

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 these 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, which vary greatly in structure from country to country (see the UNESCO entry on page 897 at the end of 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 (19 percent) in 2011, followed by Israel (18 percent) and Turkey (17 percent) (table 601.30). OECD countries with small percentages of people in this age group included the Czech Republic, Germany, Greece, Italy, Japan, and Slovenia (all at 9 percent), and Austria, Estonia, 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 2012, about 1.5 billion students were enrolled in schools around the world (table 601.10). Of these students, 706 million were in elementary-level programs, 552 million were in secondary programs, and 196 million were in postsecondary programs.

From 2000 to 2012, enrollment changes varied from region to region. Changes in elementary enrollment ranged from increases of 56 percent in Africa and 35 percent in Oceania to decreases of 11 percent in Europe, 7 percent in Central and South America (including Latin America and the Caribbean), 3 percent in Northern America (including Bermuda, Canada, Greenland, St. Pierre and Miquelon, and the United States), and less than 1 percent in Asia (table F, table 601.10, and figure 27). Over the same period, secondary enrollment increased by 75 percent in Africa, 31 percent in Asia, 10 percent in Central and South America, 6 percent in Northern America, and 3 percent in Oceania but decreased by 20 percent in Europe. At the postsecondary level, enrollments increased in all major areas of the world from 2000 to 2012. Postsecondary enrollment rose by 155 percent in Asia, 103 percent in Central and South America, 92 percent in Africa, 58 percent in Oceania, 55 percent in Northern America, and 27 percent in Europe.

Table F. Population and enrollment at different levels in major areas of the world: 2000 and 2012

[In millions]

Area of the world	Population	Enrollment		
		Elementary	Secondary	Postsecondary
World total				
2000.....	6,090.3	655.6	449.9	99.5
2012.....	7,020.8	705.7	552.4	196.1
Africa				
2000.....	803.5	108.4	38.4	6.1
2012.....	1,073.1	168.9	67.0	11.7
Asia				
2000.....	3,694.6	404.8	257.5	41.0
2012.....	4,223.7	403.9	338.3	104.7
Europe				
2000.....	730.6	41.7	70.5	25.6
2012.....	741.2	37.2	56.2	32.5
Central and South America				
2000.....	517.8	70.0	55.1	11.4
2012.....	598.6	65.0	60.7	23.1
Northern America				
2000.....	313.4	27.4	25.1	14.4
2012.....	348.3	26.6	26.7	22.4
Oceania				
2000.....	30.4	3.1	3.4	1.0
2012.....	35.8	4.2	3.5	1.7

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

In 2012, 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 Greece and the United States (both at 49 percent), Belgium (46 percent), and Ireland and Slovenia (both at 44 percent) (table 601.40). Also in 2012, the reporting OECD country with the highest proportion of 22- to 25-year-olds enrolled in postsecondary education was Slovenia (39 percent), followed by Denmark (38 percent), and Finland and the Republic of Korea (both at 37 percent). The United States' proportion of enrolled 22- to 25-year-olds was 28 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 Trends in International Mathematics and Science Study (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 individ-

ual 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 by the end of grades 4 and 8, as described in the TIMSS mathematics and science frameworks, which guide assessment development. 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 Russian 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

The Progress in International Reading Literacy Study (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

The Program for International Student Assessment (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 2012, the percentage of 25- to 64-year-olds who had completed high school varied among reporting OECD countries (table 603.10). The OECD country reporting the highest percentage of 25- to 64-year-olds who had completed high school was the Czech Republic (92 percent), followed by the Slovak Republic (also at 92 percent, when rounded to the nearest whole number). High school completers made up 89 to 90 percent of 25- to 64-year-olds in 4 OECD countries—Canada (89 percent), the United States (89 percent), Estonia (90 percent), and Poland (90 percent)—and 10 OECD countries reported percentages between 80 and 88 percent. The OECD country reporting the lowest percentage of high school completers among 25- to 64-year-olds was Turkey (34 percent), followed by Mexico (37 percent) and Portugal (38 percent).

In 2012, 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 and Israel (both at 33 percent) (table 603.20). An additional 16 OECD countries reported that 24 to 32 percent of their 25- to 64-year-olds had a bachelor's or higher degree. The OECD country reporting the lowest percentage of 25- to 64-year-olds with a bachelor's or higher degree was Austria (13 percent), followed by Slovenia (about 15 percent) and then Turkey and Italy (both at 15 percent).

Among younger adults (25 to 34 years old) in OECD countries, the percentage with a bachelor's or higher degree also varied in 2012 (table 603.20 and figure 28). The OECD country reporting the highest percentage of younger adults with a bachelor's or higher degree was Norway (44 percent). More than 30 percent of younger adults had a bachelor's or higher degree in 17 additional countries, including the United States (34 percent). The OECD country reporting the lowest percentage of younger adults with a bachelor's or higher degree in 2012 was Austria (18 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 2012 (table 603.60). However, the proportion of degrees awarded to women varied by field. For example, 30 of the 32

countries reported that at least 70 percent of education degrees at the bachelor's or higher level were awarded to women. In contrast, women received less than 25 percent of the computer science degrees in 24 of the 31 countries reporting data on degrees awarded in this field.

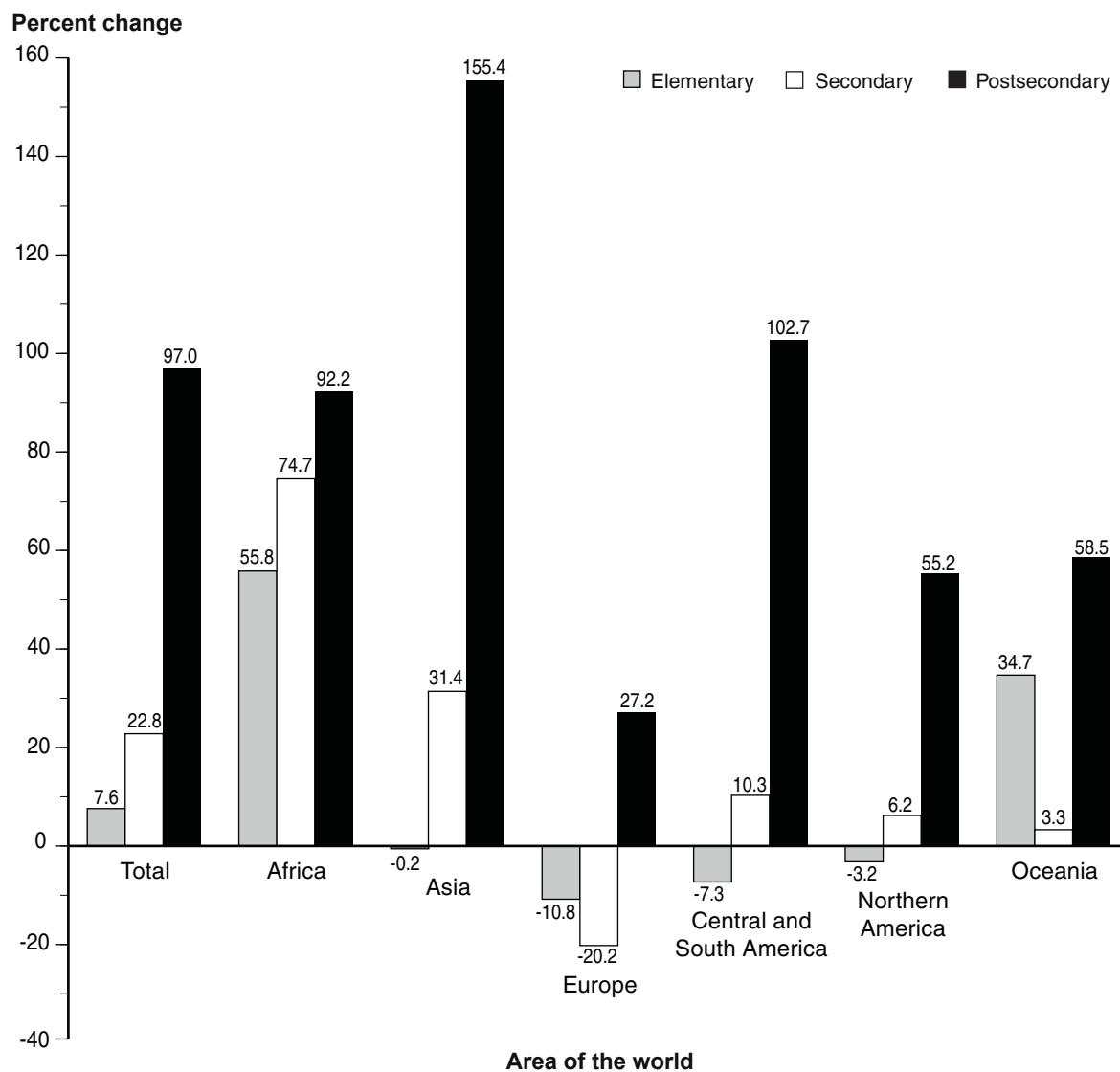
The percentages of bachelor's degrees that were awarded in mathematics and science fields—including natural sciences, mathematics and computer science, and engineering—varied across the 31 OECD countries that reported these data in 2011 (table 603.70). Only one of the reporting OECD countries awarded 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 2011, 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 varied widely across the 31 OECD countries that reported these data in 2011 (table 603.80). Five of the reporting OECD countries awarded more than 30 percent of their graduate degrees in mathematics and science fields: Japan (47 percent), Sweden (43 percent), Germany (35 percent), Austria (33 percent), and Greece (32 percent). Six OECD countries awarded less than 15 percent of their graduate degrees in mathematics and science fields: Chile (8 percent), Poland (11 percent), Mexico (12 percent), the United States (13 percent), and Hungary and the Netherlands (both at 14 percent).

Finances

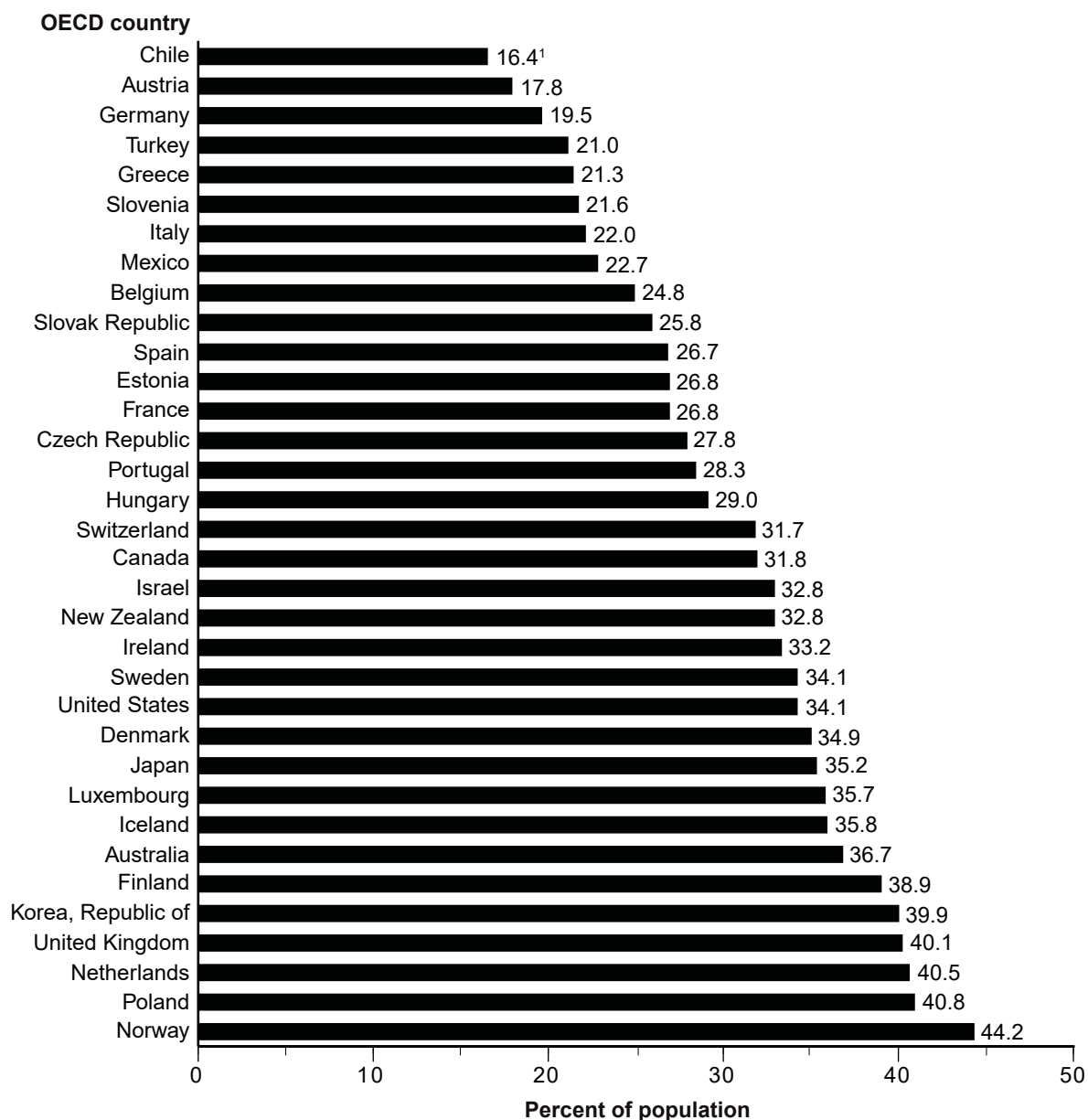
In 2011, expenditures per full-time-equivalent (FTE) student at the combined elementary and secondary level of education were over \$11,000 (in current U.S. dollars) in 5 of the 32 OECD countries that reported finance data for this level of education (table 605.10). Specifically, Luxembourg spent \$19,600 per elementary/secondary student; Switzerland spent \$14,600; Norway spent \$13,200; Austria spent \$12,500; and the United States spent \$11,800. At the higher education level, 7 of 31 reporting countries had expenditures of over \$17,000 per FTE student in 2011: the United States (\$26,000), Switzerland (\$22,900), Denmark (\$21,300), Sweden (\$20,800), Norway (\$18,800), Finland (\$18,000), and the Netherlands (\$17,500). 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 2011 ranged from 3.6 percent in Japan to 7.5 percent in Denmark (table 605.20 and figure 29). Among reporting OECD countries, the average public direct expenditure on education in 2011 was 5.3 percent of GDP. In the United States, the public direct expenditure on education as a percentage of GDP was 4.7 percent.

Figure 27. Percentage change in enrollment, by major areas of the world and level of education: 2000 to 2012

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 2015).

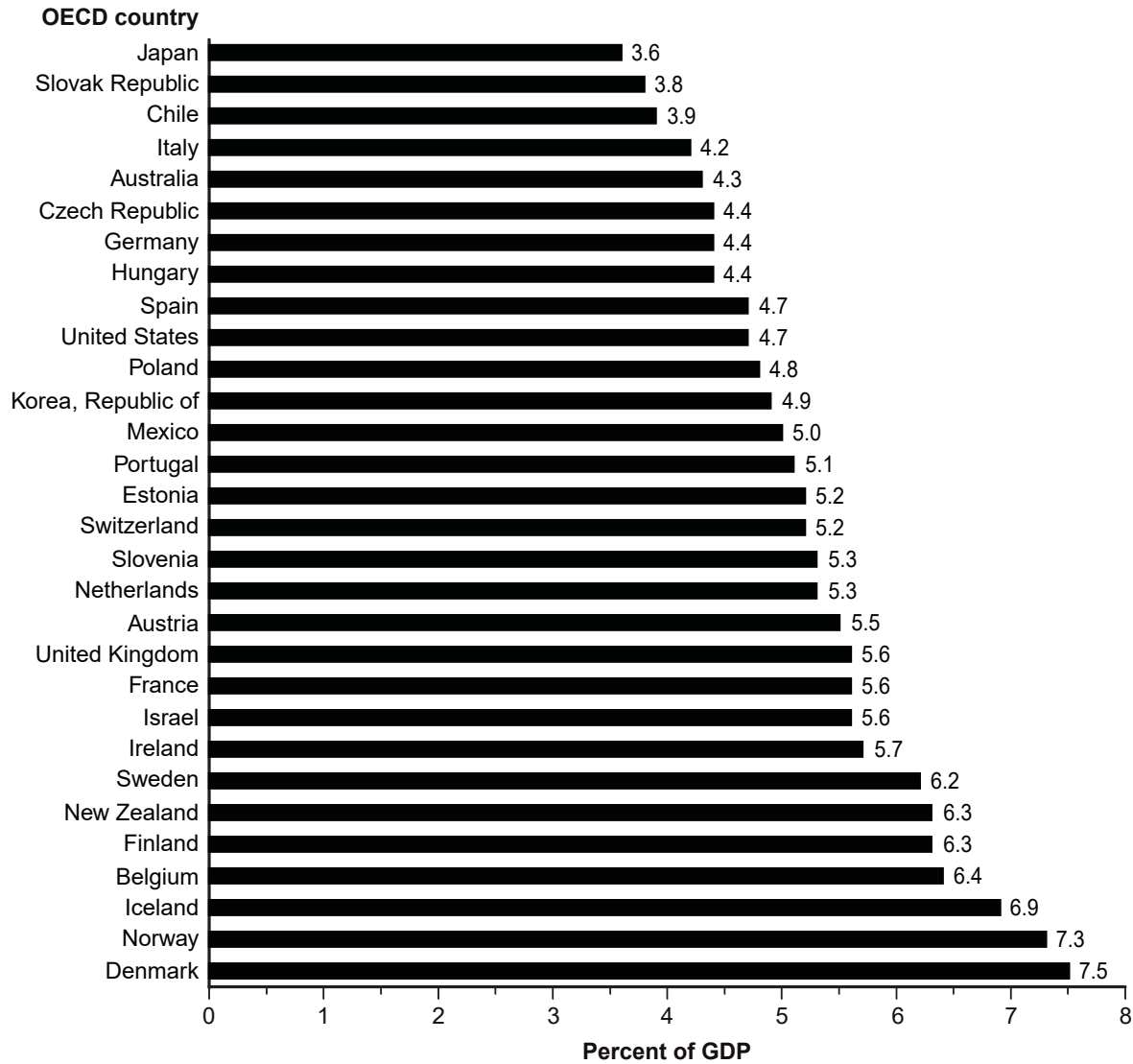
Figure 28. Percentage of the population 25 to 34 years old with a bachelor's or higher degree, by OECD country: 2012

¹Data for Chile are from 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*, 2014.

Figure 29. Public direct expenditures on education institutions as a percentage of gross domestic product (GDP), by OECD country: 2011



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*, 2014.

