 (1.6)	410 (1.6)	401 (2.0)	410 (1.1)	402 (1.6)	419 (1.6)
Peru	370 (4.0)	384 (4.3)	373 (4.0)	395 (5.4)	365 (4.0)	368 (3.7)	378 (3.6)	359 (4.8)	369 (3.5)	373 (3.6)	376 (3.5)	370 (4.6)
Massachusetts-USA ²	— (†)	527 (6.1)	511 (6.2)	542 (6.6)	— (†)	514 (6.2)	518 (6.3)	509 (7.1)	— (†)	527 (6.0)	529 (6.1)	526 (6.8)
Qatar	372 (0.8)	388 (0.8)	354 (1.1)	424 (1.2)	368 (0.7)	376 (0.8)	369 (1.1)	385 (0.9)	379 (0.9)	384 (0.7)	367 (1.2)	402 (1.1)
Romania	424 (4.1)	438 (4.0)	417 (4.5)	457 (4.2)	427 (3.4)	445 (3.8)	447 (4.3)	443 (4.0)	428 (3.4)	439 (3.3)	436 (3.7)	441 (3.5)
Russian Federation	459 (3.3)	475 (3.0)	455 (3.5)	495 (3.2)	468 (3.3)	482 (3.0)	481 (3.7)	483 (3.1)	478 (3.3)	486 (2.9)	484 (3.5)	489 (2.9)
Serbia, Republic of	442 (2.4)	446 (3.4)	423 (3.9)	469 (3.8)	442 (2.9)	449 (3.4)	453 (4.1)	443 (3.4)	443 (2.4)	445 (3.4)	443 (4.0)	447 (3.8)
Shanghai-China	556 (2.4)	570 (2.9)	557 (3.3)	581 (2.8)	600 (2.8)	613 (3.3)	616 (4.0)	610 (3.4)	575 (2.3)	580 (3.0)	583 (3.5)	578 (3.1)
Singapore	526 (1.1)	542 (1.4)	527 (1.9)	559 (1.9)	562 (1.4)	573 (1.3)	572 (1.9)	575 (1.8)	542 (1.4)	551 (1.5)	551 (2.1)	552 (1.9)
Thailand	421 (2.6)	441 (3.1)	410 (3.6)	465 (3.3)	419 (3.2)	427 (3.4)	419 (3.6)	433 (4.1)	425 (3.0)	444 (2.9)	433 (3.3)	452 (3.4)
Tunisia	404 (2.9)	404 (4.5)	388 (5.0)	418 (4.4)	371 (3.0)	388 (3.9)	396 (4.3)	381 (4.0)	401 (2.7)	398 (3.5)	399 (3.9)	398 (3.6)
United Arab Emirates	— (†)	442 (2.5)	413 (3.9)	469 (3.2)	— (†)	434 (2.4)	432 (3.8)	436 (3.0)	— (†)	448 (2.8)	434 (4.1)	462 (3.7)
Uruguay	426 (2.6)	411 (3.2)	392 (3.9)	428 (3.2)	427 (2.6)	409 (2.8)	415 (3.5)	404 (2.9)	427 (2.6)	416 (2.8)	415 (3.4)	416 (3.1)
Vietnam	— (†)	508 (4.4)	492 (5.0)	523 (4.0)	— (†)	511 (4.8)	517 (5.6)	507 (4.7)	— (†)	528 (4.3)	529 (5.0)	528 (4.1)

—Not available.

†Not applicable.

¹Refers to the mean of the data values for all Organization for Economic Cooperation and Development (OECD) countries, to which each country contributes equally regardless of the absolute size of the student population of each country.²Results are for public school students only.

NOTE: Program for International Student Assessment (PISA) scores are reported on a scale from 0 to 1,000.

SOURCE: Organization for Economic Cooperation and Development (OECD), Program for International Student Assessment (PISA), 2009 and 2012. (This table was prepared July 2014.)

Table 602.50. Average reading literacy scores of 15-year-old students and percentage attaining reading literacy proficiency levels, by country or other education system: 2012
 [Standard errors appear in parentheses]

Country or other education system	Average reading literacy score	Percentage attaining reading literacy proficiency levels ¹											
		Below level 2								At or above level 5			
		Total below level 2	Below level 1b	At level 1b		At level 1a		At level 2	At level 3	At level 4	Total at or above level 5	At level 5	At level 6
1	2	3	4	5	6	7	8	9	10	11	12		
OECD average²	496 (0.5)	18.0 (0.18)	1.3 (0.05)	4.4 (0.08)	12.3 (0.13)	23.5 (0.16)	29.1 (0.17)	21.0 (0.16)	8.4 (0.12)	7.3 (0.10)	1.1 (0.04)		
Australia.....	512 (1.6)	14.2 (0.46)	0.9 (0.11)	3.1 (0.21)	10.2 (0.42)	21.6 (0.47)	29.1 (0.53)	23.3 (0.51)	11.7 (0.54)	9.8 (0.46)	1.9 (0.19)		
Austria.....	490 (2.8)	19.5 (1.07)	0.8 (0.24)	4.8 (0.64)	13.8 (0.84)	24.2 (0.89)	29.6 (0.92)	21.2 (0.94)	5.5 (0.61)	5.2 (0.59)	0.3 (0.10)		
Belgium.....	509 (2.3)	16.2 (0.77)	1.6 (0.31)	4.1 (0.40)	10.4 (0.55)	20.4 (0.62)	27.3 (0.70)	24.4 (0.71)	12.3 (0.55)	10.4 (0.54)	1.4 (0.17)		
Canada.....	523 (1.9)	10.9 (0.45)	0.5 (0.09)	2.4 (0.19)	8.0 (0.36)	19.4 (0.55)	31.0 (0.72)	25.8 (0.59)	12.9 (0.62)	10.8 (0.53)	2.1 (0.22)		
Chile.....	441 (2.9)	33.0 (1.67)	1.0 (0.19)	8.1 (0.79)	23.9 (1.08)	35.1 (1.08)	24.3 (1.06)	6.9 (0.62)	0.6 (0.10)	0.6 (0.11)	‡ (†)		
Czech Republic.....	493 (2.9)	16.9 (1.21)	0.6 ! (0.27)	3.5 (0.56)	12.7 (0.94)	26.4 (1.30)	31.3 (1.23)	19.4 (1.13)	6.1 (0.55)	5.3 (0.49)	0.8 (0.16)		
Denmark.....	496 (2.6)	14.6 (1.07)	0.8 ! (0.30)	3.1 (0.39)	10.7 (0.77)	25.8 (0.92)	33.6 (0.85)	20.5 (0.86)	5.4 (0.62)	5.1 (0.58)	0.4 ! (0.12)		
Estonia.....	516 (2.0)	9.1 (0.65)	‡ (†)	1.3 (0.28)	7.7 (0.61)	22.7 (0.94)	35.0 (1.06)	24.9 (1.08)	8.3 (0.72)	7.5 (0.71)	0.9 (0.18)		
Finland.....	524 (2.4)	11.3 (0.71)	0.7 (0.16)	2.4 (0.38)	8.2 (0.57)	19.1 (0.81)	29.3 (0.70)	26.8 (0.84)	13.5 (0.64)	11.3 (0.60)	2.2 (0.26)		
France.....	505 (2.8)	18.9 (0.98)	2.1 (0.40)	4.9 (0.43)	11.9 (0.70)	18.9 (0.85)	26.3 (0.84)	23.0 (0.67)	12.9 (0.85)	10.6 (0.62)	2.3 (0.41)		
Germany.....	508 (2.8)	14.5 (0.91)	0.5 ! (0.18)	3.3 (0.40)	10.7 (0.67)	22.1 (0.93)	29.9 (0.86)	24.6 (0.88)	8.9 (0.70)	8.3 (0.64)	0.7 ! (0.23)		
Greece.....	477 (3.3)	22.6 (1.24)	2.6 (0.40)	5.9 (0.60)	14.2 (0.83)	25.1 (1.06)	30.0 (1.02)	17.2 (1.19)	5.1 (0.61)	4.6 (0.59)	0.5 (0.13)		
Hungary.....	488 (3.2)	19.7 (1.22)	0.7 ! (0.24)	5.2 (0.64)	13.8 (0.88)	24.3 (1.17)	29.9 (1.00)	20.4 (1.05)	5.6 (0.75)	5.3 (0.68)	0.4 ! (0.13)		
Iceland.....	483 (1.8)	21.0 (0.72)	2.3 (0.33)	5.4 (0.47)	13.3 (0.63)	24.7 (0.92)	29.9 (1.09)	18.6 (1.12)	5.8 (0.51)	5.2 (0.41)	0.6 ! (0.21)		
Ireland.....	523 (2.6)	9.6 (0.88)	0.3 ! (0.13)	1.9 (0.35)	7.5 (0.69)	19.6 (1.19)	33.4 (1.17)	26.0 (0.90)	11.4 (0.65)	10.1 (0.67)	1.3 (0.35)		
Israel.....	486 (5.0)	23.6 (1.64)	3.8 (0.59)	6.9 (0.74)	12.9 (0.96)	20.8 (0.87)	25.3 (0.81)	20.6 (1.03)	9.6 (0.84)	8.1 (0.77)	1.5 (0.30)		
Italy.....	490 (2.0)	19.5 (0.67)	1.6 (0.15)	5.2 (0.29)	12.7 (0.48)	23.7 (0.57)	29.7 (0.53)	20.5 (0.62)	6.7 (0.35)	6.1 (0.33)	0.6 (0.07)		
Japan.....	538 (3.7)	9.8 (0.92)	0.6 (0.16)	2.4 (0.37)	6.7 (0.67)	16.6 (0.89)	26.7 (0.98)	28.4 (1.08)	18.5 (1.27)	14.6 (0.99)	3.9 (0.59)		
Korea, Republic of.....	536 (3.9)	7.6 (0.89)	0.4 (0.13)	1.7 (0.39)	5.5 (0.60)	16.4 (0.94)	30.8 (1.00)	31.0 (1.06)	14.1 (1.24)	12.6 (1.05)	1.6 (0.32)		
Luxembourg.....	488 (1.5)	22.2 (0.74)	2.0 (0.21)	6.3 (0.33)	13.8 (0.81)	23.4 (0.71)	25.8 (0.64)	19.7 (0.64)	8.9 (0.39)	7.5 (0.35)	1.4 (0.20)		
Mexico.....	424 (1.5)	41.1 (0.90)	2.6 (0.22)	11.0 (0.53)	27.5 (0.70)	34.5 (0.62)	19.6 (0.54)	4.5 (0.25)	0.4 (0.09)	0.4 (0.08)	‡ (†)		
Netherlands.....	511 (3.5)	14.0 (1.23)	‡ (†)	2.8 (0.49)	10.3 (0.93)	21.0 (1.27)	29.2 (1.32)	26.1 (1.36)	9.8 (0.82)	9.0 (0.72)	0.8 (0.19)		
New Zealand.....	512 (2.4)	16.3 (0.83)	1.3 (0.28)	4.0 (0.46)	11.0 (0.67)	20.8 (0.76)	26.3 (1.06)	22.7 (1.06)	14.0 (0.77)	10.9 (0.62)	3.0 (0.37)		
Norway.....	504 (3.2)	16.2 (1.03)	1.7 (0.31)	3.7 (0.36)	10.8 (0.69)	21.9 (1.03)	29.4 (1.35)	22.3 (1.21)	10.2 (0.74)	8.5 (0.61)	1.7 (0.31)		
Poland.....	518 (3.1)	10.6 (0.80)	0.3 ! (0.11)	2.1 (0.35)	8.1 (0.74)	21.4 (0.90)	32.0 (0.89)	26.0 (0.96)	10.0 (0.93)	8.6 (0.76)	1.4 (0.37)		
Portugal.....	488 (3.8)	18.8 (1.42)	1.3 (0.30)	5.1 (0.53)	12.3 (0.98)	25.5 (1.16)	30.2 (1.46)	19.7 (1.07)	5.8 (0.61)	5.3 (0.57)	0.5 ! (0.15)		
Slovak Republic.....	463 (4.2)	28.2 (1.78)	4.1 (0.77)	7.9 (0.80)	16.2 (1.06)	25.0 (1.08)	26.8 (1.38)	15.7 (0.96)	4.4 (0.68)	4.1 (0.60)	‡ (†)		
Slovenia.....	481 (1.2)	21.1 (0.68)	1.2 (0.14)	4.9 (0.37)	15.0 (0.71)	27.2 (0.77)	28.4 (0.94)	18.2 (0.63)	5.0 (0.43)	4.7 (0.45)	0.3 ! (0.12)		
Spain.....	488 (1.9)	18.3 (0.76)	1.3 (0.17)	4.4 (0.38)	12.6 (0.47)	25.8 (0.81)	31.2 (0.68)	19.2 (0.62)	5.5 (0.30)	5.0 (0.30)	0.5 (0.10)		
Sweden.....	483 (3.0)	22.7 (1.15)	2.9 (0.39)	6.0 (0.64)	13.9 (0.72)	23.5 (0.88)	27.3 (0.73)	18.6 (0.93)	7.9 (0.64)	6.7 (0.53)	1.2 (0.20)		
Switzerland.....	509 (2.6)	13.7 (0.76)	0.5 (0.14)	2.9 (0.34)	10.3 (0.59)	21.9 (0.86)	31.5 (0.71)	23.8 (0.84)	9.1 (0.68)	8.2 (0.60)	1.0 (0.25)		
Turkey.....	475 (4.2)	21.6 (1.43)	0.6 (0.15)	4.5 (0.57)	16.6 (1.07)	30.8 (1.39)	28.7 (1.34)	14.5 (1.39)	4.3 (0.85)	4.1 (0.79)	0.3 ! (0.13)		
United Kingdom.....	499 (3.5)	16.6 (1.30)	1.5 (0.27)	4.0 (0.54)	11.2 (0.79)	23.5 (1.01)	29.9 (1.08)	21.3 (1.14)	8.8 (0.74)	7.5 (0.59)	1.3 (0.24)		
United States.....	498 (3.7)	16.6 (1.26)	0.8 ! (0.24)	3.6 (0.49)	12.3 (0.89)	24.9 (0.99)	30.5 (0.88)	20.1 (1.08)	7.9 (0.67)	6.9 (0.59)	1.0 (0.22)		

See notes at end of table.

Table 602.50. Average reading literacy scores of 15-year-old students and percentage attaining reading literacy proficiency levels, by country or other education system: 2012—Continued
[Standard errors appear in parentheses]

Country or other education system	Average reading literacy score	Percentage attaining reading literacy proficiency levels ¹									
		Below level 2				At level 2	At level 3	At level 4	At or above level 5		
		Total below level 2	Below level 1b	At level 1b	At level 1a				Total at or above level 5	At level 5	At level 6
1	2	3	4	5	6	7	8	9	10	11	12
Non-OECD education systems											
Albania.....	394 (3.2)	52.3 (1.28)	12.0 (0.84)	15.9 (1.00)	24.4 (1.23)	24.7 (1.01)	15.9 (0.73)	5.9 (0.61)	1.2 (0.25)	1.1 (0.24)	‡ (†)
Argentina.....	396 (3.7)	53.6 (1.73)	8.1 (0.80)	17.7 (1.20)	27.7 (1.34)	27.3 (1.12)	14.6 (0.91)	4.0 (0.57)	0.5 (0.14)	0.5 ! (0.15)	‡ (†)
Brazil.....	410 (2.1)	49.2 (1.13)	4.0 (0.36)	14.8 (0.64)	30.4 (0.79)	30.1 (0.77)	15.8 (0.63)	4.4 (0.37)	0.5 (0.12)	0.5 (0.12)	‡ (†)
Bulgaria.....	436 (6.0)	39.4 (2.21)	8.0 (1.07)	12.8 (1.15)	18.6 (1.10)	22.2 (1.16)	21.4 (1.10)	12.7 (1.03)	4.3 (0.64)	3.8 (0.56)	0.5 ! (0.18)
Chinese Taipei.....	523 (3.0)	11.5 (0.87)	0.6 (0.15)	2.5 (0.32)	8.4 (0.65)	18.1 (0.83)	29.9 (0.92)	28.7 (1.01)	11.8 (0.84)	10.4 (0.73)	1.4 (0.32)
Colombia.....	403 (3.4)	51.4 (1.78)	5.0 (0.76)	15.4 (0.98)	31.0 (1.29)	30.5 (1.22)	14.5 (0.91)	3.2 (0.50)	0.3 ! (0.13)	0.3 ! (0.12)	‡ (†)
Connecticut-USA ³	521 (6.5)	13.2 (1.76)	‡ (†)	3.2 (0.87)	9.7 (1.26)	19.6 (1.49)	28.2 (1.32)	24.4 (1.83)	14.5 (1.68)	11.7 (1.38)	2.9 (0.54)
Costa Rica.....	441 (3.5)	32.4 (1.81)	0.8 ! (0.24)	7.3 (1.02)	24.3 (1.25)	38.1 (1.40)	22.9 (1.42)	6.0 (0.78)	0.6 ! (0.19)	0.6 ! (0.19)	‡ (†)
Croatia.....	485 (3.3)	18.7 (1.29)	0.7 ! (0.25)	4.0 (0.59)	13.9 (0.97)	27.8 (1.07)	31.2 (1.24)	17.8 (1.09)	4.4 (0.69)	4.2 (0.66)	0.2 ! (0.11)
Cyprus.....	449 (1.2)	32.8 (0.67)	6.1 (0.32)	9.7 (0.44)	17.0 (0.61)	25.1 (0.78)	24.9 (0.75)	13.2 (0.64)	4.0 (0.32)	3.5 (0.34)	0.5 (0.12)
Florida-USA ³	492 (6.1)	17.5 (2.00)	0.7 ! (0.31)	3.6 (0.75)	13.2 (1.46)	25.8 (1.56)	30.9 (1.50)	20.4 (2.06)	5.5 (1.02)	4.9 (1.00)	‡ (†)
Hong Kong-China.....	545 (2.8)	6.8 (0.72)	0.2 ! (0.09)	1.3 (0.24)	5.3 (0.61)	14.3 (0.79)	29.2 (1.21)	32.9 (1.39)	16.8 (1.16)	14.9 (1.00)	1.9 (0.39)
Indonesia.....	396 (4.2)	55.2 (2.18)	4.1 (0.81)	16.3 (1.28)	34.8 (1.56)	31.6 (1.54)	11.5 (1.28)	1.5 ! (0.53)	‡ (†)	‡ (†)	‡ (†)
Jordan.....	399 (3.6)	50.7 (1.57)	7.5 (0.84)	14.9 (0.79)	28.3 (1.01)	30.8 (1.14)	15.5 (0.83)	2.9 (0.63)	‡ (†)	‡ (†)	‡ (†)
Kazakhstan.....	393 (2.7)	57.1 (1.56)	4.2 (0.47)	17.3 (1.24)	35.6 (1.15)	31.3 (1.12)	10.4 (0.87)	1.2 (0.24)	‡ (†)	‡ (†)	‡ (†)
Latvia.....	489 (2.4)	17.0 (1.14)	0.7 ! (0.24)	3.7 (0.54)	12.6 (0.96)	26.7 (1.31)	33.1 (1.05)	19.1 (0.88)	4.2 (0.55)	3.9 (0.56)	0.3 ! (0.11)
Liechtenstein.....	516 (4.1)	12.4 (1.88)	# (†)	‡ (†)	10.5 (1.85)	22.4 (3.44)	28.6 (4.53)	25.7 (2.44)	10.9 (2.89)	10.4 (2.44)	‡ (†)
Lithuania.....	477 (2.5)	21.2 (1.18)	1.0 (0.19)	4.6 (0.49)	15.6 (1.06)	28.1 (1.13)	31.1 (0.94)	16.3 (0.78)	3.3 (0.37)	3.1 (0.35)	0.2 ! (0.07)
Macao-China.....	509 (0.9)	11.5 (0.42)	0.3 ! (0.11)	2.1 (0.22)	9.0 (0.42)	23.3 (0.58)	34.3 (0.67)	24.0 (0.60)	7.0 (0.41)	6.4 (0.48)	0.6 ! (0.21)
Malaysia.....	398 (3.3)	52.7 (1.71)	5.8 (0.59)	16.4 (1.03)	30.5 (0.99)	31.0 (1.09)	13.6 (1.11)	2.5 (0.45)	‡ (†)	‡ (†)	‡ (†)
Massachusetts-USA ³	527 (6.1)	11.5 (1.37)	‡ (†)	2.3 (0.55)	8.6 (1.19)	18.5 (1.76)	29.8 (1.52)	24.2 (1.82)	16.1 (1.98)	12.9 (1.59)	3.2 (0.86)
Montenegro, Republic of.....	422 (1.2)	43.3 (0.75)	4.4 (0.53)	13.2 (0.62)	25.7 (0.94)	29.2 (0.77)	19.9 (0.76)	6.6 (0.53)	1.0 (0.19)	0.9 (0.19)	‡ (†)
Peru.....	384 (4.3)	59.9 (1.95)	9.8 (0.87)	20.6 (1.11)	29.5 (0.98)	24.9 (1.02)	11.4 (0.96)	3.3 (0.61)	0.5 ! (0.21)	0.5 ! (0.21)	‡ (†)
Qatar.....	388 (0.8)	57.1 (0.42)	13.6 (0.32)	18.9 (0.48)	24.6 (0.44)	21.9 (0.50)	13.5 (0.43)	5.8 (0.21)	1.6 (0.14)	1.4 (0.13)	0.2 (0.05)
Romania.....	438 (4.0)	37.3 (1.87)	2.5 (0.38)	10.3 (0.82)	24.4 (1.28)	30.6 (1.12)	21.8 (1.17)	8.7 (0.88)	1.6 (0.38)	1.5 (0.35)	‡ (†)
Russian Federation.....	475 (3.0)	22.3 (1.29)	1.1 (0.18)	5.2 (0.49)	16.0 (1.03)	29.5 (1.08)	28.3 (1.05)	15.3 (0.93)	4.6 (0.58)	4.2 (0.51)	0.5 (0.12)
Serbia, Republic of.....	446 (3.4)	33.1 (1.66)	2.6 (0.40)	9.3 (0.73)	21.3 (1.09)	30.8 (1.20)	23.3 (1.15)	10.5 (0.81)	2.2 (0.41)	2.0 (0.39)	0.2 ! (0.08)
Shanghai-China.....	570 (2.9)	2.9 (0.39)	‡ (†)	0.3 ! (0.11)	2.5 (0.34)	11.0 (0.85)	25.3 (0.85)	35.7 (1.07)	25.1 (1.19)	21.3 (0.98)	3.8 (0.65)
Singapore.....	542 (1.4)	9.9 (0.42)	0.5 (0.12)	1.9 (0.27)	7.5 (0.41)	16.7 (0.65)	25.4 (0.66)	26.8 (0.79)	21.2 (0.60)	16.2 (0.73)	5.0 (0.43)
Thailand.....	441 (3.1)	33.0 (1.40)	1.2 (0.29)	7.7 (0.77)	24.1 (0.98)	36.0 (1.12)	23.5 (1.13)	6.7 (0.79)	0.8 (0.22)	0.8 (0.21)	‡ (†)
Tunisia.....	404 (4.5)	49.3 (2.24)	6.2 (0.91)	15.5 (1.20)	27.6 (1.31)	31.4 (1.43)	15.6 (1.15)	3.5 (0.69)	‡ (†)	‡ (†)	‡ (†)
United Arab Emirates.....	442 (2.5)	35.5 (1.08)	3.3 (0.34)	10.4 (0.65)	21.8 (0.72)	28.6 (0.72)	24.0 (0.77)	9.7 (0.58)	2.2 (0.29)	2.1 (0.28)	0.2 ! (0.06)
Uruguay.....	411 (3.2)	47.0 (1.42)	6.4 (0.70)	14.7 (0.84)	25.9 (0.88)	28.9 (1.00)	17.4 (0.71)	5.7 (0.62)	0.9 (0.27)	0.9 (0.26)	‡ (†)
Vietnam.....	508 (4.4)	9.4 (1.43)	‡ (†)	1.5 ! (0.48)	7.8 (1.10)	23.7 (1.40)	39.0 (1.47)	23.4 (1.47)	4.5 (0.81)	4.2 (0.71)	0.4 ! (0.16)

†Not applicable.

#Rounds to zero.

Interpret data with caution. The coefficient of variation (CV) for this estimate is between 30 and 50 percent.

‡Reporting standards not met. Either there are too few cases for a reliable estimate or the coefficient of variation (CV) is 50 percent or greater.

¹To reach a particular proficiency level, a student must correctly answer a majority of items at that level. Students were classified into reading literacy levels according to their scores. Exact cut scores are as follows: below level 1b (a score less than or equal to 262.04); level 1b (a score greater than 262.04 and less than or equal to 334.75); level 1a (a score greater than 334.75 and less than or equal to 407.47); level 2 (a score greater than 407.47 and less than or equal to 480.18); level 3 (a score greater than 480.18 and less than

or equal to 552.89); level 4 (a score greater than 552.89 and less than or equal to 625.61); level 5 (a score greater than 625.61 and less than or equal to 698.32); and level 6 (a score greater than 698.32).

²Refers to the mean of the data values for all Organization for Economic Cooperation and Development (OECD) countries, to which each country contributes equally, regardless of the absolute size of the student population of each country.

³Results are for public school students only.

NOTE: Program for International Student Assessment (PISA) scores are reported on a scale from 0 to 1,000. Detail may not sum to totals because of rounding.

SOURCE: Organization for Economic Cooperation and Development (OECD), Program for International Student Assessment (PISA), 2012. (This table was prepared November 2013.)

Table 602.60. Average mathematics literacy scores of 15-year-old students and percentage attaining mathematics literacy proficiency levels, by country or other education system: 2012
 [Standard errors appear in parentheses]

Country or other education system	Average mathematics literacy score	Percentage attaining mathematics literacy proficiency levels ¹											
		Below level 2						At or above level 5					
		Total below level 2	Below level 1		At level 1		At level 2	At level 3	At level 4	Total at or above level 5	At level 5		At level 6
1	2	3	4	5	6	7	8	9	10	11			
OECD average²	494 (0.5)	23.0 (0.17)	8.0 (0.12)	15.0 (0.13)	22.5 (0.15)	23.7 (0.15)	18.1 (0.14)	12.7 (0.14)	9.3 (0.11)	3.3 (0.08)			
Australia.....	504 (1.6)	19.7 (0.60)	6.1 (0.35)	13.5 (0.57)	21.9 (0.76)	24.6 (0.65)	19.0 (0.50)	14.8 (0.64)	10.5 (0.43)	4.3 (0.36)			
Austria.....	506 (2.7)	18.7 (0.96)	5.7 (0.59)	13.0 (0.74)	21.9 (0.87)	24.2 (0.84)	21.0 (0.90)	14.3 (0.95)	11.0 (0.75)	3.3 (0.41)			
Belgium.....	515 (2.1)	19.0 (0.82)	7.0 (0.58)	12.0 (0.52)	18.4 (0.58)	22.4 (0.70)	20.6 (0.63)	19.5 (0.76)	13.4 (0.73)	6.1 (0.43)			
Canada.....	518 (1.8)	13.8 (0.55)	3.6 (0.29)	10.2 (0.45)	21.0 (0.64)	26.4 (0.63)	22.4 (0.49)	16.4 (0.64)	12.1 (0.47)	4.3 (0.29)			
Chile.....	423 (3.1)	51.5 (1.67)	22.0 (1.35)	29.5 (1.01)	25.3 (1.00)	15.4 (0.78)	6.2 (0.60)	1.6 (0.22)	1.5 (0.21)	0.1 ! (0.04)			
Czech Republic.....	499 (2.9)	21.0 (1.20)	6.8 (0.76)	14.2 (0.97)	21.7 (0.83)	24.8 (1.07)	19.7 (0.90)	12.9 (0.82)	9.6 (0.66)	3.2 (0.31)			
Denmark.....	500 (2.3)	16.8 (0.98)	4.4 (0.49)	12.5 (0.70)	24.4 (0.97)	29.0 (1.03)	19.8 (0.69)	10.0 (0.66)	8.3 (0.57)	1.7 (0.32)			
Estonia.....	521 (2.0)	10.5 (0.63)	2.0 (0.26)	8.6 (0.57)	22.0 (0.84)	29.4 (0.79)	23.4 (0.91)	14.6 (0.76)	11.0 (0.67)	3.6 (0.37)			
Finland.....	519 (1.9)	12.3 (0.67)	3.3 (0.39)	8.9 (0.49)	20.5 (0.66)	28.8 (0.78)	23.2 (0.78)	15.3 (0.74)	11.7 (0.60)	3.5 (0.30)			
France.....	495 (2.5)	22.4 (0.87)	8.7 (0.72)	13.6 (0.76)	22.1 (0.95)	23.8 (0.82)	18.9 (0.79)	12.9 (0.77)	9.8 (0.55)	3.1 (0.40)			
Germany.....	514 (2.9)	17.7 (1.03)	5.5 (0.65)	12.2 (0.81)	19.4 (0.81)	23.7 (0.79)	21.7 (0.73)	17.5 (0.94)	12.8 (0.71)	4.7 (0.49)			
Greece.....	453 (2.5)	35.7 (1.34)	14.5 (0.92)	21.2 (0.85)	27.2 (1.02)	22.1 (0.86)	11.2 (0.79)	3.9 (0.43)	3.3 (0.43)	0.6 (0.15)			
Hungary.....	477 (3.2)	28.1 (1.31)	9.9 (0.77)	18.2 (1.04)	25.3 (1.21)	23.0 (1.02)	14.4 (0.86)	9.3 (1.12)	7.1 (0.73)	2.1 (0.51)			
Iceland.....	493 (1.7)	21.5 (0.74)	7.5 (0.54)	14.0 (0.83)	23.6 (0.89)	25.7 (0.95)	18.1 (0.79)	11.2 (0.69)	8.9 (0.61)	2.3 (0.35)			
Ireland.....	501 (2.2)	16.9 (0.99)	4.8 (0.55)	12.1 (0.70)	23.9 (0.72)	28.2 (0.87)	20.3 (0.76)	10.7 (0.54)	8.5 (0.51)	2.2 (0.23)			
Israel.....	466 (4.7)	33.5 (1.68)	15.9 (1.23)	17.6 (0.93)	21.6 (0.93)	21.0 (0.87)	14.6 (0.88)	9.4 (0.99)	7.2 (0.74)	2.2 (0.39)			
Italy.....	485 (2.0)	24.7 (0.76)	8.5 (0.39)	16.1 (0.51)	24.1 (0.55)	24.6 (0.62)	16.7 (0.48)	9.9 (0.57)	7.8 (0.44)	2.2 (0.25)			
Japan.....	536 (3.6)	11.1 (0.98)	3.2 (0.49)	7.9 (0.69)	16.9 (0.85)	24.7 (1.00)	23.7 (0.89)	23.7 (1.46)	16.0 (0.89)	7.6 (0.84)			
Korea, Republic of.....	554 (4.6)	9.1 (0.95)	2.7 (0.46)	6.4 (0.62)	14.7 (0.85)	21.4 (0.99)	23.9 (1.23)	30.9 (1.83)	18.8 (0.92)	12.1 (1.26)			
Luxembourg.....	490 (1.1)	24.3 (0.54)	8.8 (0.54)	15.5 (0.54)	22.3 (0.72)	23.6 (0.72)	18.5 (0.58)	11.2 (0.42)	8.6 (0.38)	2.6 (0.25)			
Mexico.....	413 (1.4)	54.7 (0.82)	22.8 (0.68)	31.9 (0.58)	27.8 (0.53)	13.1 (0.41)	3.7 (0.23)	0.6 (0.08)	0.6 (0.07)	‡ (‡)			
Netherlands.....	523 (3.5)	14.8 (1.28)	3.8 (0.57)	11.0 (0.93)	17.9 (1.08)	24.2 (1.19)	23.8 (1.11)	19.3 (1.21)	14.9 (0.99)	4.4 (0.56)			
New Zealand.....	500 (2.2)	22.6 (0.80)	7.5 (0.58)	15.1 (0.66)	21.6 (0.83)	22.7 (0.76)	18.1 (0.84)	15.0 (0.88)	10.5 (0.75)	4.5 (0.40)			
Norway.....	489 (2.7)	22.3 (1.06)	7.2 (0.78)	15.1 (0.88)	24.3 (0.84)	25.7 (1.01)	18.3 (0.96)	9.4 (0.67)	7.3 (0.56)	2.1 (0.30)			
Poland.....	518 (3.6)	14.4 (0.89)	3.3 (0.38)	11.1 (0.77)	22.1 (0.93)	25.5 (0.94)	21.3 (1.12)	16.7 (1.33)	11.7 (0.78)	5.0 (0.80)			
Portugal.....	487 (3.8)	24.9 (1.52)	8.9 (0.79)	16.0 (0.98)	22.8 (0.88)	24.0 (0.84)	17.7 (0.88)	10.6 (0.79)	8.5 (0.73)	2.1 (0.33)			
Slovak Republic.....	482 (3.4)	27.5 (1.28)	11.1 (1.03)	16.4 (0.94)	23.1 (1.10)	22.1 (1.09)	16.4 (1.08)	11.0 (0.94)	7.8 (0.64)	3.1 (0.55)			
Slovenia.....	501 (1.2)	20.1 (0.65)	5.1 (0.48)	15.0 (0.69)	23.6 (0.95)	23.9 (0.96)	18.7 (0.80)	13.7 (0.55)	10.3 (0.64)	3.4 (0.43)			
Spain.....	484 (1.9)	23.6 (0.85)	7.8 (0.50)	15.8 (0.57)	24.9 (0.65)	26.0 (0.59)	17.6 (0.56)	8.0 (0.43)	6.7 (0.42)	1.3 (0.15)			
Sweden.....	478 (2.3)	27.1 (1.12)	9.5 (0.68)	17.5 (0.76)	24.7 (0.92)	23.9 (0.78)	16.3 (0.69)	8.0 (0.52)	6.5 (0.49)	1.6 (0.25)			
Switzerland.....	531 (3.0)	12.4 (0.70)	3.6 (0.35)	8.9 (0.59)	17.8 (1.06)	24.5 (1.02)	23.9 (0.80)	21.4 (1.19)	14.6 (0.78)	6.8 (0.69)			
Turkey.....	448 (4.8)	42.0 (1.93)	15.5 (1.08)	26.5 (1.28)	25.5 (1.16)	16.5 (1.05)	10.1 (1.09)	5.9 (1.13)	4.7 (0.81)	1.2 ! (0.46)			
United Kingdom.....	494 (3.3)	21.8 (1.30)	7.8 (0.77)	14.0 (0.76)	23.2 (0.81)	24.8 (0.85)	18.4 (0.78)	11.8 (0.81)	9.0 (0.63)	2.9 (0.42)			
United States.....	481 (3.6)	25.8 (1.39)	8.0 (0.73)	17.9 (0.98)	26.3 (0.84)	23.3 (0.93)	15.8 (0.91)	8.8 (0.78)	6.6 (0.61)	2.2 (0.34)			

See notes at end of table.

Table 602.60. Average mathematics literacy scores of 15-year-old students and percentage attaining mathematics literacy proficiency levels, by country or other education system: 2012—Continued
[Standard errors appear in parentheses]

Country or other education system	Average mathematics literacy score		Percentage attaining mathematics literacy proficiency levels ¹																	
			Below level 2						At or above level 5											
			Total below level 2		Below level 1		At level 1		At level 2		At level 3		At level 4		Total at or above level 5		At level 5		At level 6	
1	2	3	4	5	6	7	8	9	10	11										
Non-OECD education systems																				
Albania	394	(2.0)	60.7	(0.95)	32.5	(1.03)	28.1	(0.97)	22.9	(0.91)	12.0	(0.92)	3.6	(0.35)	0.8	(0.19)	0.8	(0.20)	‡	(†)
Argentina	388	(3.5)	66.5	(2.03)	34.9	(1.95)	31.6	(1.22)	22.2	(1.36)	9.2	(0.88)	1.8	(0.35)	0.3 !	(0.10)	0.3 !	(0.10)	‡	(†)
Brazil	391	(2.1)	67.1	(1.03)	35.2	(0.93)	31.9	(0.70)	20.4	(0.67)	8.9	(0.47)	2.9	(0.35)	0.8	(0.20)	0.7	(0.19)	‡	(†)
Bulgaria.....	439	(4.0)	43.8	(1.78)	20.0	(1.45)	23.8	(0.95)	24.4	(1.12)	17.9	(0.91)	9.9	(0.83)	4.1	(0.62)	3.4	(0.50)	0.7	(0.19)
Chinese Taipei	560	(3.3)	12.8	(0.84)	4.5	(0.53)	8.3	(0.61)	13.1	(0.61)	17.1	(0.65)	19.7	(0.75)	37.2	(1.24)	19.2	(0.89)	18.0	(1.00)
Colombia.....	376	(2.9)	73.8	(1.43)	41.6	(1.71)	32.2	(1.05)	17.8	(0.90)	6.4	(0.61)	1.6	(0.28)	0.3 !	(0.11)	0.3 !	(0.10)	‡	(†)
Connecticut-USA ³	506	(6.2)	20.6	(2.14)	6.8	(1.18)	13.8	(1.33)	20.0	(1.28)	24.3	(1.36)	18.6	(1.79)	16.4	(1.91)	11.5	(1.46)	4.9	(0.83)
Costa Rica	407	(3.0)	59.9	(1.87)	23.6	(1.68)	36.2	(1.22)	26.8	(1.29)	10.1	(0.99)	2.6	(0.46)	0.6 !	(0.19)	0.5 !	(0.16)	‡	(†)
Croatia	471	(3.5)	29.9	(1.36)	9.5	(0.74)	20.4	(1.02)	26.7	(0.95)	22.9	(1.12)	13.5	(0.80)	7.0	(1.15)	5.4	(0.76)	1.6 !	(0.51)
Cyprus	440	(1.1)	42.0	(0.63)	19.0	(0.58)	23.0	(0.65)	25.5	(0.62)	19.2	(0.58)	9.6	(0.44)	3.7	(0.27)	3.1	(0.25)	0.6 !	(0.20)
Florida-USA ³	467	(5.8)	30.4	(2.65)	9.7	(1.44)	20.6	(1.87)	27.9	(1.42)	23.0	(1.64)	13.0	(1.34)	5.8	(1.18)	4.9	(1.04)	0.9 !	(0.39)
Hong Kong-China	561	(3.2)	8.5	(0.79)	2.6	(0.36)	5.9	(0.61)	12.0	(0.77)	19.7	(0.97)	26.1	(1.09)	33.7	(1.35)	21.4	(0.96)	12.3	(0.95)
Indonesia	375	(4.0)	75.7	(2.05)	42.3	(2.14)	33.4	(1.59)	16.8	(1.12)	5.7	(0.90)	1.5 !	(0.54)	‡	(†)	‡	(†)	‡	(†)
Jordan	386	(3.1)	68.6	(1.50)	36.5	(1.59)	32.1	(0.95)	21.0	(1.04)	8.1	(0.63)	1.8	(0.33)	‡	(†)	‡	(†)	‡	(†)
Kazakhstan	432	(3.0)	45.2	(1.70)	14.5	(0.90)	30.7	(1.40)	31.5	(0.95)	16.9	(1.11)	5.4	(0.79)	0.9 !	(0.29)	0.9 !	(0.27)	‡	(†)
Latvia	491	(2.8)	19.9	(1.13)	4.8	(0.53)	15.1	(0.96)	26.6	(1.29)	27.8	(0.92)	17.6	(0.90)	8.0	(0.78)	6.5	(0.65)	1.5	(0.28)
Liechtenstein.....	535	(4.0)	14.1	(2.02)	3.5 !	(1.31)	10.6	(1.81)	15.2	(2.52)	22.7	(2.81)	23.2	(3.01)	24.8	(2.55)	17.4	(3.17)	7.4	(1.86)
Lithuania.....	479	(2.6)	26.0	(1.18)	8.7	(0.68)	17.3	(0.89)	25.9	(0.80)	24.6	(1.01)	15.4	(0.70)	8.1	(0.60)	6.6	(0.49)	1.4	(0.24)
Macao-China	538	(1.0)	10.8	(0.49)	3.2	(0.29)	7.6	(0.53)	16.4	(0.71)	24.0	(0.69)	24.4	(0.87)	24.3	(0.56)	16.8	(0.63)	7.6	(0.35)
Malaysia.....	421	(3.2)	51.8	(1.68)	23.0	(1.19)	28.8	(1.12)	26.0	(0.95)	14.9	(0.93)	6.0	(0.69)	1.3	(0.30)	1.2	(0.28)	0.1 !	(0.05)
Massachusetts-USA ³	514	(6.2)	17.8	(1.46)	5.3	(0.83)	12.5	(1.17)	20.4	(1.61)	24.3	(1.49)	18.9	(1.18)	18.5	(2.47)	12.7	(1.61)	5.8	(1.11)
Montenegro, Republic of.....	410	(1.1)	56.6	(1.02)	27.5	(0.64)	29.1	(1.14)	24.2	(1.06)	13.1	(0.73)	4.9	(0.48)	1.0	(0.20)	0.9	(0.20)	‡	(†)
Peru	368	(3.7)	74.6	(1.75)	47.0	(1.79)	27.6	(0.88)	16.1	(1.00)	6.7	(0.68)	2.1	(0.38)	0.6 !	(0.21)	0.5 !	(0.20)	‡	(†)
Qatar	376	(0.8)	69.6	(0.46)	47.0	(0.42)	22.6	(0.53)	15.2	(0.39)	8.8	(0.34)	4.5	(0.28)	2.0	(0.21)	1.7	(0.20)	0.3	(0.07)
Romania	445	(3.8)	40.8	(1.93)	14.0	(1.15)	26.8	(1.23)	28.3	(1.09)	19.2	(1.07)	8.4	(0.81)	3.2	(0.61)	2.6	(0.45)	0.6 !	(0.27)
Russian Federation	482	(3.0)	24.0	(1.13)	7.5	(0.70)	16.5	(0.80)	26.6	(0.99)	26.0	(0.97)	15.7	(0.78)	7.8	(0.85)	6.3	(0.64)	1.5	(0.31)
Serbia, Republic of.....	449	(3.4)	38.9	(1.54)	15.5	(1.16)	23.4	(0.93)	26.5	(1.12)	19.5	(1.03)	10.5	(0.69)	4.6	(0.71)	3.5	(0.52)	1.1	(0.31)
Shanghai-China	613	(3.3)	3.8	(0.55)	0.8	(0.21)	2.9	(0.46)	7.5	(0.64)	13.1	(0.77)	20.2	(0.83)	55.4	(1.37)	24.6	(1.04)	30.8	(1.24)
Singapore	573	(1.3)	8.3	(0.48)	2.2	(0.23)	6.1	(0.40)	12.2	(0.68)	17.5	(0.66)	22.0	(0.62)	40.0	(0.71)	21.0	(0.58)	19.0	(0.51)
Thailand	427	(3.4)	49.7	(1.74)	19.1	(1.07)	30.6	(1.20)	27.3	(1.00)	14.5	(1.15)	5.8	(0.74)	2.6	(0.51)	2.0	(0.38)	0.5 !	(0.19)
Tunisia.....	388	(3.9)	67.7	(1.83)	36.5	(1.88)	31.3	(1.09)	21.1	(1.17)	8.0	(0.79)	2.3	(0.68)	0.8 !	(0.37)	0.7 !	(0.32)	‡	(†)
United Arab Emirates.....	434	(2.4)	46.3	(1.22)	20.5	(0.92)	25.8	(0.81)	24.9	(0.69)	16.9	(0.64)	8.5	(0.54)	3.5	(0.29)	2.9	(0.25)	0.5	(0.11)
Uruguay	409	(2.8)	55.8	(1.31)	29.2	(1.20)	26.5	(0.76)	23.0	(0.93)	14.4	(0.87)	5.4	(0.60)	1.4	(0.32)	1.3	(0.28)	‡	(†)
Vietnam.....	511	(4.8)	14.2	(1.75)	3.6	(0.80)	10.6	(1.26)	22.8	(1.28)	28.4	(1.52)	21.3	(1.22)	13.3	(1.47)	9.8	(0.99)	3.5	(0.75)

†Not applicable.

#Rounds to zero.

!Interpret data with caution. The coefficient of variation (CV) for this estimate is between 30 and 50 percent.

‡Reporting standards not met. Either there are too few cases for a reliable estimate or the coefficient of variation (CV) is 50 percent or greater.

¹To reach a particular proficiency level, a student must correctly answer a majority of items at that level. Students were classified into mathematics literacy levels according to their scores. Exact cut scores are as follows: below level 1 (a score less than or equal to 357.77); level 1 (a score greater than 357.77 and less than or equal to 420.07); level 2 (a score greater than 420.07 and less than or equal to 482.38); level 3 (a score greater than 482.38 and less than or equal to 544.68); level 4 (a score greater than 544.68 and

less than or equal to 606.99); level 5 (a score greater than 606.99 and less than or equal to 669.30); and level 6 (a score greater than 669.30).

²Refers to the mean of the data values for all Organization for Economic Cooperation and Development (OECD) countries, to which each country contributes equally, regardless of the absolute size of the student population of each country.³Results are for public school students only.

NOTE: Program for International Student Assessment (PISA) scores are reported on a scale from 0 to 1,000. Detail may not sum to totals because of rounding.

SOURCE: Organization for Economic Cooperation and Development (OECD), Program for International Student Assessment (PISA), 2012. (This table was prepared November 2013.)

Table 602.70. Average science literacy scores of 15-year-old students and percentage attaining science literacy proficiency levels, by country or other education system: 2012
 [Standard errors appear in parentheses]

Country or other education system	Average science literacy score	Percentage attaining science literacy proficiency levels ¹											
		Below level 2						At or above level 5					
		Total below level 2		Below level 1		At level 1		At level 2		At level 3		At level 4	
		Total at or above level 5		At level 5		At level 6							
1	2	3	4	5	6	7	8	9	10	11			
OECD average²	501 (0.5)	17.8 (0.17)	4.8 (0.09)	13.0 (0.14)	24.5 (0.16)	28.8 (0.17)	20.5 (0.15)	8.4 (0.11)	7.2 (0.10)	1.1 (0.04)			
Australia.....	521 (1.8)	13.6 (0.48)	3.4 (0.25)	10.2 (0.41)	21.5 (0.47)	28.5 (0.68)	22.8 (0.63)	13.6 (0.55)	10.9 (0.47)	2.6 (0.25)			
Austria.....	506 (2.7)	15.8 (1.00)	3.6 (0.54)	12.2 (0.92)	24.3 (1.05)	30.1 (0.85)	21.9 (0.81)	7.9 (0.70)	7.0 (0.62)	0.8 (0.20)			
Belgium.....	505 (2.2)	17.7 (0.86)	5.9 (0.53)	11.8 (0.58)	21.5 (0.63)	28.7 (0.71)	23.0 (0.66)	9.1 (0.43)	8.1 (0.42)	0.9 (0.16)			
Canada.....	525 (1.9)	10.4 (0.47)	2.4 (0.24)	8.0 (0.38)	21.0 (0.65)	32.0 (0.54)	25.3 (0.58)	11.3 (0.55)	9.5 (0.47)	1.8 (0.20)			
Chile.....	445 (2.9)	34.5 (1.58)	8.1 (0.80)	26.3 (1.11)	34.6 (1.06)	22.4 (0.96)	7.5 (0.60)	1.0 (0.15)	1.0 (0.15)	# (†)			
Czech Republic.....	508 (3.0)	13.8 (1.13)	3.3 (0.62)	10.5 (1.03)	24.7 (0.99)	31.7 (1.23)	22.2 (0.96)	7.6 (0.58)	6.7 (0.53)	0.9 (0.18)			
Denmark.....	498 (2.7)	16.7 (0.97)	4.7 (0.55)	12.0 (0.69)	25.7 (0.80)	31.3 (0.90)	19.6 (0.79)	6.8 (0.70)	6.1 (0.67)	0.7 (0.17)			
Estonia.....	541 (1.9)	5.0 (0.45)	0.5 (0.14)	4.5 (0.43)	19.0 (0.87)	34.5 (0.87)	28.7 (0.96)	12.8 (0.73)	11.1 (0.66)	1.7 (0.25)			
Finland.....	545 (2.2)	7.7 (0.58)	1.8 (0.28)	5.9 (0.48)	16.8 (0.69)	29.6 (0.77)	28.8 (0.73)	17.1 (0.66)	13.9 (0.62)	3.2 (0.38)			
France.....	499 (2.6)	18.7 (1.01)	6.1 (0.67)	12.6 (0.71)	22.9 (1.08)	29.2 (1.12)	21.3 (0.87)	7.9 (0.77)	6.9 (0.68)	1.0 (0.21)			
Germany.....	524 (3.0)	12.2 (0.90)	2.9 (0.46)	9.3 (0.73)	20.5 (0.82)	28.9 (0.89)	26.2 (1.05)	12.2 (0.95)	10.6 (0.80)	1.6 (0.28)			
Greece.....	467 (3.1)	25.5 (1.47)	7.4 (0.70)	18.1 (1.14)	31.0 (1.10)	28.8 (1.02)	12.2 (0.81)	2.5 (0.40)	2.3 (0.40)	‡ (†)			
Hungary.....	494 (2.9)	18.0 (1.14)	4.1 (0.61)	14.0 (1.04)	26.4 (1.08)	30.9 (1.16)	18.7 (0.98)	5.9 (0.75)	5.5 (0.73)	0.5 ! (0.18)			
Iceland.....	478 (2.1)	24.0 (0.78)	8.0 (0.56)	16.0 (0.72)	27.5 (0.87)	27.2 (0.86)	16.2 (0.74)	5.2 (0.61)	4.6 (0.60)	0.6 (0.17)			
Ireland.....	522 (2.5)	11.1 (0.88)	2.6 (0.40)	8.5 (0.76)	22.0 (1.15)	31.1 (1.03)	25.0 (0.94)	10.7 (0.58)	9.3 (0.63)	1.5 (0.25)			
Israel.....	470 (5.0)	28.9 (1.67)	11.2 (1.08)	17.7 (0.93)	24.8 (0.93)	24.4 (1.19)	16.1 (1.12)	5.8 (0.65)	5.2 (0.58)	0.6 ! (0.22)			
Italy.....	494 (1.9)	18.7 (0.68)	4.9 (0.35)	13.8 (0.52)	26.0 (0.58)	30.1 (0.66)	19.1 (0.59)	6.1 (0.41)	5.5 (0.37)	0.6 (0.08)			
Japan.....	547 (3.6)	8.5 (0.88)	2.0 (0.39)	6.4 (0.61)	16.3 (0.79)	27.5 (0.92)	29.5 (1.06)	18.2 (1.21)	14.8 (0.93)	3.4 (0.49)			
Korea, Republic of.....	538 (3.7)	6.6 (0.77)	1.2 (0.25)	5.5 (0.60)	18.0 (1.02)	33.6 (1.11)	30.1 (1.24)	11.7 (1.13)	10.6 (0.93)	1.1 ! (0.39)			
Luxembourg.....	491 (1.3)	22.2 (0.63)	7.2 (0.42)	15.1 (0.67)	24.2 (0.63)	26.2 (0.60)	19.2 (0.53)	8.2 (0.54)	7.0 (0.49)	1.2 (0.17)			
Mexico.....	415 (1.3)	47.0 (0.81)	12.6 (0.52)	34.4 (0.58)	37.0 (0.59)	13.8 (0.52)	2.1 (0.16)	0.1 ! (0.04)	0.1 ! (0.04)	‡ (†)			
Netherlands.....	522 (3.5)	13.1 (1.12)	3.1 (0.53)	10.1 (0.83)	20.1 (1.35)	29.1 (1.28)	25.8 (1.24)	11.8 (1.06)	10.5 (0.98)	1.3 (0.28)			
New Zealand.....	516 (2.1)	16.3 (0.86)	4.7 (0.39)	11.6 (0.76)	21.7 (0.94)	26.4 (0.95)	22.3 (0.85)	13.4 (0.69)	10.7 (0.62)	2.7 (0.25)			
Norway.....	495 (3.1)	19.6 (1.10)	6.0 (0.63)	13.6 (0.71)	24.8 (0.80)	28.9 (0.91)	19.0 (0.79)	7.5 (0.57)	6.4 (0.56)	1.1 (0.24)			
Poland.....	526 (3.1)	9.0 (0.75)	1.3 (0.32)	7.7 (0.70)	22.5 (0.98)	33.1 (0.92)	24.5 (0.96)	10.8 (1.01)	9.1 (0.76)	1.7 (0.35)			
Portugal.....	489 (3.7)	19.0 (1.44)	4.7 (0.66)	14.3 (1.09)	27.3 (0.96)	31.4 (1.25)	17.8 (1.06)	4.5 (0.55)	4.2 (0.55)	0.3 ! (0.11)			
Slovak Republic.....	471 (3.6)	26.9 (1.58)	9.2 (0.95)	17.6 (1.14)	27.0 (1.30)	26.2 (1.62)	15.0 (1.02)	4.9 (0.72)	4.3 (0.58)	0.6 ! (0.25)			
Slovenia.....	514 (1.3)	12.9 (0.56)	2.4 (0.19)	10.4 (0.55)	24.5 (1.00)	30.0 (1.02)	23.0 (0.92)	9.6 (0.72)	8.4 (0.71)	1.2 (0.24)			
Spain.....	496 (1.8)	15.7 (0.71)	3.7 (0.33)	12.0 (0.51)	27.3 (0.64)	32.8 (0.60)	19.4 (0.53)	4.8 (0.29)	4.5 (0.26)	0.3 (0.08)			
Sweden.....	485 (3.0)	22.2 (1.11)	7.3 (0.62)	15.0 (0.80)	26.2 (0.84)	28.0 (0.84)	17.2 (0.77)	6.3 (0.50)	5.6 (0.45)	0.7 (0.14)			
Switzerland.....	515 (2.7)	12.8 (0.72)	3.0 (0.31)	9.8 (0.62)	22.8 (0.82)	31.3 (0.74)	23.7 (0.86)	9.3 (0.77)	8.3 (0.70)	1.0 (0.22)			
Turkey.....	463 (3.9)	26.4 (1.50)	4.4 (0.50)	21.9 (1.27)	35.4 (1.43)	25.1 (1.28)	11.3 (1.28)	1.8 (0.36)	1.8 (0.34)	‡ (†)			
United Kingdom.....	514 (3.4)	15.0 (1.07)	4.3 (0.48)	10.7 (0.86)	22.4 (1.00)	28.4 (0.98)	23.0 (0.91)	11.2 (0.79)	9.3 (0.70)	1.8 (0.34)			
United States.....	497 (3.8)	18.1 (1.33)	4.2 (0.54)	14.0 (1.08)	26.7 (1.08)	28.9 (1.07)	18.8 (1.07)	7.5 (0.74)	6.3 (0.64)	1.1 (0.20)			

See notes at end of table.

Table 602.70. Average science literacy scores of 15-year-old students and percentage attaining science literacy proficiency levels, by country or other education system: 2012—Continued
[Standard errors appear in parentheses]

Country or other education system	Average science literacy score	Percentage attaining science literacy proficiency levels ¹									
		Below level 2						At or above level 5			
		Total below level 2	Below level 1	At level 1	At level 2	At level 3	At level 4	Total at or above level 5	At level 5	At level 6	
1	2	3	4	5	6	7	8	9	10	11	
Non-OECD education systems											
Albania.....	397 (2.4)	53.1 (1.20)	23.5 (1.04)	29.6 (0.94)	28.5 (1.19)	14.4 (0.78)	3.6 (0.41)	0.4 ! (0.13)	0.4 ! (0.14)	+	(†)
Argentina.....	406 (3.9)	50.9 (2.21)	19.8 (1.39)	31.0 (1.46)	31.1 (1.33)	14.8 (1.20)	3.0 (0.43)	0.2 ! (0.10)	0.2 ! (0.10)	+	(†)
Brazil.....	405 (2.1)	53.7 (1.14)	18.6 (0.78)	35.1 (0.79)	30.7 (0.78)	12.5 (0.68)	2.8 (0.37)	0.3 ! (0.10)	0.3 ! (0.10)	+	(†)
Bulgaria.....	446 (4.8)	36.9 (2.02)	14.4 (1.34)	22.5 (1.15)	26.3 (1.07)	22.5 (1.09)	11.2 (0.84)	3.1 (0.58)	2.8 (0.50)	0.3 ! (0.12)	
Chinese Taipei.....	523 (2.3)	9.8 (0.77)	1.6 (0.25)	8.2 (0.64)	20.8 (0.89)	33.7 (0.97)	27.3 (1.00)	8.3 (0.61)	7.8 (0.56)	0.6 (0.13)	
Colombia.....	399 (3.1)	56.2 (1.61)	19.8 (1.36)	36.3 (1.10)	30.8 (1.08)	11.0 (0.83)	1.9 (0.25)	+	(†)	+	(†)
Connecticut-USA ³	521 (5.7)	13.5 (1.70)	3.3 (0.82)	10.2 (1.36)	21.4 (1.58)	29.4 (1.69)	22.8 (1.46)	12.9 (1.34)	10.7 (1.13)	2.2 (0.60)	
Costa Rica.....	429 (2.9)	39.3 (1.75)	8.6 (0.79)	30.7 (1.30)	39.2 (1.25)	17.8 (1.12)	3.4 (0.57)	0.2 ! (0.10)	0.2 ! (0.11)	+	(†)
Croatia.....	491 (3.1)	17.3 (0.93)	3.2 (0.38)	14.0 (0.74)	29.1 (0.99)	31.4 (1.19)	17.6 (1.16)	4.6 (0.79)	4.3 (0.75)	+	(†)
Cyprus.....	438 (1.2)	38.0 (0.67)	14.4 (0.47)	23.7 (0.66)	30.3 (0.89)	21.3 (0.73)	8.4 (0.43)	2.0 (0.29)	1.8 (0.29)	0.2 ! (0.08)	
Florida-USA ³	485 (6.4)	21.3 (2.15)	5.1 (0.96)	16.1 (1.61)	28.4 (1.61)	28.2 (2.00)	16.6 (1.64)	5.5 (1.05)	4.9 (1.01)	+	(†)
Hong Kong-China.....	555 (2.6)	5.6 (0.62)	1.2 (0.23)	4.4 (0.52)	13.0 (0.72)	29.8 (1.06)	34.9 (0.99)	16.7 (1.05)	14.9 (0.91)	1.8 (0.36)	
Indonesia.....	382 (3.8)	66.6 (2.20)	24.7 (1.96)	41.9 (1.42)	26.3 (1.54)	6.5 (1.02)	+	(†)	+	(†)	
Jordan.....	409 (3.1)	49.6 (1.55)	18.2 (1.21)	31.4 (0.96)	32.2 (1.04)	15.0 (0.86)	3.0 (0.57)	+	(†)	+	(†)
Kazakhstan.....	425 (3.0)	41.9 (1.83)	11.3 (0.99)	30.7 (1.49)	36.8 (1.16)	17.8 (1.19)	3.3 (0.45)	0.2 ! (0.09)	0.2 ! (0.09)	+	(†)
Latvia.....	502 (2.8)	12.4 (0.96)	1.8 (0.39)	10.5 (0.90)	28.2 (1.20)	35.1 (1.02)	20.0 (1.05)	4.4 (0.51)	4.0 (0.47)	0.3 ! (0.13)	
Liechtenstein.....	525 (3.5)	10.4 (1.96)	+	(†)	9.6 (1.94)	22.0 (3.94)	30.8 (3.79)	10.1 (1.80)	9.1 (1.47)	+	(†)
Lithuania.....	496 (2.6)	16.1 (1.08)	3.4 (0.48)	12.7 (0.84)	27.6 (1.00)	32.9 (1.08)	18.3 (0.88)	5.1 (0.49)	4.7 (0.47)	0.4 (0.09)	
Macao-China.....	521 (0.8)	8.8 (0.46)	1.4 (0.20)	7.4 (0.49)	22.2 (0.60)	36.2 (0.81)	26.2 (0.73)	6.7 (0.36)	6.2 (0.35)	0.4 (0.10)	
Malaysia.....	420 (3.0)	45.5 (1.55)	14.5 (1.13)	31.0 (1.21)	33.9 (1.10)	16.5 (1.07)	3.7 (0.54)	0.3 ! (0.12)	0.3 ! (0.13)	+	(†)
Massachusetts-USA ³	527 (6.0)	11.5 (1.18)	2.6 (0.65)	8.9 (1.03)	21.2 (1.96)	29.4 (1.50)	23.8 (1.84)	14.2 (1.94)	11.3 (1.48)	2.9 (0.73)	
Montenegro, Republic of.....	410 (1.1)	50.7 (0.72)	18.7 (0.74)	32.0 (0.98)	29.7 (0.94)	15.4 (0.76)	3.8 (0.47)	0.4 ! (0.14)	0.4 ! (0.14)	+	(†)
Peru.....	373 (3.6)	68.5 (1.95)	31.5 (1.61)	37.0 (1.26)	23.5 (1.29)	7.0 (0.85)	1.0 (0.28)	+	(†)	+	(†)
Qatar.....	384 (0.7)	62.6 (0.53)	34.6 (0.38)	28.0 (0.58)	19.6 (0.71)	11.2 (0.39)	5.1 (0.40)	1.5 (0.12)	1.3 (0.11)	0.1 (0.04)	
Romania.....	439 (3.3)	37.3 (1.64)	8.7 (0.77)	28.7 (1.32)	34.6 (1.23)	21.0 (1.12)	6.2 (0.77)	0.9 ! (0.29)	0.9 (0.26)	+	(†)
Russian Federation.....	486 (2.9)	18.8 (1.15)	3.6 (0.39)	15.1 (0.96)	30.1 (1.08)	31.2 (0.89)	15.7 (0.98)	4.3 (0.59)	3.9 (0.51)	0.3 ! (0.16)	
Serbia, Republic of.....	445 (3.4)	35.0 (1.81)	10.3 (0.99)	24.7 (1.15)	32.4 (1.21)	22.8 (1.06)	8.1 (0.63)	1.7 (0.36)	1.6 (0.35)	+	(†)
Shanghai-China.....	580 (3.0)	2.7 (0.41)	0.3 ! (0.11)	2.4 (0.36)	10.0 (0.86)	24.6 (0.87)	35.5 (1.11)	27.2 (1.32)	23.0 (1.09)	4.2 (0.57)	
Singapore.....	551 (1.5)	9.6 (0.51)	2.2 (0.27)	7.4 (0.48)	16.7 (0.73)	24.0 (0.73)	27.0 (0.87)	22.7 (0.81)	16.9 (0.94)	5.8 (0.41)	
Thailand.....	444 (2.9)	33.6 (1.56)	7.0 (0.64)	26.6 (1.33)	37.5 (1.07)	21.6 (1.14)	6.4 (0.74)	0.9 (0.27)	0.9 ! (0.27)	+	(†)
Tunisia.....	398 (3.5)	55.3 (1.87)	21.3 (1.45)	34.0 (1.07)	31.1 (1.36)	11.7 (1.00)	1.8 (0.49)	+	(†)	+	(†)
United Arab Emirates.....	448 (2.8)	35.2 (1.30)	11.3 (0.76)	23.8 (0.99)	29.9 (0.83)	22.3 (0.88)	10.1 (0.60)	2.5 (0.27)	2.3 (0.25)	0.3 (0.07)	
Uruguay.....	416 (2.8)	46.9 (1.25)	19.7 (1.06)	27.2 (0.92)	29.3 (1.00)	17.1 (0.95)	5.6 (0.53)	1.0 (0.25)	1.0 (0.24)	+	(†)
Vietnam.....	528 (4.3)	6.7 (1.09)	0.9 ! (0.26)	5.8 (0.90)	20.7 (1.40)	37.5 (1.48)	27.0 (1.50)	8.1 (1.09)	7.1 (0.90)	1.0 ! (0.32)	

†Not applicable.

#Rounds to zero.

!Interpret data with caution. The coefficient of variation (CV) for this estimate is between 30 and 50 percent.

‡Reporting standards not met. Either there are too few cases for a reliable estimate or the coefficient of variation (CV) is 50 percent or greater.

¹To reach a particular proficiency level, a student must correctly answer a majority of items at that level. Students were classified into science literacy levels according to their scores. Exact cut scores are as follows: below level 1 (a score less than or equal to 334.94); level 1 (a score greater than 334.94 and less than or equal to 409.54); level 2 (a score greater than 409.54 and less than or equal to 484.14); level 3 (a score greater than 484.14 and less than or equal to 558.73); level 4 (a score greater than 558.73 and

less than or equal to 633.33); level 5 (a score greater than 633.33 and less than or equal to 707.93); and level 6 (a score greater than 707.93).

²Refers to the mean of the data values for all Organization for Economic Cooperation and Development (OECD) countries, to which each country contributes equally, regardless of the absolute size of the student population of each country.³Results are for public school students only.

NOTE: Program for International Student Assessment (PISA) scores are reported on a scale from 0 to 1,000. Detail may not sum to totals because of rounding.

SOURCE: Organization for Economic Cooperation and Development (OECD), Program for International Student Assessment (PISA), 2012. (This table was prepared November 2013.)