Table 601.10. Population, school enrollment, and number of teachers, by major areas of the world and level of education: Selected years, 1980 through 2012

[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	858,346	76,926	494,035	134,519	87,117	60,542	—
First level ⁵	524,410	60,306	334,104	47,664	56,794	22,893	2,649
Second level ⁶	284,202	14,915	146,933	69,985	25,528	24,695	—
Third level ⁷	49,734	1,705	12,998	16,870	4,795	12,955	411
Teachers, all levels	38,943	—	19,248	—	—	—	276
First level ⁵	18,484	1,657	10,711	2,498	1,871	—	134
Second level ⁶	16,573	603	7,402	—	—	—	112
Third level ⁷	3,886	—	1,135	—	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	976,827	106,051	562,119	132,711	108,612	61,543	5,790
First level ⁵	576,069	77,084	361,509	45,197	65,042	24,629	2,607
Second level ⁶	333,215	26,128	177,832	68,828	36,327	21,534	2,566
Third level ⁷	67,543	2,839	22,778	18,686	7,243	15,380	617
Teachers, all levels	47,486	3,674	24,504	—	—	3,938	314
First level ⁵	22,131	2,313	13,063	2,607	2,400	1,608	139
Second level ⁶	20,336	1,220	9,728	—	—	1,340	134
Third level ⁷	5,019	141	1,713	1,532	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	1,086,479	125,625	630,611	136,971	120,335	65,901	7,035
First level ⁵	619,539	90,578	387,406	44,748	67,551	26,243	3,014
Second level ⁶	387,868	30,912	214,757	71,120	44,619	23,595	2,864
Third level ⁷	79,072	4,136	28,447	21,103	8,165	16,063	1,158
Teachers, all levels	52,145	4,264	26,978	10,538	5,781	4,208	—
First level ⁵	23,831	2,602	14,067	2,762	2,628	1,622	150
Second level ⁶	22,617	1,459	10,934	6,102	2,453	1,503	—
Third level ⁷	5,697	202	1,978	1,674	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	1,205,000	152,856	703,352	137,738	136,527	66,968	7,559
First level ⁵	655,589	108,437	404,844	41,703	70,040	27,435	3,131
Second level ⁶	449,883	38,357	257,494	70,458	55,072	25,117	3,384
Third level ⁷	99,528	6,062	41,014	25,577	11,415	14,416	1,044
Teachers, all levels	56,619	4,972	29,319	10,695	6,579	4,648	—
First level ⁵	24,928	2,889	14,571	2,730	2,777	1,806	155
Second level ⁶	25,017	1,804	12,309	6,092	2,934	1,682	—
Third level ⁷	6,675	278	2,439	1,873	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	1,324,516	192,515	772,798	135,516	143,401	72,389	7,898
First level ⁵	677,948	135,425	405,287	38,474	68,840	26,780	3,142
Second level ⁶	507,363	48,597	304,872	64,896	58,497	27,039	3,462
Third level ⁷	139,205	8,493	62,639	32,145	16,063	18,570	1,295
Teachers, all levels	64,309	6,010	34,422	10,693	7,741	5,007	—
First level ⁵	26,896	3,513	15,733	2,663	2,966	1,865	—
Second level ⁶	28,315	2,153	14,822	5,801	3,553	1,774	—
Third level ⁷	9,098	344	3,867	2,229	1,222	1,368	—
2012							
Population, all ages ⁴	7,020,760	1,073,075	4,223,675	741,226	598,608	348,347	35,830
Enrollment, all levels	1,454,218	247,546	846,954	125,939	148,822	75,588	9,369
First level ⁵	705,696	168,891	403,884	37,197	64,955	26,552	4,218
Second level ⁶	552,444	67,005	338,328	56,218	60,728	26,670	3,496
Third level ⁷	196,077	11,650	104,742	32,524	23,139	22,367	1,655
Teachers, all levels	73,196	8,155	40,361	10,248	8,659	5,298	—
First level ⁵	29,136	4,599	16,773	2,641	3,120	1,815	—
Second level ⁶	32,343	3,105	18,140	5,229	3,884	1,781	—
Third level ⁷	11,717	451	5,447	2,378	1,655	1,701	—

—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. Asia also includes Turkey, the Arab states (with the exception of those located in Africa), and Israel.

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

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, 2015, from <http://www.census.gov/population/international/data/idb/informationGateway.php>. (This table was prepared March 2015.)

Table 601.20. Selected population and enrollment statistics for countries with populations of at least 10 million in 2012, by continent and country: Selected years, 1990 through 2012

Continent and country ¹	Midyear population (in millions)			Persons per square kilo- meter, 2012	First level ²					Second level ³					Third level ⁴				
	1991	2000	2012		Enrollment (in thousands)		Gross enrollment ratio ⁵			Enrollment (in thousands)		Gross enrollment ratio ⁵			Enrollment (in thousands)		Gross enrollment ratio ⁵		
					1999–2000	2011–12	1990–91	1999–2000	2011–12	1999–2000	2011–12	1990–91	1999–2000	2011–12	1999–2000	2011–12	1990–91	1999–2000	2011–12
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	7,021	53	654,745	705,103⁷	99	98	108⁷	449,070	551,686⁷	52	59	73⁷	99,180	195,557⁷	14	19	32⁷
Africa																			
Algeria ⁸	26	31	37	16	4,843	3,452	100	103	117	2,994	—	61	62	—	—	1,210	11	—	31
Angola	10	13	18	15	—	—	92	—	—	355	—	12	15	—	—	—	1	—	—
Burkina Faso	9	12	17	63	852	2,344	33	45	85	190	676	7	10	26	—	69	1	—	5
Cameroon	12	16	22	46	2,237 ⁹	3,849	101	83 ⁹	111	700	1,713	28	27	50	66	—	3	5	—
Chad	6	8	11	9	914	2,091	54	64	95	137	458	8 ¹⁰	11	23	6	—	1 ^{11,12}	1	—
Congo, Democratic Republic of the	41	52	74	33	—	12,005	70	—	111	—	3,894	21 ¹³	—	43	—	511	2	—	8
Cote d'Ivoire	13	17	22	69	1,943	2,921	67	77	94	—	—	22	—	—	—	81	—	—	4
Egypt ⁸	56	65	84	84	7,947 ⁷	10,820	94	101 ⁷	113	8,028 ⁷	7,850	76	86 ⁷	86	—	2,301	16 ^{14,15}	—	30
Ethiopia	49	64	91	91	5,847	14,532	33	55	—	1,195	4,849	14	14	—	68	693	1	1	—
Ghana ⁸	16	19	25	108	2,561	4,062	75	86	110	1,057	2,216	36	41	58	—	295	1 ¹¹	—	12
Guinea	7	8	11	44	790	1,600	37	57	91	—	657	10	—	38	—	101	1	—	10
Kenya ⁸	24	31	43	76	5,035	—	95	96	—	1,909	—	24 ¹⁰	39	—	89	—	2 ¹¹	3	—
Madagascar	12	16	22	38	2,208	4,403	103	100	145	—	1,405	18 ¹⁰	—	38	32	90	3	2	4
Malawi	10	12	16	174	2,695	3,688	68	138	141	487	761	8	32	34	4	—	1	#	—
Mali	9	11	15	13	1,017	2,114	26	62	88	258 ⁷	—	7	19 ⁷	—	20	97	1	2	7
Morocco ⁸	24	28	32	72	3,670	4,017	67	92	116	1,541	2,554	35	38	69	276	—	11	9	—
Mozambique ⁸	13	18	24	30	2,544	5,359	67	74	105	124	728	8	6	26	12	—	# ¹²	1	—
Niger	8	11	16	13	579	2,051	29	34	71	106 ⁷	389	7	7 ⁷	16	—	22	1	—	2
Nigeria ⁸	99	124	169	185	19,151	—	91	98	—	4,104	—	25	24	—	—	—	4 ^{11,16}	—	—
Rwanda	7	8	12	474	1,432	2,395	70	111	134	130	535	8	11	32	9	72	# ¹⁷	1	7
Senegal	8	9	13	67	1,108	1,783	59	68	84	250	—	16	16	—	—	—	3	—	—
Somalia	6	8	10	16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
South Africa	39	45	49	40	7,445	7,004	122	107	102	4,142	4,844	74	84	102	—	—	13 ¹⁸	—	—
South Sudan	5	6	11	17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sudan ⁸	22	27	34	18	—	—	53	—	—	—	—	24	—	—	182 ⁷	551	3 ¹¹	7	15
Tanzania	26	33	47	53	4,382	8,247	70	68	93	—	2,118	5	—	35	21	166	# ¹³	1	4
Tunisia	8	10	11	69	1,414	1,047	113	116	110	1,104 ⁷	—	45	75 ⁷	—	180	357	9	19	35
Uganda	17	23	34	171	6,559	—	74 ^{19,20}	129	—	547	—	13 ^{10,20}	16	—	56	—	1	3	—
Zambia	8	10	14	19	1,590	3,135	99	84	114	—	—	24	—	—	25 ⁷	—	2	2 ⁷	—
Zimbabwe	10	12	13	33	2,461	—	116	101	—	844	—	50	43	—	—	94	5	—	6
Asia																			
Afghanistan ⁸	14	22	30	47	749	5,768	27	21	104	—	2,416	9	—	54	—	—	2	—	—
Bangladesh	114	132	161	1,238	—	—	72	—	—	10,329	12,187	19	48	54	727	—	4	5	—
Cambodia	10	12	15	85	2,248	2,195	121	106	124	351	—	32	17	—	22	—	1	2	—
China	1,164	1,264	1,343	140	—	99,540	125	—	128	81,488	95,004	49	58	89	7,364	32,586	3	8	27
India	854	1,006	1,205	405	113,613	—	97	96	—	71,031	—	44 ¹⁰	46	—	9,404	28,526	6	10	25
Indonesia	185	214	249	137	28,509	30,784	115	110	109	14,720	21,446	44	56	83	3,126	6,234	9 ¹³	15	32
Iran	60	69	79	52	8,288	5,747	112	101	106	9,955	7,118	55	79	86	1,405	4,405	10 ¹⁴	19	55
Iraq	17	23	31	71	3,639	—	111	96	—	1,224	—	47 ¹⁰	37	—	289	—	12 ¹⁷	12	—
Japan	124	127	127	349	7,529	6,924	100	101	102	8,782	7,288	97	102	102	3,982	3,885	30 ¹³	49	61
Kazakhstan	17	16	18	7	1,208	1,008	87	99	105	2,003	1,643	98	96	98	370	652	40	29	45
Korea, Democratic People's Republic of	21	23	25	204	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Korea, Republic of	43	47	49	504	4,030	2,959	105	102	103	3,959	3,783	90	99	97	3,003	3,357	39	79	98

See notes at end of table.

Table 601.20. Selected population and enrollment statistics for countries with populations of at least 10 million in 2012, by continent and country: Selected years, 1990 through 2012—Continued

Continent and country ¹	Midyear population (in millions)			Persons per square kilo- meter, 2012	First level ²					Second level ³					Third level ⁴				
	1991	2000	2012		Enrollment (in thousands)		Gross enrollment ratio ⁵			Enrollment (in thousands)		Gross enrollment ratio ⁵			Enrollment (in thousands)		Gross enrollment ratio ⁵		
					1999–2000	2011–12	1990–91	1999–2000	2011–12	1999–2000	2011–12	1990–91	1999–2000	2011–12	1999–2000	2011–12	1990–91	1999–2000	2011–12
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Malaysia.....	18	23	29	89	3,026	—	94	98	—	2,205	—	56	66	—	549	—	7	26	—
Myanmar.....	41	47	55	84	4,858	—	106	98	—	2,268	—	23	36	—	—	—	4 ¹³	—	—
Nepal ⁶	19	25	30	209	3,780 ⁹	4,783	108	126 ⁹	139	1,348	3,015	33	37	66	94	—	5	4	—
Pakistan.....	122	152	190	247	13,987 ²¹	18,119	61 ²²	70 ²¹	93	—	10,372	23	—	37	—	1,817	3	—	10
Philippines.....	67	81	104	348	12,708	—	111	110	—	—	—	73	—	—	—	—	28	—	—
Saudi Arabia.....	16	21	27	12	—	3,436	73	—	103	—	3,169 ⁷	44	—	114 ⁷	404	1,206	12	23	51
Sri Lanka ⁶	17	19	21	332	—	1,752	106	—	98	—	2,590	74	—	99	—	271	5 ^{13,23}	—	17
Syria.....	13	16	23	123	2,775	2,553	108	108	122	1,069	2,876	52	44	74	—	—	18	—	—
Taiwan.....	20	22	23	720	—	—	100	—	—	—	—	—	—	—	—	—	—	—	—
Thailand.....	57	63	67	132	6,101	5,005	99	98	95	—	4,786	30	—	87	1,900	2,430	19 ¹²	35	51
Turkey.....	58	67	80	104	6,562	6,430	99	103	100	5,658	7,758	47	73	86	—	4,354	13	—	69
Uzbekistan.....	21	25	28	67	2,602	—	81	99	—	3,566	—	99	88	—	305	—	30	13	—
Vietnam.....	69	79	92	295	10,063	7,101	103	107	105	—	—	32	—	—	732	2,261	2	9	25
Yemen.....	13	17	25	47	—	3,685	79 ¹⁶	—	97	—	1,675	23 ¹⁶	—	47	—	—	4 ¹³	—	—
Europe																			
Belgium.....	10	10	10	345	774	744	101	105	103	1,058	794	103	145	107	356	478	40	58	71
Czech Republic.....	10	10	11	137	645	477	96	103	100	958	777	91	89	97	254	440	16 ²⁴	28	64
France.....	59	61	66	103	3,885	4,156	108	104	107	5,929	5,920	99	106	110	2,015	2,296	40	57	58
Germany ²⁵	80	82	81	233	3,656	2,937	101	103	100	8,307	7,393	98	96	101	—	2,939	34	—	62
Greece.....	10	11	11	82	645	—	98	96	—	739	—	93	89	—	422	—	36	51	—
Italy ⁸	57	58	61	208	2,836	—	103	103	—	4,404	—	83	93	—	1,770	1,926	32	49	62
Netherlands ⁶	15	16	17	494	1,279	1,277	102	109	106	1,379	1,550	120	123	130	488	794	40	53	77
Poland ⁶	38	39	38	126	3,319	2,187	98	99	101	3,988	2,611	81	100	98	1,580	2,007	22	50	73
Portugal.....	10	10	11	118	811	704	123	122	106	831	734	67	105	113	374	390	23	48	69
Romania ⁶	23	22	22	95	1,189	807	91	93	94	2,226	1,714	92	81	95	453	—	10	24	—
Russian Federation.....	148	147	143	9	6,138	5,515	109	103	101	—	9,165	93	—	95	6,331	7,983	52	55	76
Spain ⁶	39	41	47	94	2,540	2,817	109	106	103	3,246	3,296	104	111	131	1,829	1,966 ⁷	37	59	85 ⁷
Ukraine ⁸	52	49	45	77	2,079	1,584	89	109	106	5,204	2,899	93	99	98	1,812	2,391	47	49	80
United Kingdom ⁶	58	59	63	261	4,632	4,524	104	101	109	5,315	4,849	85	102	95	2,024	2,496	30	58	62
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	803	98	101	99	790	784	89	82	90	159	503	21	22	62
Dominican Republic.....	7	8	10	209	1,364	1,284	—	113	103	654	906	—	59	76	—	—	—	—	—
Guatemala.....	9	11	14	132	1,909	—	78	104	—	504	—	23 ¹³	38	—	—	—	8 ¹²	—	—
Mexico.....	86	100	117	60	14,766	14,957	114	106	105	9,094	12,139	53	70	86	1,963	3,161	15	19	29
United States.....	253	282	314	34	24,973	24,382	102	101	98	22,594	24,122	93	92	94	13,203	20,994	75	68	94
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	10	1,492	—	95	112	—	877 ⁷	—	37	78 ⁷	—	279	—	21	35	—
Brazil.....	152	174	199	24	20,212	16,135	106	—	—	—	23,134	38	—	—	2,781	7,241	11 ²⁶	—	—
Chile.....	13	15	17	23	1,799	1,504	100	100	101	1,391	1,444	73	82	89	452	1,119	21 ¹³	37	74
Colombia.....	34	39	45	44	5,221	4,742	102	119	107	3,569	4,903	50 ¹³	72	93	934	1,958	13	24	45

See notes at end of table.

Table 601.20. Selected population and enrollment statistics for countries with populations of at least 10 million in 2012, by continent and country: Selected years, 1990 through 2012—Continued

Continent and country ¹	Midyear population (in millions)			Persons per square kilo- meter, 2012	First level ²					Second level ³					Third level ⁴				
	1991	2000	2012		Enrollment (in thousands)		Gross enrollment ratio ⁵			Enrollment (in thousands)		Gross enrollment ratio ⁵			Enrollment (in thousands)		Gross enrollment ratio ⁵		
					1999–2000	2011–12	1990–91	1999–2000	2011–12	1999–2000	2011–12	1990–91	1999–2000	2011–12	1999–2000	2011–12	1990–91	1999–2000	2011–12
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Ecuador	10	12	15	55	1,925	2,118	116	113	114	917	1,531	55	59	87	—	—	20	—	—
Peru	22	26	30	23	4,338	3,479	118	122	100	2,374	2,611	67	85	90	—	—	30	—	—
Venezuela	20	23	28	32	3,328	3,486	96	101	102	1,543	2,354	35	60	85	668	—	29	28	—
Oceania																			
Australia ⁶	17	19	22	3	1,906	2,083	108	100	105	2,589	2,377	82	161	136	845	1,364	35 ²⁷	65	86

—Not available.

#Rounds to zero.

¹Selection based on total population for midyear 2012.²First-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 the Democratic People's Republic of Korea (North Korea).⁷Estimated by the United Nations Educational, Scientific, and Cultural Organization (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 1985–86.¹⁸Not including the former Independent States of Transkei, Bophuthatswana, Venda, and Ciskei.¹⁹Estimated.²⁰Data refer to government aided and maintained schools only.²¹National estimation.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 (VET) institutes.

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 February 18, 2015, from <http://data.uis.unesco.org/>; U.S. Department of Commerce, Census Bureau, International Data Base, retrieved February 18, 2015, from <http://www.census.gov/population/international/data/idb/informationGateway.php>. (This table was prepared March 2015.)

Table 601.30. School-age populations as a percentage of total population, by age group and country: Selected years, 1985 through 2011

Country	5- to 14-year-olds as a percent of total population												15- to 19-year-olds as a percent of total population											
	1985 ¹	1990 ¹	1995 ¹	1999	2004	2005	2006	2007	2008	2009	2010	2011	1985 ²	1990 ²	1995 ²	1999	2004	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	24	25
OECD average³	—	—	—	13	13	13	12	12	12	12	12	12	—	—	—	7	7	7	7	7	7	7	6	6
Australia.....	14	13	13	14	14	13	13	13	13	13	12	12	7	6	6	7	7	7	7	7	7	7	7	7
Austria.....	—	—	—	—	11	11	11	11	11	10	10	10	—	—	—	—	6	6	6	6	6	6	6	6
Belgium.....	11	11	11	12	12	12	12	11	11	11	11	12	6	5	5	6	6	6	6	6	6	6	6	6
Canada.....	13	12	12	14	13	13	12	12	12	11	11	11	6	5	5	7	7	7	7	7	7	7	7	7
Chile.....	—	—	—	—	18	18	17	16	15	15	15	15	—	—	—	—	9	9	9	9	9	9	9	8
Czech Republic.....	(⁴)	(⁴)	12	12	11	10	10	10	9	9	9	9	(⁴)	(⁴)	6	7	6	6	6	6	6	6	6	6
Denmark.....	12	10	10	12	13	13	13	13	12	12	12	12	6	6	5	5	5	6	6	6	6	6	6	6
Estonia.....	(⁴)	(⁴)	—	—	—	11	10	10	10	9	9	10	(⁴)	(⁴)	—	—	8	8	8	8	7	7	6	6
Finland.....	11	12	11	13	12	12	12	12	11	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	7	6	6	6	6	6	6
Germany ⁵	9	9	10	11	10	10	10	10	10	9	9	9	6	4	4	6	6	6	6	6	5	5	5	5
Greece.....	—	—	11	11	10	10	10	10	9	9	9	9	—	5	6	7	6	6	5	5	5	5	5	5
Hungary.....	—	—	—	—	11	11	11	10	10	10	10	10	—	—	—	—	6	6	6	6	6	6	6	6
Iceland.....	16	15	14	16	15	15	15	14	14	14	14	14	7	7	6	8	7	7	7	8	7	7	7	7
Ireland.....	18	18	15	15	14	14	13	13	13	13	13	14	8	8	8	9	8	7	7	6	6	6	6	6
Israel.....	—	—	—	—	18	18	18	18	18	18	18	18	—	—	—	—	8	8	8	8	8	8	8	8
Italy.....	13	10	9	10	10	9	9	9	9	9	9	9	6	6	5	5	5	5	5	5	5	5	5	5
Japan.....	14	12	10	10	9	9	9	9	9	9	9	9	6	7	5	6	5	5	5	5	5	5	5	5
Korea, Republic of.....	—	—	14	14	14	14	14	13	13	12	12	11	—	—	7	8	6	7	7	7	7	7	7	7
Luxembourg.....	10	10	11	12	13	13	13	12	12	12	12	12	5	4	4	6	6	6	6	6	6	6	6	6
Mexico.....	—	—	—	—	22	21	21	21	21	20	20	19	—	—	—	—	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	14	14	14	14	13	13	7	7	6	7	7	8	8	8	7	7	7	7
Norway.....	13	11	11	13	14	13	13	13	13	13	13	12	6	6	5	6	6	6	6	7	7	7	7	7
Poland.....	—	—	—	—	12	12	12	11	11	10	10	10	—	—	—	—	8	8	8	7	7	7	7	6
Portugal.....	—	—	—	—	10	10	10	10	10	10	10	10	—	—	—	—	6	6	6	6	5	5	5	5
Slovak Republic.....	(⁴)	(⁴)	—	—	13	12	12	11	11	10	10	10	(⁴)	(⁴)	—	—	8	8	8	7	7	7	7	6
Slovenia.....	(⁴)	(⁴)	—	—	—	10	10	9	9	9	9	9	(⁴)	(⁴)	—	—	—	6	6	6	6	5	5	5
Spain.....	15	13	10	10	10	9	9	9	9	9	10	10	7	7	6	7	6	5	5	5	5	5	5	5
Sweden.....	11	10	11	13	13	12	12	11	11	11	11	11	5	5	5	6	6	6	7	7	7	7	7	7
Switzerland.....	11	10	10	12	11	11	11	11	11	10	10	10	6	5	5	6	6	6	6	6	6	6	6	6
Turkey.....	21	21	20	21	19	19	19	19	18	18	18	17	9	9	9	11	9	9	9	9	9	9	9	9
United Kingdom.....	11	11	12	13	13	12	12	12	12	11	11	11	6	5	5	6	7	7	7	7	6	6	6	6
United States.....	13	13	13	15	14	14	14	13	13	13	13	13	6	5	6	7	7	7	7	7	7	7	7	7
Other reporting countries	—	—	—	—	20	19	19	18	18	17	17	16	—	—	—	—	10	10	10	9	9	9	9	9
Brazil.....	(⁴)	(⁴)	14	14	11	10	10	10	9	9	9	10	(⁴)	(⁴)	—	—	9	9	8	8	7	7	6	6

—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 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.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 21, 2014, from <http://stats.oecd.org/Index.aspx>. (This table was prepared July 2014.)

Table 601.35. Percentage of 3- and 4-year-olds and 5- to 14-year-olds enrolled in school, by country: 2000 through 2012

Country	Percent of 3- and 4-year-olds enrolled		Percent of 5- to 14-year-olds enrolled												
	2011	2012	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
OECD average¹	74.1	76.2	97.8	98.1	98.3	98.0	98.0	98.2	98.3	98.5	98.7	98.5	98.8	98.6	98.4
Australia.....	40.0	46.6	100.0	100.1	99.3	98.2	98.5	99.1	99.6	99.3	99.3	99.3	99.2	99.4	101.1
Austria.....	76.1	77.8	98.2	98.7	98.9	98.5	98.5	98.4	98.1	98.3	98.5	98.4	98.4	98.2	98.2
Belgium.....	98.6	98.6	99.1	100.2	100.1	100.3	100.4 ²	99.6 ²	99.4	99.3	99.1	98.9	98.6	98.5	98.5
Canada.....	24.1 ³	—	97.1	97.2	—	—	—	—	—	—	—	98.7	98.8	98.9	—
Chile.....	59.3	62.1	93.6	—	92.1	90.8	89.5	88.3	91.2	96.1	96.1	93.2	95.1	94.3	93.9
Czech Republic.....	72.0	70.3	99.8	99.8	99.3	99.8	99.7	99.8	99.9	99.8	98.7	98.7	98.1	97.7	98.6
Denmark.....	94.1	97.5	99.2	97.2	99.1	99.1	98.0	97.1	97.4	98.0	97.6	97.6	99.1	99.4	99.3
Estonia.....	88.1	88.9	—	—	—	—	—	104.6	102.2	100.4	100.4	100.0	96.4	95.7	95.2
Finland.....	53.1	55.1	91.6	93.5	94.4	94.6	95.1	95.1	95.1	95.3	95.5	95.5	95.5	95.7	95.7
France.....	98.7	99.1	99.8	101.0	101.1	101.4	101.6	101.3	101.0	100.9	100.7	99.8	99.6	99.4	99.1
Germany.....	92.7	93.3	99.4	100.1	97.5	97.6	97.9	98.3	98.8	99.2	99.3	99.4	99.4	98.5	99.4
Greece.....	27.2	25.6	99.8	98.1	96.3	96.7	97.2	97.5	98.1	97.7	98.9	100.1	100.7	100.0	99.2
Hungary.....	83.6	83.6	99.9	99.4	100.3	100.4	100.5	100.3	100.3	99.8	99.6	98.9	98.5	98.1	97.6
Iceland.....	96.1	96.1	98.5	98.9	98.5	98.8	98.8	98.9	98.8	98.3	98.5	98.2	98.5	98.6	98.8
Ireland.....	69.9	69.1	100.5	100.6	101.4	100.4	100.9	101.1	101.2	102.6	101.5	101.7	102.1	101.1	100.9
Israel.....	89.9	89.1	96.6	96.9	96.1	96.8	96.6	96.0	95.8	96.1	95.7	96.2	97.8	96.8	97.8
Italy.....	94.3	94.2	99.7	99.4	101.7	101.9	101.6	101.2	100.7	100.3	100.3	99.8	99.5	99.0	98.6
Japan.....	84.7	85.9	101.2	101.0	100.8	100.7	100.7	100.7	100.7	100.5	100.7	101.0	101.5	101.1	101.3
Korea, Republic of ..	82.4	86.3	92.3	92.6	92.7	93.2	93.5	94.1	94.9	95.7	95.1	95.7	99.7	99.1	98.8
Luxembourg.....	83.4	85.4	95.3	92.2	93.4	96.7	96.4	96.7	96.2	95.9	95.8	95.6	95.8	96.0	97.9
Mexico.....	72.4	63.3	94.8	95.0	95.7	96.9	97.7	99.9	100.9	102.1	103.4	104.6	106.1	107.7	100.2
Netherlands.....	93.2	91.4	99.4	99.3	99.3	99.7	99.6	99.0	99.6	99.5	99.6	99.5	99.5	99.8	99.8
New Zealand.....	90.0	90.7	99.0	99.3	99.5	100.1	100.5	100.9	101.0	99.7	100.2	100.6	100.9	101.0	100.7
Norway.....	96.1	96.1	97.4	97.6	97.9	98.1	98.3	98.4	98.8	99.2	99.5	99.5	99.5	99.6	99.5
Poland.....	56.8	58.0	93.6	94.3	94.4	94.2	94.5	94.6	94.5	94.5	94.0	94.1	94.9	95.3	95.5
Portugal.....	81.6	84.9	105.2	107.0	106.0	105.3	104.1	103.9	103.8	104.2	104.1	103.1	102.4	102.1	102.1
Slovak Republic.....	66.5	67.5	—	97.9	98.1	97.3	97.3	97.1	96.8	96.8	96.6	96.1	95.8	95.5	94.5
Slovenia.....	85.8	87.1	—	—	—	—	—	96.5	96.4	96.2	96.8	97.1	97.1	97.1	97.4
Spain.....	98.7	96.1	104.4	103.6	103.8	102.5	101.8	101.4	101.0	100.7	100.4	100.1	99.5	99.0	97.8
Sweden.....	93.0	93.4	97.8	98.1	98.2	98.6	99.1	99.5	98.8	100.3	99.3	98.7	98.5	97.4	99.0
Switzerland.....	22.1	21.6	98.8	98.7	98.6	99.3	99.6	99.6	100.3	100.4	100.2	100.0	100.1	99.5	99.3
Turkey.....	11.6	12.0	80.2	83.5	—	82.0	81.2	81.8	82.9	84.3	91.9	91.3	94.1	94.9	95.2
United Kingdom.....	91.4	95.5	98.9	98.7	98.9	100.5	100.4	101.0	100.7	99.3	101.5	101.4	103.1	100.7	98.0
United States.....	52.4	53.5	99.3	102.1	96.9	97.1	97.3	97.7	98.0	98.3	98.6	97.1	96.8	96.2	97.3
Other reporting countries															
Brazil.....	46.5	49.3	89.8	91.3	91.8	—	93.0	93.1	—	91.7	95.6	96.5	96.2	94.9	94.8
Russian Federation.....	73.3	73.4	—	83.3	84.6	94.2	90.4	81.5	—	—	93.8	93.5	93.1	92.1	92.7

—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.

²Excludes the German-speaking Community of Belgium.

³Data are for 2010.

NOTE: For each country, this table shows the number of persons in each age group who are enrolled in that country as a percentage of that country's total population in the specified age group. However, some of a country's population may be enrolled in a different country, and some persons enrolled in the country may be residents of a different country. Enrollment rates may be underestimated for countries such as Luxembourg that are net exporters of students and may be overestimated for countries that are net importers. If a country enrolls many residents of other countries, the country's total population in the specified age group can be smaller than the total number enrolled, resulting in enrollment estimates exceeding 100 percent.

SOURCE: Organization for Economic Cooperation and Development (OECD), Education at a Glance, 2002 through 2014. (This table was prepared August 2014.)

Table 601.40. Percentage of the population enrolled in secondary and postsecondary education, by age group and country: Selected years, 2002 through 2012

Country	Secondary education, 2012								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	2011	2012	2002	2005	2011	2012	2002	2005	2011	2012
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
OECD average ¹	93	88	25	56	27	13	8	1	26	28	31	32	21	23	26	27	9	10	12	12
Australia.....	96	82	25	41	25	20	15	3	35	34	37	39	20	21	25	25	10	10	11	11
Austria.....	90	75	19	44	19	8	4	#	15	16	21	22	18	20	27	27	9	9	16	16
Belgium.....	101	99	23	48	23	14	10	4	42	43	46	46	18	19	24	23	5	6	7	7
Canada.....	—	—	—	—	—	—	—	—	—	—	35	37	—	—	20	20	—	—	8	8
Chile.....	89	86	12	31	10	4	2	#	—	—	39	39	—	—	30	30	—	—	12	12
Czech Republic.....	98	96	35	86	43	10	4	#	20	23	28	28	16	21	28	30	5	6	8	8
Denmark.....	95	90	50	86	58	33	24	2	10	10	15	16	29	34	40	38	16	20	20	20
Estonia.....	96	92	27	80	23	10	6	#	—	32	31	31	—	22	26	26	—	12	11	11
Finland.....	94	94	40	93	33	19	17	4	21	24	22	21	39	40	37	37	19	20	20	20
France.....	92	85	19	43	20	8	4	#	35	36	38	39	20	20	21	21	5	5	5	5
Germany.....	95	89	38	77	43	24	15	#	12	13	19	20	20	23	27	27	12	13	15	15
Greece.....	96	96	11	20	12	9	5	#	46	65	48	49	24	18	27	29	11	8	55 ²	42
Hungary.....	98	99	32	76	34	14	8	1	24	29	28	28	18	23	24	25	7	9	8	8
Iceland.....	96	90	54	83	73	37	25	3	10	12	14	14	24	28	32	32	12	16	17	18
Ireland.....	101	88	13	45	4	1	1	#	36	38	41	44	11	13	12	14	5	5	—	—
Israel.....	93	89	5	17	2	1	#	#	10	12	13	13	26	25	27	27	17	15	20	20
Italy.....	92	86	26	75	21	8	4	#	24	29	27	27	21	23	25	25	8	8	9	9
Japan.....	97	92	1	3	1	—	—	#	—	—	—	—	—	—	—	—	—	—	—	—
Korea, Republic of.....	97	93	2	6	#	#	#	#	56	65	68	68	32	32	37	37	7	6	7	8
Luxembourg.....	88	80	38	69	42	27	14	#	—	—	—	—	—	—	—	—	—	—	—	—
Mexico.....	62	50	13	19	27	3	1	2	15	16	21	21	7	9	11	11	3	3	3	3
Netherlands.....	99	91	40	66	44	30	19	2	28	29	36	36	22	24	31	31	6	7	12	11
New Zealand.....	97	84	13	29	12	8	6	2	30	34	37	37	17	23	22	22	8	11	11	11
Norway.....	95	93	38	88	39	19	9	1	17	19	21	21	27	30	30	29	13	14	14	13
Poland.....	96	95	36	92	42	12	6	#	27	31	35	35	26	30	31	32	7	6	6	6
Portugal.....	96	92	26	52	28	15	9	1	25	27	34	34	20	21	20	22	8	8	7	8
Slovak Republic.....	93	90	32	82	40	9	2	#	21	22	25	26	13	16	24	25	4	5	6	6
Slovenia.....	97	95	31	87	24	11	9	1	—	37	44	44	—	35	37	39	—	11	10	10
Spain.....	97	90	25	45	28	18	12	1	35	34	38	40	24	22	26	26	8	9	9	10
Sweden.....	99	98	36	94	25	14	13	2	17	17	18	18	28	32	28	28	13	16	16	15
Switzerland.....	89	86	39	77	48	23	11	#	10	12	15	15	18	20	25	25	9	10	12	12
Turkey.....	72	59	6	23	—	—	—	—	—	20	33	35	—	11	27	27	—	4	11	11
United Kingdom.....	94	85	16	34	15	9	7	2	30	28	33	34	12	13	13	13	6	7	7	6
United States.....	93	82	8	30	5	#	#	#	46	45	50	49	25	23	29	28	11	11	14	14
Other reporting countries																				
Brazil.....	90	84	29	54	30	18	13	2	3	10	15	15	10	9	15	16	5	5	9	9
Russian Federation.....	69	54	6	17	6	3	1	#	42	41	49	52	10	26	20	20	—	—	9	9

—Not available.

#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 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 January 5, 2015, from <http://stats.oecd.org/Index.aspx>. (This table was prepared January 2015.)

Table 601.50. Pupil/teacher ratios in public and private elementary and secondary schools, by level of education and country: Selected years, 2000 through 2012

Country	Elementary school							Junior high school (lower secondary)							Senior high school (upper secondary)						
	2000	2005	2008	2009	2010	2011	2012	2000	2005	2008	2009	2010	2011	2012	2000	2005	2008	2009	2010	2011	2012
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	16.4	16.0	15.9	15.4	15.2	—	14.0	13.7	13.5	13.6	13.3	13.3	13.7	13.5	13.3	13.4	13.6	13.7	13.5
Australia.....	17.3	16.2	15.8	15.8	15.7	15.6	15.5	—	—	—	—	—	—	—	—	12.1 ^{2,3}	12.0 ^{2,3}	12.0 ^{2,3}	12.0 ^{2,3}	12.0 ^{2,3}	12.0 ^{2,3}
Austria.....	—	14.1	12.9	12.6	12.2	12.1	12.0	—	10.6	9.9	9.6	9.3	9.1	9.0	—	11.3	10.5	10.2	10.1	9.8	9.8
Belgium.....	15.0 ⁴	12.8	12.6 ⁵	12.5 ⁵	12.4 ⁵	12.4 ⁵	12.5 ⁵	—	9.4	8.1 ⁵	8.1 ⁵	8.1 ⁵	8.1 ⁵	8.2 ⁵	9.7 ^{3,6}	9.9 ⁶	10.8 ^{5,6}	10.2 ^{5,6}	10.1 ^{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}	15.8 ^{4,7}	—	19.5	—	14.7	15.8	14.1	14.1	—
Chile.....	—	25.9	24.1	22.4	24.6	23.1	22.1	—	25.9	24.1	22.4	25.1	23.6	22.4	—	26.6	25.2	24.7	26.1	25.4	24.0
Czech Republic.....	19.7	17.5	18.1	18.4	18.7	18.7	18.9	14.7	13.5	11.8	11.5	11.2	11.1	11.1	11.5	12.8	12.2	12.2	12.1	11.7	11.3
Denmark.....	10.4	—	—	—	—	—	—	11.4	11.9 ⁷	10.1 ⁷	9.9 ⁷	11.5 ⁷	11.8 ⁷	11.9 ⁷	14.4	—	—	—	—	—	—
Estonia.....	—	—	16.4	16.2	16.2	13.2	13.1	—	—	16.0	15.7	14.9	10.1	9.9	—	—	12.4 ⁶	16.8 ⁶	16.6 ⁶	13.7	14.1 ⁶
Finland.....	16.9	15.9	14.4	13.6	14.0	13.7	13.6	10.7	10.0	10.6	10.1	9.8	9.3	8.9	17.0 ^{6,8}	18.0 ^{6,8}	15.9 ⁶	16.6 ⁶	17.1 ⁶	16.3 ⁶	16.1 ⁶
France.....	19.8	19.4	19.9 ⁵	19.7 ⁵	18.7 ⁵	18.4 ⁵	18.9 ⁵	14.7	14.2	14.6 ⁵	14.9 ⁵	15.0 ⁵	14.8 ⁵	15.5 ⁵	10.4	10.3	9.4 ⁵	9.6 ⁵	9.7 ⁵	10.0 ⁵	9.9 ⁵
Germany.....	19.8	18.8	18.0	17.4	16.7	16.3	16.0	15.7	15.5	15.0	15.1	14.9	14.2	14.0	13.9	14.0	14.0	13.9	13.2	13.8	13.7
Greece.....	13.4	11.1	—	—	—	—	9.4	10.8	7.9	—	—	—	—	—	10.5	8.8	—	—	—	—	—
Hungary.....	10.9	10.6	10.6	10.7	10.8	10.7	10.7	10.9	10.4	10.9	10.8	10.7	10.5	10.6	11.4 ⁶	12.2	12.3	12.8	12.5	12.4	12.5
Iceland.....	—	—	—	—	—	10.2	10.2	12.7 ⁷	11.3 ⁷	10.0 ⁷	9.9 ⁷	10.3 ⁷	10.6	10.6	9.7	10.8 ⁶	10.6 ⁶	10.9 ⁶	11.3	11.5 ⁶	11.5 ⁶
Ireland.....	21.5	17.9	17.8	15.9	15.9	15.7	16.2	—	—	—	—	—	—	—	15.9 ^{3,6}	15.5 ^{3,6}	12.8 ^{3,6,9}	12.6 ^{3,6,9}	14.4 ^{3,6,9}	14.4 ^{3,6}	15.0 ^{3,6}
Israel.....	—	17.3	16.3	17.0	20.6 ⁹	15.9 ⁹	15.2	—	13.4	12.2	13.7	12.8 ⁹	13.6 ⁹	13.6	—	13.4	10.9	10.8	11.0 ⁹	11.3 ⁹	11.0
Italy.....	11.0	10.6	10.6 ⁹	10.7 ⁹	11.3 ⁹	11.7 ⁹	12.1 ⁹	10.4	10.1	9.7 ⁹	10.0 ⁹	11.9 ⁹	11.5 ⁹	11.8 ⁹	10.2	11.0	11.8 ⁹	11.8 ⁹	12.1 ⁹	12.8 ⁹	13.0 ⁹
Japan.....	20.9	19.4	18.8	18.6	18.4	18.1	17.7	16.8	15.1	14.7	14.5	14.4	14.2	14.1	14.0	13.0 ⁶	12.3 ⁶	12.2 ⁶	12.2 ⁶	12.2 ⁶	12.1 ⁶
Korea, Republic of..	32.1	28.0	24.1	22.5	21.1	19.6	18.4	21.5	20.8	20.2	19.9	19.7	18.8	18.1	20.9	16.0	16.5	16.7	16.5	15.8	15.4
Luxembourg.....	15.9 ⁹	—	12.1 ⁹	11.6	10.1	9.9	9.2	—	—	—	—	—	—	10.7	9.2 ^{3,9}	9.0 ^{3,9}	9.1 ^{3,9}	9.1 ³	9.1 ³	9.6 ³	7.6
Mexico.....	27.2	28.3	28.0	28.1	28.1	28.1	28.0	34.8	33.7	33.9	33.0	32.7	31.9	31.9	26.5	25.8	25.8	25.6	26.9	26.8	26.9
Netherlands.....	16.8 ⁴	15.9 ⁴	15.8 ^{4,9}	15.8 ^{4,9}	15.7 ^{4,9}	15.8	15.8	—	—	—	—	—	15.3	15.6	17.1 ³	16.2 ³	15.8 ^{3,6,9}	16.1 ^{3,6,9}	16.5 ^{3,6,9}	18.2	18.6
New Zealand.....	20.6	18.1	17.1	16.3	16.2	16.3	16.4	19.9	16.8	16.2	16.3	16.3	16.3	16.4	13.1	12.9	12.8	12.8	14.4	13.9	13.7
Norway.....	12.4	—	10.8 ⁹	10.7 ⁹	10.5 ⁹	10.4 ⁹	10.3	9.9	—	10.1 ⁹	9.9 ⁹	9.9 ⁹	10.0 ⁹	10.4	9.7	—	9.9 ^{6,9}	9.4 ^{6,9}	9.4 ⁹	9.7 ^{6,9}	9.6 ⁶
Poland.....	12.7	11.7	10.5	10.2	10.0	11.0	11.0	11.5	12.7	12.9	12.9	12.7	10.0	9.9	16.9	12.9	12.2	12.0	12.1	11.1	10.9
Portugal.....	12.1	10.8	11.3	11.3	10.9	11.2	11.9	10.4	8.2	8.1	7.6	7.9	8.2	9.6	7.9	8.0	7.3 ⁶	7.7 ⁶	7.2 ⁶	7.3 ⁶	7.6 ⁶
Slovak Republic.....	18.3	18.9	18.6	17.7	17.1	16.9	16.8	13.5	14.1	14.5	14.0	13.6	13.1	12.8	12.8	14.3	15.1	15.1	14.6	14.3	13.9
Slovenia.....	—	15.0	15.8	16.7	16.2	16.0	15.9	—	11.1	8.9	7.9	8.0	7.9	7.9	—	14.6	13.7 ⁶	14.3 ⁶	14.3 ⁶	14.3 ⁶	14.1 ⁶
Spain.....	14.9	14.3	13.1	13.3	13.2	13.2	13.4	—	12.5	10.3	10.1	10.1	10.3	10.6	11.9 ³	8.1	8.7	9.3	9.6	9.8	9.9
Sweden.....	12.8	12.2	12.2	12.1	11.7	11.3	11.8	12.8	12.0	11.4	11.3	11.4	11.3	11.3	15.2	14.0	14.7	13.2	13.1	13.0	13.2
Switzerland ⁹	—	14.6	15.4	15.4	14.9	—	—	—	11.7	12.1	12.0	11.8	—	—	—	10.5 ²	10.4 ²	10.4 ²	10.3 ²	—	—
Turkey.....	30.5	25.8	24.4	22.9	21.7	21.0	20.1	—	↑	↑	↑	↑	↑	20.1	14.0	16.2	17.0	16.9	17.6	17.8	16.2
United Kingdom.....	21.2	20.7	20.2	19.9	19.8	19.9	21.1	17.6 ²	17.0	15.0	16.1	17.1	15.2	14.2	12.5 ²	11.8 ^{2,6}	12.4 ⁶	12.3 ⁶	15.2 ⁶	17.3	17.1
United States.....	15.8	14.9	15.0	14.8	14.5	15.3	15.3	16.3	15.1	14.8	14.3	14.0	15.2	15.3	14.1	16.0	15.6	15.1	15.0	15.3	15.3
Other reporting countries																					
Brazil.....	—	22.9	24.5	24.0	23.4	22.5	21.7	—	18.1	21.2	21.0	20.4	19.8	19.1	—	17.6	18.4	18.1	17.3	16.9	16.8
Russian Federation.....	—	—	17.3 ⁹	17.9 ⁹	19.2 ⁹	20.0 ⁹	20.1 ⁹	—	—	—	—	—	—	8.9 ⁹	—	11.2 ^{6,10}	8.7 ^{3,6,11}	8.7 ^{3,6,11}	11.3 ^{3,6,11}	8.7 ^{3,6,9}	15.3 ⁹