Table 603.10. Percentage of the population 25 to 64 years old who completed high school, by age group and country: Selected years, 2001 through 2011

[Standard errors appear in parentheses]

Country	2001		2005		2010		2011					
	Total, 25 to 64 years old	25 to 34 years old	Total, 25 to 64 years old	25 to 34 years old	Total, 25 to 64 years old	25 to 34 years old	Total, 25 to 64 years old	25 to 34 years old	35 to 44 years old	45 to 54 years old	55 to 64 years old	
1	2	3	4	5	6	7	8	9	10	11	12	
OECD average ¹	64.2	74.0	72.8	82.6	74.0 (0.03)	81.9 (0.06)	74.8 (0.04)	82.2 (0.07)	78.5 (0.06)	72.6 (0.07)	63.8 (0.08)	
Australia	58.9	70.7	65.0	78.6	73.2 (0.41)	84.8 (0.62)	74.1 (0.25)	84.4 (0.41)	78.4 (0.45)	69.2 (0.51)	60.8 (0.59)	
Austria ^{2,3}	75.7	83.3	80.6	87.5	82.5 (0.12)	88.0 (0.23)	82.5 (0.26)	88.2 (0.44)	86.0 (0.43)	81.9 (0.50)	72.3 (0.65)	
Belgium ²	58.5	75.3	66.1	80.9	70.5 (0.19)	82.1 (0.34)	71.3 (0.19)	81.9 (0.35)	79.0 (0.35)	68.0 (0.38)	55.5 (0.43)	
Canada	81.9	89.3	85.2	90.8	88.4 (0.12)	92.2 (0.20)	88.8 (0.13)	92.5 (0.19)	91.8 (0.19)	87.8 (0.21)	82.8 (0.28)	
Chile ⁴	—	—	50.0	64.3	71.4 (0.19)	86.6 (0.24)	72.3 (0.18)	87.8 (0.23)	76.9 (0.28)	67.0 (0.32)	55.5 (0.40)	
Czech Republic	86.2	92.5	89.9	93.9	91.9 (0.08)	94.2 (0.14)	92.3 (0.07)	94.3 (0.14)	95.5 (0.11)	92.6 (0.15)	86.6 (0.18)	
Denmark	80.2	86.3	81.0	87.4	75.7 (0.17)	79.8 (0.42)	76.9 (0.17)	80.3 (0.38)	81.7 (0.30)	76.0 (0.30)	69.8 (0.36)	
Estonia	—	—	89.1	87.4	89.1 (0.30)	86.4 (0.73)	88.9 (0.29)	85.7 (0.71)	89.3 (0.55)	93.8 (0.42)	86.6 (0.64)	
Finland	73.8	86.8	78.8	89.4	83.0 (0.12)	90.8 (0.20)	83.7 (0.18)	90.2 (0.31)	89.3 (0.31)	85.9 (0.32)	71.3 (0.41)	
France ⁵	63.9	78.4	66.3	81.1	70.8 (0.09)	83.8 (0.16)	71.6 (0.09)	83.3 (0.16)	78.3 (0.16)	67.7 (0.17)	57.6 (0.19)	
Germany	82.6	85.5	83.1	84.1	85.8 (0.06)	86.5 (0.12)	86.3 (0.12)	86.8 (0.21)	86.9 (0.30)	87.0 (0.28)	84.1 (0.31)	
Greece	51.4	72.6	57.1	73.6	65.2 (0.12)	78.9 (0.21)	67.1 (0.12)	80.1 (0.22)	73.6 (0.23)	64.4 (0.24)	47.2 (0.26)	
Hungary	70.2	80.9	76.4	85.0	81.3 (0.10)	86.3 (0.19)	81.8 (0.27)	87.3 (0.32)	83.3 (0.41)	80.7 (0.46)	75.3 (0.50)	
Iceland	56.9	61.2	62.9	69.0	66.5 (0.50)	72.4 (0.92)	70.7 (0.48)	74.7 (0.90)	74.8 (0.93)	68.8 (0.94)	63.3 (1.09)	
Ireland	57.6	73.4	64.5	81.1	73.5 (0.12)	86.9 (0.18)	73.4 (0.13)	85.0 (0.20)	79.8 (0.22)	68.4 (0.27)	52.3 (0.33)	
Israel	—	—	79.2	85.7	82.1 (0.15)	88.1 (0.24)	83.0 (0.15)	89.7 (0.23)	84.6 (0.28)	79.5 (0.35)	74.2 (0.41)	
Italy	43.3	57.5	50.1	65.9	55.2 (0.08)	71.0 (0.18)	56.0 (0.14)	71.3 (0.36)	60.3 (0.29)	51.8 (0.28)	40.3 (0.28)	
Japan	83.1	93.6	—	—	(†)	(†)	(†)	(†)	(†)	(†)	(†)	
Korea, Republic of	68.0	94.6	75.5	97.3	80.4 (0.20)	97.8 (0.14)	81.4 (0.20)	98.0 (0.14)	95.6 (0.19)	75.4 (0.42)	45.1 (0.63)	
Luxembourg	52.7	59.4	65.9	76.5	77.7 (0.40)	84.0 (0.80)	77.3 (0.40)	83.4 (0.76)	78.0 (0.71)	75.2 (0.77)	70.9 (0.94)	
Mexico	21.6	25.4	21.3	24.0	36.2 (0.06)	43.6 (0.12)	36.3 (0.06)	44.0 (0.12)	36.9 (0.12)	33.7 (0.13)	23.3 (0.15)	
Netherlands ^{2,5}	65.0	74.0	71.8	81.3	73.0 (0.09)	82.7 (0.18)	72.3 (0.09)	81.7 (0.18)	77.2 (0.17)	70.6 (0.17)	60.3 (0.20)	
New Zealand	75.7	81.8	78.7	85.2	73.0 (0.37)	79.4 (0.73)	74.1 (0.36)	80.4 (0.71)	77.8 (0.66)	73.2 (0.70)	63.7 (0.83)	
Norway ²	85.2	93.4	77.2	83.5	80.6 (0.16)	83.0 (0.34)	81.9 (0.16)	83.8 (0.33)	84.6 (0.29)	77.6 (0.34)	81.4 (0.33)	
Poland	45.9	51.7	51.4	62.5	88.7 (0.07)	93.7 (0.10)	89.1 (0.06)	94.1 (0.10)	91.9 (0.12)	89.5 (0.12)	80.0 (0.16)	
Portugal	19.9	32.5	26.5	42.8	31.9 (0.16)	52.1 (0.39)	35.0 (0.16)	55.7 (0.39)	38.7 (0.34)	24.3 (0.27)	18.4 (0.26)	
Slovak Republic	85.1	93.7	85.7	93.0	91.0 (0.12)	94.1 (0.20)	91.3 (0.23)	94.1 (0.46)	94.1 (0.41)	91.7 (0.44)	84.1 (0.57)	
Slovenia	—	—	80.3	91.2	83.3 (0.19)	93.5 (0.27)	84.5 (0.19)	94.0 (0.27)	87.3 (0.38)	83.1 (0.36)	72.9 (0.45)	
Spain	40.0	57.1	48.8	63.9	52.9 (0.08)	64.7 (0.16)	54.0 (0.29)	64.8 (0.59)	61.1 (0.53)	50.0 (0.55)	33.8 (0.57)	
Sweden	80.6	90.7	83.6	90.6	86.5 (0.08)	91.1 (0.13)	87.0 (0.08)	90.9 (0.14)	91.4 (0.13)	87.4 (0.15)	78.2 (0.18)	
Switzerland	87.4	91.8	83.0	87.9	86.1 (0.12)	90.2 (0.24)	85.6 (0.12)	89.1 (0.24)	87.4 (0.21)	84.6 (0.23)	80.7 (0.26)	
Turkey	24.3	30.2	27.2	35.7	31.2 (0.09)	42.2 (0.18)	32.1 (0.09)	43.5 (0.18)	29.8 (0.17)	24.6 (0.17)	19.4 (0.18)	
United Kingdom ^{3,5}	63.0	68.0	66.7	72.9	75.1 (0.18)	82.9 (0.35)	76.8 (0.09)	84.3 (0.17)	80.3 (0.17)	74.7 (0.18)	66.7 (0.20)	
United States	87.7	88.1	87.8	86.7	89.0 (0.14)	88.4 (0.24)	89.3 (0.13)	89.0 (0.25)	89.0 (0.22)	89.3 (0.25)	89.6 (0.21)	
Other reporting countries												
Brazil ⁴	—	—	29.5	38.0	(†)	(†)	43.3 (0.11)	56.7 (0.19)	44.0 (0.21)	36.4 (0.22)	26.2 (0.25)	
Russian Federation ⁶	88.0	91.0	—	—	(†)	(†)	94.1 (0.05)	94.0 (0.10)	95.2 (0.10)	95.5 (0.09)	91.0 (0.15)	

—Not available.

†Not applicable.

¹Refers to the mean of the data values for all reporting Organization for Economic Cooperation and Development (OECD) countries, to which each country reporting data contributes equally. The average includes all current OECD countries for which a given year's data are available, even if they were not members of OECD in that year.

²Data from 2000 reported for 2001.

³Data in 2005 columns include some International Standard Classification of Education (ISCED) 3C short programs.

⁴Data from 2004 reported for 2005.

⁵Data in 2001 columns include some ISCED 3C short programs.

⁶Data from 2002 reported for 2001.

NOTE: Data in this table refer to degrees classified as International Standard Classification of Education (ISCED) level 3. ISCED level 3 corresponds to high school completion in the United States. ISCED 3C short programs do not correspond to high school completion; these short programs are excluded from this table except where otherwise noted. Standard errors are not available for 2001 and 2005.

SOURCE: Organization for Economic Cooperation and Development (OECD), *Education at a Glance*, 2002, 2007, 2012, and 2013. (This table was prepared July 2013.)

Table 603.20. Percentage of the population 25 to 64 years old who attained selected levels of postsecondary education, by age group and country: 2001 and 2011
 [Standard errors appear in parentheses]

Country	Total, any postsecondary degree				2011										
	2001		2011		Vocational degree ¹						Bachelor's or higher degree ²				
	Total, 25 to 64 years old	25 to 34 years old	Total, 25 to 64 years old	25 to 34 years old	Total, 25 to 64 years old	25 to 34 years old	35 to 44 years old	45 to 54 years old	55 to 64 years old	Total, 25 to 64 years old	25 to 34 years old	35 to 44 years old	45 to 54 years old	55 to 64 years old	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
OECD average ³	22.6	27.3	31.5 (0.04)	38.6 (0.09)	9.9 (0.03)	10.3 (0.06)	10.9 (0.06)	10.0 (0.06)	8.3 (0.06)	22.8 (0.04)	29.5 (0.08)	24.7 (0.07)	19.4 (0.07)	16.6 (0.07)	
Australia.....	29.0	33.5	38.3 (0.27)	44.6 (0.56)	10.4 (0.17)	9.6 (0.33)	11.1 (0.34)	11.7 (0.36)	9.1 (0.35)	27.9 (0.25)	35.0 (0.53)	29.9 (0.50)	23.6 (0.47)	21.1 (0.50)	
Austria.....	14.1	14.3	19.3 (0.24)	21.2 (0.60)	7.3 (0.18)	5.5 (0.36)	7.5 (0.26)	8.3 (0.23)	7.7 (0.38)	12.0 (0.18)	15.7 (0.49)	13.8 (0.42)	10.4 (0.35)	7.9 (0.34)	
Belgium.....	27.6	37.5	34.6 (0.20)	42.5 (0.45)	17.6 (0.16)	19.3 (0.36)	19.9 (0.34)	17.1 (0.31)	13.7 (0.30)	17.0 (0.16)	23.1 (0.39)	19.5 (0.34)	14.2 (0.28)	11.4 (0.27)	
Canada.....	41.6	50.5	51.3 (0.22)	56.7 (0.39)	24.6 (0.16)	25.6 (0.33)	26.4 (0.31)	25.1 (0.27)	20.8 (0.27)	26.8 (0.23)	31.1 (0.41)	31.6 (0.40)	22.9 (0.32)	21.8 (0.34)	
Chile ⁴	10.1	12.3	28.9 (0.18)	41.3 (0.34)	12.1 (0.13)	14.5 (0.23)	15.1 (0.22)	11.2 (0.20)	6.5 (0.18)	16.8 (0.15)	26.8 (0.30)	14.7 (0.23)	11.5 (0.22)	14.9 (0.28)	
Czech Republic ⁵	11.1	11.3	18.2 (0.11)	25.1 (0.26)	[5] (†)	[5] (†)	[5] (†)	[5] (†)	[5] (†)	18.2 (0.11)	25.1 (0.26)	17.9 (0.21)	17.1 (0.22)	12.1 (0.17)	
Denmark.....	26.8	27.5	33.7 (0.19)	38.6 (0.47)	5.6 (0.09)	5.4 (0.22)	6.4 (0.19)	5.6 (0.16)	5.0 (0.17)	28.1 (0.18)	33.2 (0.45)	31.1 (0.36)	25.9 (0.31)	22.9 (0.33)	
Estonia.....	—	—	36.7 (0.45)	39.0 (0.99)	12.1 (0.30)	12.3 (0.67)	11.7 (0.57)	13.1 (0.58)	11.1 (0.59)	24.6 (0.40)	26.7 (0.90)	23.4 (0.75)	24.2 (0.74)	24.1 (0.81)	
Finland.....	32.3	38.2	39.3 (0.24)	39.4 (0.50)	14.4 (0.17)	1.6 (0.13)	16.7 (0.39)	21.7 (0.40)	16.6 (0.35)	24.9 (0.21)	37.8 (0.50)	30.1 (0.48)	19.4 (0.39)	14.7 (0.33)	
France.....	23.0	34.2	29.8 (0.09)	43.0 (0.21)	11.5 (0.06)	16.0 (0.16)	14.3 (0.13)	9.3 (0.11)	6.5 (0.09)	18.3 (0.07)	27.0 (0.19)	21.3 (0.16)	13.2 (0.13)	12.1 (0.12)	
Germany.....	23.2	21.8	27.6 (0.08)	27.7 (0.19)	11.2 (0.06)	9.4 (0.11)	11.4 (0.12)	12.4 (0.11)	11.2 (0.12)	16.4 (0.07)	18.3 (0.16)	17.5 (0.14)	15.0 (0.12)	15.0 (0.14)	
Greece.....	17.8	24.0	26.1 (0.12)	32.5 (0.26)	7.7 (0.07)	11.8 (0.18)	8.7 (0.14)	6.3 (0.12)	3.4 (0.09)	18.3 (0.10)	20.7 (0.23)	19.1 (0.20)	17.9 (0.19)	15.1 (0.19)	
Hungary.....	14.1	14.7	21.1 (0.26)	28.1 (0.44)	0.6 (0.04)	1.6 (0.11)	0.5 (0.07)	0.3 (†)	† (†)	20.5 (0.26)	26.5 (0.43)	20.9 (0.44)	17.7 (0.47)	16.3 (0.48)	
Iceland.....	24.8	26.6	33.9 (0.50)	39.4 (1.01)	3.9 (0.20)	2.5 (0.32)	4.9 (0.47)	4.1 (0.40)	3.9 (0.44)	30.0 (0.49)	36.9 (0.99)	34.2 (1.02)	27.0 (0.90)	20.1 (0.91)	
Ireland.....	35.6	47.8	37.7 (0.14)	47.2 (0.28)	14.7 (0.10)	16.1 (0.20)	17.5 (0.20)	13.4 (0.20)	9.9 (0.19)	23.1 (0.12)	31.1 (0.26)	25.9 (0.24)	17.5 (0.22)	12.9 (0.22)	
Israel.....	—	—	46.4 (0.20)	45.0 (0.38)	15.4 (0.14)	13.4 (0.25)	15.5 (0.29)	16.5 (0.30)	17.1 (0.32)	31.0 (0.18)	31.6 (0.35)	34.1 (0.37)	28.8 (0.37)	28.2 (0.38)	
Italy.....	10.0	11.8	14.9 (0.08)	21.0 (0.20)	0.3 (0.01)	0.2 (0.02)	0.3 (0.02)	0.5 (0.02)	0.3 (0.02)	14.6 (0.08)	20.7 (0.20)	16.3 (0.16)	11.0 (0.14)	10.5 (0.15)	
Japan.....	33.8	47.7	46.4 (0.19)	58.7 (0.40)	20.1 (0.15)	23.8 (0.35)	24.7 (0.33)	20.3 (0.34)	12.2 (0.30)	26.3 (0.17)	34.9 (0.39)	26.5 (0.33)	26.7 (0.37)	18.5 (0.36)	
Korea, Republic of.....	24.2	39.5	40.4 (0.25)	63.8 (0.46)	12.6 (0.17)	24.9 (0.43)	14.9 (0.31)	6.1 (0.22)	2.1 (0.16)	27.8 (0.23)	38.9 (0.47)	34.6 (0.44)	21.8 (0.40)	10.7 (0.40)	
Luxembourg.....	18.1	23.4	37.0 (0.46)	46.6 (1.02)	12.0 (0.31)	14.5 (0.72)	12.8 (0.57)	10.5 (0.55)	9.6 (0.61)	25.1 (0.41)	32.2 (0.96)	27.1 (0.76)	20.7 (0.73)	18.7 (0.80)	
Mexico.....	15.0	17.9	17.3 (#)	22.5 (#)	1.1 (#)	1.2 (#)	1.1 (#)	1.2 (#)	0.7 (#)	16.2 (#)	21.3 (#)	14.3 (#)	15.1 (#)	11.3 (#)	
Netherlands.....	23.2	26.5	32.0 (0.09)	39.8 (0.23)	2.5 (0.03)	2.2 (0.07)	2.9 (0.07)	2.8 (0.06)	2.2 (0.06)	29.5 (0.09)	37.6 (0.22)	31.3 (0.19)	26.5 (0.16)	23.6 (0.17)	
New Zealand.....	29.2	28.5	39.3 (0.41)	46.0 (0.90)	15.5 (0.30)	14.6 (0.64)	14.8 (0.57)	16.4 (0.58)	16.2 (0.63)	23.8 (0.35)	31.4 (0.84)	26.2 (0.70)	20.4 (0.64)	16.5 (0.64)	
Norway.....	30.2	37.9	38.1 (0.20)	46.8 (0.45)	2.2 (0.06)	1.1 (0.09)	2.2 (0.12)	2.9 (0.14)	2.8 (0.14)	35.8 (0.20)	45.7 (0.45)	39.4 (0.39)	31.0 (0.38)	26.5 (0.37)	
Poland ⁶	11.9	15.2	23.7 (0.09)	39.2 (0.21)	[5] (†)	[5] (†)	[5] (†)	[5] (†)	[5] (†)	23.7 (0.09)	39.2 (0.21)	24.4 (0.19)	15.6 (0.15)	12.8 (0.13)	
Portugal ⁵	9.0	13.7	17.3 (0.13)	26.9 (0.35)	[5] (†)	[5] (†)	[5] (†)	[5] (†)	[5] (†)	17.3 (0.13)	26.9 (0.35)	18.6 (0.27)	11.5 (0.20)	10.9 (0.21)	
Slovak Republic.....	10.9	11.9	18.8 (0.32)	25.7 (0.86)	1.3 (0.09)	1.3 (0.22)	1.2 (0.19)	1.4 (0.19)	1.2 (0.17)	17.5 (0.31)	24.4 (0.85)	16.1 (0.63)	14.9 (0.57)	12.7 (0.52)	
Slovenia.....	—	—	25.1 (0.23)	33.8 (0.53)	11.2 (0.17)	12.6 (0.37)	11.6 (0.36)	11.7 (0.31)	8.7 (0.29)	13.9 (0.18)	21.2 (0.46)	16.5 (0.42)	10.1 (0.29)	7.7 (0.27)	
Spain.....	23.6	35.5	31.6 (0.27)	39.2 (0.60)	9.3 (0.17)	12.4 (0.41)	11.6 (0.35)	7.3 (0.28)	4.1 (0.24)	22.3 (0.24)	26.7 (0.54)	25.5 (0.47)	19.8 (0.43)	14.5 (0.42)	
Sweden.....	31.6	36.9	35.2 (0.11)	42.9 (0.23)	9.0 (0.07)	8.6 (0.13)	8.5 (0.13)	9.2 (0.13)	9.7 (0.13)	26.2 (0.10)	34.2 (0.22)	30.5 (0.21)	21.4 (0.19)	18.5 (0.17)	
Switzerland.....	25.4	25.6	35.2 (0.16)	39.8 (0.38)	10.7 (0.10)	9.5 (0.23)	11.8 (0.20)	11.5 (0.20)	9.4 (0.19)	24.5 (0.14)	30.3 (0.35)	27.7 (0.28)	21.9 (0.26)	17.7 (0.25)	
Turkey ^{4,5}	8.9	10.2	14.0 (0.07)	18.9 (0.14)	[5] (†)	[5] (†)	[5] (†)	[5] (†)	[5] (†)	14.0 (0.07)	18.9 (0.14)	13.5 (0.13)	9.5 (0.12)	9.8 (0.14)	
United Kingdom.....	26.0	30.0	39.4 (0.10)	46.9 (0.23)	9.8 (0.06)	7.6 (0.12)	10.6 (0.13)	11.7 (0.13)	9.3 (0.12)	29.6 (0.10)	39.3 (0.22)	32.0 (0.20)	24.1 (0.18)	22.0 (0.18)	
United States.....	37.3	39.1	42.4 (0.22)	43.1 (0.46)	10.3 (0.11)	10.1 (0.24)	10.4 (0.22)	10.7 (0.21)	9.8 (0.25)	32.2 (0.22)	33.0 (0.45)	34.2 (0.40)	30.2 (0.39)	31.4 (0.39)	
Other reporting countries															
Brazil ^{4,5}	7.7	6.7	11.6 (0.07)	12.7 (0.12)	[5] (†)	[5] (†)	[5] (†)	[5] (†)	[5] (†)	11.6 (0.07)	12.7 (0.12)	11.8 (0.13)	11.4 (0.14)	9.5 (0.16)	
China ^{4,6}	4.6	6.1	3.6 (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	
Russian Federation ⁷	54.0	55.5	53.5 (†)	56.5 (†)	26.4 (†)	22.4 (†)	26.9 (†)	28.4 (†)	28.7 (†)	27.1 (†)	34.1 (†)	27.9 (†)	23.9 (†)	20.8 (†)	

—Not available.

†Not applicable.

#Rounds to zero.

‡Reporting standards not met (too few cases for a reliable estimate).

¹The vocational degree data in this table refer to degrees classified as International Standard Classification of Education (ISCED) level 5B. ISCED level 5B corresponds to the associate's degree in the United States.

²The data for bachelor's degree or higher in this table refer to degrees classified as ISCED level 5A (first and second award) and as level 6. ISCED 5A, first award, corresponds to the bachelor's degree in the United States; ISCED 5A, second award, corresponds to master's and first-professional degrees in the United States; and ISCED 6 corresponds to doctor's degrees.

³Refers to the mean of the data values for all reporting Organization for Economic Cooperation and Development (OECD) countries, to which each country reporting data contributes equally. The average includes all current OECD countries for which a given year's data are available, even if they were not members of OECD in that year.

⁴Data from 2000 reported for 2001.

⁵Columns for bachelor's or higher degree include vocational degree data.

⁶Data from 2010 reported for 2011.

⁷Data from 2002 reported for 2001.

NOTE: Standard errors are not available for 2001.

SOURCE: Organization for Economic Cooperation and Development (OECD), *Education at a Glance*, 2002 and 2013. (This table was prepared July 2013.)

Table 603.30. Percentage of the population 25 to 64 years old who attained a bachelor's or higher level degree, by age group and country: Selected years, 1999 through 2011

[Standard errors appear in parentheses]

Country	1999		2001		2005		2006		2007		2008		2009			2010			2011					
	Total, 25 to 64 years old	25 to 34 years old	Total, 25 to 64 years old	25 to 34 years old	Total, 25 to 64 years old	25 to 34 years old	Total, 25 to 64 years old	25 to 34 years old	Total, 25 to 64 years old	25 to 34 years old	Total, 25 to 64 years old	25 to 34 years old	Total, 25 to 64 years old	25 to 34 years old	Total, 25 to 64 years old	25 to 34 years old	Total, 25 to 64 years old	25 to 34 years old	Total, 25 to 64 years old	25 to 34 years old				
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19						
OECD average ¹	14.0	16.5	15.1	18.2	18.8	23.9	19.5	24.6	20.0	25.4	20.8	26.6	21.4	(0.03)	27.7	(0.08)	22.0	(0.04)	28.5	(0.09)	22.8	(0.04)	29.5	(0.08)
Australia.....	17.7	20.1	19.2	23.9	22.7	29.2	23.8	29.2	24.1	30.6	25.5	31.9	26.8	(0.29)	34.6	(0.62)	26.9	(0.41)	34.2	(0.81)	27.9	(0.25)	35.0	(0.53)
Austria ²	6.1	6.8	6.8	6.9	9.1	11.6	10.1	12.9	10.4	13.3	10.7	13.5	11.4	(0.10)	15.3	(0.25)	12.0	(0.25)	15.4	(0.49)	12.0	(0.18)	15.7	(0.49)
Belgium.....	12.0	16.0	12.7	17.8	13.8	19.1	14.1	19.4	14.0	18.2	16.4	22.8	17.5	(0.16)	24.2	(0.38)	17.2	(0.16)	23.3	(0.37)	17.0	(0.16)	23.1	(0.39)
Canada.....	19.1	23.1	20.4	25.1	23.3	28.2	24.0	29.3	24.6	29.5	25.2	29.8	25.4	(0.16)	30.1	(0.34)	26.4	(0.22)	30.7	(0.42)	26.8	(0.23)	31.1	(0.41)
Chile ^{2,3}	8.2	9.6	9.0	10.7	—	—	—	—	—	—	15.7	22.3	16.4	(0.15)	24.0	(0.30)	16.5	(0.15)	25.4	(0.30)	16.8	(0.15)	26.8	(0.30)
Czech Republic ⁴	10.8	10.9	11.1	11.3	13.1	14.2	13.5	15.2	13.7	15.5	14.5	17.7	15.5	(0.10)	20.2	(0.23)	16.8	(0.10)	22.6	(0.25)	18.2	(0.11)	25.1	(0.26)
Denmark.....	—	—	21.5	21.7	26.0	30.7	27.1	31.7	25.5	32.0	27.5	34.9	27.1	(0.18)	36.2	(0.60)	27.0	(0.17)	31.4	(0.48)	28.1	(0.18)	33.2	(0.45)
Estonia.....	—	—	—	—	22.2	24.1	22.2	24.1	22.2	25.2	22.3	23.5	22.7	(0.41)	21.7	(0.87)	21.9	(0.71)	23.8	(1.59)	24.6	(0.40)	26.7	(0.90)
Finland.....	13.9	15.6	14.8	18.0	18.1	26.6	19.2	29.4	20.9	31.8	21.5	32.9	22.6	(0.13)	36.0	(0.34)	23.5	(0.21)	36.7	(0.52)	24.9	(0.21)	37.8	(0.50)
France.....	11.0	15.3	11.9	17.5	14.8	22.3	15.6	23.7	15.9	23.8	16.4	23.7	17.3	(0.08)	25.7	(0.20)	17.5	(0.08)	26.0	(0.19)	18.3	(0.07)	27.0	(0.19)
Germany.....	13.0	12.9	13.5	13.5	14.8	15.1	15.1	15.1	15.6	16.1	16.4	17.5	17.1	(0.06)	18.9	(0.14)	17.0	(0.07)	18.9	(0.16)	16.4	(0.07)	18.3	(0.16)
Greece.....	12.2	16.6	12.4	16.6	14.5	17.0	15.1	17.7	15.4	18.7	16.8	18.6	16.9	(0.09)	19.3	(0.21)	17.5	(0.29)	20.0	(0.51)	18.3	(0.10)	20.7	(0.23)
Hungary ⁵	13.5	13.7	14.1	14.7	16.9	19.1	17.4	20.1	17.7	21.1	18.7	22.9	19.4	(0.10)	24.1	(0.23)	19.6	(0.10)	24.7	(0.24)	20.5	(0.26)	26.5	(0.43)
Iceland.....	17.8	22.3	18.8	21.1	25.9	32.5	25.6	28.5	26.1	27.9	27.9	30.6	28.8	(0.48)	33.4	(0.96)	28.7	(0.48)	34.0	(0.98)	30.0	(0.49)	36.9	(0.99)
Ireland ²	10.6	16.1	14.0	19.8	18.4	26.2	19.9	28.2	21.1	29.9	22.2	30.6	20.9	(0.11)	28.8	(0.23)	21.8	(0.11)	29.7	(0.24)	23.1	(0.12)	31.1	(0.26)
Israel.....	—	—	—	—	29.8	34.8	29.8	34.8	28.3	28.1	28.8	28.9	29.4	(0.18)	29.5	(0.35)	30.5	(0.18)	31.8	(0.35)	31.0	(0.18)	31.6	(0.35)
Italy ⁵	9.3	10.0	10.0	11.8	11.7	15.5	12.4	16.7	13.0	18.3	14.0	19.6	14.1	(0.06)	19.9	(0.15)	14.4	(0.07)	20.5	(0.19)	14.6	(0.08)	20.7	(0.20)
Japan.....	18.3	23.0	19.2	24.3	22.3	27.9	23.0	29.7	23.1	29.0	24.3	30.9	24.6	(0.11)	31.8	(0.27)	25.3	(0.18)	33.0	(0.38)	26.3	(0.17)	34.9	(0.39)
Korea, Republic of.....	16.9	23.2	17.5	25.0	22.7	31.7	23.5	32.9	24.4	33.9	25.6	34.5	27.1	(0.23)	37.6	(0.47)	27.5	(0.23)	39.0	(0.47)	27.8	(0.23)	38.9	(0.47)
Luxembourg.....	11.7	13.1	11.4	15.1	17.0	23.8	16.4	22.7	17.7	23.8	20.0	27.9	20.2	(0.39)	24.1	(0.93)	20.8	(0.39)	26.1	(0.96)	25.1	(0.41)	32.2	(0.96)
Mexico.....	11.9	14.1	13.3	15.3	13.8	17.0	14.4	17.5	14.9	18.4	14.9	18.5	15.9	(0.05)	20.2	(0.10)	16.2	(0.00)	20.6	(0.00)	16.2	(#)	21.3	(#)
Netherlands.....	20.1	22.7	20.9	24.1	28.3	33.8	28.4	34.3	29.1	35.1	29.8	37.5	30.0	(0.09)	37.6	(0.22)	29.8	(0.10)	38.4	(0.23)	29.5	(0.09)	37.6	(0.22)
New Zealand.....	13.1	15.6	13.9	16.9	19.7	26.2	23.0	29.8	25.3	33.0	25.1	33.6	23.2	(0.41)	30.8	(0.96)	24.3	(0.36)	31.5	(0.83)	23.8	(0.35)	31.4	(0.84)
Norway ²	25.3	30.6	27.6	35.4	30.3	38.9	30.5	39.8	31.9	40.8	33.6	43.8	34.5	(0.20)	45.5	(0.45)	35.2	(0.20)	46.2	(0.45)	35.8	(0.20)	45.7	(0.45)
Poland ^{2,4}	11.3	12.3	11.9	15.2	16.9	25.5	17.9	28.0	18.7	30.0	19.6	32.1	21.2	(0.12)	35.4	(0.29)	22.9	(0.09)	37.4	(0.21)	23.7	(0.09)	39.2	(0.21)
Portugal ⁶	7.1	9.3	6.6	10.6	12.8	19.1	13.5	20.0	13.7	21.4	14.3	23.2	14.7	(0.12)	23.3	(0.32)	15.4	(0.51)	24.8	(1.02)	17.3	(0.13)	26.9	(0.35)
Slovak Republic.....	—	—	10.3	11.2	12.8	15.4	13.3	15.7	13.3	16.8	14.0	17.8	15.0	(0.15)	19.7	(0.34)	16.6	(0.16)	23.5	(0.28)	17.5	(0.31)	24.4	(0.85)
Slovenia.....	—	—	—	—	10.6	15.2	10.6	15.2	11.7	17.6	11.8	18.4	12.6	(0.17)	18.7	(0.42)	13.1	(0.17)	19.2	(0.43)	13.9	(0.18)	21.2	(0.46)
Spain.....	14.8	22.1	16.9	23.9	19.9	27.0	19.8	26.0	20.0	26.0	20.0	25.7	20.1	(0.07)	25.0	(0.15)	21.5	(0.07)	26.9	(0.15)	22.3	(0.24)	26.7	(0.54)
Sweden.....	13.1	11.1	16.9	19.7	20.6	28.4	21.7	30.6	22.6	31.5	23.4	32.4	24.3	(0.11)	33.9	(0.26)	25.4	(0.10)	34.0	(0.22)	26.2	(0.10)	34.2	(0.22)
Switzerland.....	14.5	16.6	15.8	15.9	19.0	21.9	19.9	23.2	21.3	25.6	23.3	28.8	24.7	(0.24)	30.5	(0.56)	24.3	(0.15)	30.6	(0.37)	24.5	(0.14)	30.3	(0.35)
Turkey ⁴	7.1	7.6	8.9	10.2	9.7	11.8	10.4	12.8	10.8	13.6	12.0	15.5	12.7	(0.07)	16.6	(0.13)	13.1	(0.07)	17.4	(0.13)	14.0	(0.07)	18.9	(0.14)
United Kingdom.....	16.6	18.8	18.0	21.0	20.8	26.9	21.7	28.6	22.7	29.4	23.6	30.7	26.9	(0.09)	36.3	(0.21)	28.0	(0.19)	37.9	(0.45)	29.6	(0.10)	39.3	(0.22)
United States.....	27.5	28.7	28.3	29.9	29.6	30.3	29.9	29.9	30.9	31.0	31.5	32.3	31.4	(0.16)	32.1	(0.32)	31.7	(0.22)	32.8	(0.36)	32.2	(0.22)	33.0	(0.45)
Other reporting countries																								
Brazil ^{2,4}	7.5	6.5	7.6	6.6	—	—	—	—	9.6	10.0	10.8	11.0	10.9	(0.07)	11.6	(0.12)	—	(†)	—	(†)	11.6	(0.07)	12.7	(0.12)
Russian Federation ⁷	—	—	20.8	21.3	—	—	—	—	—	—	—	—	—	(†)	—	(†)	—	(†)	—	(†)	27.1	(†)	34.1	(†)

—Not available.

†Not applicable.

#Rounds to zero.

¹Refers to the mean of the data values for all reporting Organization for Economic Cooperation and Development (OECD) countries, to which each country reporting data contributes equally. The average includes all current OECD countries for which a given year's data are available, even if they were not members of OECD in that year.

²Data from 1998 reported for 1999.

³Data from 2000 reported for 2001.

⁴Data include vocational degrees.

⁵Data for 1999 and 2001 include vocational degrees.

⁶Data for 2005 to 2011 include vocational degrees.

⁷Data from 2002 are reported for 2001.

NOTE: Data in this table refer to degrees classified as International Standard Classification of Education (ISCED) level 5A (first and second award) and as level 6. ISCED 5A, first award, corresponds to the bachelor's degree in the United States; ISCED 5A, second award, corresponds to master's and first-professional degrees in the United States; and ISCED 6 corresponds to doctor's degrees. Standard errors are not available for years prior to 2009.

SOURCE: Organization for Economic Cooperation and Development (OECD), *Education at a Glance*, 2001 through 2013. (This table was prepared July 2013.)