—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.⁸Includes occupation-specific education corresponding to that offered at the vocational associate's degree level in the United States.⁹Public schools only.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 1997 (ISCED:97) level 1 (U.S. grades 1 through 6), junior high school corresponds to ISCED:97 level 2 (U.S. grades 7 through 9), and senior high school corresponds to ISCED:97 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 2014. (This table was prepared August 2014.)

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: 2012

Country	Statutory teaching and total working time												Average class size	
	Number of weeks teaching			Number of days teaching			Net teaching time in hours			Total working time in hours				
	Elementary school	Junior high school (lower secondary)	Senior high school (upper secondary) ¹	Elementary school	Junior high school (lower secondary)	Senior high school (upper secondary) ¹	Elementary school	Junior high school (lower secondary)	Senior high school (upper secondary) ¹	Elementary school	Junior high school (lower secondary)	Senior high school (upper secondary) ¹	Elementary school	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	183	182	180	782	694	655	1,200	1,173	1,142	21	24
Australia ³	40	40	40	197	197	195	871	809	801	1,211	1,234	1,234	23	23
Austria ³	38	38	38	180	180	180	779	607	589	†	†	†	18	21
Belgium (Flemish) ³	37	37	37	176	174	174	748	652	609	915	†	†	—	—
Belgium (French) ³	37	37	37	181	181	181	721	661	601	†	†	†	21	—
Canada ³	37	37	37	183	183	183	802	747	751	1,223	1,224	1,229	—	—
Chile ⁴	38	38	38	179	179	179	1,103	1,103	1,103	1,839	1,839	1,839	29	31
Czech Republic ³	39	39	39	188	188	188	827	620	592	†	†	†	20	21
Denmark ⁵	†	†	†	†	†	†	659	659	369	†	†	†	21	21
England ⁵	38	38	38	189	189	189	680	692	692	1,259	1,259	1,259	—	—
Estonia ⁴	35	35	35	172	172	172	619	619	568	1,540	1,540	1,540	17	16
Finland ⁶	38	38	38	187	187	187	673	589	547	787	703	642	19	20
France ³	36	36	36	144	†	†	924	648	648	972	†	†	23	25
Germany ³	40	40	40	193	193	193	804	755	718	†	†	†	21	25
Greece ³	35	31	31	171	152	152	569	415	415	1,140	1,170	1,170	17	22
Hungary ⁶	37	37	37	183	183	183	604	604	604	—	—	—	21	21
Iceland ³	37	37	35	180	180	170	624	624	544	1,650	1,650	1,720	19	20
Ireland ³	37	33	33	183	167	167	915	735	735	1,079	778	778	24	—
Israel ³	38	37	37	182	175	175	838	629	558	1,219	924	781	28	29
Italy ³	39	39	39	171	171	171	752	616	616	†	†	†	19	22
Japan ⁵	40	40	39	200	200	196	731	602	510	†	†	†	28	33
Korea, Republic of ⁶	38	38	38	190	190	190	694	568	549	†	†	†	25	34
Luxembourg ³	36	36	36	176	176	176	810	739	739	990	828	828	15	19
Mexico ³	42	42	36	200	200	171	800	1,047	838	800	1,167	971	20	27
Netherlands ⁴	40	—	—	195	—	—	930	750	750	†	†	†	—	—
New Zealand ³	39	39	38	195	193	190	935	848	760	1,560	1,255	950	—	—
Norway ³	38	38	38	190	190	190	741	663	523	1,300	1,225	1,150	†	†
Poland ³	38	38	37	184	182	180	633	561	558	—	—	—	19	23
Portugal ⁴	37	37	37	168	168	168	756	616	616	1,027	926	926	21	22
Scotland ⁴	38	38	38	190	190	190	855	855	855	1,045	1,045	1,045	—	—
Slovak Republic ³	38	38	38	184	184	184	819	635	607	—	—	—	17	20
Slovenia ³	40	40	40	190	190	190	627	627	570	†	†	†	19	20
Spain ³	37	37	36	176	176	171	880	713	693	1,140	1,140	1,140	20	24
Sweden ³	†	†	†	†	†	†	—	—	—	1,360	1,360	1,360	—	—
Switzerland	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Turkey ³	38	38	38	180	180	180	720	504	567	980	836	921	24	29
United Kingdom	—	—	—	—	—	—	—	—	—	—	—	—	26	20
United States ⁵	36	36	36	180	180	180	1,131	1,085	1,076	1,362	1,366	1,365	22	28
Other reporting countries														
Brazil	42	42	42	203	203	203	—	—	—	†	†	†	25	29
China	—	—	—	—	—	—	—	—	—	—	—	—	38	52
Indonesia	44	44	44	251	163	163	1,255	734	734	—	—	—	24	36
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.

NOTE: In this table, elementary school corresponds to International Standard Classification of Education 1997 (ISCED:97) level 1 (U.S. grades 1 through 6), junior high school corresponds to ISCED:97 level 2 (U.S. grades 7 through 9), and senior high school corresponds to ISCED:97 level 3 (U.S. grades 10 through 12).

SOURCE: Organization for Economic Cooperation and Development (OECD), *Education at a Glance*, 2014. (This table was prepared August 2014.)

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							
			2011											
Country or other education system ¹	2001	2006	Total	Male	Female	At or before second grade	At third grade							
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 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 ⁹	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 IAE 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 (IAE), 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		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
<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)	†	†		
<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)	†	†		
<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 (2.3)	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)	483 (1.9)	484 (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)	477 (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 (3.7)	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	13	14	15	16	17	18	19	20	21	22			
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.

!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)	26.7 (2.58)	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 2012

[Standard errors appear in parentheses]

Country	2001		2005		2011		2012					
	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 average¹	64.2	74.0	72.8	82.6	74.4 (0.04)	81.9 (0.07)	75.7 (0.03)	82.7 (0.07)	79.4 (0.06)	73.7 (0.07)	65.2 (0.08)	
Australia	58.9	70.7	65.0	78.6	74.1 (0.25)	84.4 (0.41)	76.4 (0.25)	86.6 (0.41)	80.9 (0.45)	70.9 (0.51)	63.5 (0.59)	
Austria ^{2,3}	75.7	83.3	80.6	87.5	82.5 (0.26)	88.2 (0.44)	83.1 (0.24)	88.6 (0.50)	86.3 (0.45)	82.8 (0.41)	73.8 (0.55)	
Belgium ²	58.5	75.3	66.1	80.9	71.3 (0.19)	81.9 (0.35)	71.6 (0.19)	81.9 (0.35)	78.8 (0.35)	68.9 (0.38)	56.3 (0.43)	
Canada	81.9	89.3	85.2	90.8	88.8 (0.13)	92.5 (0.19)	89.1 (0.13)	92.2 (0.19)	91.9 (0.19)	88.1 (0.22)	84.0 (0.26)	
Chile ⁴	—	—	50.0	64.3	57.5 (0.16)	76.6 (0.27)	— (†)	— (†)	— (†)	— (†)	— (†)	
Czech Republic	86.2	92.5	89.9	93.9	92.3 (0.07)	94.3 (0.14)	92.5 (0.07)	93.7 (0.15)	95.4 (0.12)	93.3 (0.15)	87.0 (0.17)	
Denmark	80.2	86.3	81.0	87.4	76.9 (0.17)	80.3 (0.38)	77.9 (0.16)	81.7 (0.36)	82.3 (0.30)	77.3 (0.29)	70.5 (0.35)	
Estonia	—	—	89.1	87.4	88.9 (0.29)	85.7 (0.71)	89.8 (0.41)	86.4 (0.95)	90.2 (0.77)	94.2 (0.62)	88.3 (0.83)	
Finland	73.8	86.8	78.8	89.4	83.7 (0.18)	90.2 (0.31)	84.8 (0.18)	90.0 (0.32)	89.7 (0.31)	86.9 (0.32)	74.0 (0.40)	
France ⁵	63.9	78.4	66.3	81.1	71.6 (0.09)	83.3 (0.16)	72.5 (0.09)	83.3 (0.16)	79.5 (0.16)	68.6 (0.17)	59.1 (0.19)	
Germany	82.6	85.5	83.1	84.1	86.3 (0.12)	86.8 (0.21)	86.3 (0.12)	86.8 (0.32)	86.7 (0.31)	87.1 (0.27)	84.4 (0.31)	
Greece	51.4	72.6	57.1	73.6	67.1 (0.12)	80.1 (0.22)	68.5 (0.13)	82.5 (0.23)	74.5 (0.24)	64.8 (0.26)	49.6 (0.28)	
Hungary	70.2	80.9	76.4	85.0	81.8 (0.27)	87.3 (0.32)	82.1 (0.10)	87.5 (0.18)	83.6 (0.19)	82.0 (0.21)	74.9 (0.21)	
Iceland	56.9	61.2	62.9	69.0	70.7 (0.48)	74.7 (0.90)	71.0 (0.48)	75.0 (0.87)	75.4 (0.91)	71.0 (0.94)	61.4 (1.12)	
Ireland	57.6	73.4	64.5	81.1	73.4 (0.13)	85.0 (0.20)	74.6 (0.13)	85.9 (0.19)	80.2 (0.21)	69.9 (0.27)	55.1 (0.32)	
Israel	—	—	79.2	85.7	83.0 (0.15)	89.7 (0.23)	84.5 (0.15)	90.3 (0.23)	86.1 (0.28)	81.1 (0.35)	77.4 (0.41)	
Italy	43.3	57.5	50.1	65.9	56.0 (0.14)	71.3 (0.36)	57.2 (0.14)	71.8 (0.37)	62.0 (0.29)	52.7 (0.28)	42.4 (0.28)	
Japan	83.1	93.6	—	—	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	
Korea, Republic of	68.0	94.6	75.5	97.3	81.4 (0.20)	98.0 (0.14)	82.4 (0.20)	98.2 (0.14)	96.4 (0.19)	78.1 (0.42)	47.6 (0.63)	
Luxembourg	52.7	59.4	65.9	76.5	77.3 (0.40)	83.4 (0.76)	78.3 (0.31)	86.1 (0.58)	80.4 (0.60)	75.7 (0.59)	68.6 (0.67)	
Mexico	21.6	25.4	21.3	24.0	36.3 (0.06)	44.0 (0.12)	37.3 (0.06)	45.8 (0.12)	37.2 (0.12)	34.6 (0.13)	24.9 (0.15)	
Netherlands ^{2,5}	65.0	74.0	71.8	81.3	72.3 (0.09)	81.7 (0.18)	73.4 (0.09)	83.3 (0.17)	78.1 (0.17)	71.5 (0.16)	61.4 (0.20)	
New Zealand	75.7	81.8	78.7	85.2	74.1 (0.36)	80.4 (0.71)	74.1 (0.37)	80.0 (0.72)	77.9 (0.67)	73.0 (0.70)	64.0 (0.82)	
Norway ²	85.2	93.4	77.2	83.5	81.9 (0.16)	83.8 (0.33)	82.1 (0.16)	82.1 (0.36)	85.5 (0.29)	78.7 (0.34)	81.6 (0.33)	
Poland	45.9	51.7	51.4	62.5	89.1 (0.06)	94.1 (0.10)	89.6 (0.06)	94.4 (0.10)	92.4 (0.12)	90.3 (0.12)	81.2 (0.15)	
Portugal	19.9	32.5	26.5	42.8	35.0 (0.16)	55.7 (0.39)	37.6 (0.17)	57.9 (0.39)	43.3 (0.35)	27.2 (0.28)	19.8 (0.26)	
Slovak Republic	85.1	93.7	85.7	93.0	91.3 (0.23)	94.1 (0.46)	91.7 (0.23)	94.1 (0.41)	94.5 (0.39)	91.7 (0.44)	85.7 (0.55)	
Slovenia	—	—	80.3	91.2	84.5 (0.19)	94.0 (0.27)	85.0 (0.19)	94.2 (0.27)	88.7 (0.37)	82.7 (0.38)	74.4 (0.45)	
Spain	40.0	57.1	48.8	63.9	54.0 (0.29)	64.8 (0.59)	54.6 (0.08)	64.2 (0.17)	62.0 (0.15)	51.4 (0.15)	35.3 (0.16)	
Sweden	80.6	90.7	83.6	90.6	87.0 (0.08)	90.9 (0.14)	87.5 (0.08)	90.8 (0.14)	91.7 (0.13)	87.7 (0.15)	79.5 (0.18)	
Switzerland	87.4	91.8	83.0	87.9	85.6 (0.12)	89.1 (0.24)	86.3 (0.13)	89.4 (0.28)	87.6 (0.23)	85.9 (0.23)	81.9 (0.27)	
Turkey	24.3	30.2	27.2	35.7	32.1 (0.09)	43.5 (0.18)	33.9 (0.09)	45.9 (0.18)	32.0 (0.17)	25.3 (0.17)	20.7 (0.19)	
United Kingdom ^{3,5}	63.0	68.0	66.7	72.9	76.8 (0.09)	84.3 (0.17)	78.1 (0.09)	84.8 (0.16)	81.4 (0.16)	75.8 (0.18)	69.1 (0.20)	
United States	87.7	88.1	87.8	86.7	89.3 (0.13)	89.0 (0.25)	89.3 (0.16)	89.3 (0.29)	89.0 (0.24)	89.1 (0.26)	89.9 (0.23)	
Other reporting countries												
Brazil ⁴	—	—	29.5	38.0	43.3 (0.11)	56.7 (0.19)	44.9 (0.11)	58.9 (0.19)	45.5 (0.21)	38.5 (0.22)	27.1 (0.25)	
Russian Federation ⁶	88.0	91.0	—	—	94.1 (0.05)	94.0 (0.10)	94.3 (0.05)	94.4 (0.10)	95.2 (0.10)	95.8 (0.09)	91.6 (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 secondary programs.

⁴Data from 2004 reported for 2005.

⁵Data in 2001 columns include some short secondary (ISCED 3C) 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, 2013, and 2014. (This table was prepared November 2014.)

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 2012

[Standard errors appear in parentheses]

Country	Total, any postsecondary degree				2012										
	2001		2012		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	
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
OECD average³	22.6	27.3	32.2 (0.04)	39.2 (0.09)	9.8 (0.03)	10.0 (0.06)	10.8 (0.06)	10.2 (0.06)	8.6 (0.06)	23.5 (0.04)	30.3 (0.08)	25.9 (0.08)	20.1 (0.07)	16.9 (0.07)	
Australia	29.0	33.5	41.3 (0.27)	47.2 (0.56)	11.5 (0.17)	10.5 (0.33)	12.8 (0.34)	12.3 (0.36)	10.1 (0.35)	29.8 (0.25)	36.7 (0.53)	32.2 (0.50)	25.2 (0.47)	23.0 (0.50)	
Austria	14.1	14.3	20.0 (0.23)	23.0 (0.50)	7.3 (0.14)	5.2 (0.29)	7.1 (0.28)	8.2 (0.29)	8.5 (0.30)	12.7 (0.21)	17.8 (0.47)	14.4 (0.46)	10.3 (0.33)	8.2 (0.37)	
Belgium	27.6	37.5	35.3 (0.20)	43.0 (0.45)	16.9 (0.16)	18.2 (0.35)	19.5 (0.34)	16.4 (0.30)	13.4 (0.29)	18.4 (0.17)	24.8 (0.39)	20.7 (0.35)	16.0 (0.30)	12.0 (0.28)	
Canada	41.6	50.5	52.6 (0.23)	57.3 (0.40)	24.9 (0.16)	25.5 (0.32)	26.6 (0.32)	25.2 (0.28)	22.0 (0.28)	27.7 (0.23)	31.8 (0.41)	32.4 (0.41)	24.4 (0.34)	22.5 (0.34)	
Chile ^{4,5}	10.1	12.3	17.8 (0.12)	22.5 (0.26)	5.8 (0.07)	6.1 (0.15)	7.0 (0.16)	6.0 (0.14)	3.7 (0.13)	12.0 (0.10)	16.4 (0.23)	12.0 (0.20)	9.5 (0.18)	9.4 (0.21)	
Czech Republic ⁶	11.1	11.3	19.3 (0.11)	27.8 (0.28)	— (†)	— (†)	— (†)	— (†)	— (†)	19.3 (0.11)	27.8 (0.28)	18.6 (0.22)	17.6 (0.22)	12.6 (0.17)	
Denmark	26.8	27.5	34.8 (0.19)	40.2 (0.46)	5.6 (0.09)	5.3 (0.21)	6.4 (0.19)	5.5 (0.16)	4.9 (0.17)	29.2 (0.18)	34.9 (0.45)	32.4 (0.37)	26.8 (0.31)	23.7 (0.33)	
Estonia	—	—	37.3 (0.69)	39.8 (1.46)	12.6 (0.45)	13.1 (0.98)	12.0 (0.83)	13.3 (0.85)	12.1 (0.88)	24.6 (0.64)	26.8 (1.37)	24.2 (1.25)	23.9 (1.16)	23.4 (1.18)	
Finland	32.3	38.2	39.7 (0.24)	39.7 (0.52)	13.5 (0.17)	0.9 (0.10)	14.8 (0.37)	20.7 (0.38)	16.6 (0.34)	26.2 (0.22)	38.9 (0.51)	32.7 (0.48)	20.6 (0.38)	14.8 (0.32)	
France	23.0	34.2	30.9 (0.09)	42.9 (0.21)	11.9 (0.06)	16.1 (0.16)	15.5 (0.14)	9.6 (0.11)	6.7 (0.09)	18.9 (0.08)	26.8 (0.19)	22.1 (0.16)	14.3 (0.13)	12.9 (0.13)	
Germany	23.2	21.8	28.1 (0.08)	29.0 (0.19)	11.1 (0.06)	9.5 (0.11)	10.9 (0.12)	12.4 (0.11)	11.2 (0.12)	17.0 (0.07)	19.5 (0.16)	18.6 (0.15)	15.3 (0.12)	15.2 (0.14)	
Greece	17.8	24.0	26.7 (0.12)	34.7 (0.29)	8.8 (0.08)	13.5 (0.21)	8.2 (0.15)	8.1 (0.15)	5.2 (0.12)	17.9 (0.11)	21.3 (0.25)	18.9 (0.21)	16.2 (0.20)	14.8 (0.20)	
Hungary	14.1	14.7	22.0 (0.11)	30.4 (0.26)	0.7 (0.02)	1.5 (0.07)	0.8 (0.05)	— (†)	— (†)	21.3 (0.11)	29.0 (0.25)	21.6 (0.21)	18.9 (0.21)	15.3 (0.18)	
Iceland	24.8	26.6	35.2 (0.50)	38.4 (0.98)	4.1 (0.21)	2.6 (0.32)	4.7 (0.45)	4.5 (0.48)	4.5 (0.48)	31.1 (0.49)	35.8 (0.97)	37.0 (1.02)	29.8 (0.94)	20.4 (0.92)	
Ireland	35.6	47.8	39.7 (0.14)	49.2 (0.28)	14.8 (0.10)	16.0 (0.20)	17.8 (0.20)	13.4 (0.20)	10.2 (0.20)	24.9 (0.12)	33.2 (0.26)	28.3 (0.24)	19.0 (0.23)	14.7 (0.23)	
Israel	—	—	46.4 (0.20)	44.5 (0.38)	13.9 (0.14)	11.7 (0.25)	14.2 (0.29)	14.5 (0.30)	16.2 (0.32)	32.5 (0.18)	32.8 (0.35)	35.6 (0.37)	30.4 (0.37)	30.4 (0.38)	
Italy	10.0	11.8	15.7 (0.08)	22.3 (0.21)	0.3 (—)	0.2 (—)	0.4 (—)	0.5 (—)	0.3 (—)	15.4 (0.08)	22.0 (0.21)	17.0 (0.16)	11.8 (0.14)	11.1 (0.15)	
Japan	33.8	47.7	46.6 (0.19)	58.6 (0.40)	20.2 (0.15)	23.4 (0.35)	24.8 (0.33)	20.3 (0.34)	12.8 (0.30)	26.4 (0.17)	35.2 (0.39)	26.7 (0.33)	25.8 (0.37)	19.3 (0.36)	
Korea, Republic of	24.2	39.5	41.7 (0.25)	65.7 (0.46)	13.3 (0.17)	25.8 (0.43)	16.5 (0.31)	6.3 (0.22)	2.4 (0.16)	28.4 (0.23)	39.9 (0.47)	35.7 (0.44)	22.8 (0.40)	11.2 (0.40)	
Luxembourg	18.1	23.4	39.1 (0.36)	49.9 (0.83)	13.1 (0.25)	14.1 (0.58)	15.2 (0.54)	12.1 (0.45)	9.8 (0.43)	26.1 (0.33)	35.7 (0.80)	29.8 (0.69)	19.8 (0.55)	16.6 (0.54)	
Mexico	15.0	17.9	18.1 (†)	24.1 (†)	1.2 (†)	1.4 (†)	1.1 (†)	1.2 (†)	0.9 (†)	16.9 (†)	22.7 (†)	14.8 (†)	15.3 (†)	11.6 (†)	
Netherlands	23.2	26.5	34.4 (0.10)	43.0 (0.23)	2.8 (0.03)	2.6 (0.07)	3.2 (0.07)	2.9 (0.06)	2.4 (0.06)	31.6 (0.09)	40.5 (0.23)	33.7 (0.19)	27.9 (0.16)	25.4 (0.18)	
New Zealand	29.2	28.5	40.6 (0.41)	46.9 (0.89)	15.3 (0.30)	14.1 (0.62)	14.5 (0.57)	16.0 (0.58)	16.7 (0.63)	25.3 (0.36)	32.8 (0.84)	28.0 (0.73)	21.8 (0.65)	17.9 (0.65)	
Norway	30.2	37.9	38.6 (0.21)	45.0 (0.46)	2.4 (0.06)	0.8 (0.08)	2.3 (0.12)	3.0 (0.14)	3.4 (0.15)	36.2 (0.21)	44.2 (0.46)	41.2 (0.41)	31.6 (0.39)	26.6 (0.38)	
Poland ⁷	11.9	15.2	24.5 (0.09)	40.8 (0.21)	— (†)	— (†)	— (†)	— (†)	— (†)	24.5 (0.09)	40.8 (0.21)	26.4 (0.19)	16.5 (0.15)	12.6 (0.13)	
Portugal ⁸	9.0	13.7	18.5 (0.13)	28.3 (0.36)	— (†)	— (†)	— (†)	— (†)	— (†)	18.5 (0.13)	28.3 (0.36)	20.3 (0.28)	13.6 (0.22)	11.1 (0.20)	
Slovak Republic	10.9	11.9	19.0 (0.32)	27.0 (0.77)	1.3 (0.09)	1.2 (0.19)	1.2 (0.19)	1.5 (0.19)	1.4 (0.18)	17.6 (0.32)	25.8 (0.76)	16.0 (0.63)	14.8 (0.57)	12.3 (0.52)	
Slovenia	—	—	26.4 (0.24)	35.4 (0.55)	11.7 (0.18)	13.8 (0.40)	12.9 (0.39)	11.2 (0.32)	9.2 (0.30)	14.7 (0.19)	21.6 (0.48)	17.6 (0.45)	11.8 (0.33)	8.0 (0.28)	
Spain	23.6	35.5	32.3 (0.08)	39.3 (0.18)	9.7 (0.05)	12.5 (0.12)	12.1 (0.10)	8.2 (0.08)	4.2 (0.07)	22.7 (0.07)	26.7 (0.16)	26.6 (0.14)	20.2 (0.12)	14.8 (0.12)	
Sweden	31.6	36.9	35.7 (0.11)	43.5 (0.24)	9.1 (0.07)	9.4 (0.14)	8.5 (0.13)	9.0 (0.13)	9.7 (0.13)	26.6 (0.10)	34.1 (0.23)	31.6 (0.21)	21.5 (0.19)	19.0 (0.18)	
Switzerland	25.4	25.6	36.6 (0.18)	40.6 (0.46)	10.8 (0.12)	9.0 (0.25)	12.2 (0.23)	12.0 (0.23)	9.5 (0.22)	25.8 (0.17)	31.7 (0.44)	28.8 (0.31)	23.0 (0.29)	19.2 (0.29)	
Turkey ^{4,6}	8.9	10.2	15.3 (0.07)	21.0 (0.15)	— (†)	— (†)	— (†)	— (†)	— (†)	15.3 (0.07)	21.0 (0.15)	14.8 (0.13)	9.9 (0.12)	10.3 (0.14)	
United Kingdom	26.0	30.0	41.0 (0.11)	47.9 (0.23)	10.0 (0.06)	7.7 (0.12)	10.5 (0.13)	11.4 (0.13)	10.3 (0.13)	31.0 (0.10)	40.1 (0.22)	34.6 (0.20)	25.7 (0.18)	22.3 (0.18)	
United States	37.3	39.1	43.1 (0.24)	44.0 (0.42)	10.4 (0.12)	9.9 (0.20)	10.8 (0.25)	10.4 (0.22)	10.6 (0.28)	32.6 (0.22)	34.1 (0.43)	34.7 (0.41)	30.5 (0.38)	31.2 (0.41)	
Other reporting countries															
Brazil ^{4,6}	7.7	6.7	13.0 (0.07)	14.5 (0.12)	— (†)	— (†)	— (†)	— (†)	— (†)	13.0 (0.07)	14.5 (0.12)	12.9 (0.13)	13.1 (0.14)	10.2 (0.16)	
China ^{4,7}	4.6	6.1	3.6 (—)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	
Russian Federation ⁸	54.0	55.5	53.5 (—)	57.0 (—)	25.7 (—)	21.5 (—)	25.8 (—)	28.0 (—)	28.4 (—)	27.7 (—)	35.5 (—)	28.7 (—)	24.4 (—)	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 2001.⁵Data from 2011 reported for 2012.⁶Columns for bachelor's or higher degree include vocational degree data.⁷Data from 2010 reported for 2012.⁸Data 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 2014. (This table was prepared November 2014.)

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 2012
[Standard errors appear in parentheses]

Country	1999		2001		2005		2008		2009		2010		2012	
	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
OECD average¹	14.0	16.5	15.1	18.2	18.8	23.9	20.8	26.6	21.4 (0.03)	27.7 (0.08)	22.0 (0.04)	28.5 (0.09)	23.5 (0.04)	30.3 (0.08)
Australia.....	17.7	20.1	19.2	23.9	22.7	29.2	25.5	31.9	26.8 (0.29)	34.6 (0.62)	26.9 (0.41)	34.2 (0.81)	29.8 (0.25)	36.7 (0.53)
Austria ²	6.1	6.8	6.8	6.9	9.1	11.6	10.7	13.5	11.4 (0.10)	15.3 (0.25)	12.0 (0.25)	15.4 (0.49)	12.7 (0.21)	17.8 (0.47)
Belgium.....	12.0	16.0	12.7	17.8	13.8	19.1	16.4	22.8	17.5 (0.16)	24.2 (0.38)	17.2 (0.16)	23.3 (0.37)	18.4 (0.17)	24.8 (0.39)
Canada.....	19.1	23.1	20.4	25.1	23.3	28.2	25.2	29.8	25.4 (0.16)	30.1 (0.34)	26.4 (0.22)	30.7 (0.42)	27.7 (0.23)	31.8 (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)	12.0 (0.10)	16.4 (0.23)
Czech Republic ⁴	10.8	10.9	11.1	11.3	13.1	14.2	14.5	17.7	15.5 (0.10)	20.2 (0.23)	16.8 (0.10)	22.6 (0.25)	19.3 (0.11)	27.8 (0.28)
Denmark.....	—	—	21.5	21.7	26.0	30.7	27.5	34.9	27.1 (0.18)	36.2 (0.60)	27.0 (0.17)	31.4 (0.48)	29.2 (0.18)	34.9 (0.45)
Estonia.....	—	—	—	—	22.2	24.1	22.3	23.5	22.7 (0.41)	21.7 (0.87)	21.9 (0.71)	23.8 (1.59)	24.6 (0.64)	26.8 (1.37)
Finland.....	13.9	15.6	14.8	18.0	18.1	26.6	21.5	32.9	22.6 (0.13)	36.0 (0.34)	23.5 (0.21)	36.7 (0.52)	26.2 (0.22)	38.9 (0.51)
France.....	11.0	15.3	11.9	17.5	14.8	22.3	16.4	23.7	17.3 (0.08)	25.7 (0.20)	17.5 (0.08)	26.0 (0.19)	18.9 (0.08)	26.8 (0.19)
Germany.....	13.0	12.9	13.5	13.5	14.8	15.1	16.4	17.5	17.1 (0.06)	18.9 (0.14)	17.0 (0.07)	18.9 (0.16)	17.0 (0.07)	19.5 (0.16)
Greece.....	12.2	16.6	12.4	16.6	14.5	17.0	16.8	18.6	16.9 (0.09)	19.3 (0.21)	17.5 (0.29)	20.0 (0.51)	17.9 (0.11)	21.3 (0.25)
Hungary ⁵	13.5	13.7	14.1	14.7	16.9	19.1	18.7	22.9	19.4 (0.10)	24.1 (0.23)	19.6 (0.10)	24.7 (0.24)	21.3 (0.11)	29.0 (0.25)
Iceland.....	17.8	22.3	18.8	21.1	25.9	32.5	27.9	30.6	28.8 (0.48)	33.4 (0.96)	28.7 (0.48)	34.0 (0.98)	31.1 (0.49)	35.8 (0.97)
Ireland ²	10.6	16.1	14.0	19.8	18.4	26.2	22.2	30.6	20.9 (0.11)	28.8 (0.23)	21.8 (0.11)	29.7 (0.24)	24.9 (0.12)	33.2 (0.26)
Israel.....	—	—	—	—	29.8	34.8	28.8	28.9	29.4 (0.18)	29.5 (0.35)	30.5 (0.18)	31.8 (0.35)	32.5 (0.18)	32.8 (0.35)
Italy ⁶	9.3	10.0	10.0	11.8	11.7	15.5	14.0	19.6	14.1 (0.06)	19.9 (0.15)	14.4 (0.07)	20.5 (0.19)	15.4 (0.08)	22.0 (0.21)
Japan.....	18.3	23.0	19.2	24.3	22.3	27.9	24.3	30.9	24.6 (0.11)	31.8 (0.27)	25.3 (0.18)	33.0 (0.38)	26.4 (0.17)	35.2 (0.39)
Korea, Republic of.....	16.9	23.2	17.5	25.0	22.7	31.7	25.6	34.5	27.1 (0.23)	37.6 (0.47)	27.5 (0.23)	39.0 (0.47)	28.4 (0.23)	39.9 (0.47)
Luxembourg.....	11.7	13.1	11.4	15.1	17.0	23.8	20.0	27.9	20.2 (0.39)	24.1 (0.93)	20.8 (0.39)	26.1 (0.96)	26.1 (0.33)	35.7 (0.80)
Mexico.....	11.9	14.1	13.3	15.3	13.8	17.0	14.9	18.5	15.9 (0.05)	20.2 (0.10)	16.2 (#)	20.6 (#)	16.9 (#)	22.7 (#)
Netherlands.....	20.1	22.7	20.9	24.1	28.3	33.8	29.8	37.5	30.0 (0.09)	37.6 (0.22)	29.8 (0.10)	38.4 (0.23)	31.6 (0.09)	40.5 (0.23)
New Zealand.....	13.1	15.6	13.9	16.9	19.7	26.2	25.1	33.6	23.2 (0.41)	30.8 (0.96)	24.3 (0.36)	31.5 (0.83)	25.3 (0.36)	32.8 (0.84)
Norway ²	25.3	30.6	27.6	35.4	30.3	38.9	33.6	43.8	34.5 (0.20)	45.5 (0.45)	35.2 (0.20)	46.2 (0.45)	36.2 (0.21)	44.2 (0.46)
Poland ^{2,4}	11.3	12.3	11.9	15.2	16.9	25.5	19.6	32.1	21.2 (0.12)	35.4 (0.29)	22.9 (0.09)	37.4 (0.21)	24.5 (0.09)	40.8 (0.21)
Portugal ⁶	7.1	9.3	6.6	10.6	12.8	19.1	14.3	23.2	14.7 (0.12)	23.3 (0.32)	15.4 (0.51)	24.8 (1.02)	18.5 (0.13)	28.3 (0.36)
Slovak Republic.....	—	—	10.3	11.2	12.8	15.4	14.0	17.8	15.0 (0.15)	19.7 (0.34)	16.6 (0.16)	23.5 (0.28)	17.6 (0.32)	25.8 (0.76)
Slovenia.....	—	—	—	—	10.6	15.2	11.8	18.4	12.6 (0.17)	18.7 (0.42)	13.1 (0.17)	19.2 (0.43)	14.7 (0.19)	21.6 (0.48)
Spain.....	14.8	22.1	16.9	23.9	19.9	27.0	20.0	25.7	20.1 (0.07)	25.0 (0.15)	21.5 (0.07)	26.9 (0.15)	22.7 (0.07)	26.7 (0.16)
Sweden.....	13.1	11.1	16.9	19.7	20.6	28.4	23.4	32.4	24.3 (0.11)	33.9 (0.26)	25.4 (0.10)	34.0 (0.22)	26.6 (0.10)	34.1 (0.23)
Switzerland.....	14.5	16.6	15.8	15.9	19.0	21.9	23.3	28.8	24.7 (0.24)	30.5 (0.56)	24.3 (0.15)	30.6 (0.37)	25.8 (0.17)	31.7 (0.44)
Turkey ⁴	7.1	7.6	8.9	10.2	9.7	11.8	12.0	15.5	12.7 (0.07)	16.6 (0.13)	13.1 (0.07)	17.4 (0.13)	15.3 (0.07)	21.0 (0.15)
United Kingdom.....	16.6	18.8	18.0	21.0	20.8	26.9	23.6	30.7	26.9 (0.09)	36.3 (0.21)	28.0 (0.19)	37.9 (0.45)	31.0 (0.10)	40.1 (0.22)
United States.....	27.5	28.7	28.3	29.9	29.6	30.3	31.5	32.3	31.4 (0.16)	32.1 (0.32)	31.7 (0.22)	32.8 (0.36)	32.6 (0.22)	34.1 (0.43)
Other reporting countries														
Brazil ^{2,4}	7.5	6.5	7.6	6.6	—	—	10.8	11.0	10.9 (0.07)	11.6 (0.12)	— (†)	— (†)	13.0 (0.07)	14.5 (0.12)
Russian Federation ⁷	—	—	20.8	21.3	—	—	—	—	— (†)	— (†)	— (†)	— (†)	27.7 (—)	35.5 (—)

—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. Data from 2011 reported for 2012.⁴Data include vocational degrees.⁵Data for 1999 and 2001 include vocational degrees.⁶Data for 2005 to 2012 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 2014. (This table was prepared December 2014.)