Table 603.40. Percentage of the population 25 to 64 years old who attained a postsecondary vocational degree, by age group and country: Selected years, 1999 through 2011
[Standard errors appear in parentheses]

Country	1999		2001		2005		2006		2007		2008		2009		2010		2011							
	Total, 25 to 64 years old	25 to 34 years old	Total, 25 to 64 years old	25 to 34 years old	Total, 25 to 64 years old	25 to 34 years old	Total, 25 to 64 years old	25 to 34 years old	Total, 25 to 64 years old	25 to 34 years old	Total, 25 to 64 years old	25 to 34 years old	Total, 25 to 64 years old	25 to 34 years old	Total, 25 to 64 years old	25 to 34 years old	Total, 25 to 64 years old	25 to 34 years old						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19					
OECD average ¹	8.4	10.5	8.9	10.8	8.6	9.6	9.0	10.0	9.4	10.1	9.7	10.4	10.4	(0.03)	11.0	(0.07)	10.2	(0.03)	10.9	(0.07)	9.9	(0.03)	10.3	(0.06)
Australia.....	9.0	8.8	9.7	9.7	9.0	8.9	9.2	9.6	9.6	10.2	10.1	9.8	10.1	(0.20)	10.2	(0.39)	10.7	(0.29)	10.2	(0.52)	10.4	(0.17)	9.6	(0.33)
Austria ²	4.7	5.8	7.3	7.4	8.7	8.1	7.5	6.3	7.2	5.6	7.4	5.9	7.6	(0.08)	5.8	(0.16)	7.3	(0.19)	5.4	(0.29)	7.3	(0.18)	5.5	(0.36)
Belgium.....	13.9	17.9	14.9	19.7	17.3	21.5	17.7	22.5	18.1	23.1	15.9	19.5	15.9	(0.15)	18.3	(0.34)	17.8	(0.16)	20.5	(0.36)	17.6	(0.16)	19.3	(0.36)
Canada.....	20.2	23.7	21.2	25.4	22.8	25.6	22.9	25.5	23.7	26.3	23.6	26.1	24.1	(0.16)	26.0	(0.32)	24.2	(0.17)	25.8	(0.38)	24.6	(0.16)	25.6	(0.33)
Chile ^{2,3,4}	0.9	1.4	1.0	1.6	2.8	4.1	—	—	—	—	—	8.5	11.5	(0.11)	11.0	(0.22)	10.3	(0.13)	13.1	(0.23)	12.1	(0.13)	14.5	(0.23)
Denmark.....	—	—	5.3	5.8	7.6	9.1	7.6	9.1	6.7	8.1	7.0	8.2	7.2	(0.11)	8.5	(0.35)	6.3	(0.10)	6.2	(0.25)	5.6	(0.09)	5.4	(0.22)
Estonia.....	—	—	—	—	11.1	8.7	11.1	8.7	11.1	9.4	12.0	12.3	13.2	(0.33)	14.8	(0.75)	13.3	(0.55)	14.0	(1.24)	12.1	(0.30)	12.3	(0.67)
Finland.....	17.4	21.8	17.5	20.2	16.6	11.0	15.9	9.0	15.4	7.5	15.0	5.4	14.7	(0.11)	3.4	(0.13)	14.7	(0.18)	2.5	(0.17)	14.4	(0.17)	1.6	(0.13)
France.....	10.5	15.6	11.2	16.7	10.0	17.0	10.6	17.7	10.9	17.7	11.1	16.9	11.6	(0.07)	17.5	(0.18)	11.5	(0.06)	16.9	(0.16)	11.5	(0.06)	16.0	(0.16)
Germany.....	9.9	8.6	9.7	8.2	9.7	7.4	8.9	6.8	8.7	6.5	9.0	6.5	9.3	(0.05)	6.8	(0.09)	9.6	(0.05)	7.2	(0.10)	11.2	(0.06)	9.4	(0.11)
Greece.....	5.5	8.6	5.4	7.4	6.7	8.4	7.0	9.0	7.4	9.4	6.6	9.6	6.7	(0.06)	10.1	(0.16)	7.2	(0.16)	10.9	(0.34)	7.7	(0.07)	11.8	(0.18)
Hungary.....	—	—	—	—	0.2	0.5	0.3	0.6	#	0.9	#	1.0	#	(†)	1.0	(#)	0.6	(0.02)	1.4	(0.06)	0.6	(0.04)	1.6	(0.11)
Iceland.....	4.6	5.3	6.0	5.5	4.7	3.3	3.9	3.0	3.7	3.2	3.4	2.2	3.9	(0.21)	2.5	(0.31)	3.8	(0.20)	2.2	(0.30)	3.9	(0.20)	2.5	(0.32)
Ireland ²	10.5	13.4	21.6	28.1	10.6	14.4	10.9	14.0	11.1	14.0	11.7	14.5	14.9	(0.10)	18.7	(0.20)	15.6	(0.10)	18.4	(0.20)	14.7	(0.10)	16.1	(0.20)
Israel.....	—	—	—	—	16.0	15.1	16.0	15.1	15.2	13.4	15.1	13.4	15.5	(0.14)	13.4	(0.26)	15.0	(0.14)	12.4	(0.25)	15.4	(0.14)	13.4	(0.25)
Italy.....	—	—	—	—	0.5	0.6	0.5	0.6	0.5	0.6	#	#	#	(†)	#	(†)	#	(†)	#	(†)	0.3	(0.01)	0.2	(0.02)
Japan.....	13.4	22.1	14.6	23.4	17.7	25.3	17.5	24.4	17.9	24.6	18.5	24.1	19.1	(0.10)	23.9	(0.25)	19.5	(0.16)	23.7	(0.34)	20.1	(0.15)	23.8	(0.35)
Korea, Republic of.....	5.8	11.9	6.7	14.5	8.9	19.3	9.5	20.1	10.2	21.6	10.9	23.3	11.6	(0.16)	25.5	(0.42)	12.2	(0.17)	26.0	(0.43)	12.6	(0.17)	24.9	(0.43)
Luxembourg.....	6.6	8.1	6.7	8.3	9.6	13.2	7.6	10.8	8.8	11.9	7.7	10.8	14.6	(0.34)	20.4	(0.87)	14.7	(0.34)	18.1	(0.84)	12.0	(0.31)	14.5	(0.72)
Mexico.....	1.3	2.2	1.7	2.7	1.1	1.2	1.0	1.1	1.0	1.1	1.1	1.2	1.1	(0.01)	1.2	(0.03)	1.1	(#)	1.3	(#)	1.1	(#)	1.2	(#)
Netherlands.....	2.5	2.4	2.3	2.4	1.8	1.6	1.8	1.7	1.7	1.6	2.4	2.2	2.8	(0.03)	2.5	(0.07)	2.5	(0.03)	2.4	(0.07)	2.5	(0.03)	2.2	(0.07)
New Zealand.....	13.9	10.4	15.3	11.6	7.4	4.6	15.3	13.8	15.7	14.3	14.9	13.9	16.9	(0.36)	15.9	(0.76)	16.4	(0.31)	14.9	(0.64)	15.5	(0.30)	14.6	(0.64)
Norway ²	2.0	2.2	2.6	2.6	2.4	1.9	2.4	1.7	2.4	1.9	2.4	1.8	2.2	(0.06)	1.4	(0.11)	2.1	(0.06)	1.0	(0.09)	2.2	(0.06)	1.1	(0.09)
Portugal.....	2.7	3.0	2.4	3.1	—	—	—	—	—	—	—	—	—	(†)	—	(†)	—	(†)	—	(†)	—	(†)	—	(†)
Slovak Republic.....	—	—	0.6	0.6	0.8	0.9	0.9	0.9	0.7	0.7	0.8	0.6	0.8	(0.04)	0.9	(0.08)	0.7	(0.04)	0.6	(0.05)	1.3	(0.09)	1.3	(0.22)
Slovenia.....	—	—	—	—	9.6	9.5	9.6	9.5	10.6	12.4	10.8	11.7	10.8	(0.16)	11.7	(0.35)	10.6	(0.16)	12.2	(0.36)	11.2	(0.17)	12.6	(0.37)
Spain.....	6.2	11.4	6.7	11.6	8.3	12.8	8.7	13.2	9.0	13.0	9.2	13.0	9.5	(0.05)	13.2	(0.11)	9.2	(0.05)	12.2	(0.11)	9.3	(0.17)	12.4	(0.41)
Sweden.....	15.6	20.7	14.7	17.1	9.1	8.9	8.8	8.5	8.7	8.5	8.6	8.4	8.7	(0.07)	8.5	(0.15)	8.8	(0.06)	8.2	(0.13)	9.0	(0.07)	8.6	(0.13)
Switzerland.....	9.1	9.3	9.6	9.7	9.7	9.1	9.9	9.0	10.0	9.5	10.4	9.7	10.3	(0.17)	9.4	(0.36)	10.8	(0.11)	9.9	(0.24)	10.7	(0.10)	9.5	(0.23)
United Kingdom.....	8.2	8.4	8.0	9.0	8.8	8.1	8.7	8.2	9.1	7.7	9.0	7.7	10.0	(0.06)	8.5	(0.12)	10.2	(0.13)	8.1	(0.25)	9.8	(0.06)	7.6	(0.12)
United States.....	8.3	8.7	9.0	9.2	9.4	9.0	9.6	9.3	9.4	9.3	9.6	9.3	9.8	(0.08)	8.9	(0.15)	10.0	(0.12)	9.5	(0.22)	10.3	(0.11)	10.1	(0.24)
Other reporting countries																								
Russian Federation ⁵	—	—	33.5	34.2	—	—	—	—	—	—	—	—	—	(†)	—	(†)	—	(†)	—	(†)	26.4	(†)	22.4	(†)

—Not available.

†Not applicable.

#Rounds to zero.

¹Refers to the mean of the data values for all reporting Organization for Economic Cooperation and Development (OECD) countries, to which each country reporting data contributes equally. The average includes all current OECD countries for which a given year's data are available, even if they were not members of OECD in that year.²Data from 1998 reported for 1999.³Data from 2000 reported for 2001.⁴Data from 2004 reported for 2005.⁵Data from 2002 reported for 2001.

NOTE: Data in this table refer to degrees classified as International Standard Classification of Education (ISCED) level 5B. ISCED level 5B corresponds to the associate's degree in the United States. Data for the Czech Republic, Poland, and Turkey are not shown because these countries are not able to separate tertiary degrees at this level. Standard errors are not available for years prior to 2009.

SOURCE: Organization for Economic Cooperation and Development (OECD), *Education at a Glance*, 2001 through 2013. (This table was prepared September 2013.)

Table 603.50. Number of bachelor's degree recipients per 100 persons at the typical age of graduation, by sex and country: 2005 through 2011

Country	Typical age of graduation, 2011	Total							Male							Female						
		2005	2006	2007	2008	2009	2010	2011	2005	2006	2007	2008	2009	2010	2011	2005	2006	2007	2008	2009	2010	2011
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
OECD average¹	—	34.7	36.2	37.5	39.1	38.9	39.8	39.7	27.5	28.7	30.0	31.0	31.0	31.5	31.8	42.3	44.0	45.3	47.5	47.1	48.5	48.0
Australia	21–22	59.9	59.6	60.7	58.9	58.5	58.6	59.0	47.9	47.4	48.6	47.0	46.9	46.5	47.0	72.5	72.5	73.4	71.4	70.8	71.4	71.8
Austria	22–25	20.4	21.7	22.4	25.8	30.3	30.7	33.7	19.0	20.4	20.8	22.7	25.9	26.3	28.5	21.8	22.9	24.0	29.1	34.7	35.2	39.0
Belgium (Flemish) ²	21	18.4	19.0	35.4	27.0	—	—	—	17.0	17.9	32.6	24.4	—	—	—	19.8	20.2	38.2	29.6	—	—	—
Canada	22	33.6	39.3	35.2	39.5	38.9	38.6	37.6	25.2	29.5	26.5	29.1	29.3	29.1	28.5	42.2	49.7	44.3	50.6	49.0	48.6	47.2
Chile	23–26	11.5	15.0	14.5	14.7	17.6	18.1	18.5	9.7	13.0	11.9	11.7	13.2	14.9	15.5	13.4	17.0	17.3	17.8	22.1	21.5	21.6
Czech Republic	22–26	26.0	30.7	36.4	39.2	39.7	42.3	42.8	22.6	26.5	31.0	32.2	30.4	31.1	30.8	29.5	35.2	42.1	46.6	49.7	54.4	55.5
Denmark	24–26	52.9	50.3	50.9	50.3	48.3	50.7	50.6	37.2	37.0	38.3	38.3	35.3	37.5	38.3	69.2	63.7	63.9	62.6	61.7	64.3	63.3
Estonia	22–24	28.5	26.4	27.3	23.8	22.9	22.3	23.8	17.6	15.4	17.6	14.9	13.7	14.0	15.4	39.5	37.8	37.3	32.8	32.7	31.6	32.6
Finland ³	24	53.8	57.3	58.8	79.8	42.3	46.4	50.3	38.8	40.6	41.3	55.3	28.7	33.1	36.4	69.7	74.5	77.4	105.6	56.6	60.3	65.0
France	19–24	—	34.2	33.8	33.9	33.0	—	—	—	30.6	30.2	30.3	29.8	—	—	—	37.9	37.5	37.6	36.3	—	—
Germany	24–27	20.5	21.0	23.2	25.5	28.9	30.4	31.0	20.0	20.0	22.0	24.0	27.4	28.7	29.6	21.1	22.0	24.4	27.0	30.5	32.2	32.5
Greece ²	23–24	23.9	23.5	21.7	26.6	—	25.4	27.3	16.3	16.1	14.7	18.3	—	17.5	18.6	32.2	31.7	29.4	35.5	—	34.0	36.7
Hungary	21–24	41.5	38.2	38.8	37.6	39.0	38.4	32.8	29.0	26.1	26.2	25.2	27.1	28.0	25.0	54.5	51.0	51.8	50.4	51.2	49.1	41.0
Iceland	23–25	56.3	62.8	62.8	55.9	50.7	65.4	—	33.6	37.7	38.0	34.1	30.7	40.1	—	80.5	89.6	88.0	78.9	72.2	91.3	—
Ireland	21	40.7	42.8	44.8	46.0	47.1	52.2	46.8	33.3	33.4	36.4	36.9	38.5	45.3	40.0	48.0	52.5	53.4	55.2	55.4	58.9	53.5
Israel	26–29	32.9	33.4	36.1	36.3	36.4	36.8	38.5	25.7	26.8	29.1	29.6	30.8	30.6	31.8	40.2	40.3	43.1	43.1	42.0	43.1	45.3
Italy	23–25	44.8	42.7	38.7	35.8	34.6	33.6	34.3	37.3	35.1	31.6	29.5	28.5	26.9	27.3	52.7	50.6	46.1	42.3	40.9	40.6	41.6
Japan	21–23	36.9	38.7	38.8	40.6	41.5	41.3	44.8	41.3	42.8	42.9	44.9	46.1	45.4	49.1	32.2	34.3	34.4	36.0	36.7	37.1	40.2
Korea, Republic of	22–26	35.5	41.0	42.9	48.7	50.0	50.7	49.9	34.8	40.2	42.7	49.0	51.0	50.9	49.2	36.2	41.7	43.2	48.5	48.8	50.4	50.7
Mexico	23	15.2	18.1	18.2	17.8	19.0	19.5	20.9	14.5	16.7	16.8	16.2	17.4	17.7	19.3	15.9	19.5	19.7	19.3	20.7	21.2	22.4
Netherlands	23	47.2	49.2	47.8	46.0	45.6	44.7	45.3	40.2	42.9	41.7	39.8	39.4	38.6	38.5	54.3	55.7	54.1	52.3	51.9	51.0	52.2
New Zealand	21–23	49.0	53.5	53.8	50.0	50.7	47.3	51.0	36.6	40.6	41.6	37.6	38.9	36.7	37.6	62.0	67.0	66.0	63.0	63.1	58.6	65.1
Norway	22–25	42.1	45.1	45.0	46.1	44.3	46.1	46.1	28.8	31.9	31.8	33.9	32.0	33.7	33.4	55.8	58.8	58.7	58.8	57.3	58.8	59.3
Poland	23–25	45.0	44.8	46.6	48.2	49.4	56.9	60.6	32.8	32.9	34.4	35.0	35.9	40.5	42.9	57.6	57.1	59.2	61.9	63.3	73.8	79.1
Portugal	22	33.7	34.9	46.0	50.4	44.3	44.6	42.9	21.7	22.7	35.0	40.3	35.9	34.5	34.2	46.0	47.4	57.4	60.9	53.1	55.2	52.1
Slovak Republic	21–24	30.1	33.7	37.9	57.6	61.7	50.9	48.6	25.6	26.0	26.8	38.7	42.8	35.2	33.9	34.8	41.8	49.6	77.3	81.5	67.3	63.6
Slovenia	23–25	21.6	21.6	21.1	22.6	27.9	34.7	38.1	14.3	14.2	13.9	14.4	17.2	21.7	25.2	29.4	29.3	29.0	31.7	39.6	49.2	52.1
Spain	20–23	35.0	35.3	34.7	35.5	37.4	39.5	45.1	27.1	26.6	27.3	28.8	30.7	35.7	35.7	43.3	43.8	43.3	44.2	46.4	48.5	54.9
Sweden	25	44.0	43.3	42.2	40.9	38.1	35.7	38.5	30.8	29.8	29.1	27.9	25.8	23.6	25.0	57.6	57.2	55.8	54.7	51.0	48.6	52.7
Switzerland	24–26	25.0	27.0	28.9	30.6	29.2	28.8	28.0	26.1	26.8	28.7	29.2	27.0	26.7	25.4	23.9	27.1	29.2	32.0	31.5	31.0	30.7
Turkey	23–24	11.3	15.4	17.0	19.5	20.8	23.1	22.7	11.8	16.3	17.9	20.6	22.4	24.9	23.9	10.7	14.5	15.9	18.4	19.2	21.2	21.4
United Kingdom	20–24	39.8	39.0	39.0	40.2	39.9	41.9	43.4	34.1	33.0	32.9	33.5	33.8	35.6	36.6	45.7	45.2	45.4	47.2	46.3	48.6	50.6
United States	21	34.2	35.5	36.5	37.3	37.8	38.2	38.8	28.1	29.1	30.1	31.0	31.4	31.8	32.4	40.7	42.4	43.4	43.9	44.5	45.0	45.4
Other reporting countries																						
Brazil	22	17.5	21.3	22.7	25.6	24.9	23.1	25.9	13.3	16.2	18.4	19.9	17.9	16.9	19.0	21.6	26.4	27.0	31.3	32.0	29.4	32.8
Russian Federation	21–22	45.9	43.7	48.6	52.7	51.8	55.1	58.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—

—Not available.

¹Refers to the mean of the data values for all reporting Organization for Economic Cooperation and Development (OECD) countries, to which each country reporting data contributes equally. The average includes all current OECD countries for which a given year's data are available, even if they were not members of OECD in that year.

²Reference year for typical age of graduation is 2008.

³Structural changes in the Finnish higher education system accounted for much of the increase in Finnish degree recipients in 2008, as well as the decrease in 2009. Students had a strong incentive to complete their degrees in 2008. Students who did not complete their degrees in 2008 may have had to spend extra time or take additional courses in order to meet new requirements that went into effect in 2009.

NOTE: Data in this table refer to degrees classified by OECD as International Standard Classification of Education (ISCED) level 5A, first award. This level corresponds to the bachelor's degree in the United States. The recipients-per-100-persons ratio relates the number of people of all ages earning bachelor's degrees in a particular year to the number of people in the

population at the typical minimum age of graduation. In countries where there are two types of first awards (corresponding with different typical ages of graduation), the recipients-per-100-persons ratio is the sum of the two different award types. The typical age is based on full-time attendance and normal progression through the education system (without repeating coursework, taking time off, etc.); this age varies across countries because of differences in their education systems and differences in program duration. This age is presented for the most recent year of data and may differ from previous years; please see previously published volumes of the *Digest of Education Statistics* for the typical age of graduation in previous years. Data for Luxembourg are not shown because students generally attend no more than 1 year of higher education in Luxembourg and must complete their degrees in other countries.

SOURCE: Organization for Economic Cooperation and Development (OECD), *Education at a Glance*, 2006 through 2013; and Online Education Database, retrieved August 24, 2013, from <http://stats.oecd.org/Index.aspx>. (This table was prepared September 2013.)

Table 603.60. Percentage of bachelor's and higher level degrees awarded to women, by field of study and country: 2011

Country	All fields ¹	Education	Humanities and arts	Health and welfare	Social sciences, business, and law	Personal, transport, environmental protection, and security services	Engineering, manufacturing, and construction	Sciences, mathematics, and computer science					Agriculture
								Total	Life sciences	Physical sciences	Mathematics and statistics	Computer science	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
OECD average²	58.0	77.1	66.0	74.8	57.6	52.9	27.1	41.3	63.7	43.2	45.0	19.4	54.2
Australia ³	56.6	74.7	63.8	74.7	54.3	54.4	24.6	36.6	54.2	47.3	39.1	19.8	59.2
Austria	53.7	79.2	68.0	68.0	56.3	42.6	25.0	35.9	70.2	32.0	35.8	15.2	63.4
Belgium	55.0	75.3	65.4	66.5	58.4	41.1	25.7	35.9	52.3	33.9	44.1	9.9	57.5
Canada ³	59.9	76.7	65.0	82.5	57.7	60.9	23.1	48.6	61.5	44.2	41.1	16.9	58.9
Chile	56.9	71.9	59.5	69.7	51.6	49.0	26.2	31.9	55.4	40.3	39.0	15.5	47.5
Czech Republic	61.2	82.0	71.2	79.8	68.0	46.5	26.6	39.4	71.5	49.8	52.1	12.2	61.0
Denmark	59.2	74.4	65.0	80.7	53.5	23.2	32.4	38.7	63.0	39.9	43.2	25.0	71.6
Estonia	66.5	91.8	76.6	86.2	70.1	64.0	35.1	49.3	72.9	48.3	74.6	27.4	54.5
Finland	61.3	81.2	73.7	85.3	65.3	68.2	22.4	44.7	76.0	46.9	43.8	27.5	60.1
France ³	54.5	77.1	71.3	61.3	60.7	43.7	30.4	37.6	62.2	37.4	36.7	16.8	56.1
Germany	54.5	72.6	72.8	69.1	53.8	53.5	22.1	43.8	67.2	42.0	59.4	15.4	53.7
Greece	—	—	—	—	—	—	—	—	—	—	—	—	—
Hungary	62.3	80.7	70.2	75.5	67.7	60.6	23.2	36.3	63.0	40.8	40.2	16.3	49.2
Iceland ³	67.0	83.8	68.8	87.6	59.0	69.8	40.3	47.9	73.5	43.4	23.1	18.8	63.2
Ireland	57.2	76.2	61.5	80.7	54.1	51.5	20.7	42.4	62.3	41.3	30.4	24.5	43.5
Israel	58.1	82.3	61.5	77.7	55.8	81.2	27.3	44.1	64.0	40.0	38.6	25.5	54.1
Italy	60.5	87.6	73.6	67.6	58.5	65.7	33.0	53.9	71.1	40.9	54.9	23.5	47.3
Japan	41.9	59.5	68.9	56.8	35.4	90.9	11.2	25.7	—	—	—	—	39.3
Korea, Republic of	47.3	70.6	66.8	65.3	44.2	36.2	23.8	40.0	49.3	45.6	54.7	21.9	40.2
Mexico	54.5	72.4	59.1	66.3	59.2	23.1	28.9	46.8	58.9	41.0	43.6	40.2	35.9
Netherlands	56.9	80.0	56.7	74.7	53.6	52.3	20.1	25.3	60.6	26.7	32.2	12.8	56.0
New Zealand	61.7	81.0	64.6	78.3	58.1	54.6	31.1	45.0	60.3	46.9	46.9	22.2	58.5
Norway	61.0	75.1	59.6	83.5	57.4	45.0	26.5	33.8	66.2	39.8	34.5	13.2	55.9
Poland	65.9	81.6	76.2	75.9	68.9	55.6	33.9	44.8	72.5	67.4	64.0	15.6	55.5
Portugal	60.4	81.5	60.3	78.9	62.4	49.5	31.2	55.1	71.2	49.1	59.4	22.4	57.4
Slovak Republic	63.9	77.4	69.8	83.1	69.1	45.9	30.5	42.6	71.4	54.1	56.8	12.1	46.7
Slovenia	64.0	84.0	77.8	76.7	69.1	60.2	33.9	43.0	71.5	43.7	58.3	9.7	60.9
Spain	58.9	74.1	63.5	75.6	60.3	53.5	32.1	43.2	61.6	49.3	47.2	21.5	50.1
Sweden	63.8	79.3	62.3	82.4	60.6	49.3	30.4	43.1	61.9	46.2	36.9	22.4	58.5
Switzerland	51.2	72.3	62.6	69.3	48.6	49.4	19.8	34.8	52.1	32.3	27.6	10.3	67.1
Turkey	46.7	57.2	56.6	59.6	43.2	33.7	29.8	50.5	67.0	47.4	54.6	26.9	33.9
United Kingdom	55.1	75.8	62.1	73.7	54.4	62.2	22.6	37.4	50.4	41.9	41.0	18.9	65.3
United States	57.7	77.8	58.8	79.3	54.3	54.9	21.8	43.3	58.3	38.7	41.6	20.9	50.8
Other reporting countries													
Argentina ³	59.7	77.1	67.3	68.7	61.1	45.9	33.5	48.6	70.1	52.1	70.6	24.6	40.7
Brazil	62.9	77.2	51.9	76.4	57.5	68.4	30.2	39.5	72.4	46.5	44.1	17.5	41.2
China	48.3	—	—	—	—	—	—	—	—	—	—	—	—
Indonesia ³	49.3	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	66.3	66.4	73.7	58.3	63.6	80.2	7.5	73.4	84.9	76.2	80.5	52.8	#
South Africa	58.5	73.5	61.8	72.7	58.3	88.9	27.7	48.6	62.5	46.9	41.3	34.6	48.1

—Not available.

#Rounds to zero.

¹May contain fields not shown in this table.

²Refers to the mean of the data values for all reporting Organization for Economic Cooperation and Development (OECD) countries, to which each country reporting data contributes equally.

³Data are for 2010 instead of 2011.

NOTE: Data in this table refer to degrees classified as International Standard Classification of Education (ISCED) level 5A (first and second award) or level 6. ISCED 5A, first award,

corresponds to the bachelor's degree in the United States; ISCED 5A, second award, corresponds to master's and first-professional degrees in the United States; and ISCED 6 corresponds to doctor's degrees. Data for Luxembourg are not shown because students generally attend no more than 1 year of higher education in Luxembourg and must complete their degrees in other countries.

SOURCE: Organization for Economic Cooperation and Development (OECD), *Education at a Glance, 2013*. (This table was prepared September 2013.)

Table 603.70. Percentage of bachelor's degrees awarded in mathematics, science, and engineering, by field of study and country: Selected years, 1990 through 2010

	All mathematics, science, and engineering degrees ¹							Natural sciences ²							Mathematics and computer science ³							Engineering							
Country	1990	1995	2000	2005	2008	2009	2010	1990	1995	2000	2005	2008	2009	2010	1990	1995	2000	2005	2008	2009	2010	1990	1995	2000	2005	2008	2009	2010	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
OECD average ⁴	—	—	22.7	22.7	21.9	21.0	21.0	—	—	5.7	4.8	4.7	4.6	4.6	—	—	4.1	5.3	4.8	4.2	4.1	—	—	13.6	12.8	12.4	12.3	12.6	
Australia.....	—	19.3	21.1	21.1	19.2	18.2	17.0	—	9.9	7.6	5.9	6.4	6.3	5.9	—	3.8	5.1	8.2	5.7	4.8	4.2	—	5.6	8.5	7.0	7.0	7.1	6.9	
Austria.....	19.6	21.1	25.7	26.8	25.6	24.9	25.1	5.3	6.0	5.0	5.4	4.7	5.0	5.7	5.2	5.3	3.4	7.2	6.9	6.8	5.4	9.0	9.9	17.3	14.2	13.9	13.1	14.0	
Belgium.....	—	—	23.6	24.7	21.3	19.3	20.0	—	—	6.4	5.7	3.8	4.3	3.7	—	—	2.3	5.2	2.5	1.7	1.7	—	—	14.9	13.8	15.0	13.3	14.6	
Canada.....	16.4	16.7	20.0	20.7	20.5	20.3	19.9	6.0	6.5	8.1	6.5	9.4	9.3	9.1	4.2	3.8	4.3	5.9	3.6	3.4	3.4	6.2	6.4	7.6	8.2	7.5	7.6	7.4	
Chile.....	—	—	—	22.9	20.0	18.9	18.2	—	—	—	3.2	2.0	1.5	1.5	—	—	—	2.6	2.3	2.6	2.2	—	—	—	17.2	15.6	14.8	14.5	
Czech Republic.....	(⁵)	—	29.5	26.7	29.1	24.0	21.7	(⁵)	—	4.2	3.9	4.6	4.1	4.1	(⁵)	—	8.4	3.8	5.5	5.5	5.1	(⁵)	—	16.9	19.0	18.9	14.4	12.4	
Denmark.....	—	—	10.5	16.3	18.7	17.5	16.4	4.4	2.5	6.8	2.4	2.7	3.0	3.1	—	—	3.1	3.1	2.7	2.8	3.1	21.7	17.0	—	10.8	13.3	11.7	10.2	
Estonia.....	(⁵)	—	—	23.8	21.8	20.1	21.1	(⁵)	—	—	6.3	5.6	4.6	4.9	(⁵)	—	—	6.2	6.0	5.1	5.3	(⁵)	—	—	11.3	10.2	10.4	11.0	
Finland.....	33.5	37.2	32.2	30.0	26.6	25.3	27.4	4.1	4.0	3.9	2.7	5.0	2.5	2.7	5.9	6.9	3.3	5.6	6.4	4.1	4.4	23.4	26.3	24.9	21.7	15.1	18.7	20.3	
France.....	—	—	30.1	26.0	26.1	26.1	—	—	—	12.2	6.5	6.3	6.0	—	—	—	5.5	5.5	5.5	5.8	—	—	—	—	12.5	14.0	14.3	14.4	—
Germany.....	31.3	31.6	31.7	31.3	28.2	28.2	29.0	7.2	6.7	6.4	6.3	7.6	7.8	8.1	3.5	5.2	4.9	8.1	8.2	8.0	7.6	20.5	19.7	20.3	16.9	12.4	12.4	13.3	
Greece.....	—	—	—	25.9	23.8	—	26.1	—	—	—	8.3	5.3	—	5.9	—	—	—	8.4	7.4	—	7.4	—	—	—	9.2	11.2	—	12.8	
Hungary.....	—	—	12.6	11.0	15.1	17.1	18.9	—	—	1.1	1.2	1.4	2.8	3.7	—	—	1.2	2.4	5.3	4.5	4.2	—	—	10.4	7.4	8.4	9.7	10.9	
Iceland.....	—	—	16.5	14.1	14.9	15.2	16.6	—	—	6.0	5.0	3.2	3.4	3.5	—	—	4.0	3.5	3.2	3.2	3.0	—	—	6.5	5.5	8.5	8.7	10.1	
Ireland.....	34.1	32.3	29.3	17.7	22.8	19.4	21.6	14.1	16.9	11.5	3.5	—	5.9	5.7	6.3	4.7	7.2	4.4	—	3.5	4.4	13.7	10.7	10.6	9.9	9.5	9.9	11.6	
Israel.....	—	—	19.0	26.7	21.0	21.3	21.0	—	—	3.1	5.1	5.2	5.0	4.6	—	—	6.8	7.5	4.1	4.2	4.5	—	—	9.1	14.1	11.7	12.1	11.9	
Italy.....	19.7	19.5	27.5	23.9	22.0	22.6	22.9	7.6	6.8	5.9	4.8	4.8	5.0	5.2	3.9	3.8	3.2	2.2	2.1	2.2	2.3	8.3	8.9	18.4	16.9	15.1	15.4	15.5	
Japan.....	—	—	22.3	20.8	20.0	19.5	16.1	2.4	3.4	—	—	—	—	—	—	—	—	—	—	—	—	21.0	19.3	18.9	17.4	16.6	16.3	16.1	
Korea, Republic of.....	—	—	36.9	37.0	35.1	34.7	34.4	—	—	6.3	5.2	4.8	5.0	5.1	—	—	4.3	5.4	5.9	5.7	5.3	—	—	26.3	26.3	24.5	24.0	23.9	
Mexico.....	—	—	23.0	27.3	26.8	25.9	25.6	—	—	2.2	2.6	2.8	2.8	2.7	—	—	6.7	9.3	8.3	7.4	3.7	—	—	14.1	15.3	15.7	15.6	19.2	
Netherlands.....	21.1	—	16.2	14.9	13.7	13.5	13.4	7.1	—	3.2	2.5	1.2	1.2	1.3	1.6	1.6	1.9	4.6	4.8	4.6	4.4	12.4	—	11.1	7.7	7.7	7.7	7.7	
New Zealand.....	19.5	—	17.8	19.9	20.7	21.1	22.1	8.2	—	11.2	6.7	7.7	8.0	8.3	5.5	—	1.9	7.6	5.7	6.0	6.0	5.8	3.2	4.7	5.6	7.3	7.0	7.7	
Norway.....	12.9	16.8	11.6	13.7	13.4	14.2	15.0	2.1	3.1	0.7	0.8	1.7	1.9	2.1	0.6	0.5	3.4	4.7	3.2	3.0	3.1	10.2	13.2	7.5	8.2	8.5	9.3	9.8	
Poland.....	—	—	16.7	17.7	19.9	19.0	19.2	—	—	2.7	2.3	3.8	3.7	3.9	—	—	2.0	5.3	5.0	4.7	4.5	—	—	12.0	10.1	11.1	10.7	10.8	
Portugal.....	—	15.0	17.5	25.6	34.2	24.8	22.0	6.7	2.2	1.7	6.0	5.5	3.8	3.5	—	2.8	3.6	6.2	8.0	2.4	1.9	10.5	9.9	12.2	13.4	20.7	18.6	16.6	
Slovak Republic.....	(⁵)	—	21.9	24.6	19.0	18.9	19.7	(⁵)	—	2.0	3.7	3.3	3.3	3.5	(⁵)	—	4.6	4.4	4.0	3.8	4.2	(⁵)	—	15.3	16.5	11.7	11.8	11.9	
Slovenia.....	(⁵)	—	—	17.7	16.9	15.8	19.9	(⁵)	—	—	4.1	3.0	3.2	3.4	(⁵)	—	—	2.0	2.5	2.1	2.7	(⁵)	—	—	11.7	11.4	10.6	13.7	
Spain.....	15.0	18.2	22.7	24.1	24.1	24.3	24.0	5.7	4.3	5.3	4.2	3.6	3.3	3.2	2.6	4.5	4.3	5.2	5.5	5.3	5.1	6.7	9.4	13.1	14.7	15.0	15.7	15.7	
Sweden.....	24.0	26.4	27.7	26.9	22.9	22.9	22.1	4.1	3.9	3.7	3.6	3.5	3.7	3.2	4.7	5.5	3.7	4.0	2.6	2.6	2.3	15.2	17.0	20.3	19.2	16.9	16.6	16.5	
Switzerland.....	23.0	22.3	25.1	24.2	20.8	20.4	18.5	11.2	10.4	6.0	6.9	6.2	5.7	5.0	3.7	3.7	1.8	4.7	3.9	3.0	2.7	8.1	8.3	17.3	12.7	10.7	11.6	10.8	
Turkey.....	20.6	20.9	24.1	22.3	18.0	18.1	15.7	4.6	5.1	7.4	6.1	5.3	5.3	4.2	2.1	2.7	3.6	4.1	3.5	3.6	3.1	13.8	13.1	13.1	12.0	9.2	9.2	8.4	
United Kingdom.....	—	—	28.5	26.0	24.0	24.3	24.3	—	—	12.5	9.2	9.2	9.5	9.3	—	—	5.8	8.3	6.2	6.0	5.9	—	—	10.2	8.4	8.6	8.8	9.1	
United States.....	16.9	—	17.1	16.7	15.8	15.7	16.0	5.1	—	6.6	5.8	6.4	6.4	6.7	4.0	3.3	3.9	4.8	3.4	3.3	3.4	7.8	6.7	6.6	6.2	6.0	5.9	6.0	
Other reporting countries																													
Brazil.....	—	—	—	11.4	11.1	11.0	10.1	—	—	—	3.2	3.3	2.9	1.8	—	—	—	3.5	2.9	2.9	2.5	—	—	—	4.8	4.9	5.2	5.7	
Russian Federation.....	(⁵)	—	—	—	—	24.3	24.4	(⁵)	—	—	—	—	—	1.5	1.5	(⁵)	—	—	—	5.2	5.7	(⁵)	—	—	—	—	17.6	17.2	

—Not available.