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 2012

[Standard errors appear in parentheses]

Country	1999		2001		2005		2008		2009				2010				2012			
	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	
OECD average ¹	8.4	10.5	8.9	10.8	8.6	9.6	9.7	10.4	10.4	(0.03)	11.0	(0.07)	10.2	(0.04)	10.9	(0.07)	9.8	(0.03)	10.0	(0.06)
Australia.....	9.0	8.8	9.7	9.7	9.0	8.9	10.1	9.8	10.1	(0.20)	10.2	(0.39)	10.7	(0.29)	10.2	(0.52)	11.5	(0.17)	10.5	(0.33)
Austria ²	4.7	5.8	7.3	7.4	8.7	8.1	7.4	5.9	7.6	(0.08)	5.8	(0.16)	7.3	(0.19)	5.4	(0.29)	7.3	(0.14)	5.2	(0.29)
Belgium.....	13.9	17.9	14.9	19.7	17.3	21.5	15.9	19.5	15.9	(0.15)	18.3	(0.34)	17.8	(0.16)	20.5	(0.36)	16.9	(0.16)	18.2	(0.35)
Canada.....	20.2	23.7	21.2	25.4	22.8	25.6	23.6	26.1	24.1	(0.16)	26.0	(0.32)	24.2	(0.17)	25.8	(0.38)	24.9	(0.16)	25.5	(0.32)
Chile ^{2,3,4,5}	0.9	1.4	1.0	1.6	2.8	4.1	8.5	11.5	8.0	(0.11)	11.0	(0.22)	10.3	(0.13)	13.1	(0.23)	5.8	(0.07)	6.1	(0.15)
Denmark.....	—	—	5.3	5.8	7.6	9.1	7.0	8.2	7.2	(0.11)	8.5	(0.35)	6.3	(0.10)	6.2	(0.25)	5.6	(0.09)	5.3	(0.21)
Estonia.....	—	—	—	—	11.1	8.7	12.0	12.3	13.2	(0.33)	14.8	(0.75)	13.3	(0.55)	14.0	(1.24)	12.6	(0.45)	13.1	(0.98)
Finland.....	17.4	21.8	17.5	20.2	16.6	11.0	15.0	5.4	14.7	(0.11)	3.4	(0.13)	14.7	(0.18)	2.5	(0.17)	13.5	(0.17)	0.9	(0.10)
France.....	10.5	15.6	11.2	16.7	10.0	17.0	11.1	16.9	11.6	(0.07)	17.5	(0.18)	11.5	(0.06)	16.9	(0.16)	11.9	(0.06)	16.1	(0.16)
Germany.....	9.9	8.6	9.7	8.2	9.7	7.4	9.0	6.5	9.3	(0.05)	6.8	(0.09)	9.6	(0.05)	7.2	(0.10)	11.1	(0.06)	9.5	(0.11)
Greece.....	5.5	8.6	5.4	7.4	6.7	8.4	6.6	9.6	6.7	(0.06)	10.1	(0.16)	7.2	(0.16)	10.9	(0.34)	8.8	(0.08)	13.5	(0.21)
Hungary.....	—	—	—	—	0.2	0.5	#	1.0	#	(†)	1.0	(#)	0.6	(0.02)	1.4	(0.06)	0.7	(0.02)	1.5	(0.07)
Iceland.....	4.6	5.3	6.0	5.5	4.7	3.3	3.4	2.2	3.9	(0.21)	2.5	(0.31)	3.8	(0.20)	2.2	(0.30)	4.1	(0.21)	2.6	(0.32)
Ireland ²	10.5	13.4	21.6	28.1	10.6	14.4	11.7	14.5	14.9	(0.10)	18.7	(0.20)	15.6	(0.10)	18.4	(0.20)	14.8	(0.10)	16.0	(0.20)
Israel.....	—	—	—	—	16.0	15.1	15.1	13.4	15.5	(0.14)	13.4	(0.26)	15.0	(0.14)	12.4	(0.25)	13.9	(0.14)	11.7	(0.25)
Italy.....	—	—	—	—	0.5	0.6	#	#	#	(†)	#	(†)	#	(†)	#	(†)	0.3	(—)	0.2	(—)
Japan.....	13.4	22.1	14.6	23.4	17.7	25.3	18.5	24.1	19.1	(0.10)	23.9	(0.25)	19.5	(0.16)	23.7	(0.34)	20.2	(0.15)	23.4	(0.35)
Korea, Republic of.....	5.8	11.9	6.7	14.5	8.9	19.3	10.9	23.3	11.6	(0.16)	25.5	(0.42)	12.2	(0.17)	26.0	(0.43)	13.3	(0.17)	25.8	(0.43)
Luxembourg.....	6.6	8.1	6.7	8.3	9.6	13.2	7.7	10.8	14.6	(0.34)	20.4	(0.87)	14.7	(0.34)	18.1	(0.84)	13.1	(0.25)	14.1	(0.58)
Mexico.....	1.3	2.2	1.7	2.7	1.1	1.2	1.1	1.2	1.1	(0.01)	1.2	(0.03)	1.1	(#)	1.3	(#)	1.2	(#)	1.4	(#)
Netherlands..... ⁵	2.5	2.4	2.3	2.4	1.8	1.6	2.4	2.2	2.8	(0.03)	2.5	(0.07)	2.5	(0.03)	2.4	(0.07)	2.8	(0.03)	2.6	(0.07)
New Zealand.....	13.9	10.4	15.3	11.6	7.4	4.6	14.9	13.9	16.9	(0.36)	15.9	(0.76)	16.4	(0.31)	14.9	(0.64)	15.3	(0.30)	14.1	(0.62)
Norway ²	2.0	2.2	2.6	2.6	2.4	1.9	2.4	1.8	2.2	(0.06)	1.4	(0.11)	2.1	(0.06)	1.0	(0.09)	2.4	(0.06)	0.8	(0.08)
Portugal.....	2.7	3.0	2.4	3.1	—	—	—	—	—	(†)	—	(†)	—	(†)	—	(†)	—	(†)	—	(†)
Slovak Republic.....	—	—	0.6	0.6	0.8	0.9	0.8	0.6	0.8	(0.04)	0.9	(0.08)	0.7	(0.04)	0.6	(0.05)	1.3	(0.09)	1.2	(0.19)
Slovenia.....	—	—	—	—	9.6	9.5	10.8	11.7	10.8	(0.16)	11.7	(0.35)	10.6	(0.16)	12.2	(0.36)	11.7	(0.18)	13.8	(0.40)
Spain.....	6.2	11.4	6.7	11.6	8.3	12.8	9.2	13.0	9.5	(0.05)	13.2	(0.11)	9.2	(0.05)	12.2	(0.11)	9.7	(0.05)	12.5	(0.12)
Sweden.....	15.6	20.7	14.7	17.1	9.1	8.9	8.6	8.4	8.7	(0.07)	8.5	(0.15)	8.8	(0.06)	8.2	(0.13)	9.1	(0.07)	9.4	(0.14)
Switzerland.....	9.1	9.3	9.6	9.7	9.7	9.1	10.4	9.7	10.3	(0.17)	9.4	(0.36)	10.8	(0.11)	9.9	(0.24)	10.8	(0.12)	9.0	(0.25)
United Kingdom.....	8.2	8.4	8.0	9.0	8.8	8.1	9.0	7.7	10.0	(0.06)	8.5	(0.12)	10.2	(0.13)	8.1	(0.25)	10.0	(0.06)	7.7	(0.12)
United States.....	8.3	8.7	9.0	9.2	9.4	9.0	9.6	9.3	9.8	(0.08)	8.9	(0.15)	10.0	(0.12)	9.5	(0.22)	10.4	(0.12)	9.9	(0.20)
Other reporting countries																				
Russian Federation ⁶	—	—	33.5	34.2	—	—	—	—	—	(†)	—	(†)	—	(†)	—	(†)	25.7	(—)	21.5	(—)

—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 2011 reported for 2012.

⁶Data 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 do not 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 2014. (This table was prepared December 2014.)

Table 603.50. Number of bachelor's degree recipients per 100 persons at the typical minimum age of graduation, by sex and country: Selected years, 2005 through 2012

Country	Typical age of graduation, ¹ 2012	Total							Male							Female						
		2005	2007	2008	2009	2010	2011	2012	2005	2007	2008	2009	2010	2011	2012	2005	2007	2008	2009	2010	2011	2012
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
OECD average²	—	34.7	37.5	39.1	38.9	39.8	39.7	40.8	27.5	30.0	31.0	31.0	31.5	31.8	32.7	42.3	45.3	47.5	47.1	48.5	48.0	49.3
Australia	23	59.9	60.7	58.9	58.5	58.6	59.0	63.4	47.9	48.6	47.0	46.9	46.5	47.0	50.6	72.5	73.4	71.4	70.8	71.4	71.8	76.7
Austria	22–25	20.4	22.4	25.8	30.3	30.7	33.7	36.4	19.0	20.8	22.7	25.9	26.3	28.5	29.7	21.8	24.0	29.1	34.7	35.2	39.0	43.3
Belgium (Flemish) ³	21	18.4	35.4	27.0	—	—	—	—	17.0	32.6	24.4	—	—	—	—	19.8	38.2	29.6	—	—	—	—
Canada	22	33.6	35.2	39.5	38.9	38.6	37.6	35.1	25.2	26.5	29.1	29.3	29.1	28.5	26.8	42.2	44.3	50.6	49.0	48.6	47.2	43.9
Chile	23–26	11.5	14.5	14.7	17.6	18.1	18.5	19.0	9.7	11.9	11.7	13.2	14.9	15.5	16.1	13.4	17.3	17.8	22.1	21.5	21.6	21.9
Czech Republic	22–26	26.0	36.4	39.2	39.7	42.3	42.8	45.2	22.6	31.0	32.2	30.4	31.1	30.8	32.9	29.5	42.1	46.6	49.7	54.4	55.5	57.9
Denmark	24–26	52.9	50.9	50.3	48.3	50.7	50.6	49.3	37.2	38.3	38.3	35.3	37.5	38.3	37.1	69.2	63.9	62.6	61.7	64.3	63.3	62.0
Estonia	22–24	28.5	27.3	23.8	22.9	22.3	23.8	22.1	17.6	17.6	14.9	13.7	14.0	15.4	15.1	39.5	37.3	32.8	32.7	31.6	32.6	29.4
Finland ⁴	24	53.8	58.8	79.8	42.3	46.4	50.3	52.0	38.8	41.3	55.3	28.7	33.1	36.4	38.4	69.7	77.4	105.6	56.6	60.3	65.0	66.3
France	19–24	—	33.8	33.9	33.0	—	—	—	—	30.2	30.3	29.8	—	—	—	—	37.5	37.6	36.3	—	—	—
Germany	24–27	20.5	23.2	25.5	28.9	30.4	31.0	30.5	20.0	22.0	24.0	27.4	28.7	29.6	29.0	21.1	24.4	27.0	30.5	32.2	32.5	32.0
Greece ⁵	23–24	23.9	21.7	26.6	—	25.4	27.3	26.7	16.3	14.7	18.3	—	17.5	18.6	18.7	32.2	29.4	35.5	—	34.0	36.7	35.5
Hungary	21–24	41.5	38.8	37.6	39.0	38.4	32.8	29.9	29.0	26.2	25.2	27.1	28.0	25.0	23.0	54.5	51.8	50.4	51.2	49.1	41.0	37.2
Iceland	23–25	56.3	62.8	55.9	50.7	65.4	—	57.7	33.6	38.0	34.1	30.7	40.1	—	38.8	80.5	88.0	78.9	72.2	91.3	—	77.9
Ireland	21	40.7	44.8	46.0	47.1	52.2	46.8	48.3	33.3	36.4	36.9	38.5	45.3	40.0	40.7	48.0	53.4	55.2	55.4	58.9	53.5	56.1
Israel	26–29	32.9	36.1	36.3	36.4	36.8	38.5	41.1	25.7	29.1	29.6	30.8	30.6	31.8	33.6	40.2	43.1	43.1	42.0	43.1	45.3	48.7
Italy	23–25	44.8	38.7	35.8	34.6	33.6	34.3	33.1	37.3	31.6	29.5	28.5	26.9	27.3	25.9	52.7	46.1	42.3	40.9	40.6	41.6	40.6
Japan	21–23	36.9	38.8	40.6	41.5	41.3	44.8	46.3	41.3	42.9	44.9	46.1	45.4	49.1	50.1	32.2	34.4	36.0	36.7	37.1	40.2	42.3
Korea, Republic of	22–26	35.5	42.9	48.7	50.0	50.7	49.9	49.0	34.8	42.7	49.0	51.0	50.9	49.2	47.3	36.2	43.2	48.5	48.8	50.4	50.7	51.1
Mexico	23	15.2	18.2	17.8	19.0	19.5	20.9	21.3	14.5	16.8	16.2	17.4	17.7	19.3	20.0	15.9	19.7	19.3	20.7	21.2	22.4	22.6
Netherlands	23	47.2	47.8	46.0	45.6	44.7	45.3	49.2	40.2	41.7	39.8	39.4	38.6	38.5	42.2	54.3	54.1	52.3	51.9	51.0	52.2	56.2
New Zealand	21–23	49.0	53.8	50.0	50.7	47.3	51.0	54.8	36.6	41.6	37.6	38.9	36.7	37.6	40.2	62.0	66.0	63.0	63.1	58.6	65.1	70.6
Norway	22–25	42.1	45.0	46.1	44.3	46.1	46.1	44.3	28.8	31.8	33.9	32.0	33.7	33.4	32.5	55.8	58.7	58.8	57.3	58.8	59.3	56.5
Poland	23–25	45.0	46.6	48.2	49.4	56.9	60.6	55.7	32.8	34.4	35.0	35.9	40.5	42.9	40.3	57.6	59.2	61.9	63.3	73.8	79.1	71.6
Portugal	22	33.7	46.0	50.4	44.3	44.6	42.9	44.4	21.7	35.0	40.3	35.9	34.5	34.2	36.0	46.0	57.4	60.9	53.1	55.2	52.1	53.0
Slovak Republic	21–23	30.1	37.9	57.6	61.7	50.9	48.6	46.3	25.6	26.8	38.7	42.8	35.2	33.9	32.7	34.8	49.6	77.3	81.5	67.3	63.6	60.5
Slovenia	23–26	21.6	21.1	22.6	27.9	34.7	38.1	45.6	14.3	13.9	14.4	17.2	21.7	25.2	31.1	29.4	29.0	31.7	39.6	49.2	52.1	61.4
Spain	20–22	35.0	34.7	35.5	37.4	39.5	45.1	43.1	27.1	26.6	27.3	28.8	30.7	35.7	35.7	43.3	43.3	44.2	46.4	48.5	54.9	51.0
Sweden	25	44.0	42.2	40.9	38.1	35.7	38.5	35.1	30.8	29.1	27.9	25.8	23.6	25.0	23.8	57.6	55.8	54.7	51.0	48.6	52.7	47.0
Switzerland	24–26	25.0	28.9	30.6	29.2	28.8	28.0	28.7	26.1	28.7	29.2	27.0	26.7	25.4	26.4	23.9	29.2	32.0	31.5	31.0	30.7	31.2
Turkey	23–24	11.3	17.0	19.5	20.8	23.1	22.7	27.1	11.8	17.9	20.6	22.4	24.9	23.9	27.4	10.7	15.9	18.4	19.2	21.2	21.4	26.8
United Kingdom	20–24	39.8	39.0	40.2	39.9	41.9	43.4	45.5	34.1	32.9	33.5	33.8	35.6	36.6	38.5	45.7	45.4	47.2	46.3	48.6	50.6	52.8
United States	21	34.2	36.5	37.3	37.8	38.2	38.8	38.8	28.1	30.1	31.0	31.4	31.8	32.4	32.4	40.7	43.4	43.9	44.5	45.0	45.4	45.3
Other reporting countries																						
Brazil	22	17.5	22.7	25.6	24.9	23.1	25.9	26.9	13.3	18.4	19.9	17.9	16.9	19.0	19.2	21.6	27.0	31.3	32.0	29.4	32.8	35.1
Russian Federation	22–24	45.9	48.6	52.7	51.8	55.1	58.6	60.3	—	—	—	—	—	—	46.4	—	—	—	—	—	—	74.6

—Not available.

¹The typical age of graduation 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. In countries where the typical duration of bachelor's degree programs varies, an age span is shown. For example, if a typical program duration can be as little as 3 years or as much as 6 years, then the first age in the span represents those who graduate after 3 years, while the final age represents those who graduate after 6 years. The typical age of graduation 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 in previous years.

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.

³Reference year for typical age of graduation is 2008.

⁴Structural 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. Some countries have two types of awards that correspond to the bachelor's degree (with different typical minimum ages of graduation). The typical minimum age for an award that requires 3 to 5 years for completion would be based on graduation after 3 years, and the typical minimum age for an award that requires 5 to 6 years would be based on graduation after 5 years. The recipients-per-100-persons ratio is the sum of all persons earning the two different award types, divided by the sum of all persons at the minimum graduation age for each of the award types. 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 2014; and Online Education Database, retrieved November 26, 2014, from <http://stats.oecd.org/index.aspx>. (This table was prepared December 2014.)

Table 603.60. Percentage of bachelor's and higher degrees awarded to women, by field of study and country: 2012

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	77.2	65.8	74.9	58.1	52.7	27.0	41.3	63.0	43.2	46.1	20.0	54.9
Australia ³	57.6	75.4	64.2	75.0	55.6	54.9	24.2	38.1	55.4	48.4	38.9	20.3	56.8
Austria	55.3	80.4	68.4	67.8	57.7	41.7	24.9	36.3	69.1	31.9	36.9	15.7	63.7
Belgium	55.3	75.9	64.8	66.7	59.6	39.2	25.6	34.8	53.2	32.7	40.0	9.8	57.4
Canada ³	59.6	75.3	63.8	82.4	57.9	59.2	23.4	48.6	61.4	43.4	41.1	19.0	58.1
Chile	56.3	70.1	60.9	69.9	51.8	48.9	27.2	30.1	54.5	39.7	34.3	11.2	47.6
Czech Republic	61.1	80.7	71.2	80.2	67.6	47.8	27.7	38.0	72.0	46.4	53.5	12.2	59.5
Denmark	59.2	73.1	66.2	80.0	54.9	28.7	32.6	39.7	65.2	42.3	47.3	26.8	69.9
Estonia	65.8	91.0	75.6	84.0	71.3	62.9	33.2	47.9	74.9	50.6	72.2	23.1	58.7
Finland	61.0	82.1	73.6	84.9	64.9	69.5	22.1	43.2	73.2	46.3	46.6	23.9	54.8
France ³	55.8	78.4	70.9	62.4	60.6	46.6	31.1	38.0	63.6	39.0	36.7	16.6	58.0
Germany	54.5	73.3	72.7	69.9	54.7	52.8	22.1	43.8	66.8	41.9	59.2	16.7	55.3
Greece	—	—	—	—	—	—	—	—	—	—	—	—	—
Hungary	62.3	82.2	69.7	74.7	68.4	59.5	22.2	40.6	67.5	46.5	50.9	17.2	47.7
Iceland	64.8	83.8	62.6	85.9	63.6	79.8	32.6	39.2	60.2	44.3	35.0	13.1	72.7
Ireland	57.2	76.2	61.7	80.3	53.9	52.6	20.6	42.4	42.4	42.4	42.4	42.3	43.5
Israel	58.8	82.2	62.0	78.9	56.8	79.0	28.1	43.3	62.0	37.7	37.6	26.1	55.2
Italy	62.2	87.8	75.1	68.7	59.3	50.7	39.7	54.7	71.5	41.9	54.3	25.5	48.0
Japan	42.2	59.4	69.0	58.3	35.3	90.9	11.3	25.6	—	—	—	—	39.9
Korea, Republic of	47.9	70.7	67.0	65.6	45.2	37.3	24.2	40.1	48.7	44.0	55.9	24.0	39.6
Mexico	54.3	72.2	58.0	66.7	59.1	24.9	28.7	47.1	59.0	41.0	45.5	39.4	36.0
Netherlands	56.6	79.1	58.6	75.0	53.8	51.8	21.0	25.8	60.6	26.7	32.2	12.8	54.9
New Zealand	61.8	83.2	65.5	78.2	57.7	48.9	30.9	43.5	62.5	41.6	43.4	19.8	59.6
Norway	61.0	74.2	57.4	83.1	57.6	43.0	26.1	36.1	66.2	39.8	34.5	13.2	62.4
Poland	65.8	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	60.5	81.4	60.0	79.0	62.8	51.1	31.1	56.2	72.3	48.7	62.8	22.4	58.7
Slovak Republic	63.9	77.8	68.7	82.7	69.3	42.1	31.3	43.1	71.6	54.7	44.2	12.8	50.8
Slovenia	63.7	84.8	74.6	80.3	69.3	56.0	31.1	43.8	75.0	41.4	61.6	15.0	62.3
Spain	57.5	72.2	62.9	74.2	58.7	49.0	31.4	42.4	62.0	49.4	50.2	17.0	49.7
Sweden	62.5	81.4	61.9	81.6	60.5	54.0	29.9	43.1	60.0	43.2	37.9	29.4	58.9
Switzerland	51.2	73.4	61.8	69.4	48.8	54.9	19.2	35.4	52.4	35.2	28.9	8.6	66.4
Turkey	48.4	57.5	58.6	60.6	45.4	35.3	31.6	53.9	71.0	50.3	58.2	29.3	37.0
United Kingdom	55.7	76.8	62.3	74.2	54.9	63.0	22.8	37.7	49.6	42.6	41.7	19.0	66.8
United States	57.6	77.5	59.0	79.5	54.4	54.4	22.2	43.1	58.1	38.7	41.6	21.1	52.0
Other reporting countries													
Argentina ³	61.3	77.4	70.4	72.7	61.4	45.5	36.2	50.6	71.4	55.1	70.0	26.9	43.3
Brazil	62.9	77.2	52.6	77.4	58.2	67.8	30.6	40.2	72.6	45.8	46.1	16.6	42.6
China	49.2	—	—	—	—	—	—	—	—	—	—	—	—
Indonesia	47.9	—	—	—	—	—	—	—	—	—	—	—	—
Russian Federation ⁴	60.5	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	63.5	54.1	74.8	53.6	57.9	61.5	6.7	69.1	81.4	77.0	75.8	44.7	11.5
South Africa	58.7	72.4	61.8	72.5	58.7	82.8	28.9	49.6	64.0	48.2	39.0	36.6	46.3

—Not available.

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 2011 instead of 2012.

⁴Data exclude International Standard Classification of Education 1997 (ISCED:97) level 6 (corresponding to doctor's degrees in the United States).

NOTE: Data in this table refer to degrees classified as ISCED:97 level 5A (first and second award) or level 6. ISCED:97 level 5A, first award, corresponds to the bachelor's degree in the United States; ISCED:97 level 5A, second award, corresponds to master's and first-professional degrees in the United States; and ISCED:97 level 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, 2014*. (This table was prepared August 2014.)

Table 603.70. Percentage of bachelor's degrees awarded in mathematics, science, and engineering, by field of study and country: Selected years, 1990 through 2011

Country	All mathematics, science, and engineering degrees ¹							Natural sciences ²							Mathematics and computer science ³							Engineering, manufacturing, and construction						
	1990	1995	2000	2005	2009	2010	2011	1990	1995	2000	2005	2009	2010	2011	1990	1995	2000	2005	2009	2010	2011	1990	1995	2000	2005	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	24	25	26	27	28	29
OECD average⁴	—	—	22.7	22.7	21.0	21.0	21.5	—	—	5.7	4.8	4.6	4.6	4.7	—	—	4.1	5.3	4.2	4.1	4.1	—	—	13.6	12.8	12.3	12.6	12.9
Australia.....	—	19.3	21.1	21.1	18.2	17.0	17.2	—	9.9	7.6	5.9	6.3	5.9	5.9	—	3.8	5.1	8.2	4.8	4.2	4.2	—	5.6	8.5	7.0	7.1	6.9	7.1
Austria.....	19.6	21.1	25.7	26.8	24.9	25.1	24.2	5.3	6.0	5.0	5.4	5.0	5.7	5.9	5.2	5.3	3.4	7.2	6.8	5.4	4.9	9.0	9.9	17.3	14.2	13.1	14.0	13.4
Belgium.....	—	—	23.6	24.7	19.3	20.0	20.9	—	—	6.4	5.7	4.3	3.7	3.8	—	—	2.3	5.2	1.7	1.7	1.6	—	—	14.9	13.8	13.3	14.6	15.5
Canada.....	16.4	16.7	20.0	20.7	20.3	19.9	19.7	6.0	6.5	8.1	6.5	9.3	9.1	9.3	4.2	3.8	4.3	5.9	3.4	3.4	3.1	6.2	6.4	7.6	8.2	7.6	7.4	7.3
Chile.....	—	—	—	22.9	18.9	18.2	17.8	—	—	—	—	3.2	1.5	1.5	—	—	—	2.6	2.6	2.2	2.3	—	—	—	17.2	14.8	14.5	14.1
Czech Republic.....	(⁵)	—	29.5	26.7	24.0	21.7	19.8	(⁵)	—	4.2	3.9	4.1	4.1	4.0	(⁵)	—	8.4	3.8	5.5	5.1	5.0	(⁵)	—	16.9	19.0	14.4	12.4	10.8
Denmark.....	—	—	10.5	16.3	17.5	16.4	17.3	4.4	2.5	6.8	2.4	3.0	3.1	3.0	—	—	3.1	3.1	2.8	3.1	3.7	21.7	17.0	—	10.8	11.7	10.2	10.6
Estonia.....	(⁵)	—	—	23.8	20.1	21.1	21.6	(⁵)	—	—	6.3	4.6	4.9	5.1	(⁵)	—	—	6.2	5.1	5.3	5.3	(⁵)	—	—	11.3	10.4	11.0	11.2
Finland.....	33.5	37.2	32.2	30.0	25.3	27.4	27.4	4.1	4.0	3.9	2.7	2.5	2.7	2.5	5.9	6.9	3.3	5.6	4.1	4.4	4.0	23.4	26.3	24.9	17.7	18.7	20.3	21.0
France.....	—	—	30.1	26.0	26.1	—	—	—	—	12.2	6.5	6.0	—	—	—	—	5.5	5.5	5.8	—	—	—	—	—	12.5	14.0	14.4	—
Germany.....	31.3	31.6	31.7	31.3	28.2	29.0	29.7	7.2	6.7	6.4	6.3	7.8	8.1	8.0	3.5	5.2	4.9	8.1	8.0	7.6	7.5	20.5	19.7	20.3	16.9	12.4	13.3	14.2
Greece.....	—	—	—	25.9	—	26.1	25.3	—	—	—	8.3	—	5.9	5.8	—	—	—	8.4	—	7.4	7.4	—	—	—	9.2	—	12.8	12.0
Hungary.....	—	—	12.6	11.0	17.1	18.9	19.9	—	—	1.1	1.2	2.8	3.7	3.6	—	—	1.2	2.4	4.5	4.2	3.8	—	—	10.4	7.4	9.7	10.9	12.5
Iceland.....	—	—	16.5	14.1	15.2	16.6	—	—	—	6.0	5.0	3.4	3.5	—	—	—	4.0	3.5	3.2	3.0	—	—	—	6.5	5.5	8.7	10.1	—
Ireland.....	34.1	32.3	29.3	17.7	19.4	21.6	22.3	14.1	16.9	11.5	3.5	5.9	5.7	6.0	6.3	4.7	7.2	4.4	3.5	4.4	5.1	13.7	10.7	10.6	9.9	9.9	11.6	11.2
Israel.....	—	—	19.0	26.7	21.3	21.0	20.7	—	—	3.1	5.1	5.0	4.6	4.1	—	—	6.8	7.5	4.2	4.5	4.3	—	—	9.1	14.1	12.1	11.9	12.3
Italy.....	19.7	19.5	27.5	23.9	22.6	22.9	22.4	7.6	6.8	5.9	4.8	5.0	5.2	5.1	3.9	3.8	3.2	2.2	2.2	2.3	2.1	8.3	8.9	18.4	16.9	15.4	15.5	15.2
Japan.....	—	—	22.3	20.8	19.5	16.1	19.1	2.4	3.4	—	—	—	—	—	—	—	—	—	—	—	—	21.0	19.3	18.9	17.4	16.3	16.1	15.8
Korea, Republic of.....	—	—	36.9	37.0	34.7	34.4	34.4	—	—	6.3	5.2	5.0	5.1	5.0	—	—	4.3	5.4	5.7	5.3	5.1	—	—	26.3	26.3	24.0	23.9	24.2
Mexico.....	—	—	23.0	27.3	25.9	25.6	26.9	—	—	2.2	2.6	2.8	2.7	2.5	—	—	6.7	9.3	7.4	3.7	3.5	—	—	14.1	15.3	15.6	19.2	20.9
Netherlands.....	21.1	—	16.2	14.9	13.5	13.4	13.4	7.1	—	3.2	2.5	1.2	1.3	1.5	1.6	1.6	1.9	4.6	4.6	4.4	4.1	12.4	—	11.1	7.7	7.7	7.7	7.9
New Zealand.....	19.5	—	17.8	19.9	21.1	22.1	20.6	8.2	—	11.2	6.7	8.0	8.3	7.9	5.5	—	1.9	7.6	6.0	6.0	5.7	5.8	3.2	4.7	5.6	7.0	7.7	7.0
Norway.....	12.9	16.8	11.6	13.7	14.2	15.0	15.4	2.1	3.1	0.7	0.8	1.9	2.1	2.1	0.6	0.5	3.4	4.7	3.0	3.1	3.4	10.2	13.2	7.5	8.2	9.3	9.8	9.9
Poland.....	—	—	16.7	17.7	19.0	19.2	20.9	—	—	2.7	2.3	3.7	3.9	3.4	—	—	2.0	5.3	4.7	4.5	4.4	—	—	12.0	10.1	10.7	10.8	13.1
Portugal.....	—	15.0	17.5	25.6	24.8	22.0	23.1	6.7	2.2	1.7	6.0	3.8	3.5	3.9	—	2.8	3.6	6.2	2.4	1.9	1.9	10.5	9.9	12.2	13.4	18.6	16.6	17.4
Slovak Republic.....	(⁵)	—	21.9	24.6	18.9	19.7	19.4	(⁵)	—	2.0	3.7	3.3	3.5	3.2	(⁵)	—	4.6	4.4	3.8	4.2	4.5	(⁵)	—	15.3	16.5	11.8	11.9	11.7
Slovenia.....	(⁵)	—	—	17.7	15.8	19.9	23.2	(⁵)	—	—	4.1	3.2	3.4	4.0	(⁵)	—	—	2.0	2.1	2.7	4.3	(⁵)	—	—	11.7	10.6	13.7	14.9
Spain.....	15.0	18.2	22.7	24.1	24.3	24.0	26.0	5.7	4.3	5.3	4.2	3.3	3.2	3.6	2.6	4.5	4.3	5.2	5.3	5.1	3.9	6.7	9.4	13.1	14.7	15.7	15.7	18.6
Sweden.....	24.0	26.4	27.7	26.9	22.9	22.1	21.1	4.1	3.9	3.7	3.6	3.7	3.2	2.8	4.7	5.5	3.7	4.0	2.6	2.3	2.6	15.2	17.0	20.3	19.2	16.6	16.5	15.7
Switzerland.....	23.0	22.3	25.1	24.2	20.4	18.5	19.7	11.2	10.4	6.0	6.9	5.7	5.0	5.5	3.7	3.7	1.8	4.7	3.0	2.7	2.8	8.1	8.3	17.3	12.7	11.6	10.8	11.4
Turkey.....	20.6	20.9	24.1	22.3	18.1	15.7	17.5	4.6	5.1	7.4	6.1	5.3	4.2	5.7	2.1	2.7	3.6	4.1	3.6	3.1	3.3	13.8	13.1	13.1	12.0	9.2	8.4	8.5
United Kingdom.....	—	—	28.5	26.0	24.3	24.3	24.2	—	—	12.5	9.2	9.5	9.3	9.4	—	—	5.8	8.3	6.0	5.9	5.8	—	—	10.2	8.4	8.8	9.1	9.0
United States.....	16.9	—	17.1	16.7	15.7	16.0	16.2	5.1	—	6.6	5.8	6.4	6.7	6.7	4.0	3.3	3.9	4.8	3.3	3.4	3.5	7.8	6.7	6.6	6.2	5.9	6.0	6.0
Other reporting countries																												
Brazil.....	—	—	—	11.4	11.0	10.1	10.4	—	—	—	3.2	2.9	1.8	2.1	—	—	—	3.5	2.9	2.5	2.3	—	—	—	4.8	5.2	5.7	6.0
Russian Federation.....	(⁵)	—	—	—	24.3	24.4	23.0	(⁵)	—	—	—	1.5	1.5	1.3	(⁵)	—	—	—	5.2	5.7	5.1	(⁵)	—	—	—	17.6	17.2	16.7

—Not available.

¹Includes life sciences, physical sciences, mathematics/statistics, computer science, and engineering, manufacturing, and construction.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, 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 1997 (ISCED:97) 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, July 21, 2014, from <http://stats.oecd.org/Index.aspx>; and unpublished tabulations. (This table was prepared July 2014.)

Table 603.80. Percentage of graduate degrees awarded in mathematics, science, and engineering, by field of study and country: Selected years, 1990 through 2011

Country	All mathematics, science, and engineering degrees ¹							Natural sciences ²							Mathematics and computer science ³							Engineering, manufacturing, and construction						
	1990	1996	2000	2005	2009	2010	2011	1990	1996	2000	2005	2009	2010	2011	1990	1996	2000	2005	2009	2010	2011	1990	1996	2000	2005	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	24	25	26	27	28	29
OECD average⁴	—	—	27.9	24.3	22.6	23.2	23.4	—	—	10.1	8.3	6.9	6.6	6.6	—	—	5.3	4.9	4.2	4.4	4.6	—	—	12.9	11.4	11.7	12.4	12.5
Australia.....	—	14.0	15.2	20.0	18.9	18.8	19.8	—	5.4	4.0	3.1	3.0	3.0	3.1	—	3.8	4.9	8.7	7.6	7.1	7.7	—	4.7	6.3	8.1	8.3	8.7	9.0
Austria.....	37.7	38.8	39.2	38.6	33.4	31.8	33.4	12.3	17.5	16.7	15.0	7.6	6.4	6.8	4.6	4.7	4.7	6.6	10.8	9.4	8.8	20.8	16.6	17.7	16.9	14.9	16.0	17.8
Belgium.....	—	—	19.7	18.7	21.2	22.1	21.4	—	—	—	9.3	5.7	5.3	5.2	—	—	—	3.3	3.2	2.5	2.5	—	—	7.0	6.2	12.3	14.3	13.7
Canada.....	20.0	22.3	22.4	18.8	26.0	26.0	23.9	7.8	7.7	7.4	5.0	10.1	10.1	9.3	3.4	3.5	4.1	4.0	4.1	4.1	3.7	8.8	11.2	10.9	9.8	11.9	11.9	10.9
Chile.....	—	—	—	8.5	7.9	10.5	8.2	—	—	—	2.2	2.1	2.8	2.0	—	—	—	1.6	2.2	2.2	2.2	—	—	—	4.6	3.6	5.5	4.0
Czech Republic.....	(⁵)	—	21.0	26.1	26.9	29.4	27.3	(⁵)	—	5.3	8.3	6.5	6.2	5.8	(⁵)	—	7.9	5.6	3.9	4.2	4.2	(⁵)	—	7.7	12.3	16.5	19.0	17.3
Denmark.....	22.2	12.3	27.8	23.4	23.3	24.5	25.2	5.8	3.1	9.8	7.5	5.7	5.5	5.1	4.8	1.5	2.5	9.2	7.9	9.0	8.4	11.6	7.8	15.4	6.7	9.7	10.0	11.6
Estonia.....	(⁵)	—	—	23.9	27.3	28.0	28.8	(⁵)	—	—	10.0	8.3	9.3	8.6	(⁵)	—	—	5.0	5.7	6.5	6.7	(⁵)	—	—	8.9	13.3	12.3	13.5
Finland.....	30.6	28.3	28.7	30.5	34.3	39.8	28.4	14.7	11.6	11.3	11.6	5.8	5.1	6.3	5.4	4.0	2.4	4.1	3.7	3.7	4.6	10.5	12.7	14.9	14.8	24.8	30.8	17.3
France.....	—	—	26.4	28.0	—	—	—	—	—	—	13.5	12.5	11.0	—	—	—	5.6	7.0	6.7	—	—	—	—	—	7.3	8.9	10.3	—
Germany.....	33.2	38.6	38.1	30.9	32.2	33.1	34.8	23.5	25.5	24.9	14.8	14.7	14.4	13.7	2.3	3.5	3.7	4.8	6.1	7.3	7.2	7.4	9.5	9.5	11.3	11.4	11.5	13.8
Greece.....	—	—	—	42.8	—	31.9	32.2	—	—	—	22.3	—	6.8	7.2	—	—	—	5.3	—	13.1	11.9	—	—	—	15.2	—	11.9	13.0
Hungary.....	—	—	9.9	6.4	10.0	9.5	14.1	—	—	1.7	1.8	2.8	2.6	4.2	—	—	0.7	1.7	1.2	1.3	1.5	—	—	7.5	2.9	6.0	5.6	8.4
Iceland.....	—	—	35.9	23.0	12.7	14.0	—	—	—	19.4	9.5	4.6	5.8	—	—	—	#	3.0	0.9	0.9	—	—	—	16.5	10.5	7.2	7.3	—
Ireland.....	34.5	23.1	28.1	16.8	16.3	17.3	18.9	19.5	10.9	6.9	4.1	5.1	3.4	4.3	5.8	3.0	15.2	6.3	6.2	7.1	7.2	9.3	9.2	6.0	6.4	5.1	6.8	6.7
Israel.....	—	—	18.1	17.9	18.4	16.7	15.4	—	—	9.2	8.9	8.8	8.2	7.5	—	—	2.8	3.2	3.2	3.0	2.7	—	—	6.1	5.9	6.3	5.5	5.2
Italy.....	—	—	11.7	15.9	—	—	21.2	—	—	0.3	3.5	—	—	5.2	—	—	5.8	3.5	—	—	2.1	—	—	5.7	8.9	—	—	13.8
Japan.....	—	—	54.4	50.9	46.8	46.4	46.6	9.5	10.2	—	—	—	—	—	—	—	—	—	—	—	—	45.1	44.4	41.9	38.0	34.7	34.5	34.8
Korea, Republic of.....	—	—	48.4	43.9	24.2	24.1	26.0	—	—	8.5	9.5	4.7	4.7	5.1	—	—	5.7	2.0	1.4	1.6	1.7	—	—	34.3	32.4	18.1	17.8	19.1
Mexico.....	—	—	—	14.7	12.1	12.7	11.8	—	—	—	3.3	2.9	4.2	3.4	—	—	—	3.2	2.3	1.5	1.3	—	—	—	8.2	6.9	7.0	7.2
Netherlands.....	28.9	18.6	—	21.3	15.1	15.5	14.4	17.7	4.4	—	—	—	—	—	1.5	3.7	—	—	—	—	—	9.7	10.6	—	11.9	7.9	8.3	7.7
New Zealand.....	22.6	16.7	20.5	16.6	20.1	20.2	22.1	13.8	12.7	11.6	7.2	9.6	9.1	9.5	4.7	1.1	1.4	5.2	4.6	4.1	4.7	4.0	3.0	7.5	4.2	5.9	6.9	7.9
Norway.....	33.4	38.3	22.0	25.8	19.1	19.8	21.6	8.0	8.7	14.9	7.8	—	—	—	2.1	1.9	4.6	11.9	—	—	—	23.3	27.7	2.5	6.1	4.3	6.4	7.4
Poland.....	—	—	—	9.1	11.5	11.4	11.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.5	6.5	6.5	6.4
Portugal.....	—	—	—	33.8	32.7	31.3	26.8	—	—	—	12.0	7.2	7.2	6.7	—	—	—	10.0	2.3	2.0	2.0	—	—	—	11.9	23.2	22.1	18.1
Slovak Republic.....	(⁵)	—	38.1	36.8	25.4	22.5	21.6	(⁵)	—	12.6	10.8	5.3	4.9	4.3	(⁵)	—	4.7	4.2	3.7	3.4	3.6	(⁵)	—	20.9	21.8	16.5	14.2	13.8
Slovenia.....	(⁵)	—	—	24.2	18.2	22.9	17.0	(⁵)	—	—	6.4	6.1	9.5	4.0	(⁵)	—	—	4.2	2.4	2.5	2.9	(⁵)	—	—	13.6	9.7	10.9	10.1
Spain.....	26.9	36.0	—	—	24.5	23.2	22.6	19.7	24.8	—	—	12.3	9.7	10.2	1.4	4.1	—	—	3.5	3.4	3.8	5.7	7.1	—	—	8.7	10.1	8.6
Sweden.....	48.5	32.3	40.5	23.7	32.0	40.1	43.1	19.4	9.2	14.3	8.0	8.3	9.1	9.7	9.2	5.9	4.0	2.8	5.2	5.5	6.0	19.9	17.1	22.2	12.9	18.5	25.6	27.4
Switzerland.....	30.2	40.1	42.7	32.0	29.5	25.2	25.6	22.0	25.8	11.7	11.7	12.5	10.6	10.5	1.7	4.1	19.5	3.4	3.9	2.9	2.9	6.5	10.1	11.6	16.9	13.1	11.8	12.2
Turkey.....	24.0	—	25.7	21.4	18.3	16.5	25.9	7.6	—	7.6	6.7	5.3	5.0	10.2	3.3	—	3.0	3.4	3.0	2.9	4.1	13.2	—	15.2	11.2	9.9	8.6	11.6
United Kingdom.....	—	—	21.7	20.3	20.4	21.4	21.9	—	—	7.4	5.5	5.8	5.6	5.6	—	—	5.0	5.7	4.8	5.3	5.5	—	—	9.2	9.0	9.8	10.6	10.8
United States.....	14.5	13.8	13.0	13.5	13.1	13.0	13.3	4.2	4.0	3.4	3.3	3.4	3.5	3.4	3.4	3.2	3.4	3.5	3.2	3.1	3.2	6.9	6.7	6.2	6.7	6.5	6.4	6.7