¹Includes life sciences, physical sciences, mathematics/statistics, computer science, and engineering.²Includes life sciences and physical sciences.³Includes mathematics/statistics and computer science.⁴Refers to the mean of the data values for all reporting Organization for Economic Cooperation and Development (OECD) countries, to which each country reporting data contributes equally. The average includes all current OECD countries for which a given year's data are available, even if they were not members of OECD in that year. However, if data were reported for less than 75 percent of the countries that were members of OECD in a given year, the average for that year is omitted.⁵Country did not exist in its current form in the given year.

NOTE: Data in this table refer to degrees classified as International Standard Classification of Education (ISCED) level 5A, first award. This level corresponds to the bachelor's degree in the United States. Data for Luxembourg are not shown because students generally attend no more than 1 year of higher education in Luxembourg and must complete their degrees in other countries. Detail may not sum to totals because of rounding.

SOURCE: Organization for Economic Cooperation and Development (OECD), Online Education Database, retrieved April 10, 2013, from <http://stats.oecd.org/Index.aspx>; and unpublished tabulations. (This table was prepared April 2013.)

Table 603.80. Percentage of graduate degrees awarded in mathematics, science, and engineering, by field of study and country: Selected years, 1990 through 2010

Country	All mathematics, science, and engineering degrees ¹							Natural sciences ²							Mathematics and computer science ³							Engineering						
	1990	1996	2000	2005	2008	2009	2010	1990	1996	2000	2005	2008	2009	2010	1990	1996	2000	2005	2008	2009	2010	1990	1996	2000	2005	2008	2009	2010
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
OECD average⁴	—	—	28.5	24.7	23.3	22.6	23.2	—	—	11.1	8.9	7.4	6.9	6.6	—	—	5.4	4.9	5.0	4.2	4.4	—	—	12.7	11.4	11.2	11.7	12.4
Australia.....	—	14.0	15.2	20.0	18.8	18.9	18.8	—	5.4	4.0	3.1	3.1	3.0	3.0	—	3.8	4.9	8.7	8.3	7.6	7.1	—	4.7	6.3	8.1	7.5	8.3	8.7
Austria.....	37.7	38.8	39.2	38.6	31.8	33.4	31.8	12.3	17.5	16.7	15.0	7.5	7.6	6.4	4.6	4.7	4.7	6.6	11.3	10.8	9.4	20.8	16.6	17.7	16.9	13.0	14.9	16.0
Belgium.....	—	—	19.7	18.7	18.0	21.2	22.1	—	—	—	9.3	5.4	5.7	5.3	—	—	—	3.3	3.7	3.2	2.5	—	—	7.0	6.2	8.9	12.3	14.3
Canada.....	20.0	22.3	22.4	18.8	26.3	26.0	26.0	7.8	7.7	7.4	5.0	9.9	10.1	10.1	3.4	3.5	4.1	4.0	4.3	4.1	4.1	8.8	11.2	10.9	9.8	12.1	11.9	11.9
Chile.....	—	—	—	8.5	11.4	7.9	10.5	—	—	—	2.2	2.8	2.1	2.8	—	—	—	1.6	2.3	2.2	2.2	—	—	—	4.6	6.3	3.6	5.5
Czech Republic.....	(⁵)	—	21.0	26.1	22.2	26.9	29.4	(⁵)	—	5.3	8.3	5.7	6.5	6.2	(⁵)	—	7.9	5.6	3.8	3.9	4.2	(⁵)	—	7.7	12.3	12.7	16.5	19.0
Denmark.....	22.2	12.3	27.8	23.4	21.3	23.3	24.5	5.8	3.1	9.8	7.5	5.9	5.7	5.5	4.8	1.5	2.5	9.2	7.6	7.9	9.0	11.6	7.8	15.4	6.7	7.8	9.7	10.0
Estonia.....	(⁵)	—	—	23.9	28.6	27.3	28.0	(⁵)	—	—	10.0	8.2	8.3	9.3	(⁵)	—	—	5.0	7.7	5.7	6.5	(⁵)	—	—	8.9	12.6	13.3	12.3
Finland.....	30.6	28.3	28.7	30.5	31.7	34.3	39.8	14.7	11.6	11.3	11.6	12.5	5.8	5.1	5.4	4.0	2.4	4.1	4.0	3.7	3.7	10.5	12.7	14.9	14.8	15.2	24.8	30.8
France.....	—	—	26.4	28.4	28.8	28.0	—	—	—	—	13.5	12.5	10.8	11.0	—	—	5.6	7.0	6.8	6.7	—	—	—	7.3	8.9	11.2	10.3	—
Germany.....	33.2	38.6	38.1	30.9	33.7	32.2	33.1	23.5	25.5	24.9	14.8	15.1	14.7	14.4	2.3	3.5	3.7	4.8	6.3	6.1	7.3	7.4	9.5	9.5	11.3	12.3	11.4	11.5
Greece.....	—	—	—	42.8	33.0	—	31.9	—	—	—	22.3	6.2	—	6.8	—	—	—	5.3	11.0	—	13.1	—	—	—	15.2	15.7	—	11.9
Hungary.....	—	—	9.9	6.4	8.3	10.0	9.5	—	—	1.7	1.8	2.6	2.8	2.6	—	—	0.7	1.7	1.4	1.2	1.3	—	—	7.5	2.9	4.4	6.0	5.6
Iceland.....	—	—	35.9	23.0	10.6	12.7	14.0	—	—	19.4	9.5	5.8	4.6	5.8	—	—	#	3.0	1.1	0.9	0.9	—	—	16.5	10.5	3.7	7.2	7.3
Ireland.....	34.5	23.1	28.1	16.8	19.0	16.3	17.3	19.5	10.9	6.9	4.1	—	5.1	3.4	5.8	3.0	15.2	6.3	—	6.2	7.1	9.3	9.2	6.0	6.4	6.1	5.1	6.8
Israel.....	—	—	18.1	17.9	18.6	18.4	16.7	—	—	9.2	8.9	9.2	8.8	8.2	—	—	2.8	3.2	3.3	3.2	3.0	—	—	6.1	5.9	6.0	6.3	5.5
Italy.....	—	—	11.7	15.9	—	—	—	—	—	0.3	3.5	—	—	—	—	—	5.8	3.5	—	—	—	—	—	5.7	8.9	—	—	—
Japan.....	—	—	54.4	50.9	47.1	46.8	46.4	9.5	10.2	—	—	—	—	—	—	—	—	—	—	—	—	45.1	44.4	41.9	38.0	34.7	34.7	34.5
Korea, Republic of.....	—	—	48.4	43.9	24.1	24.2	24.1	—	—	8.5	9.5	4.4	4.7	4.7	—	—	5.7	2.0	1.2	1.4	1.6	—	—	34.3	32.4	18.4	18.1	17.8
Mexico.....	—	—	31.4 ⁶	14.7	12.1	12.1	12.7	—	—	18.9 ⁶	3.3	2.9	2.9	4.2	—	—	4.1 ⁶	3.2	3.3	2.3	1.5	—	—	8.4 ⁶	8.2	5.9	6.9	7.0
Netherlands.....	28.9	18.6	—	21.3	14.6	15.1	15.5	17.7	4.4	—	—	—	—	—	1.5	3.7	—	—	—	—	—	9.7	10.6	—	11.9	7.6	7.9	8.3
New Zealand.....	22.6	16.7	20.5	16.6	18.5	20.1	20.2	13.8	12.7	11.6	7.2	9.1	9.6	9.1	4.7	1.1	1.4	5.2	4.1	4.6	4.1	4.0	3.0	7.5	4.2	5.3	5.9	6.9
Norway.....	33.4	38.3	22.0	25.8	22.2	19.1	19.8	8.0	8.7	14.9	7.8	6.1	—	—	2.1	1.9	4.6	11.9	10.8	—	—	23.3	27.7	2.5	6.1	5.3	4.3	6.4
Poland.....	—	—	—	9.1	11.1	11.5	11.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.5	5.0	6.5	6.5
Portugal.....	—	—	39.3 ⁶	33.8	49.2	32.7	31.3	—	—	11.7 ⁶	12.0	12.2	7.2	7.2	—	—	9.4 ⁶	10.0	11.2	2.3	2.0	—	—	18.2 ⁶	11.9	25.8	23.2	22.1
Slovak Republic.....	(⁵)	—	38.1	36.8	28.0	25.4	22.5	(⁵)	—	12.6	10.8	6.3	5.3	4.9	(⁵)	—	4.7	4.2	2.2	3.7	3.4	(⁵)	—	20.9	21.8	19.6	16.5	14.2
Slovenia.....	(⁵)	—	—	24.2	19.9	18.2	22.9	(⁵)	—	—	6.4	7.2	6.1	9.5	(⁵)	—	—	4.2	2.7	2.4	2.5	(⁵)	—	—	13.6	10.1	9.7	10.9
Spain.....	26.9	36.0	—	37.5 ⁶	26.6	24.5	23.2	19.7	24.8	23.9 ⁶	23.8 ⁶	14.0	12.3	9.7	1.4	4.1	5.4 ⁶	4.6 ⁶	3.9	3.5	3.4	5.7	7.1	6.8 ⁶	9.1 ⁶	8.7	8.7	10.1
Sweden.....	48.5	32.3	40.5	23.7	28.1	32.0	40.1	19.4	9.2	14.3	8.0	8.5	8.3	9.1	9.2	5.9	4.0	2.8	4.0	5.2	5.5	19.9	17.1	22.2	12.9	15.6	18.5	25.6
Switzerland.....	30.2	40.1	42.7	32.0	28.9	29.5	25.2	22.0	25.8	11.7	11.7	12.4	12.5	10.6	1.7	4.1	19.5	3.4	3.1	3.9	2.9	6.5	10.1	11.6	16.9	13.3	13.1	11.8
Turkey.....	24.0	—	25.7	21.4	18.8	18.3	16.5	7.6	—	7.6	6.7	5.4	5.3	5.0	3.3	—	3.0	3.4	3.1	3.0	2.9	13.2	—	15.2	11.2	10.4	9.9	8.6
United Kingdom.....	—	—	21.7	20.3	20.3	20.4	21.4	—	—	7.4	5.5	5.5	5.8	5.6	—	—	5.0	5.7	5.2	4.8	5.3	—	—	9.2	9.0	9.7	9.8	10.6
United States.....	14.5	13.8	13.0	13.5	13.0	13.1	13.0	4.2	4.0	3.4	3.3	3.5	3.4	3.5	3.4	3.2	3.4	3.5	3.2	3.2	3.1	6.9	6.7	6.2	6.7	6.3	6.5	6.4

—Not available.

#Rounds to zero.

¹Includes life sciences, physical sciences, mathematics/statistics, computer science, and engineering.²Includes life sciences and physical sciences.³Includes mathematics/statistics and computer science.⁴Refers to the mean of the data values for all reporting Organization for Economic Cooperation and Development (OECD) countries, to which each country reporting data contributes equally. The average includes all current OECD countries for which a given year's data are available, even if they were not members of OECD in that year. However, if data were reported for less than 75 percent of the countries that were members of OECD in a given year, the average for that year is omitted.⁵Country did not exist in its current form in the given year.⁶Only includes doctor's (Ph.D.) degrees.

NOTE: Data in this table refer to degrees classified as International Standard Classification of Education (ISCED) level 5A, second award, and as ISCED 6. ISCED 5A, second award, corresponds to master's and first-professional degrees in the United States, and ISCED 6 corresponds to doctor's degrees. Data for Luxembourg are not shown because students generally attend no more than 1 year of higher education in Luxembourg and must complete their degrees in other countries. Detail may not sum to totals because of rounding.

SOURCE: Organization for Economic Cooperation and Development (OECD), Online Education Database, retrieved April 11, 2013, from <http://stats.oecd.org/Index.aspx>; and unpublished tabulations. (This table was prepared April 2013.)

Table 603.90. Employment to population ratios of 25- to 64-year-olds, by sex, highest level of educational attainment, and country: 2011

Country	Total population, 25 to 64 years old				Male				Female			
	All levels of education	Less than high school completion	High school completion	Associate's or higher degree	All levels of education	Less than high school completion	High school completion	Associate's or higher degree	All levels of education	Less than high school completion	High school completion	Associate's or higher degree
1	2	3	4	5	6	7	8	9	10	11	12	13
OECD average¹	72.7	55.5	73.8	83.0	80.2	66.2	81.1	87.6	65.2	45.5	65.9	78.4
Australia	78.2	65.8	80.7	84.1	86.4	76.6	88.9	90.3	70.2	56.3	70.1	79.1
Austria	75.8	56.2	77.9	86.5	81.6	65.7	81.9	89.9	70.0	50.9	73.6	82.4
Belgium	70.0	47.7	74.0	84.2	76.0	57.9	80.7	86.9	63.9	37.0	66.7	81.8
Canada	75.9	55.0	74.3	81.6	80.0	63.8	79.3	85.0	71.8	44.2	68.2	78.8
Chile	72.1	63.4	72.8	79.4	87.2	83.4	89.2	87.7	57.7	44.9	57.2	71.2
Czech Republic	74.2	42.2	75.3	83.1	83.4	50.8	83.6	91.5	64.8	38.0	66.2	74.4
Denmark	77.5	62.6	79.0	85.8	80.8	70.0	81.5	88.2	74.1	55.3	75.9	83.9
Estonia	73.3	48.4	74.0	80.0	76.5	53.6	78.2	84.6	70.5	40.7	69.2	77.4
Finland	75.4	55.5	74.7	84.3	77.4	60.3	77.3	87.2	73.4	48.9	71.6	82.2
France	71.6	55.7	73.7	83.8	76.4	62.7	78.1	87.2	67.0	49.4	69.0	81.0
Germany	77.5	56.5	77.6	87.9	83.0	66.7	82.1	91.0	72.0	49.2	73.1	84.0
Greece	62.5	52.6	62.6	74.8	74.1	67.5	75.9	79.7	50.8	37.6	49.4	69.9
Hungary	63.8	37.7	66.3	79.3	70.4	46.5	71.8	84.7	57.6	31.5	60.0	75.2
Iceland	82.6	74.4	83.4	88.8	86.0	81.5	86.1	90.3	79.2	68.3	79.2	87.8
Ireland	65.9	45.7	65.1	80.8	71.1	54.2	71.9	84.8	60.8	35.3	58.3	77.6
Israel	72.1	45.6	70.9	82.8	77.8	60.6	76.8	85.9	66.6	28.8	64.5	80.2
Italy	63.7	50.8	71.9	79.0	75.7	67.9	81.3	84.9	51.9	33.1	62.6	74.3
Japan	75.9	—	72.8	79.6	88.4	—	85.2	92.0	63.5	—	60.6	66.9
Korea, Republic of	72.2	65.2	70.8	76.9	85.5	77.7	83.7	89.7	58.6	57.2	57.7	60.5
Luxembourg	73.9	62.0	70.4	85.0	82.4	74.9	79.0	89.8	65.2	50.9	61.8	79.4
Mexico	67.0	62.5	71.2	79.3	87.7	87.2	90.1	87.2	48.7	41.7	55.0	70.5
Netherlands	77.4	62.1	80.0	87.4	83.6	74.4	84.9	89.6	71.1	50.9	75.2	85.0
New Zealand	79.3	68.0	82.1	84.4	86.4	76.5	89.1	90.3	72.7	60.5	72.9	80.0
Norway	82.5	68.0	81.7	90.5	85.3	72.4	85.4	91.9	79.7	63.3	76.9	89.3
Poland	67.5	39.8	65.9	84.7	75.0	49.3	75.0	89.1	60.3	30.8	56.0	81.7
Portugal	71.3	65.9	79.4	83.4	75.9	72.9	81.2	83.5	66.9	58.5	77.7	83.3
Slovak Republic	68.9	30.2	70.2	81.6	76.4	35.4	77.6	87.3	61.5	27.0	62.1	77.0
Slovenia	70.8	46.7	70.6	86.4	74.2	55.5	74.0	87.4	67.3	39.5	66.0	85.7
Spain	64.0	52.1	67.5	78.9	70.6	61.6	74.2	82.1	57.3	41.9	60.8	75.8
Sweden	83.0	65.2	83.5	88.7	85.9	74.5	86.7	89.8	80.0	53.0	79.7	87.8
Switzerland	82.7	68.4	82.5	88.8	89.7	78.7	89.1	93.5	75.6	61.7	76.7	81.9
Turkey	56.3	50.7	61.7	76.1	77.9	75.2	81.7	84.0	31.3	26.1	29.9	64.2
United Kingdom	75.0	55.9	78.2	83.2	81.3	66.1	82.8	87.7	68.9	47.9	72.9	78.9
United States	70.9	51.1	67.1	80.0	75.7	61.0	71.8	84.7	66.1	39.7	62.3	75.8
Other reporting countries												
Brazil	70.2	67.1	70.1	85.3	86.3	83.9	89.3	91.5	55.5	50.4	54.0	80.8
Russian Federation	76.7	49.0	72.8	82.8	81.9	56.6	79.3	88.2	72.2	40.3	64.9	79.1

—Not available.

¹Refers to the mean of the data values for all reporting OECD countries, to which each country reporting data contributes equally.

NOTE: The "high school completion" columns include International Standard Classification of Education (ISCED) levels 3 and 4, with the exception of ISCED level 3C short programs. (ISCED 3C short programs do not correspond to high school completion in the United States and are included in the "less than high school completion" columns in this table.) ISCED level 5B corresponds to the associate's degree in the United States in this table. Also included in the "associate's or higher degree" columns are the following higher level

degrees: ISCED 5A, first award, which corresponds to the bachelor's degree in the United States; ISCED 5A, second award, which corresponds to master's and first-professional degrees in the United States; and ISCED 6, which corresponds to doctor's degrees. For each country, the employment to population ratio of 25- to 64-year-olds is the number of persons in this age group who are employed as a percentage of the total civilian population in this age group.

SOURCE: Organization for Economic Cooperation and Development (OECD), *Education at a Glance, 2013*. (This table was prepared December 2013.)

Table 605.10. Gross domestic product per capita and public and private education expenditures per full-time-equivalent (FTE) student, by level of education and country: Selected years, 2005 through 2010

Country	Gross domestic product per capita					Elementary and secondary education expenditures per FTE student					Higher education expenditures per FTE student				
	2005	2007	2008	2009	2010	2005	2007	2008	2009	2010	2005	2007	2008	2009	2010
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Current dollars														
OECD average¹	\$28,772	\$33,452	\$33,886	\$33,206	\$33,471	\$6,751	\$7,410	\$8,180	\$8,632	\$8,501	\$11,358	\$12,442	\$13,391	\$13,707	\$13,211
Australia.....	33,983	37,615	39,532	39,971	40,801	7,142	7,590	7,814	9,139	9,803	14,579	14,726	15,043	16,074	15,142
Austria.....	34,107	36,839	39,849	38,834	40,411	9,436	9,959	10,994	11,681	11,693	14,775	15,039	15,043	14,257	15,007
Belgium.....	32,077	34,662	36,879	36,698	37,878	7,306	8,333	9,706	9,783	10,123	11,960	13,482	15,020	15,443	15,179
Canada.....	—	38,883	38,522	40,136	—	7,774 ²	8,388 ²	8,997 ²	9,774 ²	—	23,329 ^{3,4}	20,903 ³	20,903 ³	22,475 ³	—
Chile.....	12,635	—	14,106	14,578	15,107	2,099	2,089	2,245	2,635	2,935	6,873	6,292	6,829	6,829	6,863
Czech Republic.....	20,280	23,995	25,845	25,614	25,364	4,098	4,712	5,236	5,615	5,532	6,649	8,209	8,318	8,237	7,635
Denmark ⁵	33,626	36,326	39,494	38,299	40,600	8,997	9,448	10,429	11,094	11,404	14,959	16,466	17,634	18,556	18,977
Estonia.....	16,660	20,620	21,802	19,789	20,093	3,736	4,637	6,054	6,149	5,984	3,869	5,653 ⁴	6,022 ⁴	6,373	6,501
Finland.....	30,468	35,322	37,795	35,848	36,030	6,610	7,216	8,068	8,314	8,591	12,285	13,566	15,402	16,569	16,714
France.....	29,644	32,495	34,233	33,724	34,395	7,456	8,070	8,559	8,861	9,070	10,995	12,773	14,079	14,642	15,067
Germany.....	30,496	34,683	37,171	36,048	37,661	7,039	7,243	7,859	8,534	—	12,446	13,823	15,390	15,711	—
Greece.....	25,472	27,793	29,920	29,381	27,539	5,493 ²	—	—	—	—	6,130	—	—	—	—
Hungary ³	17,014	18,763	20,700	20,154	20,625	4,027	4,371	4,626	4,506	4,555	6,244	6,721	7,327	8,518	8,745
Iceland.....	35,571	36,325	39,029	36,718	35,509	8,815	8,949	9,745	9,309	8,592	9,474 ⁵	9,309	10,429	9,939	8,728
Ireland.....	38,061	44,381	42,644	39,750	41,000	6,411	7,791	8,915 ³	9,615 ³	9,638 ³	10,468	12,631	16,284 ³	16,420 ³	16,008 ³
Israel.....	21,474	26,444	27,690	27,454	26,552	5,041	5,345	5,780	5,464	5,692	10,919	11,435	12,568	11,214	10,730
Italy.....	27,750	31,016	33,271	32,397	32,110	7,410 ³	7,771 ³	9,071 ³	8,943 ³	8,489 ³	8,026 ³	8,673	9,553	9,562	9,580
Japan ⁵	30,290	33,635	33,902	32,324	35,238	7,343	8,012	8,301	8,502	9,168	12,326	14,201	14,890	15,957	16,015
Korea, Republic of.....	21,342	26,574	26,877	27,171	28,829	5,638	6,663	6,723	8,122	7,396	7,606	8,920	9,081	9,513	9,972
Luxembourg.....	69,984	82,456	89,732	82,972	84,672	15,930 ^{2,3}	15,579 ^{2,3}	16,909	18,018	19,050	—	—	—	—	—
Mexico.....	11,299	14,128	15,190	14,397	15,195	2,025	2,165	2,284	2,339	2,464	6,402	6,971	7,504	8,020	7,872
Netherlands.....	34,724	39,594	42,887	41,089	41,682	7,045	8,571	9,251	10,030	10,075	13,883	15,969	17,245	17,849	17,161
New Zealand.....	24,882	27,020	29,231	29,204	29,629	5,659	5,454	6,496	7,556	7,681	10,262	9,905	10,526	10,619	10,418
Norway.....	47,620	53,672	43,659	54,708	44,825	9,975	10,855	12,070	12,971	13,067	15,552	17,140	18,942	19,269	18,512
Poland ³	13,573	16,312	18,062	18,910	20,034	3,165	3,804	4,682	5,167	5,693	5,593	5,576	7,063	7,776	8,866
Portugal ³	19,967	22,638	24,962	24,935	25,519	5,646	5,898	6,276	7,288	7,419	8,787	10,398	10,373	10,481	10,578
Slovak Republic ⁶	15,881	20,270	23,205	22,620	23,194	2,740	3,296	4,006	4,781	5,066	5,783	5,736	6,560	6,758	6,904
Slovenia.....	23,043	26,557	29,241	27,150	26,649	7,065	7,267	8,555	8,670	8,505	8,573	8,559	9,263	9,311	9,693
Spain.....	27,270	31,469	33,173	32,146	31,574	6,411	7,671	8,522	8,818	8,479	10,089	12,548	13,366	13,614	13,373
Sweden.....	32,770	36,785	39,321	37,192	39,251	7,861	8,773	9,524	9,709	10,044	15,946	18,361	20,014	19,961	19,562
Switzerland ³	35,500	41,800	45,517	44,773	48,962	10,721	11,702	13,775	13,411	13,510	21,734	20,883	21,648	21,577	21,893
Turkey.....	—	—	14,963	14,442	15,775	—	—	—	—	2,020	—	—	—	—	—
United Kingdom.....	31,580	34,957	36,817	34,483	35,299	6,888	8,622	9,169	9,602	9,980	13,506	15,463	15,310	16,338	15,862
United States.....	41,674	46,434	46,901	45,087	46,548	9,771	10,882	11,107	11,818	11,826	23,435	25,373	27,499	27,066	25,576

See notes at end of table.

Table 605.10. Gross domestic product per capita and public and private education expenditures per full-time-equivalent (FTE) student, by level of education and country: Selected years, 2005 through 2010—Continued

Country	Gross domestic product per capita					Elementary and secondary education expenditures per FTE student					Higher education expenditures per FTE student				
	2005	2007	2008	2009	2010	2005	2007	2008	2009	2010	2005	2007	2008	2009	2010
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Constant 2012 dollars														
OECD average¹	\$33,826	\$37,042	\$36,135	\$35,536	\$35,242	\$7,936	\$8,205	\$8,723	\$9,238	\$8,951	\$13,353	\$13,777	\$14,280	\$14,669	\$13,911
Australia.....	39,952	41,652	42,156	42,777	42,960	8,396	8,404	8,332	9,781	10,322	17,140	16,307	16,041	17,202	15,943
Austria.....	40,098	40,792	42,494	41,560	42,549	11,093	11,027	11,723	12,500	12,312	17,370	16,653	16,042	15,258	15,801
Belgium.....	37,711	38,382	39,327	39,273	39,882	8,589	9,227	10,350	10,470	10,659	14,061	14,929	16,018	16,527	15,982
Canada.....	—	43,056	41,079	42,952	—	9,139 ²	9,288 ²	9,594 ²	10,460 ²	—	27,427 ^{3,4}	23,147 ³	22,291 ³	24,053 ³	—
Chile.....	14,854	—	15,042	15,601	15,906	2,467	2,313	2,394	2,820	3,091	8,080	6,967	7,282	7,308	7,226
Czech Republic.....	23,843	26,570	27,561	27,412	26,706	4,817	5,217	5,584	6,010	5,825	7,816	9,090	8,870	8,815	8,039
Denmark ⁵	39,532	40,224	42,116	40,987	42,749	10,577	10,462	11,121	11,873	12,007	17,586	18,233	18,804	19,858	19,981
Estonia.....	19,586	22,833	23,249	21,178	21,156	4,392	5,135	6,456	6,581	6,301	4,549	6,260 ⁴	6,422 ⁴	6,820	6,845
Finland.....	35,820	39,113	40,304	38,364	37,936	7,771	7,991	8,604	8,897	9,045	14,443	15,022	16,424	17,732	17,598
France.....	34,851	35,982	36,506	36,091	36,215	8,766	8,936	9,127	9,483	9,550	12,927	14,143	15,013	15,669	15,864
Germany.....	35,852	38,405	39,638	38,578	39,654	8,275	8,020	8,380	9,133	—	14,632	15,306	16,411	16,814	—
Greece.....	29,946	30,776	31,906	31,443	28,996	6,458 ²	—	—	—	—	7,207	—	—	—	—
Hungary ³	20,003	20,777	22,074	21,569	21,716	4,734	4,840	4,933	4,823	4,796	7,341	7,442	7,813	9,116	9,208
Iceland.....	41,819	40,223	41,619	39,295	37,388	10,363	9,909	10,391	9,962	9,046	11,138 ⁵	10,308	11,122	10,636	9,190
Ireland.....	44,746	49,144	45,474	42,540	43,170	7,537	8,627	9,507 ³	10,290 ³	10,148 ³	12,307	13,987	17,365 ³	17,572 ³	16,855 ³
Israel.....	25,246	29,281	29,528	29,381	27,957	5,926	5,919	6,164	5,847	5,993	12,837	12,663	13,403	12,001	11,298
Italy.....	32,624	34,344	35,479	34,671	33,809	8,711 ³	8,605 ³	9,673 ³	9,571 ³	8,938 ³	9,436 ³	9,604	10,188	10,233	10,087
Japan ⁵	35,611	37,244	36,153	34,593	37,103	8,633	8,872	8,852	9,098	9,653	14,491	15,726	15,878	17,077	16,862
Korea, Republic of.....	25,091	29,426	28,661	29,078	30,354	6,629	7,378	7,169	8,692	7,787	8,942	9,877	9,684	10,181	10,499
Luxembourg.....	82,276	91,305	95,688	88,796	89,152	18,728 ^{2,3}	17,251 ^{2,3}	18,032	19,282	20,058	—	—	—	—	—
Mexico.....	13,284	15,644	16,198	15,408	15,999	2,381	2,397	2,436	2,503	2,594	7,527	7,720	8,002	8,583	8,289
Netherlands.....	40,823	43,843	45,734	43,973	43,887	8,282	9,491	9,865	10,734	10,608	16,321	17,682	18,389	19,102	18,069
New Zealand.....	29,252	29,920	31,171	31,254	31,197	6,654	6,040	6,927	8,087	8,088	12,064	10,968	11,225	11,365	10,969
Norway.....	55,985	59,432	46,557	58,547	47,197	11,727	12,020	12,871	13,881	13,758	18,284	18,979	20,199	20,621	19,491
Poland ³	15,957	18,062	19,261	20,237	21,094	3,720	4,212	4,992	5,529	5,994	6,575	6,174	7,532	8,322	9,335
Portugal ³	23,474	25,068	26,619	26,686	26,869	6,637	6,531	6,692	7,800	7,812	10,331	11,514	11,061	11,216	11,138
Slovak Republic ⁶	18,670	22,445	24,745	24,207	24,421	3,221	3,649	4,272	5,116	5,334	6,799	6,352	6,995	7,232	7,269
Slovenia.....	27,091	29,407	31,182	29,055	28,059	8,306	8,046	9,123	9,279	8,955	10,079	9,477	9,878	9,965	10,206
Spain.....	32,060	34,846	35,375	34,402	33,244	7,537	8,495	9,087	9,437	8,927	11,861	13,895	14,254	14,569	14,081
Sweden.....	38,526	40,733	41,931	39,802	41,328	9,242	9,714	10,156	10,391	10,576	18,747	20,332	21,342	21,362	20,597
Switzerland ³	41,735	46,286	48,538	47,915	51,553	12,604	12,958	14,689	14,352	14,225	25,552	23,124	23,085	23,092	23,052
Turkey.....	—	—	15,956	15,456	16,610	—	—	—	—	2,127	—	—	—	—	—
United Kingdom.....	37,127	38,708	39,261	36,903	37,166	8,098	9,548	9,777	10,276	10,508	15,879	17,123	16,326	17,485	16,702
United States.....	48,994	51,417	50,014	48,252	49,011	11,487	12,049	11,844	12,647	12,452	27,551	28,096	29,325	28,966	26,929

—Not available.

¹Refers to the mean of the data values for all reporting OECD countries, to which each country reporting data contributes equally. The average includes all current OECD countries for which a given year's data are available, even if they were not members of OECD in that year.²Includes preprimary education.³Public institutions only.⁴Excludes occupation-specific education corresponding to that offered at the vocational associate's degree level in the United States.⁵Postsecondary non-higher-education included in both secondary and higher education.⁶Occupation-specific education corresponding to that offered at the vocational associate's degree level in the United States is included under elementary and secondary education instead of under higher education.

NOTE: Includes all expenditures by public and private education institutions (such as administration, instruction, ancillary services for students and families, and research and development) unless otherwise noted. Expenditures for International Standard Classification of Education (ISCED) level 4 (postsecondary non-higher-education) are included in elementary and secondary education unless otherwise noted. Data for Canada, France, Italy, Luxembourg, Portugal, and the United States do not include postsecondary non-higher-education. Data adjusted to U.S. dollars using the purchasing power parity (PPP) index. Constant dollars based on the Consumer Price Index, prepared by the Bureau of Labor Statistics, U.S. Department of Labor.

SOURCE: Organization for Economic Cooperation and Development (OECD), *Education at a Glance*, 2008 through 2013. (This table was prepared May 2013.)

Table 605.20. Public and private direct expenditures on education institutions as a percentage of gross domestic product, by level of education and country: Selected years, 1995 through 2010

Country	All institutions (including preprimary education and subsidies to households, not separately shown)								Elementary and secondary institutions									Higher education institutions								
	Public direct expenditures					Direct expenditures, 2010			Public direct expenditures					Direct expenditures, 2010				Public direct expenditures					Direct expenditures, 2010			
	1995	2000 ¹	2005 ¹	2008 ¹	2009 ¹	Public ¹	Private	Total	1995	2000 ¹	2005 ¹	2008 ¹	2009 ¹	Public ¹	Private	Total	1995	2000 ¹	2005 ¹	2008 ¹	2009 ¹	Public ¹	Private	Total		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		
OECD average ²	4.9	4.9	5.0	5.1	5.4	5.4	0.9	6.3	3.5	3.4	3.5	3.5	3.7	3.7	0.3	4.0	0.9	1.0	1.0	1.1	1.1	1.1	0.5	1.6		
Australia.....	4.5	4.6	4.3	3.7	4.5	4.6	1.5	6.1	3.2	3.7	3.4	3.0	3.6	3.7	0.6	4.3	1.2	0.8	0.8	0.7	0.7	0.8	0.9	1.6		
Austria.....	5.3	5.4 ³	5.2	5.2	5.7	5.6	0.2	5.8	3.8	3.7 ³	3.5	3.5	3.8	3.5	0.1	3.6	0.9	1.2 ³	1.2	1.2	1.4	1.5	0.1	1.5		
Belgium.....	5.0	5.1	5.8	6.3	6.4	6.4	0.2	6.6	3.4	3.4 ⁴	3.9	4.3	4.3	4.3	0.1	4.4	0.9	1.2 ⁴	1.2	1.3	1.4	1.4	0.1	1.4		
Canada.....	5.8	5.2	4.8	6.1	5.0	—	—	—	4.0	3.3 ⁵	3.3 ^{5,6}	3.6 ⁶	3.4 ⁶	—	—	—	1.5	1.6 ⁵	1.5 ⁵	2.5	1.5	—	—	—		
Chile.....	—	4.2	3.3	3.7	4.1	4.3	2.6	6.8	—	3.2	2.7	3.0	3.3	2.9	0.8	3.6	—	0.6	0.3	0.3	0.3	0.8	1.6	2.5		
Czech Republic.....	4.8	4.2	4.1	3.9	4.2	4.1	0.6	4.7	3.4	2.8 ⁴	2.7	2.5	2.6	2.6	0.3	2.8	0.7	0.8 ⁴	0.8	0.9	1.0	1.0	0.2	1.2		
Denmark.....	6.5	6.4 ³	6.8	6.5	7.5	7.6	0.4	8.0	4.2	4.1 ^{3,7}	4.4 ⁷	4.2 ⁷	4.7 ⁷	4.7 ⁷	0.1 ⁷	4.8 ⁷	1.3	1.5 ^{3,7}	1.6 ⁷	1.6 ⁷	1.8 ⁷	1.8 ⁷	0.1 ⁷	1.9 ⁷		
Estonia.....	—	—	4.7	5.5	5.9	5.6	0.4	6.0	—	—	3.5	3.8	4.1	3.9	0.1	3.9	—	—	0.9	1.1	1.3	1.3	0.3	1.6		
Finland.....	6.6	5.5	5.9	5.7	6.3	6.4	0.1	6.5	4.2	3.5	3.8	3.8	4.1	4.1	#	4.1	1.7	1.7	1.7	1.6	1.8	1.9	0.1	1.9		
France.....	5.8	5.7	5.6	5.5	5.8	5.8	0.5	6.3	4.1	4.0	3.8	3.7	3.8	3.8	0.3	4.1	1.0	1.0	1.1	1.2	1.3	1.3	0.2	1.5		
Germany.....	4.5	4.3	4.2	4.1	4.5	—	—	—	2.9	2.9	2.8	2.6	2.9	—	—	—	1.0	1.0	0.9	1.0	1.1	—	—	—		
Greece.....	3.7	3.7 ³	4.0	—	—	—	—	—	2.8	2.7 ^{3,6}	2.5 ⁶	—	—	—	—	—	0.8	0.9 ³	1.4	—	—	—	—	—		
Hungary.....	4.9	4.4	5.1	4.8	4.8	4.6	—	—	3.3	2.8	3.3	3.0	3.0	2.8	—	—	0.8	0.9	0.9	0.9	1.0	0.8	—	—		
Iceland.....	4.5	5.7 ³	7.2	7.2	7.3	7.0	0.7	7.7	3.4	4.6 ³	5.2 ⁷	4.9	5.0	4.7	0.2	4.9	0.7	0.8 ³	1.1 ⁷	1.2	1.2	1.1	0.1	1.2		
Ireland.....	4.7	4.1	4.3	5.2	6.0	6.0	0.5	6.4	3.3	2.9 ⁴	3.3	4.0	4.6	4.6	0.2	4.8	0.9	1.2 ⁴	1.0	1.2	1.4	1.3	0.3	1.6		
Israel.....	—	6.6	6.2	5.9	5.8	5.9	1.5	7.4	—	4.5	4.2	4.0	3.8	4.0	0.3	4.3	—	1.1	1.0	0.9	1.0	1.0	0.7	1.7		
Italy.....	4.5	4.5	4.3	4.5	4.5	4.3	0.4	4.7	3.2	3.2	3.2	3.2	3.3	3.1	0.1	3.2	0.7	0.7	0.6	0.8	0.8	0.8	0.2	1.0		
Japan.....	3.6	3.5	3.4	3.3	3.6	3.6	1.5	5.1	2.8	2.7 ⁷	2.6 ⁷	2.5 ⁷	2.7 ⁷	2.8 ⁷	0.2 ⁷	3.0 ⁷	0.4	0.5 ⁷	0.5 ⁷	0.5 ⁷	0.5 ⁷	0.5 ⁷	1.0 ⁷	1.5 ⁷		
Korea, Republic of.....	3.6	4.3	4.3	4.7	4.9	4.8	2.8	7.6	3.0	3.3	3.4	3.4	3.6	3.4	0.9	4.2	0.3	0.6	0.6	0.7	0.7	1.9	2.6			
Luxembourg.....	4.3	—	—	—	—	—	—	—	4.2	—	3.7 ⁶	2.8	3.2	3.4	0.1	3.5	0.1	—	—	—	—	—	—	—		
Mexico.....	4.6	4.7	5.3	4.7	5.0	5.1	1.1	6.2	3.4	3.3	3.7	3.1	3.3	3.4	0.6	4.0	0.8	0.8	0.9	0.9	1.0	1.0	0.4	1.4		
Netherlands.....	4.6	4.3	4.6	4.8	5.3	5.4	0.9	6.3	3.0	3.0	3.3	3.3	3.7	3.7	0.4	4.1	1.1	1.0	1.0	1.1	1.2	1.3	0.5	1.7		
New Zealand.....	5.3	5.8	5.2	5.4	6.1	6.0	1.3	7.3	3.8	4.6	4.0	3.8	4.5	4.4	0.6	5.1	1.1	0.9	0.9	1.1	1.1	1.0	0.5	1.6		
Norway.....	6.8	5.8	5.7	7.3	6.1	7.5	—	—	4.1	3.6	3.8	5.0	4.2	5.1	—	—	1.5	1.2	1.3	1.6	1.3	1.6	0.1	1.7		
Poland.....	5.2	5.2 ³	5.4	5.0	5.0	5.0	0.8	5.8	3.3	3.7 ³	3.7	3.4	3.5	3.4	0.2	3.7	0.8	0.8 ³	1.2	1.0	1.1	1.0	0.4	1.5		
Portugal.....	5.4	5.6 ³	5.3	4.7	5.5	5.4	0.4	5.8	4.1	4.1 ³	3.8	3.4	4.0	3.9	#	3.9	1.0	1.0 ³	0.9	0.9	1.0	1.0	0.4	1.5		
Slovak Republic.....	4.6	4.0 ³	3.7	3.5	4.1	4.0	0.6	4.6	—	2.7 ^{3,4,8}	2.5 ⁸	2.2 ⁸	2.7 ^{7,8}	2.8 ⁸	0.3 ⁸	3.1 ⁸	—	0.7 ^{3,4,8}	0.7 ⁸	0.7 ⁸	0.7 ^{7,8}	0.7 ⁸	0.3 ⁸	0.9 ⁸		
Slovenia.....	—	—	5.3	4.8	5.3	5.2	0.7	5.9	—	—	3.9	3.4	3.6	3.6	0.3	3.9	—	—	1.0	1.0	1.1	1.1	0.2	1.3		
Spain.....	4.8	4.3	4.1	4.5	4.9	4.8	0.8	5.6	3.5	3.1	2.7	2.9	3.1	3.0	0.3	3.3	0.8	0.9	0.9	1.0	1.1	1.1	0.3	1.3		
Sweden.....	6.6	6.3	6.2	6.1	6.6	6.3	0.2	6.5	4.4	4.4 ⁴	4.2	4.0	4.2	4.0	#	4.0	1.6	1.5 ⁴	1.5	1.4	1.6	1.6	0.2	1.8		
Switzerland.....	5.5	5.3	5.6	5.3	5.5	5.2	—	—	4.1	3.8	3.9	3.8	3.8	3.6	0.5	4.0	1.1	1.2	1.4	1.3	1.4	1.3	—	—		
Turkey.....	2.2	3.4 ³	—	—	—	—	—	—	1.4	2.4 ³	—	—	—	2.5	—	—	0.8	1.0 ³	—	—	—	—	—	—		
United Kingdom.....	4.6	4.5	5.0	5.1	5.3	5.9	0.6	6.5	3.8	3.4	3.8	4.2	4.5	4.8	#	4.8	0.7	0.7	0.9	0.6	0.6	0.7	0.6	1.4		
United States.....	5.0	4.6	4.9	5.0	5.3	5.1	2.2	7.3	3.5	3.5 ⁵	3.6	3.7	3.8	3.7	0.3	4.0	1.1	0.8 ⁵	1.0	1.0	1.1	1.0	1.8	2.8		
Other reporting countries																										
Brazil.....	—	—	4.4	5.3	5.5	5.6	—	—	—	—	3.3	4.1	4.3	4.3	—	—	—	—	0.8	0.8	0.8	0.9	—	—		
Russian Federation.....	3.4	3.0 ³	3.8	4.1	4.7	4.1	0.8	4.9	1.9	1.7	1.9	2.0	2.3	2.0	0.1	2.1	0.7	0.5	0.8	0.9	1.2	1.0	0.6	1.6		

—Not available.

#Rounds to zero.

¹Unless otherwise noted, includes public subsidies to households for payments to education institutions and direct expenditures on education institutions from international sources.²Refers to the mean of the data values for all reporting Organization for Economic Cooperation and Development (OECD) countries, to which each country reporting data contributes equally. The average includes all current OECD countries for which a given year's data are available, even if they were not members of OECD in that year.³Public subsidies to households not included in public expenditures.⁴Direct expenditures on education institutions from international sources exceed 1.5 percent of all public expenditures.⁵Postsecondary non-higher-education included in higher education.⁶Preprimary education (for children ages 3 and older) included in elementary and secondary education.⁷Postsecondary non-higher-education included in both secondary and higher education.⁸Occupation-specific education corresponding to that offered at the vocational associate's degree level in the United States is included in secondary education.

NOTE: Public direct expenditures on education include both amounts spent directly by governments to hire educational personnel and to procure other resources, and amounts provided by governments to public or private institutions. Private direct expenditures exclude public subsidies that are used for payments to education institutions. Postsecondary non-higher-education is included in elementary and secondary education unless otherwise noted. All institutions total includes expenditures that could not be reported by level of education. Some data have been revised from previously published figures. Detail may not sum to totals because of rounding.

SOURCE: Organization for Economic Cooperation and Development (OECD), Online Education Database; and *Education at a Glance*, 2008 through 2013. U.S. Department of Education, National Center for Education Statistics, *International Education Indicators: A Time Series Perspective, 1985–1995* (NCES 2000-021). (This table was prepared May 2013.)

CHAPTER 7

Libraries and Technology

This chapter presents statistics on elementary and secondary school libraries, college and university libraries (including institution-level information for the 60 largest college libraries in the country), and public libraries. It contains data on library collections, staff, and expenditures, as well as library usage. The chapter ends with a table on internet usage among persons of various racial/ethnic groups, age groups, educational attainment levels, and income levels.

Libraries

Among public schools that had a library in 2011–12, the average number of library staff per school was 1.8, including 0.9 certified library/media specialists (table 701.10). On average, public school libraries had larger numbers of books on a per student basis in 2011–12 (2,188 per 100 students) than in 1999–2000 (1,803 per 100 students), 2003–04 (1,891 per 100 students), and 2007–08 (2,015 per 100 students). In 2011–12, public elementary school libraries had larger holdings than public secondary school libraries on a per student basis (2,570 books per 100 students, compared with 1,474 books per 100 students).

At degree-granting postsecondary institutions, library operating expenditures per full-time-equivalent (FTE) student were 1 percent higher in 2001–02 than in 1991–92, after adjustment for inflation (table 701.40). From 2001–02 to 2011–12, library operating expenditures per FTE student dropped 25 percent in inflation-adjusted dollars. Overall, there was a net decrease of 24 percent in library operating expenditures per FTE student between 1991–92 and 2011–12. In 2011–12, library operating expenditures per FTE student averaged \$441 (in current dollars) across all degree-granting institutions. The amount varied widely by institution control, however. Library operating expenditures averaged \$844 per FTE student attending a private nonprofit institution in 2011–12, compared with \$372 per FTE student attending a public institution, and \$78 per FTE student attending a private for-profit institution. In 2011–12, the

average number of volumes per FTE student also differed for public institutions (61 volumes), private nonprofit institutions (128 volumes), and private for-profit institutions (4 volumes). Across all degree-granting institutions, the average number of volumes per FTE student in 2011–12 was 69, which was 4 percent less than in 1991–92. The calculations of library operating expenditures and number of volumes per FTE student include both institutions with libraries and those without libraries. In 2011–12, there were libraries at 81 percent of degree-granting institutions overall, 95 percent of public institutions, 88 percent of private nonprofit institutions, and 55 percent of private for-profit institutions.

In 2010, there were 8,951 public libraries in the United States with a total of 808 million books and serial volumes (table 701.60). The annual number of visits per capita—that is, per resident of the areas served by the libraries—was 5.3, and the annual number of reference transactions per capita was 1.0.

Computer and Internet Use

In 2012, 75 percent of the population age 3 and over used the Internet (table 702.10). Comparing the White, Black, and Hispanic populations age 3 and over, the percentage of internet users was highest among Whites (79 percent), followed by Blacks (68 percent), and then Hispanics (62 percent). The percentage of internet users in the population age 3 and over generally increased with higher family income levels. For example, 76 percent of people with family incomes from \$40,000 to \$49,999 used the Internet, compared to 91 percent of people with family incomes of \$100,000 or more. Among persons age 15 and over, the percentage of internet users tended to increase with higher levels of educational attainment. For example, 55 percent of persons who had not completed high school used the Internet, compared with 66 percent of those who had completed only a high school diploma or equivalent and 93 percent of those with a bachelor's or higher degree.

Table 701.10. Selected statistics on public school libraries/media centers, by level of school: Selected years, 1999–2000 through 2011–12
[Standard errors appear in parentheses]

Selected statistic	1999–2000	2003–04	2007–08				2011–12			
			Total	Elementary	Secondary	Combined elementary/secondary	Total	Elementary	Secondary	Combined elementary/secondary
1	2	3	4	5	6	7	8	9	10	11
Number of schools with libraries/media centers	77,300 (421)	78,300 (548)	81,900 (634)	59,700 (492)	17,800 (414)	4,400 (239)	81,200 (510)	58,000 (418)	17,100 (357)	6,100 (373)
Average number of staff per library/media center	1.89 (0.018)	1.76 (0.014)	1.72 (0.017)	1.65 (0.019)	2.04 (0.039)	1.42 (0.057)	1.77 (0.017)	1.72 (0.020)	1.93 (0.027)	1.76 (0.056)
Certified library/media specialists	0.81 (0.007)	0.79 (0.009)	0.78 (0.011)	0.73 (0.013)	0.98 (0.019)	0.66 (0.033)	0.90 (0.012)	0.88 (0.014)	0.99 (0.017)	0.88 (0.031)
Full-time	0.65 (0.007)	0.65 (0.009)	0.66 (0.010)	0.61 (0.012)	0.88 (0.018)	0.49 (0.032)	0.71 (0.010)	0.67 (0.012)	0.84 (0.017)	0.69 (0.029)
Part-time	0.16 (0.006)	0.14 (0.007)	0.13 (0.007)	0.13 (0.010)	0.10 (0.009)	0.18 (0.020)	0.20 (0.008)	0.21 (0.010)	0.15 (0.010)	0.19 (0.020)
Other professional staff	0.17 (0.007)	0.19 (0.008)	0.22 (0.010)	0.22 (0.013)	0.21 (0.021)	0.24 (0.027)	0.19 (0.007)	0.18 (0.009)	0.17 (0.014)	0.27 (0.026)
Full-time	0.12 (0.005)	0.13 (0.007)	0.13 (0.008)	0.13 (0.010)	0.14 (0.017)	0.15 (0.022)	0.12 (0.006)	0.11 (0.007)	0.13 (0.013)	0.16 (0.022)
Part-time	0.06 (0.004)	0.05 (0.005)	0.08 (0.007)	0.08 (0.009)	0.07 (0.013)	0.08 (0.017)	0.07 (0.005)	0.07 (0.007)	0.05 (0.005)	0.11 (0.014)
Other paid employees	0.91 (0.014)	0.78 (0.011)	0.72 (0.013)	0.70 (0.016)	0.86 (0.027)	0.51 (0.036)	0.68 (0.011)	0.66 (0.012)	0.76 (0.021)	0.61 (0.040)
Full-time	0.49 (0.008)	0.46 (0.009)	0.43 (0.013)	0.39 (0.016)	0.60 (0.022)	0.27 (0.028)	0.40 (0.008)	0.37 (0.009)	0.52 (0.017)	0.39 (0.031)
Part-time	0.41 (0.014)	0.33 (0.012)	0.29 (0.011)	0.31 (0.014)	0.26 (0.018)	0.24 (0.028)	0.28 (0.009)	0.29 (0.012)	0.24 (0.012)	0.22 (0.027)
Percent of libraries/media centers with certain media equipment										
Automated catalog	72.8 (0.69)	82.7 (0.66)	87.2 (0.71)	87.5 (0.94)	90.6 (1.08)	69.8 (2.88)	88.3 (0.49)	89.1 (0.60)	90.3 (0.78)	74.4 (2.16)
Automated circulation system	74.4 (0.65)	86.9 (0.61)	89.5 (0.68)	89.9 (0.87)	92.6 (0.98)	72.4 (3.15)	90.3 (0.47)	91.7 (0.59)	90.1 (0.75)	77.8 (2.17)
Media retrieval system ¹	— (†)	— (†)	34.9 (1.05)	35.9 (1.33)	35.1 (1.66)	20.6 (2.32)	32.5 (0.76)	33.6 (0.99)	32.3 (0.91)	22.4 (1.92)
Connection to Internet	90.1 (0.57)	95.1 (0.35)	96.7 (0.40)	96.5 (0.51)	98.6 (0.51)	91.6 (1.90)	95.9 (0.34)	96.2 (0.46)	97.3 (0.49)	89.6 (1.82)
Digital video disc (DVD) player/video cassette recorder (VCR)	— (†)	87.8 (0.60)	87.2 (0.77)	86.7 (1.02)	89.6 (1.00)	84.5 (2.20)	83.2 (0.76)	82.8 (0.98)	86.7 (0.76)	77.7 (2.00)
Disability assistance technologies, such as TDD	— (†)	11.9 (0.50)	23.9 (1.05)	23.0 (1.33)	26.4 (1.34)	25.9 (2.76)	31.0 (0.75)	29.9 (0.94)	34.3 (1.02)	31.9 (1.95)
Percent of libraries/media centers with certain services										
Students permitted to check out laptops	— (†)	— (†)	27.5 (1.02)	26.9 (1.27)	29.8 (1.34)	26.1 (2.57)	40.2 (0.69)	39.3 (0.85)	42.4 (1.08)	41.8 (2.67)
Staff permitted to check out laptops	— (†)	— (†)	45.9 (1.07)	45.2 (1.35)	50.1 (1.50)	38.5 (2.85)	54.3 (0.85)	53.9 (0.99)	55.5 (1.23)	54.2 (2.43)
Number of library computer workstations per 100 students	— (†)	2.3 (0.04)	2.6 (0.05)	2.5 (0.07)	2.9 (0.06)	3.0 (0.17)	3.1 (0.05)	2.8 (0.06)	3.6 (0.08)	3.3 (0.23)
Number of holdings per 100 students at the end of the school year ²										
Books (number of volumes)	1,803 (19.7)	1,891 (45.1)	2,015 (30.5)	2,316 (40.2)	1,432 (36.6)	2,439 (132.3)	2,188 (42.4)	2,570 (58.5)	1,474 (24.7)	2,066 (87.3)
Audio and video materials	59 (0.9)	80 (3.7)	90 (3.8)	93 (5.6)	81 (5.2)	107 (13.3)	81 (2.4)	85 (3.3)	71 (2.9)	97 (8.3)
Number of additions per 100 students during the school year ²										
Books (number of volumes)	— (†)	99.3 (2.08)	95.3 (2.21)	113.3 (3.26)	62.1 (2.67)	103.4 (7.41)	89.4 (3.47)	104.8 (5.45)	58.9 (2.08)	92.5 (6.54)
Audio and video materials	— (†)	5.1 (0.19)	5.4 (0.49)	5.9 (0.77)	4.5 (0.41)	5.7 (0.84)	4.3 (0.37)	3.8 (0.32)	4.2 (0.70)	8.2 (3.28)
Expenditures for library/media materials per pupil ³ in current dollars										
Total ³	\$23.37 (0.438)	\$16.24 (0.322)	\$16.11 (0.461)	\$16.18 (0.591)	\$15.90 (0.647)	\$17.00 (1.216)	\$16.00 (0.691)	\$16.48 (1.099)	\$14.80 (0.584)	\$17.26 (1.215)
Books	9.97 (0.153)	10.99 (0.299)	11.40 (0.291)	11.99 (0.389)	10.26 (0.504)	12.10 (1.094)	10.28 (0.343)	10.73 (0.480)	9.41 (0.526)	10.27 (0.830)
Audio and video materials	1.66 (0.032)	1.14 (0.045)	1.08 (0.055)	1.06 (0.088)	1.11 (0.054)	1.16 (0.152)	0.84 (0.072)	0.80 (0.113)	0.89 (0.062)	0.89 (0.131)
Current serial subscriptions	1.26 (0.016)	1.38 (0.025)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)
Electronic subscriptions	0.81 (0.018)	0.88 (0.033)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)
Expenditures for library/media materials per pupil ³ in constant 2012–13 dollars ⁴										
Total ³	\$31.94 (0.599)	\$20.19 (0.400)	\$17.60 (0.503)	\$17.68 (0.645)	\$17.38 (0.707)	\$18.57 (1.329)	\$16.27 (0.703)	\$16.76 (1.117)	\$15.04 (0.593)	\$17.54 (1.235)
Books	13.62 (0.209)	13.66 (0.371)	12.46 (0.319)	13.10 (0.425)	11.22 (0.551)	13.23 (1.196)	10.45 (0.349)	10.91 (0.488)	9.57 (0.534)	10.44 (0.844)
Audio and video materials	2.27 (0.044)	1.42 (0.055)	1.18 (0.061)	1.16 (0.096)	1.21 (0.059)	1.27 (0.166)	0.85 (0.074)	0.81 (0.115)	0.91 (0.063)	0.91 (0.133)
Current serial subscriptions	1.72 (0.022)	1.72 (0.031)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)
Electronic subscriptions	1.11 (0.025)	1.10 (0.041)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)

—Not available.

†Not applicable.

¹Interpret data with caution. The coefficient of variation (CV) for this estimate is between 30 percent and 50 percent.

²Centralized video distribution equipment with a scheduling and control server that telecasts video to classrooms.

³Holdings, additions, and expenditures are from the prior school year, while enrollment counts are from the current school year.

⁴Includes other expenditures not separately shown.

⁴Constant dollars based on the Consumer Price Index, prepared by the Bureau of Labor Statistics, U.S. Department of Labor, adjusted to a school-year basis.

NOTE: 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 Library Media Center Questionnaire," 1999–2000, 2003–04, 2007–08, and 2011–12; and "Charter School Questionnaire," 1999–2000. (This table was prepared December 2013.)

Table 701.20. Selected statistics on public school libraries/media centers, by level and enrollment size of school: 2011–12
 [Standard errors appear in parentheses]

Selected statistic	All public school libraries/ media centers	Elementary school enrollment size					Secondary school enrollment size				
		Total	Less than 150	150 to 499	500 to 749	750 or more	Total	Less than 500	500 to 749	750 to 1,499	1,500 or more
1	2	3	4	5	6	7	8	9	10	11	12
Number of schools with libraries/media centers	81,200 (510)	58,000 (418)	3,000 (308)	29,700 (658)	16,600 (591)	8,600 (426)	17,100 (357)	6,400 (289)	3,100 (170)	4,600 (188)	3,000 (160)
Average number of staff per library/media center	1.77 (0.017)	1.72 (0.020)	1.76 (0.226)	1.66 (0.022)	1.75 (0.032)	1.87 (0.040)	1.93 (0.027)	1.58 (0.041)	1.76 (0.050)	2.07 (0.045)	2.63 (0.062)
Certified library/media specialists	0.90 (0.012)	0.88 (0.014)	0.90 (0.176)	0.86 (0.016)	0.88 (0.019)	0.92 (0.024)	0.99 (0.017)	0.78 (0.029)	0.95 (0.029)	1.10 (0.024)	1.32 (0.039)
Full-time.....	0.71 (0.010)	0.67 (0.012)	0.47 ! (0.171)	0.61 (0.015)	0.74 (0.016)	0.81 (0.022)	0.84 (0.017)	0.59 (0.029)	0.81 (0.025)	0.99 (0.021)	1.21 (0.037)
Part-time.....	0.20 (0.008)	0.21 (0.010)	0.44 (0.054)	0.26 (0.014)	0.14 (0.014)	0.11 (0.017)	0.15 (0.010)	0.19 (0.018)	0.15 (0.025)	0.11 (0.019)	0.12 (0.018)
Other professional staff.....	0.19 (0.007)	0.18 (0.009)	0.27 ! (0.081)	0.18 (0.014)	0.18 (0.020)	0.16 (0.019)	0.17 (0.014)	0.21 (0.027)	0.19 (0.030)	0.14 (0.015)	0.14 (0.019)
Full-time.....	0.12 (0.006)	0.11 (0.007)	0.19 ! (0.076)	0.10 (0.010)	0.09 (0.011)	0.13 (0.020)	0.13 (0.013)	0.14 (0.025)	0.12 (0.030)	0.11 (0.014)	0.13 (0.019)
Part-time.....	0.07 (0.005)	0.07 (0.007)	0.08 ! (0.034)	0.08 (0.010)	0.09 (0.016)	0.03 ! (0.009)	0.05 (0.005)	0.07 (0.013)	0.07 (0.017)	0.02 (0.006)	0.02 ! (0.005)
Other paid employees.....	0.68 (0.011)	0.66 (0.012)	0.59 (0.063)	0.61 (0.016)	0.69 (0.026)	0.79 (0.035)	0.76 (0.021)	0.59 (0.032)	0.62 (0.036)	0.84 (0.032)	1.16 (0.049)
Full-time.....	0.40 (0.008)	0.37 (0.009)	0.29 (0.048)	0.32 (0.013)	0.39 (0.017)	0.51 (0.027)	0.52 (0.017)	0.35 (0.024)	0.39 (0.030)	0.61 (0.028)	0.87 (0.044)
Part-time.....	0.28 (0.009)	0.29 (0.012)	0.30 (0.061)	0.29 (0.015)	0.30 (0.022)	0.28 (0.029)	0.24 (0.012)	0.24 (0.020)	0.23 (0.026)	0.22 (0.024)	0.29 (0.027)
Percent of libraries/media centers with certain media equipment											
Automated catalog.....	88.3 (0.49)	89.1 (0.60)	75.2 (4.05)	88.0 (0.97)	90.0 (1.14)	96.2 (0.81)	90.3 (0.78)	80.4 (1.72)	93.3 (1.72)	97.2 (0.73)	97.1 (0.82)
Automated circulation system.....	90.3 (0.47)	91.7 (0.59)	77.0 (4.30)	91.4 (0.80)	93.0 (1.07)	95.7 (0.97)	90.1 (0.75)	81.2 (1.60)	94.1 (1.62)	96.2 (0.94)	95.3 (1.00)
Media retrieval system ¹	32.5 (0.76)	33.6 (0.99)	15.9 (3.35)	27.3 (1.48)	39.2 (1.77)	51.1 (2.24)	32.3 (0.91)	25.2 (1.89)	36.8 (2.56)	38.7 (1.99)	32.7 (2.19)
Connection to Internet.....	95.9 (0.34)	96.2 (0.46)	88.6 (3.28)	95.7 (0.66)	97.3 (0.79)	98.5 (0.64)	97.3 (0.49)	93.9 (1.18)	98.4 (0.67)	99.4 (0.33)	100.0 (†)
Digital video disc (DVD) player/video cassette recorder (VCR).....	83.2 (0.76)	82.8 (0.98)	66.0 (5.70)	83.1 (1.33)	84.3 (1.49)	84.6 (2.02)	86.7 (0.76)	83.9 (1.50)	89.5 (1.82)	88.4 (1.23)	87.0 (1.88)
Disability assistance technologies, such as TDD.....	31.0 (0.75)	29.9 (0.94)	20.7 (3.54)	26.8 (1.33)	33.2 (2.00)	37.4 (2.25)	34.3 (1.02)	30.8 (2.29)	34.6 (2.53)	36.8 (2.17)	37.6 (2.67)
Percent of libraries/media centers with certain services											
Students permitted to check out laptops.....	40.2 (0.69)	39.3 (0.85)	31.7 (4.21)	38.5 (1.52)	39.7 (2.01)	44.1 (2.02)	42.4 (1.08)	42.7 (2.07)	40.3 (2.72)	44.3 (2.12)	40.9 (2.77)
Staff permitted to check out laptops.....	54.3 (0.85)	53.9 (0.99)	38.9 (4.84)	51.8 (1.65)	57.5 (1.89)	59.6 (2.20)	55.5 (1.23)	52.6 (2.24)	55.6 (2.76)	58.1 (2.31)	57.8 (2.37)
Number of library computer workstations per 100 students.....	3.1 (0.05)	2.8 (0.06)	12.0 (1.49)	3.7 (0.13)	2.3 (0.09)	2.1 (0.07)	3.6 (0.08)	7.2 (0.35)	4.4 (0.16)	3.5 (0.09)	2.6 (0.12)
Number of holdings per 100 students at the end of the school year ²											
Books (number of volumes).....	2,188 (42.4)	2,570 (58.5)	9,505 (1472.0)	3,273 (115.0)	2,366 (101.2)	1,692 (53.5)	1,474 (24.7)	3,252 (98.6)	1,908 (74.2)	1,338 (21.2)	976 (20.9)
Audio and video materials.....	81 (2.4)	85 (3.3)	201 (58.1)	100 (6.6)	80 (4.5)	67 (5.9)	71 (2.9)	131 (8.7)	83 (7.3)	73 (5.4)	50 (4.0)
Number of additions per 100 students during the school year ²											
Books (number of volumes).....	89.4 (3.47)	104.8 (5.45)	423.0 (83.50)	126.3 (6.91)	99.5 (12.14)	73.4 (4.29)	58.9 (2.08)	124.0 (9.17)	77.5 (5.52)	50.0 (2.54)	43.0 (3.70)
Audio and video materials.....	4.3 (0.37)	3.8 (0.32)	10.6 ! (4.33)	4.7 (0.50)	3.2 (0.29)	3.2 (0.79)	4.2 (0.70)	5.8 (0.66)	4.3 (0.55)	3.5 (0.67)	4.5 ! (1.50)
Total expenditures for library/media materials per pupil ^{2,3}	\$16.00 (0.691)	\$16.48 (1.099)	\$46.34 (7.286)	\$20.40 (1.625)	\$15.81 (2.409)	\$11.31 (0.649)	\$14.80 (0.584)	\$27.69 (2.135)	\$18.59 (2.051)	\$13.48 (0.571)	\$11.26 (1.169)
Books.....	10.28 (0.343)	10.73 (0.480)	32.08 (5.256)	12.82 (0.566)	9.83 (1.001)	8.47 (0.505)	9.41 (0.526)	16.28 (1.284)	12.55 (2.077)	8.06 (0.451)	7.70 (1.025)
Audio and video materials.....	0.84 (0.072)	0.80 (0.113)	1.02 (0.257)	0.80 (0.074)	1.00 (0.294)	0.56 (0.064)	0.89 (0.062)	1.50 (0.238)	0.79 (0.072)	0.88 (0.080)	0.77 (0.113)

†Not applicable.

!Interpret data with caution. The coefficient of variation (CV) for this estimate is between 30 percent and 50 percent.

¹Centralized video distribution equipment with a scheduling and control server that telecasts video to classrooms.²Holdings, additions, and expenditures are from the prior school year, while enrollment counts are from the current school year.³Includes other expenditures not separately shown.

NOTE: Total includes combined elementary/secondary schools not separately shown. 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 Library Media Center Questionnaire," 2011–12. (This table was prepared December 2013.)

Table 701.30. Selected statistics on public school libraries/media centers, by state: 2011–12
[Standard errors appear in parentheses]

State	Percent of libraries/media centers offering selected services/equipment							Average number of staff per library/media center ²	Books (number of volumes) held at end of year per 100 students ³	Books (number of volumes) acquired during year per 100 students ³	Total expenditure for materials per student ³	Number of library computer workstations per 100 students
	Automated catalog	Automated circulation system	Laptops for student use outside of library/media center	Laptops for staff use outside of library/media center	Media retrieval system ¹	Connection to the Internet	DVD player/VCR					
1	2	3	4	5	6	7	8	9	10	11	12	13
United States	88.3 (0.49)	90.3 (0.47)	40.2 (0.69)	54.3 (0.85)	32.5 (0.76)	95.9 (0.34)	83.2 (0.76)	1.8 (0.02)	2,188 (42.4)	89 (3.5)	\$16.00 (0.691)	3.1 (0.05)
Alabama	96.0 (1.59)	98.5 (0.74)	46.7 (4.48)	59.9 (3.98)	29.6 (3.44)	97.2 (1.38)	95.4 (1.47)	1.6 (0.05)	2,114 (117.4)	48 (4.0)	7.31 (0.630)	2.4 (0.13)
Alaska	63.1 (5.91)	58.0 (6.01)	50.6 (5.32)	46.2 (5.49)	10.0 (3.22)	79.7 (6.31)	69.9 (6.51)	1.2 (0.11)	5,077 (351.4)	190 (29.7)	25.19 (3.742)	5.9 (0.66)
Arizona	77.5 (5.11)	78.5 (4.74)	33.0 (4.44)	51.4 (3.89)	35.2 (3.94)	88.7 (3.97)	78.8 (4.58)	1.5 (0.09)	1,988 (97.3)	57 (7.8)	9.60 (1.505)	2.7 (0.15)
Arkansas	97.4 (1.15)	97.4 (1.15)	29.5 (3.73)	48.1 (5.16)	30.6 (4.85)	100.0 (†)	94.2 (2.46)	1.8 (0.10)	1,880 (102.6)	96 (9.5)	16.00 (1.328)	2.7 (0.27)
California	78.5 (3.00)	82.5 (2.27)	20.8 (2.96)	40.7 (4.08)	13.1 (2.55)	93.6 (1.77)	58.9 (4.36)	1.5 (0.05)	2,065 (161.6)	75 (13.4)	10.25 (2.611)	2.2 (0.17)
Colorado	93.2 (3.07)	88.9 (3.73)	52.7 (4.25)	64.5 (4.58)	34.7 (4.91)	98.2 (0.90)	91.1 (2.64)	1.8 (0.10)	2,101 (137.0)	89 (8.4)	11.23 (1.648)	4.3 (0.30)
Connecticut	84.5 (4.76)	84.1 (4.79)	46.5 (7.41)	61.1 (6.05)	21.5 (4.98)	96.9 (2.11)	86.6 (3.83)	2.0 (0.08)	2,405 (105.1)	111 (29.0)	17.01 (1.330)	4.8 (0.46)
Delaware	95.1 (1.69)	97.1 (1.57)	41.6 (5.58)	48.6 (5.83)	24.4 (5.13)	98.2 (1.45)	81.4 (4.88)	1.2 (0.07)	2,835 (752.6)	61 (6.0)	9.41 (0.690)	3.0 (0.25)
District of Columbia	†	†	†	†	†	†	†	†	†	†	†	†
Florida	93.9 (2.05)	91.4 (2.67)	40.5 (4.01)	70.2 (4.51)	73.9 (3.17)	97.4 (0.94)	89.6 (2.88)	1.6 (0.05)	1,904 (114.0)	68 (5.9)	10.98 (1.115)	2.6 (0.11)
Georgia	96.3 (1.26)	98.2 (0.78)	51.2 (4.92)	78.7 (3.79)	73.1 (4.13)	99.3 (0.37)	97.6 (1.38)	2.0 (0.06)	1,909 (81.2)	85 (7.8)	13.06 (0.806)	2.3 (0.16)
Hawaii	†	†	†	†	†	†	†	†	†	†	†	†
Idaho	75.5 (5.06)	85.6 (3.70)	9.9 (2.35)	22.1 (4.21)	24.5 (4.39)	97.4 (1.81)	81.1 (6.08)	1.6 (0.12)	2,378 (179.4)	64 (6.9)	8.45 (0.954)	3.0 (0.22)
Illinois	80.3 (3.31)	81.6 (3.25)	39.4 (4.92)	48.1 (4.94)	15.2 (2.39)	94.9 (2.41)	79.9 (4.00)	2.1 (0.21)	2,453 (206.1)	110 (17.5)	20.31 (3.342)	3.6 (0.27)
Indiana	89.7 (3.52)	88.9 (4.46)	33.2 (4.58)	50.2 (5.73)	31.7 (5.41)	96.9 (1.75)	89.6 (3.38)	2.0 (0.09)	2,486 (142.5)	84 (7.5)	14.54 (1.057)	2.9 (0.27)
Iowa	94.5 (2.53)	95.8 (1.94)	59.5 (4.38)	66.3 (4.73)	26.5 (5.18)	98.0 (1.26)	86.4 (3.45)	2.3 (0.09)	2,603 (143.2)	101 (9.8)	14.44 (1.345)	5.8 (0.59)
Kansas	92.2 (4.50)	99.2 (0.40)	58.0 (4.86)	58.2 (5.34)	28.3 (4.63)	93.9 (3.36)	97.7 (1.27)	2.0 (0.09)	3,564 (259.0)	101 (14.2)	22.42 (5.432)	4.2 (0.43)
Kentucky	91.0 (2.31)	93.0 (2.16)	34.2 (4.76)	51.3 (4.59)	56.3 (4.89)	95.0 (2.02)	86.6 (3.27)	1.5 (0.08)	2,026 (91.2)	96 (8.4)	17.68 (1.388)	3.2 (0.14)
Louisiana	89.3 (4.21)	86.9 (3.53)	48.4 (5.33)	66.8 (5.40)	31.5 (5.98)	98.1 (1.48)	85.9 (4.22)	1.4 (0.11)	1,951 (119.4)	66 (7.2)	17.58 (4.543)	3.5 (0.31)
Maine	85.6 (4.05)	88.6 (3.44)	48.1 (4.85)	53.1 (4.18)	11.3 (3.20)	84.7 (3.91)	75.8 (4.94)	1.7 (0.10)	3,393 (283.8)	109 (9.9)	22.60 (1.615)	2.6 (0.22)
Maryland	†	†	†	†	†	†	†	†	†	†	†	†
Massachusetts	68.1 (4.03)	70.9 (4.42)	33.6 (4.95)	42.6 (5.18)	20.0 (4.09)	96.8 (1.82)	84.5 (3.77)	1.3 (0.10)	1,664 (121.0)	61 (7.5)	13.79 (2.749)	3.4 (0.26)
Michigan	93.6 (2.79)	87.1 (2.74)	39.9 (3.62)	51.3 (3.63)	45.9 (3.56)	98.3 (0.77)	80.8 (3.40)	1.7 (0.07)	2,065 (117.9)	58 (5.1)	10.13 (1.086)	4.5 (0.30)
Minnesota	81.5 (2.23)	92.1 (2.41)	39.8 (3.67)	57.6 (4.04)	34.4 (3.13)	94.4 (1.86)	86.3 (2.82)	2.2 (0.07)	2,760 (139.9)	105 (24.4)	16.40 (2.140)	5.4 (0.35)
Mississippi	71.9 (5.72)	86.5 (3.53)	22.7 (3.97)	46.3 (5.13)	26.8 (3.50)	97.0 (1.86)	89.5 (3.43)	1.5 (0.08)	1,862 (110.5)	106 (22.0)	13.03 (1.871)	1.9 (0.15)
Missouri	93.8 (1.87)	97.3 (1.37)	34.8 (3.06)	44.1 (3.32)	19.8 (2.78)	98.2 (1.40)	89.2 (2.91)	1.9 (0.09)	2,624 (93.4)	106 (6.2)	21.23 (0.896)	4.4 (0.20)
Montana	77.6 (6.74)	87.9 (4.59)	34.8 (6.14)	50.6 (7.14)	17.0 (5.97)	96.2 (2.31)	93.3 (2.57)	1.8 (0.09)	3,570 (325.3)	118 (9.4)	21.51 (2.129)	6.1 (0.73)
Nebraska	90.0 (2.94)	93.6 (2.83)	71.8 (4.06)	71.8 (4.32)	33.6 (4.96)	95.0 (2.14)	92.5 (2.55)	2.1 (0.11)	3,629 (430.3)	137 (18.6)	21.64 (1.246)	5.8 (0.44)
Nevada	97.8 (1.08)	98.3 (0.96)	28.6 (4.31)	41.2 (4.77)	34.4 (3.34)	97.4 (1.78)	65.2 (5.29)	1.6 (0.07)	1,674 (55.0)	74 (5.3)	10.23 (0.490)	1.9 (0.13)
New Hampshire	91.3 (4.46)	94.4 (4.05)	58.4 (7.08)	66.7 (6.26)	7.9 (3.66)	100.0 (†)	96.1 (2.84)	1.8 (0.12)	2,134 (124.6)	81 (5.5)	21.78 (1.383)	3.7 (0.31)
New Jersey	85.7 (3.03)	86.5 (2.85)	46.5 (4.19)	45.4 (4.10)	20.7 (3.29)	96.0 (2.08)	79.9 (3.22)	1.4 (0.06)	2,172 (121.3)	68 (8.2)	15.47 (1.072)	3.1 (0.19)
New Mexico	87.3 (10.18)	86.3 (10.49)	36.4 (8.56)	65.2 (5.93)	37.6 (7.31)	95.8 (2.70)	83.7 (6.05)	1.8 (0.24)	3,057 (631.5)	95 (16.1)	†	2.5 (†)
New York	94.2 (2.24)	93.8 (2.33)	38.3 (3.90)	45.8 (4.46)	21.2 (3.23)	98.7 (0.98)	81.3 (2.94)	2.0 (0.06)	1,898 (97.1)	101 (7.8)	19.25 (1.274)	3.2 (0.18)
North Carolina	95.9 (2.17)	95.5 (1.67)	57.3 (4.17)	86.1 (2.53)	55.4 (3.83)	98.5 (1.01)	93.6 (2.74)	1.6 (0.06)	1,940 (97.3)	88 (10.1)	15.85 (1.164)	3.5 (0.26)
North Dakota	77.6 (3.93)	80.5 (3.66)	45.1 (5.00)	52.7 (4.42)	20.1 (3.23)	96.6 (1.43)	75.6 (3.99)	2.0 (0.09)	3,728 (230.1)	172 (16.8)	24.28 (1.378)	4.8 (0.61)
Ohio	91.1 (2.26)	94.1 (2.23)	45.5 (3.69)	48.5 (3.52)	42.0 (4.60)	94.4 (1.88)	81.5 (3.43)	1.8 (0.07)	1,889 (75.4)	64 (4.0)	9.06 (0.502)	3.3 (0.20)
Oklahoma	84.1 (4.75)	86.4 (4.26)	42.3 (5.72)	46.2 (5.42)	26.7 (5.71)	94.1 (2.45)	87.7 (3.89)	1.9 (0.10)	2,676 (229.2)	133 (33.8)	15.91 (2.051)	3.0 (0.22)
Oregon	90.0 (3.18)	93.3 (1.71)	35.3 (5.04)	50.4 (5.10)	28.7 (5.09)	97.5 (1.54)	74.4 (5.11)	1.7 (0.10)	2,569 (116.8)	77 (10.6)	11.28 (1.628)	4.0 (0.42)
Pennsylvania	89.4 (3.12)	91.0 (2.86)	39.5 (4.85)	46.3 (4.96)	19.9 (3.71)	92.1 (3.19)	75.7 (4.33)	1.8 (0.08)	2,302 (181.0)	81 (10.1)	16.68 (1.792)	3.3 (0.22)
Rhode Island	72.9 (5.12)	76.7 (4.20)	26.0 (5.81)	22.9 (5.38)	5.1 (2.06)	94.3 (3.60)	72.4 (7.05)	1.7 (0.11)	1,993 (110.8)	62 (9.1)	9.22 (0.978)	3.3 (0.40)
South Carolina	95.2 (2.02)	97.2 (1.55)	49.1 (4.63)	79.0 (3.80)	85.0 (3.67)	100.0 (†)	96.1 (1.89)	1.8 (0.07)	2,246 (401.6)	79 (5.9)	15.47 (1.105)	3.0 (0.24)
South Dakota	75.1 (4.80)	69.3 (5.65)	48.0 (5.49)	51.9 (6.10)	21.6 (4.22)	84.2 (5.62)	77.5 (5.53)	1.7 (0.11)	3,370 (329.1)	†	22.94 (1.947)	3.5 (0.45)
Tennessee	92.3 (2.75)	98.1 (0.90)	46.3 (5.01)	57.9 (4.83)	28.0 (3.68)	98.1 (1.23)	90.2 (3.57)	1.7 (0.08)	1,756 (60.8)	81 (9.3)	11.96 (1.448)	2.5 (0.21)
Texas	93.2 (1.98)	96.8 (1.28)	42.1 (3.37)	59.2 (3.89)	32.9 (3.57)	96.9 (1.41)	90.5 (2.07)	1.8 (0.06)	2,261 (250.8)	113 (23.0)	23.54 (4.438)	2.3 (0.10)
Utah	86.1 (5.81)	85.8 (6.20)	28.0 (5.07)	34.2 (5.33)	44.5 (5.72)	96.9 (5.15)	84.8 (5.07)	1.7 (0.13)	1,652 (90.6)	85 (12.2)	10.03 (0.862)	2.1 (0.18)
Vermont	84.5 (4.69)	80.6 (4.24)	58.5 (5.72)	64.5 (4.95)	11.2 (2.48)	93.1 (2.97)	80.2 (4.12)	1.8 (0.09)	4,010 (145.6)	155 (9.1)	32.89 (1.796)	4.8 (0.48)
Virginia	95.7 (2.26)	97.3 (1.38)	60.8 (3.91)	74.7 (4.14)	49.5 (4.90)	96.8 (1.33)	90.1 (3.92)	1.9 (0.09)	2,018 (78.9)	122 (24.9)	18.86 (3.017)	3.1 (0.50)
Washington	92.2 (2.67)	93.6 (2.49)	29.0 (4.20)	47.9 (4.47)	28.1 (4.08)	96.3 (2.48)	84.1 (3.53)	1.9 (0.11)	2,325 (107.8)	82 (9.4)	9.46 (0.680)	3.9 (0.27)
West Virginia	69.0 (4.92)	74.9 (5.24)	32.1 (4.40)	47.5 (5.04)	22.0 (2.80)	92.8 (3.28)	68.6 (5.32)	1.0 (0.07)	1,923 (109.9)	110 (32.3)	15.04 (2.674)	4.5 (0.80)
Wisconsin	96.0 (2.31)	97.9 (1.07)	50.4 (4.28)	63.0 (4.58)	27.2 (3.97)	98.6 (1.35)	95.7 (2.36)	2.4 (0.09)	3,125 (149.7)	159 (8.7)	37.93 (2.217)	5.2 (0.41)
Wyoming	95.5 (4.10)	95.5 (4.10)	56.8 (5.80)	51.1 (4.62)	19.3 (5.06)	98.7 (0.80)	81.2 (5.71)	1.8 (0.10)	3,714 (330.4)	211 (33.4)	32.02 (5.222)	4.8 (0.67)

†Not applicable.

!Interpret data with caution. The coefficient of variation (CV) for this estimate is between 30 percent and 50 percent.

‡Reporting standards not met. Either the response rate is under 50 percent or there are too few cases for a reliable estimate.

¹Centralized video distribution equipment with a scheduling and control server that telecasts video to classrooms.

²Includes professional and nonprofessional staff.

³Books held, books acquired, and expenditures are from the prior school year, while enrollment counts are from the current school year.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey (SASS).

"Public School Library Media Center Questionnaire," 2011–12. (This table was prepared December 2013.)

Table 701.40. Collections, staff, and operating expenditures of degree-granting postsecondary institution libraries: Selected years, 1981–82 through 2011–12

	1981–82	1987–88	1991–92	1997–98	2001–02	2005–06	2007–08	2009–10	2011–12			
									Total	Public	Private nonprofit	Private for-profit
1	2	3	4	5	6	7	8	9	10	11	12	13
Collections, staff, and operating expenditures												
Number of libraries	3,104	3,438	3,274	3,658	3,568	3,617	3,827	3,689	3,793	1,560	1,461	772
Percentage of institutions with libraries	—	—	—	90.0	85.0	84.6	87.9	82.1	80.6	94.6	88.4	55.0
Number of circulation transactions (in thousands)	—	—	—	216,067	189,248	187,236	178,766	176,736	154,409	99,897	51,930	2,582
Number of circulation transactions per full-time equivalent (FTE) student	—	—	—	20	16	14	13	11	10	9	16	2
Enrollment (in thousands)												
Total enrollment ¹	12,372	12,767	14,359	14,502	15,928	17,487	18,248	20,428	20,994	15,110	3,927	1,957
Full-time-equivalent (FTE) enrollment ¹	9,015	9,230	10,361	10,615	11,766	13,201	13,783	15,496	15,886	10,949	3,321	1,616
Collections (in thousands)												
Number of volumes at end of year	567,826	718,504	749,429	878,906	954,030	1,015,658	1,052,531	1,076,027	1,099,951	669,521	424,671	5,760
Number of volumes added during year	19,507	21,907	20,982	24,551	24,574	22,241	23,990	27,164	27,605	17,134	9,984	488
Number of serial subscriptions at end of year ²	4,890	6,416	6,966	10,908	9,855	16,361	25,342	25,041	—	—	—	—
Microform units at end of year	—	—	—	1,062,082	1,143,678	1,166,295	1,157,365	1,124,941	1,044,521	705,525	337,405	1,591
E-books at end of year	—	—	—	—	10,318	64,366	102,502	158,652	252,599	136,181	102,413	14,006
Number of volumes per FTE student	63	78	72	83	81	77	76	69	69	61	128	4
Full-time-equivalent (FTE) library staff												
Total staff in regular positions ³	58,476	67,251	67,166	68,337	69,526	69,615	69,328	66,562	65,242	39,776	23,770	1,696
Librarians and professional staff	23,816	25,115	26,341	30,041	32,053	33,265	34,520	34,147	34,423	19,601	13,382	1,440
Other paid staff	34,660	40,733	40,421	38,026	37,473	36,350	34,808	32,415	30,819	20,175	10,388	256
Contributed services	—	1,403	404	270	—	—	—	—	—	—	—	—
Student assistants	—	33,821	29,075	28,373	25,305	23,976	24,110	22,382	20,509	11,288	8,498	724
FTE student enrollment per FTE staff member	154	137	154	155	169	190	199	233	243	275	140	953
Library operating expenditures⁴												
Total operating expenditures (in thousands of current dollars)	\$1,943,769	\$2,770,075	\$3,648,654	\$4,592,657	\$5,416,716	\$6,234,192	\$6,785,542	\$6,829,108	\$7,008,114	\$4,077,793	\$2,803,864	\$126,457
Salaries and wages	914,379 ⁵	1,451,551	1,889,368	2,314,380	2,753,404	3,102,561	3,342,082	3,401,649	3,443,831	2,060,066	1,308,607	75,158
Student hourly wages	100,847	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)
Fringe benefits	167,515	—	—	—	—	—	—	—	—	—	—	—
Furniture/equipment	—	—	—	57,013	—	—	—	—	—	—	—	—
Computer hardware/software	—	—	—	164,379	155,791	153,002	158,698	142,652	143,660	90,583	51,050	2,028
Bibliographic utilities/networks/consortia	—	—	—	89,618	92,242	106,268	113,427	117,838	123,650	71,925	50,694	1,031
Information resources	591,550	925,425	1,240,419	1,643,914	1,990,989	2,375,485	2,663,082	2,680,298	2,790,039	1,572,279	1,172,378	45,383
Books and serial backfiles—paper	—	—	—	514,048	563,007	572,228	611,192	515,942	503,851	248,460	244,454	10,938
Books and serial backfiles—electronic	—	—	—	28,061	44,792	93,778	133,586	152,359	180,570	100,553	74,724	5,292
Current serials—paper	—	—	—	849,399	926,105	830,137	699,906	536,357	487,265	272,219	207,707	7,339
Current serials—electronic	—	—	—	125,470	297,657	691,585	1,004,393	1,249,726	1,436,671	856,062	562,111	18,498
Audiovisual materials	—	—	23,879	30,623	37,041	39,029	43,849	55,659	37,022	19,486	15,609	1,926
Document delivery/interlibrary loan	—	—	—	19,309	22,913	26,513	30,496	33,679	32,490	20,069	11,768	652
Preservation	30,351	34,144	43,126	42,919	46,499	41,102	41,591	31,212	26,838	14,382	12,392	63
Other collection expenditures	561,199	891,281	1,173,414	34,086	52,976	81,113	98,069	105,364	85,334	41,047	43,612	675
Other library operating expenditures	169,478	393,099	518,867	323,354	424,290	496,877	508,253	486,672	506,934	282,941	221,136	2,857
Operating expenditures per full-time-equivalent (FTE) student												
In current dollars	216	300	352	433	460	472	492	441	441	372	844	78
In constant 2012–13 dollars ⁷	530	599	590	619	598	549	538	470	448	379	858	80
Information resource expenditures per FTE student												
In current dollars	66	100	120	155	169	180	193	173	176	144	353	28
In constant 2012–13 dollars ⁷	161	200	200	222	220	209	211	185	179	146	359	29
Operating expenditures (percentage distribution)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Salaries and wages	47.0	52.4	51.8	50.4	50.8	49.8	49.3	49.8	49.1	50.5	46.7	59.4
Student hourly wages	5.2	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)	(⁶)
Fringe benefits	8.6	—	—	—	—	—	—	—	—	—	—	—
Preservation	1.6	1.2	1.2	0.9	0.9	0.7	0.6	0.5	0.4	0.4	0.4	0.1
Information resources	28.9	32.2	32.8	34.9	35.9	37.4	38.6	38.8	39.4	38.2	41.4	35.8
Other ⁸	8.7	14.2	14.2	13.8	12.4	12.1	11.5	10.9	11.0	10.9	11.5	4.7
Library operating expenditures as a percent of total institutional expenditures for educational and general purposes	3.5	3.2	3.0	—	—	—	—	—	—	—	—	—

—Not available.

¹Fall enrollment for the academic year specified.²For 1997–98 and later years, includes microform and electronic serials.³Excludes student assistants.⁴Excludes capital outlay.⁵Includes salary equivalents of contributed services staff.⁶Included under salaries and wages.⁷Constant dollars based on the Consumer Price Index, prepared by the Bureau of Labor Statistics, U.S. Department of Labor, adjusted to a school-year basis.⁸Includes furniture/equipment, computer hardware/software, and bibliographic utilities/networks/consortia as well as expenditures classified as "other library operating expenditures."

NOTE: Data through 1995 are for institutions of higher education, while later data are for degree-granting institutions. Degree-granting institutions grant associate's or higher degrees and participate in Title IV federal financial aid programs. The degree-granting classification is very similar to the earlier higher education classification, but it includes more 2-year colleges and excludes a few higher education institutions that did not grant degrees. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, National Center for Education Statistics, *Library Statistics of Colleges and Universities*, 1981–82; Integrated Postsecondary Education Data System (IPEDS), "Academic Libraries Survey" (IPEDS-L:88–98), "Fall Enrollment Survey" (IPEDS-EF:87–98), and IPEDS Spring 2002 through Spring 2012, Enrollment component; Academic Libraries Survey (ALS), 2000 through 2012. (This table was prepared May 2014.)

Table 701.50. Collections, staff, operating expenditures, public service hours, and reference services of the 60 largest college and university libraries: Fiscal year 2012

Institution	Rank order, by number of volumes	Number of volumes at end of year (in thousands)	Number of e-books at end of year	Full-time- equivalent staff		Operating expenditures (in thousands of current dollars)		Public service hours per typical week	Gate count per typical week ¹	Annual reference information services to individuals ²
				Total	Librarians	Total	Salaries and wages			
1	2	3	4	5	6	7	8	9	10	11
Harvard University (MA).....	1	17,225	402,473	1,073	400	\$134,533	\$83,834	168	27,194 ³	187,903
Yale University (CT).....	2	13,504	1,090,187	600	163	81,221	35,235	111	27,194 ³	31,783
University of Illinois at Urbana-Champaign.....	3	12,937	645,398	437	77	43,703	20,744	152	93,818	110,973
University of California, Berkeley.....	4	11,537	1,097,969	434	74	47,325	24,022	77	39,081 ³	70,986
University of Michigan, Ann Arbor.....	5	11,458	1,926,938	690	186	63,828	32,553	168	114,557	211,469
University of Chicago (IL).....	6	11,397	1,251,085	309	68	36,112	13,450	148	28,732	16,610
Columbia University in the City of New York.....	7	11,291	1,329,421	526	162	57,422	26,244	107	84,930	58,489
University of Texas at Austin.....	8	10,185	752,892	489	104	43,968	20,476	120	101,797	119,058
University of California, Los Angeles.....	9	9,981	1,288,821	527	133	50,171	27,406	96	81,905	113,725
Indiana University, Bloomington.....	10	9,276	1,363,894	395	90	33,371	15,259	101	64,700	138,542
Stanford University (CA).....	11	9,025	841,538	653	153	69,922	31,704	105	20,491 ³	105,636
University of Wisconsin, Madison.....	12	7,841	656,536	533	202	38,018	18,778	148	103,845	650
Tarrant County College District (TX).....	13	7,828	83,036	73	24	3,878	2,723	84	26,583	—
Cornell University (NY).....	14	7,684	903,397	468	110	45,471	21,917	145	73,193	62,429
Princeton University (NJ).....	15	7,486	322,690	382	87	50,222	20,476	120	8,508	19,018
University of Washington, Seattle Campus.....	16	7,375	460,477	385	122	36,649	17,592	135	135,000	56,062
University of Minnesota, Twin Cities.....	17	6,918	484,151	355	87	39,526	17,992	107	45,000	46,021
Michigan State University.....	18	6,702	2,715,914	236	70	27,496	10,389	140	37,453	50,633
University of Pittsburgh, Main Campus (PA).....	19	6,663	988,230	319	118	31,800	11,881	118	39,081 ³	80,695
Duke University (NC).....	20	6,540	875,488	321	114	41,043	17,127	149	95,437	80,518
University of Colorado at Boulder.....	21	6,510	675,723	232	62	24,263	10,114	128	66,545	57,345
University of North Carolina at Chapel Hill.....	22	6,437	996,453	409	130	38,135	18,921	146	90,160	84,345
University of Pennsylvania.....	23	6,108	1,100,111	416	137	41,535	19,601	116	31,779	6,500
Ohio State University, Main Campus.....	24	6,050	526,075	449	75	43,185	17,349	168	128,852	27,876
University of Arizona.....	25	6,030	1,184,441	194	51	23,350	8,410	142	38,585	17,247
University of Florida.....	26	5,611	815,537	301	90	28,657	13,434	138	53,235	44,945
Rutgers University, New Brunswick (NJ).....	27	5,478	595,141	272	56	25,958	14,493	115	60,618	25,656
Pennsylvania State University, Main Campus.....	28	5,351	316,913	539	143	50,972	25,757	148	139,775	85,211
University of Iowa.....	29	5,310	772,023	221	66	24,728	9,883	116	34,623	52,416
University of Virginia, Main Campus.....	30	5,247	460,840	344	97	33,796	16,775	149	76,921	76,853
University of California, Davis.....	31	5,204	582,966	185	54	18,506	8,783	102	34,482	78,595
New York University.....	32	5,196	1,101,383	465	68	51,534	21,977	126	65,163	132,850
Northwestern University (IL).....	33	5,140	139,418	362	111	32,029	14,629	122	21,560	23,444
University of Oklahoma, Norman Campus.....	34	5,139	1,168,077	142	34	17,000	4,727	117	26,456	21,693
University of Georgia.....	35	4,947	555,015	283	76	24,101	10,262	109	61,786	42,991
University of Southern California.....	36	4,845	877,824	329	84	66,405	17,589	159	53,335	110,159
Brown University (RI).....	37	4,724	979,523	172	48	21,368	8,709	112	27,890	11,568
Texas A&M University, College Station.....	38	4,531	1,073,198	321	78	35,350	12,945	145	63,798	44,988
Arizona State University.....	39	4,531	403,504	288	73	25,459	9,795	149	39,081 ³	42,726
University of South Carolina, Columbia.....	40	4,460	206,886	265	71	21,752	7,785	111	38,470	85,215
Johns Hopkins University (MD).....	41	4,396	985,644	271	29	37,396	13,445	120	34,500	28,667
University of Cincinnati, Main Campus (OH).....	42	4,336	1,243,527	188	44	21,019	8,588	106	33,229	119,451
Tulane University of Louisiana.....	43	4,320	927,113	172	55	17,813	6,275	118	20,000	21,633
Auburn University (AL).....	44	4,318	821,083	106	29	12,762	4,502	146	28,066	98,072
University of Kansas.....	45	4,285	404,676	249	59	20,282	9,362	140	42,000	91,236
Miami University-Oxford (OH).....	46	4,225	595,932	121	44	9,654	4,533	168	29,976	12,947
University at Buffalo (NY).....	47	4,119	726,127	173	52	19,414	9,663	168	48,000	35,367
University of Maryland, College Park.....	48	4,094	599,198	250	80	29,353	11,724	138	58,461	386,001
University of Utah.....	49	4,068	334,463	322	79	25,130	12,508	142	55,008	165,837
University of Kentucky.....	50	4,023	588,428	238	74	21,285	8,741	140	51,632	29,825
University of Alabama.....	51	3,974	855,794	200	64	19,417	7,290	135	35,307	29,854
Brigham Young University (UT).....	52	3,946	526,051	352	61	26,686	11,771	101	72,336	57,917
Washington University in St. Louis (MO).....	53	3,890	590,299	245	97	32,570	10,042	120	28,000	52,905
Emory University (GA).....	54	3,878	555,313	287	97	37,737	14,269	106	35,117	8,935
Syracuse University (NY).....	55	3,815	942,224	207	59	19,271	8,613	136	34,993	21,395
Louisiana State University and Agricultural & Mechanical College.....	56	3,802	402,264	124	43	15,718	—	99	34,772	28,978
University of Notre Dame (IN).....	57	3,796	466,168	249	77	26,934	10,880	147	26,544	20,612
Vanderbilt University (TN).....	58	3,720	606,267	196	61	23,624	9,181	147	40,417	18,507
North Carolina State University at Raleigh.....	59	3,653	514,635	280	103	27,504	12,395	146	44,540	32,916
Temple University (PA).....	60	3,573	635,008	196	55	23,382	8,263	145	80,009	73,889

—Not available.

¹The number of entries into the library in an average week. A single person can be counted more than once.

²Includes both in-person and virtual services.

³Imputed.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Academic Libraries Survey (ALS), fiscal year 2012. (This table was prepared March 2014.)

Table 701.60. Public libraries, books and serial volumes, library visits, circulation, and reference transactions, by state: Fiscal years 2009 and 2010

State	Number of public libraries		Number of books and serial volumes				Library visits per capita ¹		Circulation per capita ²		Reference transactions per capita ³	
			In thousands		Per capita							
	2009	2010	2009	2010	2009	2010	2009	2010	2009	2010	2009	2010
1	2	3	4	5	6	7	8	9	10	11	12	13
United States	9,225 ⁴	8,951 ⁴	815,909	808,402	2.7	2.7	5.4	5.3	8.1	8.3	1.0	1.0
Alabama	210	212	9,546	9,649	2.1	2.1	3.7	3.7	4.6	4.6	0.9	0.9
Alaska	87	75	2,532	2,366	3.7	3.4	5.1	4.8	6.4	6.3	0.7	0.6
Arizona	89	89	8,807	8,946	1.3	1.4	4.4	4.6	7.4	8.2	0.7	0.7
Arkansas	52	55	6,578	6,569	2.5	2.5	4.0	4.0	5.3	5.5	0.7	0.8
California	181	181	75,299	74,754	2.0	1.9	4.8	4.6	6.2	6.3	0.9	0.9
Colorado	114	114	11,916	11,752	2.4	2.4	6.7	6.8	13.0	13.3	1.2	1.1
Connecticut	195	183	15,646	14,679	4.5	4.4	7.0	7.2	9.7	10.2	1.3	1.2
Delaware	21	21	1,701	1,858	2.2	2.4	5.6	5.8	10.5	11.5	0.6	0.7
District of Columbia	1	1	2,130	1,904	3.6	3.2	4.9	4.6	3.9	4.5	1.4	1.4
Florida	80	80	32,643	33,057	1.7	1.8	4.8	4.8	6.8	7.1	1.6	1.7
Georgia	61	61	16,341	16,765	1.7	1.7	4.3	3.9	5.1	4.7	0.9	1.1
Hawaii	1	1	3,383	3,466	2.6	2.7	4.7	4.1	5.6	5.4	0.7	0.6
Idaho	104	102	4,275	4,316	3.2	3.2	6.8	6.4	10.3	10.7	0.9	1.0
Illinois	634	622	45,250	45,223	3.8	3.8	7.0	7.0	9.7	10.3	1.2	1.2
Indiana	238	238	25,672	25,628	4.5	4.5	7.4	7.1	14.1	13.7	1.0	1.1
Iowa	541	531	12,143	12,117	4.1	4.1	6.5	6.6	9.7	9.9	0.6	0.6
Kansas	328	311	10,314	10,060	4.3	4.2	6.6	6.5	11.8	11.6	1.1	0.9
Kentucky	117	117	8,849	9,028	2.1	2.1	4.5	4.6	6.9	7.0	0.7	0.8
Louisiana	68	68	11,651	11,913	2.6	2.6	3.5	3.7	4.2	4.4	1.4	1.5
Maine	269	215	6,536	6,010	5.4	5.3	5.9	6.0	7.9	8.4	0.6	0.5
Maryland	24	24	13,892	13,954	2.5	2.5	6.1	6.0	10.7	10.7	1.3	1.4
Massachusetts	370	360	32,969	32,789	5.1	5.0	6.5	6.5	8.9	9.8	0.8	0.8
Michigan	384	384	35,539	35,322	3.6	3.6	6.0	6.0	8.6	9.0	1.0	1.0
Minnesota	138	138	15,535	15,592	2.9	2.9	5.6	5.3	11.2	11.1	0.7	0.7
Mississippi	50	50	5,556	5,569	1.9	1.9	3.2	3.3	3.0	3.0	0.6	0.6
Missouri	150	147	17,592	17,328	3.4	3.4	5.9	6.2	10.1	10.6	1.1	1.0
Montana	80	80	2,731	2,794	3.0	3.1	4.9	5.0	6.9	7.5	0.5	0.5
Nebraska	269	216	6,345	5,856	4.7	4.4	6.8	6.5	10.4	10.3	0.8	0.8
Nevada	22	22	4,782	4,545	1.8	1.7	4.3	4.3	7.2	7.6	0.6	0.6
New Hampshire	230	221	6,217	5,968	4.7	6.0	5.9	8.2	8.9	12.2	0.6	0.8
New Jersey	301	284	30,230	29,635	3.6	3.6	6.1	6.1	7.8	7.6	1.0	1.0
New Mexico	91	81	4,615	4,426	2.9	2.8	5.0	5.2	6.5	6.7	0.8	0.7
New York	756	756	75,760	73,078	4.0	3.9	6.3	6.2	8.4	8.7	1.5	1.4
North Carolina	77	77	16,907	16,755	1.8	1.8	4.8	4.7	6.0	6.0	1.4	1.4
North Dakota	85	73	2,575	2,374	4.5	4.1	4.4	4.2	7.8	7.2	0.8	0.7
Ohio	251	251	45,818	45,224	4.0	3.9	8.0	7.6	17.0	16.3	1.8	1.8
Oklahoma	115	116	7,278	7,352	2.4	2.4	7.0	5.2	7.1	7.4	0.7	0.7
Oregon	127	126	9,927	10,048	2.7	2.7	6.8	6.8	15.4	16.2	0.8	0.7
Pennsylvania	458	457	28,180	27,790	2.4	2.3	4.1	3.9	6.0	5.8	0.7	0.8
Rhode Island	48	48	4,334	4,636	4.1	4.4	6.4	6.0	7.3	7.4	0.8	0.7
South Carolina	42	42	9,430	9,575	2.2	2.2	4.2	4.2	6.1	6.2	1.2	1.2
South Dakota	112	102	3,096	2,926	4.2	4.0	5.4	5.5	8.4	8.2	0.9	0.6
Tennessee	186	186	11,754	11,837	1.9	1.9	3.5	3.4	4.0	4.2	0.6	0.6
Texas	559	549	41,749	41,832	1.8	1.8	3.5	3.4	5.1	5.2	0.7	0.7
Utah	71	72	6,744	6,873	2.5	2.5	7.0	7.0	13.4	13.7	1.9	1.2
Vermont	184	159	2,964	2,908	4.9	5.4	6.5	7.1	7.8	8.8	0.8	0.9
Virginia	91	91	19,151	18,921	2.5	2.5	5.5	5.5	9.8	10.0	1.0	1.0
Washington	63	61	15,377	14,878	2.3	2.3	6.7	6.8	12.9	13.1	0.9	0.9
West Virginia	97	97	5,213	5,264	2.9	2.9	3.4	3.4	4.3	4.4	0.5	0.5
Wisconsin	380	381	19,956	19,794	3.5	3.5	6.4	6.4	11.5	11.4	0.9	0.9
Wyoming	23	23	2,484	2,498	4.7	4.6	7.1	7.1	9.5	9.8	1.2	1.0

¹The number of visits (entering the library for any purpose) per person during the year.

²The number of library materials lent per person during the year.

³A reference transaction is an information contact that involves the knowledge, use, recommendations, interpretation, or instructions in the use of one or more information sources by a member of the library staff.

⁴In 2009, of the 9,225 public libraries in the 50 states and the District of Columbia, 7,466 were single-outlet libraries and 1,759 were multiple-outlet libraries. In 2010, of the 8,951 public libraries in the 50 states and the District of Columbia, 7,204 were single-outlet libraries and 1,747 were multiple-outlet libraries. Single-outlet libraries consist of a central library, bookmobile, or books-by-mail-only outlet. Multiple-outlet libraries have two or more

direct service outlets, including some combination of one central library, branch(es), bookmobile(s), and/or books-by-mail-only outlets.

NOTE: Data include imputations for nonresponse. Detail may not sum to totals because of rounding. Per capita figures are based on unduplicated populations of the areas served by public libraries.

SOURCE: Institute of Museum and Library Services, Public Libraries Survey, fiscal years 2009 and 2010, retrieved December 13, 2013, from <http://www.ims.gov/research/public-libraries-in-the-united-states-survey.aspx>. (This table was prepared December 2013.)

Table 702.10. Number and percentage of persons 3 years old and over using the Internet and percentage distribution by means of internet access from home and main reason for not having high-speed access, by selected characteristics of students and other users: 2012

[Standard errors appear in parentheses]

Selected characteristic	Total population age 3 and over (in thousands)	Persons using the Internet anywhere		Among internet users, percent using the Internet from home	Percentage distribution of home internet users, by means of access from home		Percentage distribution of persons with no internet access at home or no high-speed access at home, by main reason for not having high-speed access						
		Number (in thousands)	Percent of population		A regular "dial-up" telephone	High speed (i.e., faster than dial-up) ¹	Don't need it, not interested	Too expensive	Can use it somewhere else	Not available in area	No computer or computer inadequate	Other reasons ²	
1	2	3	4	5	6	7	8	9	10	11	12	13	
Total, all persons.....	297,229 (473.6)	222,032 (673.6)	74.7 (0.21)	92.6 (0.15)	1.4 (0.06)	98.6 (0.06)	41.5 (0.61)	34.7 (0.53)	3.1 (0.20)	2.1 (0.20)	10.7 (0.41)	7.8 (0.34)	
Sex.....													
Male.....	144,902 (111.7)	107,406 (363.2)	74.1 (0.25)	92.8 (0.16)	1.4 (0.07)	98.6 (0.07)	41.2 (0.67)	34.7 (0.60)	3.3 (0.23)	2.2 (0.22)	10.7 (0.45)	8.0 (0.37)	
Female.....	152,326 (376.8)	114,626 (406.9)	75.3 (0.22)	92.3 (0.19)	1.3 (0.07)	98.7 (0.07)	41.7 (0.67)	34.8 (0.60)	3.0 (0.21)	2.0 (0.20)	10.7 (0.45)	7.7 (0.36)	
Race/ethnicity.....													
White.....	188,656 (140.6)	149,231 (455.3)	79.1 (0.24)	94.4 (0.16)	1.4 (0.08)	98.6 (0.08)	49.0 (0.81)	26.1 (0.63)	3.4 (0.27)	2.9 (0.30)	9.3 (0.53)	9.2 (0.44)	
Black.....	35,550 (200.3)	24,290 (264.7)	68.3 (0.63)	85.4 (0.62)	1.2 (0.24)	98.8 (0.24)	35.2 (1.33)	40.2 (1.32)	3.0 (0.53)	1.1 ! (0.37)	13.4 (1.12)	7.1 (0.73)	
Hispanic.....	49,879 (138.2)	30,954 (287.8)	62.1 (0.57)	88.4 (0.52)	1.3 (0.19)	98.7 (0.19)	31.6 (1.28)	47.5 (1.35)	2.6 (0.41)	1.0 ! (0.32)	12.0 (0.84)	5.3 (0.57)	
Other ³	23,143 (143.7)	17,556 (204.1)	75.9 (0.75)	93.8 (0.49)	1.0 (0.20)	99.0 (0.20)	35.8 (2.18)	40.2 (2.46)	3.6 (0.78)	2.7 ! (0.90)	9.4 (1.23)	8.3 (1.26)	
Age.....													
3 and 4.....	8,014 (124.2)	2,534 (81.9)	31.6 (0.93)	93.5 (0.84)	1.5 ! (0.55)	98.5 (0.55)	25.5 (2.24)	48.1 (2.30)	4.2 (0.79)	3.8 (0.89)	11.3 (1.48)	7.3 (1.14)	
5 to 9.....	20,479 (84.2)	11,960 (148.9)	58.4 (0.65)	90.3 (0.58)	0.7 (0.16)	99.3 (0.16)	24.6 (1.61)	49.2 (1.65)	2.6 (0.55)	2.5 (0.53)	13.1 (1.20)	7.9 (0.95)	
10 to 14.....	20,621 (125.5)	16,720 (152.8)	81.1 (0.63)	88.7 (0.54)	0.9 (0.17)	99.1 (0.17)	21.8 (1.52)	50.8 (1.69)	3.6 (0.67)	2.7 (0.62)	11.7 (1.12)	9.4 (1.10)	
15 to 19.....	21,038 (186.4)	18,784 (200.5)	89.3 (0.47)	90.0 (0.46)	1.0 (0.15)	99.0 (0.15)	23.7 (1.47)	50.5 (1.67)	3.7 (0.70)	3.2 (0.64)	10.2 (1.05)	8.8 (1.15)	
20 to 24.....	21,893 (274.4)	18,845 (258.2)	86.1 (0.49)	91.0 (0.45)	1.0 (0.17)	99.0 (0.17)	28.7 (1.56)	47.4 (1.85)	4.6 (0.69)	1.5 (0.39)	10.2 (1.15)	7.6 (0.84)	
25 to 29.....	20,674 (183.4)	17,721 (185.2)	85.7 (0.50)	91.3 (0.46)	0.7 (0.14)	99.3 (0.14)	26.3 (1.47)	48.3 (1.69)	4.9 (0.65)	2.8 (0.63)	11.6 (1.12)	6.1 (0.73)	
30 to 39.....	39,483 (133.7)	33,492 (200.0)	84.8 (0.40)	93.2 (0.28)	0.9 (0.11)	99.1 (0.11)	26.7 (1.07)	46.9 (1.29)	3.6 (0.51)	2.5 (0.45)	11.9 (0.82)	8.4 (0.71)	
40 to 49.....	41,806 (88.5)	34,525 (162.9)	82.6 (0.34)	94.1 (0.24)	0.9 (0.10)	99.1 (0.10)	32.6 (1.35)	43.5 (1.27)	4.8 (0.55)	2.0 (0.36)	10.3 (0.86)	6.7 (0.63)	
50 to 59.....	43,039 (151.3)	32,890 (221.9)	76.4 (0.42)	94.0 (0.22)	1.6 (0.15)	98.4 (0.15)	44.2 (1.10)	32.0 (0.96)	3.1 (0.34)	2.6 (0.36)	10.3 (0.70)	7.9 (0.52)	
60 to 69.....	31,838 (117.9)	22,171 (176.5)	69.6 (0.49)	94.5 (0.26)	2.7 (0.20)	97.3 (0.20)	55.0 (1.10)	21.6 (0.92)	2.6 (0.31)	2.1 (0.31)	10.5 (0.64)	8.3 (0.60)	
70 or older.....	28,344 (331.4)	12,390 (233.2)	43.7 (0.53)	94.5 (0.40)	3.4 (0.30)	96.6 (0.30)	70.1 (0.89)	10.7 (0.53)	1.1 (0.21)	0.7 (0.15)	9.7 (0.60)	7.7 (0.46)	
Educational attainment of persons age 15 and over.....													
Less than high school.....	41,130 (439.2)	22,523 (266.3)	54.8 (0.49)	88.0 (0.43)	2.0 (0.22)	98.0 (0.22)	43.2 (0.97)	35.6 (0.90)	1.8 (0.22)	1.2 (0.19)	11.4 (0.60)	6.9 (0.50)	
High school diploma or equivalent.....	70,863 (473.6)	46,944 (381.8)	66.2 (0.36)	90.8 (0.25)	2.2 (0.15)	97.8 (0.15)	47.1 (0.76)	30.5 (0.68)	2.7 (0.22)	1.8 (0.23)	10.7 (0.56)	7.3 (0.35)	
Some college.....	45,872 (374.1)	38,897 (343.1)	84.8 (0.32)	92.7 (0.26)	1.2 (0.11)	98.8 (0.11)	41.1 (1.04)	34.0 (1.07)	4.2 (0.45)	2.5 (0.37)	9.7 (0.64)	8.5 (0.55)	
Associate's degree.....	22,352 (271.1)	19,293 (256.0)	86.3 (0.42)	93.4 (0.32)	1.2 (0.15)	98.8 (0.15)	41.1 (1.48)	31.5 (1.27)	4.6 (0.67)	3.0 (0.67)	10.3 (0.87)	9.5 (0.88)	
Bachelor's or higher degree.....	67,897 (480.2)	63,162 (469.3)	93.0 (0.19)	96.6 (0.15)	0.9 (0.08)	99.1 (0.08)	45.9 (1.43)	26.2 (1.29)	6.2 (0.63)	3.8 (0.58)	8.0 (0.80)	9.9 (0.85)	
Bachelor's degree.....	44,330 (364.0)	40,980 (347.7)	92.4 (0.21)	96.2 (0.20)	0.9 (0.09)	99.1 (0.09)	45.1 (1.48)	28.3 (1.47)	5.8 (0.68)	3.4 (0.60)	7.5 (0.89)	9.9 (0.94)	
Master's or higher degree.....	23,568 (303.7)	22,182 (297.2)	94.1 (0.31)	97.2 (0.21)	0.8 (0.12)	99.2 (0.12)	47.9 (2.60)	21.3 (2.06)	7.0 (1.15)	4.9 (1.10)	9.0 (1.37)	9.9 (1.37)	
Family income.....													
Less than \$10,000.....	20,998 (398.1)	11,694 (265.0)	55.7 (0.89)	77.0 (1.04)	2.3 (0.47)	97.7 (0.47)	32.4 (1.29)	45.8 (1.33)	2.0 (0.40)	0.9 (0.25)	12.0 (0.99)	6.8 (0.69)	
\$10,000 to \$19,999.....	31,850 (498.9)	17,010 (344.2)	53.4 (0.68)	81.6 (0.76)	2.3 (0.27)	97.7 (0.27)	41.1 (1.15)	38.4 (1.00)	2.1 (0.34)	0.8 (0.19)	10.9 (0.78)	6.8 (0.58)	
\$20,000 to \$29,999.....	35,271 (468.8)	21,141 (346.5)	59.9 (0.60)	87.9 (0.54)	2.3 (0.27)	97.7 (0.27)	43.7 (1.32)	33.7 (1.34)	2.2 (0.33)	1.5 (0.31)	12.2 (0.84)	6.7 (0.63)	
\$30,000 to \$39,999.....	33,560 (540.8)	22,596 (424.2)	67.3 (0.66)	89.9 (0.47)	2.2 (0.23)	97.8 (0.23)	44.1 (1.57)	32.3 (1.58)	2.9 (0.49)	1.9 (0.43)	11.6 (1.08)	7.2 (0.74)	
\$40,000 to \$49,999.....	25,157 (477.5)	19,143 (404.5)	76.1 (0.71)	93.0 (0.43)	2.0 (0.29)	98.0 (0.29)	46.9 (2.11)	29.4 (2.19)	3.4 (0.74)	3.9 (0.96)	8.6 (1.24)	7.9 (1.19)	
\$50,000 to \$74,999.....	55,479 (682.9)	45,480 (577.7)	82.0 (0.37)	95.0 (0.25)	1.3 (0.14)	98.7 (0.14)	44.4 (1.67)	27.1 (1.91)	5.9 (0.85)	4.2 (0.88)	8.6 (0.99)	9.9 (1.19)	
\$75,000 to \$99,999.....	34,034 (516.8)	29,806 (450.7)	87.6 (0.47)	96.5 (0.26)	0.7 (0.12)	99.3 (0.12)	44.3 (3.14)	21.9 (2.56)	10.2 (2.11)	4.2 ! (1.32)	4.6 (1.20)	14.9 (2.39)	
\$100,000 or more.....	60,880 (666.5)	55,162 (651.5)	90.6 (0.26)	97.8 (0.14)	0.5 (0.09)	99.5 (0.09)	38.8 (2.98)	23.0 (2.69)	6.2 (1.37)	8.4 (1.97)	8.4 (1.63)	15.1 (2.58)	
Total, all students.....	78,426 (319.2)	61,507 (398.6)	78.4 (0.33)	90.7 (0.29)	0.8 (0.10)	99.2 (0.10)	23.3 (1.03)	50.6 (1.11)	3.8 (0.46)	2.9 (0.43)	11.3 (0.72)	8.0 (0.71)	
Elementary/secondary ⁴	58,496 (211.7)	42,604 (317.5)	72.8 (0.42)	89.5 (0.38)	1.0 (0.12)	99.0 (0.12)	23.0 (1.11)	50.5 (1.17)	3.4 (0.44)	3.0 (0.46)	12.0 (0.78)	8.1 (0.78)	
3 and 4 years old.....	4,289 (89.1)	1,541 (59.2)	35.9 (1.24)	94.3 (1.01)	† (†)	98.8 (0.67)	24.9 (2.92)	47.1 (3.48)	4.2 (1.19)	4.3 ! (1.41)	12.9 (2.36)	6.6 (1.91)	
5 to 9 years old.....	19,679 (93.1)	11,666 (145.2)	59.3 (0.64)	90.4 (0.57)	0.8 (0.17)	99.2 (0.17)	23.9 (1.60)	50.1 (1.69)	2.5 (0.57)	2.6 (0.57)	13.0 (1.21)	7.9 (0.97)	
10 to 14 years old.....	20,216 (134.2)	16,505 (154.7)	81.6 (0.63)	88.7 (0.54)	1.0 (0.17)	99.0 (0.17)	21.4 (1.53)	51.1 (1.73)	3.7 (0.67)	2.7 (0.63)	12.0 (1.14)	9.2 (1.09)	
15 years old and over.....	14,311 (208.9)	12,892 (199.1)	90.1 (0.50)	89.2 (0.60)	1.1 (0.17)	98.9 (0.17)	23.3 (1.86)	51.3 (2.00)	4.1 (0.70)	3.6 (0.73)	10.1 (1.24)	7.5 (1.27)	
College.....	19,930 (266.3)	18,902 (257.3)	94.8 (0.32)	93.4 (0.40)	0.6 (0.12)	99.4 (0.12)	25.3 (2.06)	51.3 (2.39)	6.4 (1.24)	2.3 (0.63)	7.3 (1.21)	7.3 (1.20)	

See notes at end of table.

Table 702.10. Number and percentage of persons 3 years old and over using the Internet and percentage distribution by means of internet access from home and main reason for not having high-speed access, by selected characteristics of students and other users: 2012—Continued

[Standard errors appear in parentheses]

Selected characteristic	Total population age 3 and over (in thousands)	Persons using the Internet anywhere		Among internet users, percent using the Internet from home	Percentage distribution of home internet users, by means of access from home		Percentage distribution of persons with no internet access at home or no high-speed access at home, by main reason for not having high-speed access					
		Number (in thousands)	Percent of population		A regular "dial-up" telephone	High speed (i.e., faster than dial-up) ¹	Don't need it, not interested	Too expensive	Can use it somewhere else	Not available in area	No computer or computer inadequate	Other reasons ²
1	2	3	4	5	6	7	8	9	10	11	12	13
Sex												
Male.....	38,505 (209.0)	29,713 (255.1)	77.2 (0.45)	90.7 (0.37)	0.9 (0.12)	99.1 (0.12)	24.3 (1.31)	50.0 (1.29)	4.0 (0.57)	2.6 (0.44)	10.7 (0.87)	8.3 (0.87)
Elementary/secondary ³	29,902 (106.4)	21,593 (182.1)	72.2 (0.54)	89.4 (0.48)	1.0 (0.16)	99.0 (0.16)	24.2 (1.39)	49.6 (1.34)	3.5 (0.53)	2.7 (0.47)	11.6 (0.94)	8.3 (0.94)
3 and 4 years old.....	2,154 (62.3)	749 (43.5)	34.8 (1.89)	93.8 (1.63)	† (†)	98.4 (0.97)	29.5 (4.13)	44.2 (4.65)	6.1 ! (1.99)	† (†)	11.0 (2.85)	6.8 ! (2.99)
5 to 9 years old.....	10,033 (124.7)	5,932 (110.3)	59.1 (0.86)	90.4 (0.70)	0.8 (0.23)	99.2 (0.23)	25.2 (2.11)	48.2 (2.16)	2.1 (0.57)	3.0 (0.73)	12.4 (1.42)	9.1 (1.39)
10 to 14 years old.....	10,344 (146.7)	8,299 (132.5)	80.2 (0.85)	88.3 (0.75)	1.0 (0.25)	99.0 (0.25)	23.3 (2.07)	51.6 (2.30)	3.5 (0.75)	2.1 ! (0.65)	11.5 (1.43)	8.2 (1.21)
15 years old and over.....	7,371 (84.4)	6,613 (93.4)	89.7 (0.69)	89.3 (0.74)	1.1 (0.22)	98.9 (0.22)	22.6 (2.21)	50.3 (2.71)	5.0 (1.06)	3.5 (0.91)	10.8 (1.66)	7.8 (1.84)
College.....	8,602 (180.3)	8,120 (176.6)	94.4 (0.54)	94.4 (0.48)	0.5 (0.13)	99.5 (0.13)	24.8 (3.27)	53.7 (3.69)	7.6 (2.08)	† (†)	3.8 ! (1.21)	8.5 (1.72)
Female.....	39,921 (228.6)	31,794 (264.9)	79.6 (0.37)	90.7 (0.34)	0.8 (0.11)	99.2 (0.11)	22.3 (1.15)	51.2 (1.45)	3.7 (0.51)	3.2 (0.56)	11.9 (0.90)	7.7 (0.86)
Elementary/secondary ⁴	28,594 (175.2)	21,011 (216.8)	73.5 (0.49)	89.7 (0.43)	0.9 (0.14)	99.1 (0.14)	21.6 (1.20)	51.5 (1.51)	3.3 (0.54)	3.3 (0.61)	12.4 (0.99)	8.0 (0.94)
3 and 4 years old.....	2,135 (64.6)	793 (43.9)	37.1 (1.85)	94.7 (1.45)	† (†)	99.1 (0.60)	20.1 (3.88)	50.1 (4.65)	† (†)	6.2 ! (2.45)	14.9 (3.29)	6.4 ! (2.47)
5 to 9 years old.....	9,646 (73.5)	5,734 (83.0)	59.4 (0.85)	90.4 (0.76)	0.7 ! (0.21)	99.3 (0.21)	22.5 (1.89)	52.2 (2.32)	3.0 (0.85)	2.1 (0.63)	13.7 (1.57)	6.5 (1.14)
10 to 14 years old.....	9,872 (57.0)	8,205 (91.8)	83.1 (0.73)	89.1 (0.66)	0.9 (0.19)	99.1 (0.19)	19.2 (1.80)	50.5 (2.19)	3.9 (0.94)	3.5 (0.93)	12.6 (1.57)	10.3 (1.55)
15 years old and over.....	6,940 (163.8)	6,280 (147.8)	90.5 (0.66)	89.0 (0.81)	1.1 (0.27)	98.9 (0.27)	24.1 (2.60)	52.4 (2.95)	3.1 (0.87)	3.8 (1.11)	9.5 (1.77)	7.2 (1.45)
College.....	11,327 (164.8)	10,782 (160.3)	95.2 (0.38)	92.7 (0.54)	0.7 (0.17)	99.3 (0.17)	25.6 (2.58)	49.7 (2.79)	5.7 (1.29)	2.8 ! (0.90)	9.6 (1.81)	6.6 (1.53)
Race/ethnicity												
White.....	42,776 (225.6)	35,305 (271.0)	82.5 (0.39)	94.0 (0.31)	0.7 (0.11)	99.3 (0.11)	28.4 (1.90)	41.6 (1.90)	5.4 (0.86)	4.3 (0.76)	8.6 (1.02)	11.8 (1.37)
Elementary/secondary ⁴	31,127 (163.9)	24,120 (220.4)	77.5 (0.51)	93.1 (0.39)	0.9 (0.14)	99.1 (0.14)	27.8 (1.97)	42.1 (2.02)	4.4 (0.81)	4.4 (0.80)	9.0 (1.12)	12.3 (1.48)
3 and 4 years old.....	2,270 (61.2)	931 (48.0)	41.0 (1.80)	94.7 (1.26)	† (†)	99.3 (0.39)	31.1 (5.01)	30.4 (4.98)	10.7 (3.15)	† (†)	13.7 (3.92)	9.6 ! (3.38)
5 to 9 years old.....	10,233 (68.7)	6,662 (102.2)	65.1 (0.85)	94.0 (0.56)	0.7 (0.20)	99.3 (0.20)	28.1 (2.84)	40.8 (2.73)	2.8 (0.82)	3.8 ! (1.31)	12.5 (1.79)	11.9 (1.96)
10 to 14 years old.....	10,937 (92.8)	9,389 (110.6)	85.8 (0.70)	92.6 (0.62)	1.0 (0.21)	99.0 (0.21)	27.3 (2.88)	43.5 (2.88)	4.1 (1.08)	4.2 (1.25)	6.7 (1.48)	14.2 (2.30)
15 years old and over.....	7,687 (144.1)	7,138 (144.0)	92.9 (0.58)	92.8 (0.59)	0.9 (0.19)	99.1 (0.19)	27.2 (2.82)	44.9 (3.08)	5.3 (1.36)	5.4 (1.39)	6.5 (1.46)	10.7 (2.05)
College.....	11,650 (198.7)	11,185 (194.3)	96.0 (0.35)	96.0 (0.38)	0.4 (0.12)	99.6 (0.12)	31.8 (4.15)	38.5 (3.90)	11.0 (2.68)	3.5 ! (1.28)	6.0 ! (1.90)	9.3 (1.81)
Black.....	11,038 (162.1)	8,364 (175.2)	75.8 (1.00)	82.6 (1.09)	0.6 ! (0.23)	99.4 (0.23)	19.8 (1.91)	51.1 (2.46)	2.6 (0.71)	2.6 ! (0.95)	15.3 (1.90)	8.5 (1.51)
Elementary/secondary ⁴	8,191 (133.8)	5,705 (140.1)	69.7 (1.22)	80.9 (1.41)	0.6 ! (0.26)	99.4 (0.26)	20.5 (2.09)	48.6 (2.70)	2.9 (0.78)	2.9 ! (1.10)	16.9 (2.08)	8.2 (1.61)
3 and 4 years old.....	584 (43.1)	162 (23.2)	27.7 (3.31)	90.8 (4.78)	† (†)	91.9 (6.11)	19.5 (5.64)	52.7 (7.60)	† (†)	† (†)	18.9 ! (6.86)	# (†)
5 to 9 years old.....	2,605 (59.3)	1,487 (60.2)	57.1 (2.08)	80.3 (2.19)	† (†)	99.4 (0.55)	24.9 (3.41)	47.5 (3.90)	2.9 ! (1.09)	3.1 ! (1.29)	12.1 (3.10)	9.5 (2.25)
10 to 14 years old.....	2,822 (41.5)	2,174 (57.9)	77.0 (1.74)	82.0 (1.74)	† (†)	99.5 (0.27)	16.1 (3.02)	48.4 (4.23)	3.1 ! (1.21)	† (†)	21.1 (3.17)	9.1 (2.45)
15 years old and over.....	2,180 (83.4)	1,884 (77.2)	86.4 (1.62)	79.3 (2.29)	† (†)	100.0 (0.03)	20.8 (3.69)	49.2 (4.53)	3.0 ! (1.04)	† (†)	17.2 (3.43)	7.7 ! (2.76)
College.....	2,847 (99.2)	2,658 (99.4)	93.4 (1.08)	86.3 (1.44)	† (†)	99.4 (0.45)	16.7 (3.54)	63.2 (4.38)	† (†)	† (†)	7.6 ! (2.54)	9.7 (2.55)
Hispanic.....	17,043 (132.1)	11,895 (171.0)	69.8 (0.77)	85.3 (0.86)	1.4 (0.29)	98.6 (0.29)	21.7 (1.71)	57.5 (1.91)	2.9 (0.71)	1.5 ! (0.54)	11.8 (1.14)	4.5 (0.74)
Elementary/secondary ⁴	13,644 (93.9)	8,776 (135.0)	64.3 (0.90)	83.8 (1.09)	1.5 (0.32)	98.5 (0.32)	21.4 (1.78)	57.5 (2.03)	2.6 (0.69)	1.6 ! (0.58)	12.0 (1.21)	4.8 (0.83)
3 and 4 years old.....	986 (52.6)	295 (31.7)	29.9 (2.70)	92.7 (3.38)	# (†)	100.0 (#)	24.6 (4.83)	54.5 (5.98)	† (†)	† (†)	9.9 ! (3.14)	† (†)
5 to 9 years old.....	4,847 (34.9)	2,305 (73.7)	47.6 (1.51)	84.6 (1.53)	1.1 ! (0.56)	98.9 (0.56)	21.2 (2.59)	56.7 (2.86)	2.0 ! (0.96)	† (†)	14.4 (1.84)	4.3 (0.99)
10 to 14 years old.....	4,670 (72.0)	3,458 (74.5)	74.1 (1.35)	81.7 (1.51)	1.3 ! (0.40)	98.7 (0.40)	20.4 (2.39)	58.2 (2.91)	3.1 ! (1.15)	† (†)	11.4 (1.79)	5.2 (1.28)
15 years old and over.....	3,141 (58.8)	2,717 (59.2)	86.5 (1.13)	84.9 (1.24)	2.2 (0.59)	97.8 (0.59)	22.7 (2.98)	59.2 (3.23)	3.5 ! (1.29)	† (†)	9.2 (1.84)	4.3 ! (1.42)
College.....	3,400 (106.2)	3,119 (105.1)	91.7 (1.00)	89.3 (1.06)	1.2 ! (0.42)	98.8 (0.42)	23.5 (4.02)	57.1 (4.40)	5.3 ! (1.99)	† (†)	10.2 (2.56)	† (†)
Family income												
Less than \$10,000.....	6,372 (183.2)	4,360 (148.1)	68.4 (1.23)	73.8 (1.69)	2.2 (0.64)	97.8 (0.64)	14.2 (1.72)	61.2 (2.46)	2.8 ! (0.90)	† (†)	14.3 (1.58)	6.7 (1.41)
\$10,000 to \$19,999.....	8,007 (227.8)	5,393 (187.7)	67.3 (1.38)	77.4 (1.44)	1.1 (0.31)	98.9 (0.31)	22.9 (2.10)	55.9 (2.10)	3.2 (0.84)	1.0 ! (0.47)	11.5 (1.64)	5.5 (1.10)
\$20,000 to \$29,999.....	9,000 (213.1)	6,242 (178.6)	69.4 (1.22)	85.8 (1.08)	1.2 ! (0.39)	98.8 (0.39)	25.0 (2.53)	50.5 (2.87)	2.2 (0.63)	2.1 ! (0.74)	12.5 (1.68)	7.8 (1.69)
\$30,000 to \$39,999.....	8,305 (233.7)	6,258 (202.3)	75.4 (1.08)	87.1 (1.02)	1.3 (0.36)	98.7 (0.36)	26.7 (2.62)	47.2 (3.12)	4.1 ! (1.30)	2.6 ! (0.95)	12.7 (2.00)	6.9 (1.39)
\$40,000 to \$49,999.....	6,380 (202.0)	5,028 (184.8)	78.8 (1.16)	91.5 (0.97)	1.7 ! (0.51)	98.3 (0.51)	26.2 (3.93)	46.5 (4.89)	2.8 ! (1.14)	9.0 ! (3.31)	7.3 (2.06)	8.1 ! (2.44)
\$50,000 to \$74,999.....	13,742 (276.7)	11,334 (256.2)	82.5 (0.70)	94.9 (0.51)	0.8 (0.21)	99.2 (0.21)	30.5 (3.18)	38.1 (4.01)	8.3 (2.30)	6.9 ! (2.11)	6.3 (1.67)	9.8 (1.87)
\$75,000 to \$99,999.....	8,878 (221.1)	7,537 (203.8)	84.9 (0.88)	96.2 (0.54)	† (†)	99.8 (0.09)	26.2 (5.80)	36.0 (6.89)	11.2 ! (3.90)	† (†)	† (†)	19.7 (5.41)
\$100,000 or more.....	17,742 (296.6)	15,356 (286.1)	86.6 (0.55)	97.7 (0.26)	0.3 ! (0.12)	99.7 (0.12)	26.4 (4.96)	27.9 (5.43)	5.4 ! (2.51)	9.6 ! (3.29)	9.1 ! (2.95)	21.7 (5.54)

†Not applicable.

#Rounds to zero.

!Interpret data with caution. The coefficient of variation (CV) for this estimate is between 30 and 50 percent.

‡Reporting standards not met. Either there are too few cases for a reliable estimate or the coefficient of variation (CV) is 50 percent or greater.

¹Includes DSL, cable, modem, satellite, wireless, mobile phone or PDA, fiber optics or other broadband, and other.²Includes "Privacy or security concerns" and "Other reason."³Includes persons of all other races and two or more races.⁴Includes prekindergarten through grade 12.

NOTE: Race categories exclude persons of Hispanic ethnicity. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Commerce, Census Bureau, Current Population Survey (CPS), October 2012. (This table was prepared March 2014.)