—Not available.

#Rounds to zero.

¹Includes life sciences, physical sciences, mathematics/statistics, computer science, and engineering, manufacturing, and construction.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 that year. However, if data were reported for less than 75 percent of the countries, 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 1997 (ISCED:97) level 5A, second award, and as ISCED:97 level 6. ISCED:97 level 5A, second award, corresponds to master's and first-professional degrees in the United States, and ISCED:97 level 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 July 21, 2014, from <http://stats.oecd.org/index.aspx>; and unpublished tabulations. (This table was prepared July 2014.)

Table 603.90. Employment to population ratios of 25- to 64-year-olds, by sex, highest level of educational attainment, and country: 2012

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	55.1	73.6	83.2	80.0	65.4	80.7	87.9	65.5	45.5	65.8	78.6
Australia.....	78.8	66.2	80.5	84.4	86.6	77.6	87.8	90.6	71.0	56.4	70.8	79.4
Austria.....	76.3	56.0	78.2	87.4	81.9	64.7	82.1	90.5	70.8	51.2	74.0	83.6
Belgium.....	70.0	47.6	73.5	84.6	75.7	57.5	79.8	87.2	64.4	36.9	66.5	82.3
Canada.....	76.4	56.2	74.8	81.7	80.5	64.9	79.9	85.0	72.3	45.3	68.3	79.0
Chile ²	68.4	60.0	70.3	84.3	86.1	83.7	86.2	91.7	53.0	40.0	56.1	77.8
Czech Republic.....	74.7	40.4	75.9	83.6	83.7	48.6	84.3	91.2	65.5	36.1	66.8	76.0
Denmark.....	77.5	61.4	78.7	86.4	80.6	67.1	81.5	89.2	74.4	55.5	75.0	84.3
Estonia.....	74.9	50.6	74.5	82.2	78.2	54.6	79.5	86.4	71.9	44.5	68.9	79.8
Finland.....	75.5	55.2	74.6	84.4	77.1	59.0	76.9	86.9	74.0	49.8	71.8	82.5
France.....	71.9	55.5	73.5	84.4	76.6	63.1	77.5	87.6	67.5	48.6	69.2	81.7
Germany.....	78.1	57.5	78.2	87.9	83.6	67.6	82.7	91.3	72.5	50.1	73.6	83.8
Greece.....	58.0	47.3	57.6	71.2	68.4	60.7	69.5	75.9	47.5	34.0	45.6	66.4
Hungary.....	65.3	38.8	67.9	79.7	71.8	47.9	73.1	86.4	59.1	32.3	62.0	74.8
Iceland.....	83.5	73.0	84.9	90.6	86.7	78.2	88.4	92.0	80.3	68.4	79.5	89.7
Ireland.....	65.8	44.1	65.4	80.0	71.1	52.5	72.3	84.4	60.6	33.8	58.3	76.5
Israel.....	74.0	47.2	71.7	84.9	79.6	63.2	76.7	89.0	68.6	30.1	65.9	81.6
Italy.....	63.6	50.9	71.1	78.7	74.8	66.7	80.4	84.0	52.7	34.2	61.8	74.6
Japan.....	76.5	—	73.6	79.8	88.5	—	85.4	92.0	64.5	—	61.9	67.4
Korea, Republic of.....	72.5	65.3	70.9	77.1	85.8	77.4	84.1	89.9	58.9	57.6	57.4	61.2
Luxembourg.....	75.0	63.0	71.9	84.8	82.6	73.1	79.3	90.1	67.2	54.3	64.6	78.5
Mexico.....	68.6	64.1	71.9	80.5	88.8	88.4	90.5	88.3	50.9	43.8	56.3	71.9
Netherlands.....	78.1	62.2	80.0	87.6	84.0	74.3	84.6	89.9	72.1	51.2	75.4	85.2
New Zealand.....	79.0	68.3	81.3	83.9	85.6	76.5	88.0	89.4	72.8	60.9	72.7	79.8
Norway.....	81.8	65.2	81.2	90.3	84.5	69.2	85.2	91.7	79.0	61.0	76.1	89.1
Poland.....	67.4	39.8	65.4	84.7	74.8	49.6	74.3	89.1	60.2	30.2	55.4	81.5
Portugal.....	69.1	63.2	76.0	81.8	72.7	69.0	77.8	82.2	65.6	56.8	74.4	81.5
Slovak Republic.....	68.8	30.7	70.3	80.1	76.7	36.0	78.2	85.9	61.0	27.3	61.4	75.6
Slovenia.....	71.0	47.2	70.7	85.1	74.7	56.1	74.5	87.4	67.1	39.3	65.7	83.5
Spain.....	61.9	49.1	65.7	77.1	67.6	57.1	71.5	80.7	56.1	40.4	60.1	73.9
Sweden.....	82.5	64.0	82.6	88.7	85.2	72.9	85.9	89.7	79.6	52.3	78.6	88.0
Switzerland.....	83.0	68.5	82.3	89.3	89.6	77.8	88.5	93.7	76.3	62.2	76.8	83.1
Turkey.....	57.0	51.2	61.7	76.2	78.1	75.4	81.2	84.2	32.7	27.1	30.8	64.6
United Kingdom.....	76.1	56.8	78.8	84.1	82.5	66.4	84.0	89.0	69.9	48.7	73.0	79.3
United States.....	71.4	52.9	67.5	80.1	76.7	63.0	73.1	84.9	66.2	41.6	61.8	76.0
Other reporting countries												
Brazil.....	72.6	66.8	77.3	85.7	86.1	83.2	89.3	92.2	60.2	50.3	66.8	81.3
Russian Federation.....	77.1	49.5	73.2	83.0	82.6	57.2	80.2	88.6	72.2	40.5	64.6	79.2

—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.

²Data are for 2011 instead of 2012.

NOTE: The "high school completion" columns include International Standard Classification of Education 1997 (ISCED:97) levels 3 and 4, with the exception of ISCED:97 level 3C short programs. (ISCED:97 level 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:97 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:97 level 5A, first award, which corresponds to the bachelor's degree in the United States; ISCED:97 level 5A, second award, which corresponds to master's and first-professional degrees in the United States; and ISCED:97 level 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, 2014*. (This table was prepared August 2014.)

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 2011

Country	Gross domestic product per capita					Elementary and secondary education expenditures per FTE student					Higher education expenditures per FTE student				
	2005	2008	2009	2010	2011	2005	2008	2009	2010	2011	2005	2008	2009	2010	2011
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Current dollars														
OECD average¹	\$28,772	\$33,886	\$33,206	\$33,471	\$35,276	\$6,751	\$8,180	\$8,632	\$8,501	\$8,789	\$11,342	\$13,391	\$13,707	\$13,211	\$13,619
Australia.....	33,983	39,532	39,971	40,801	43,208	7,142	7,814	9,139	9,803	9,383	14,579	15,043	16,074	15,142	16,267
Austria.....	34,107	39,849	38,834	40,411	42,978	9,436	10,994	11,681	11,693	12,509	14,775	15,043	14,257	15,007	14,895
Belgium.....	32,077	36,879	36,698	37,878	40,093	7,306	9,706	9,783	10,123	10,722	11,960	15,020	15,443	15,179	15,420
Canada.....	—	38,522	40,136	37,480	—	7,774 ²	8,997 ²	9,774 ²	10,078 ²	—	22,810 ^{3,4}	20,903 ³	22,475 ³	23,226 ³	—
Chile.....	12,635	14,106	14,578	15,107	17,312	2,099	2,245	2,635	2,935	3,203	6,873	6,829	6,829	6,863	7,101
Czech Republic.....	20,280	25,845	25,614	25,364	27,046	4,098	5,236	5,615	5,532	6,128	6,649	8,318	8,237	7,635	9,392
Denmark ⁵	33,626	39,494	38,299	40,600	41,843	8,997	10,429	11,094	11,404	10,230	14,959	17,634	18,556	18,977	21,254
Estonia.....	16,660	21,802	19,789	20,093	23,088	3,736	6,054	6,149	5,984	6,055	3,869	6,022 ⁴	6,373	6,501	7,868
Finland.....	30,468	37,795	35,848	36,030	38,611	6,610	8,068	8,314	8,591	9,180	12,285	15,402	16,569	16,714	18,002
France.....	29,644	34,233	33,724	34,395	36,391	7,456	8,559	8,861	9,070	9,329	10,995	14,079	14,642	15,067	15,375
Germany.....	30,496	37,171	36,048	37,661	40,990	7,039	7,859	8,534	—	9,521	12,446	15,390	15,711	—	16,723
Greece.....	25,472	29,920	29,381	27,539	26,622	5,493 ²	—	—	—	—	6,130	—	—	—	—
Hungary ³	17,014	20,700	20,154	20,625	22,413	4,027	4,626	4,506	4,555	4,527	6,244	7,327	8,518	8,745	9,210
Iceland.....	35,571	39,029	36,718	35,509	38,224	8,815	9,745	9,309	8,592	9,326	9,474 ⁵	10,429	9,939	8,728	8,612
Ireland.....	38,061	42,644	39,750	41,000	42,943	6,411	8,915 ³	9,615 ³	9,638 ³	9,830 ³	10,468	16,284 ³	16,420 ³	16,008 ³	16,095 ³
Israel.....	21,474	27,690	27,454	26,552	30,168	5,041	5,780	5,464	5,692	6,277	10,919	12,568	11,214	10,730	11,554
Italy.....	27,750	33,271	32,397	32,110	33,870	7,410 ³	9,071 ³	8,943 ³	8,489 ³	8,534 ³	8,026 ³	9,553	9,562	9,580	9,990
Japan ⁵	30,290	33,902	32,324	35,238	34,967	7,343	8,301	8,502	9,168	9,102	12,326	14,890	15,957	16,015	16,446
Korea, Republic of.....	21,342	26,877	27,171	28,829	29,035	5,638	6,723	8,122	7,396	7,652	7,606	9,081	9,513	9,972	9,927
Luxembourg.....	69,984	89,732	82,972	84,672	88,668	15,930 ^{2,3}	16,909	18,018	19,050	19,600	—	—	—	—	—
Mexico.....	11,299	15,190	14,397	15,195	17,125	2,025	2,284	2,339	2,464	2,765	6,402	7,504	8,020	7,872	7,889
Netherlands.....	34,724	42,887	41,089	41,682	43,150	7,045	9,251	10,030	10,075	10,268	13,883	17,245	17,849	17,161	17,549
New Zealand.....	24,882	29,231	29,204	29,629	31,487	5,659	6,496	7,556	7,681	8,831	10,262	10,526	10,619	10,418	10,582
Norway.....	47,620	43,659	54,708	44,825	46,696	9,975	12,070	12,971	13,067	13,219	15,552	18,942	19,269	18,512	18,840
Poland ³	13,573	18,062	18,910	20,034	21,753	3,165	4,682	5,167	5,693	6,066	5,593	7,063	7,776	8,866	9,659
Portugal ³	19,967	24,962	24,935	25,519	25,672	5,646	6,276	7,288	7,419	7,282	8,787	10,373	10,481	10,578	9,640
Slovak Republic ⁵	15,881	23,205	22,620	23,194	25,130	2,740	4,006	4,781	5,066	5,105	5,783	6,560	6,758	6,904	8,177
Slovenia.....	23,043	29,241	27,150	26,649	28,156	7,065	8,555	8,670	8,505	8,867	8,573	9,263	9,311	9,693	10,413
Spain.....	27,270	33,173	32,146	31,574	32,157	6,411	8,522	8,818	8,479	8,476	10,089	13,366	13,614	13,373	13,173
Sweden.....	32,770	39,321	37,192	39,251	41,761	7,861	9,524	9,709	10,044	10,548	15,946	20,014	19,961	19,562	20,818
Switzerland ³	35,500	45,517	44,773	48,962	51,582	10,721	13,775	13,411	13,510	14,623	21,734	21,648	21,577	21,893	22,882
Turkey.....	—	14,963	14,442	15,775	17,781	—	—	—	2,020	2,501	—	—	—	—	8,193
United Kingdom.....	31,580	36,817	34,483	35,299	33,886	6,888	9,169	9,602	9,980	9,738	13,506	15,310	16,338	15,862	14,223
United States.....	41,674	46,901	45,087	46,548	49,321	9,771	11,107	11,818	11,826	11,841	23,435	27,499	27,066	25,576	26,021

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 2011—Continued

Country	Gross domestic product per capita					Elementary and secondary education expenditures per FTE student					Higher education expenditures per FTE student				
	2005	2008	2009	2010	2011	2005	2008	2009	2010	2011	2005	2008	2009	2010	2011
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Constant 2013 dollars														
OECD average¹	\$34,322	\$36,665	\$36,057	\$35,759	\$36,534	\$8,053	\$8,850	\$9,373	\$9,082	\$9,102	\$13,529	\$14,489	\$14,884	\$14,114	\$14,104
Australia.....	40,537	42,774	43,403	43,590	44,748	8,519	8,454	9,924	10,473	9,717	17,391	16,276	17,454	16,177	16,847
Austria.....	40,685	43,116	42,168	43,172	44,510	11,256	11,895	12,684	12,492	12,955	17,625	16,277	15,482	16,033	15,426
Belgium.....	38,263	39,903	39,849	40,466	41,522	8,715	10,501	10,623	10,815	11,105	14,267	16,252	16,769	16,216	15,970
Canada.....	—	41,680	43,582	40,042	—	9,273 ²	9,734 ²	10,613 ²	10,766 ²	—	27,209 ^{3,4}	22,617 ³	24,405 ³	24,813 ³	—
Chile.....	15,072	15,263	15,829	16,139	17,929	2,504	2,429	2,861	3,136	3,317	8,198	7,389	7,415	7,332	7,354
Czech Republic.....	24,192	27,964	27,814	27,097	28,010	4,888	5,666	6,098	5,910	6,347	7,931	9,000	8,944	8,157	9,727
Denmark ⁵	40,112	42,733	41,587	43,375	43,334	10,732	11,284	12,047	12,183	10,595	17,844	19,080	20,149	20,274	22,011
Estonia.....	19,873	23,590	21,488	21,466	23,911	4,457	6,550	6,677	6,393	6,271	4,615	6,516 ⁴	6,920	6,945	8,148
Finland.....	36,345	40,894	38,926	38,492	39,987	7,885	8,730	9,028	9,178	9,507	14,654	16,665	17,991	17,856	18,643
France.....	35,362	37,040	36,619	36,745	37,688	8,895	9,261	9,622	9,689	9,662	13,116	15,233	15,899	16,097	15,923
Germany.....	36,377	40,219	39,143	40,234	42,451	8,396	8,503	9,267	—	9,860	14,846	16,652	17,060	—	17,319
Greece.....	30,385	32,373	31,904	29,421	27,571	6,553 ²	—	—	—	—	7,313	—	—	—	—
Hungary ³	20,296	22,397	21,885	22,035	23,212	4,803	5,006	4,893	4,866	4,689	7,449	7,928	9,249	9,343	9,538
Iceland.....	42,431	42,229	39,871	37,936	39,587	10,515	10,544	10,108	9,179	9,658	11,302 ⁵	11,285	10,792	9,324	8,919
Ireland.....	45,401	46,141	43,163	43,802	44,473	7,647	9,646 ³	10,441 ³	10,296 ³	10,180 ³	12,487	17,619 ³	17,830 ³	17,102 ³	16,669 ³
Israel.....	25,616	29,961	29,812	28,367	31,243	6,013	6,254	5,933	6,081	6,501	13,025	13,599	12,177	11,463	11,966
Italy.....	33,102	35,999	35,179	34,304	35,077	8,839 ³	9,815 ³	9,711 ³	9,069 ³	8,838 ³	9,574 ³	10,337	10,382	10,234	10,346
Japan ⁵	36,132	36,682	35,100	37,646	36,213	8,760	8,981	9,231	9,794	9,427	14,703	16,111	17,327	17,109	17,032
Korea, Republic of.....	25,458	29,080	29,504	30,799	30,070	6,726	7,274	8,820	7,902	7,924	9,073	9,826	10,330	10,653	10,280
Luxembourg.....	83,482	97,090	90,096	90,458	91,829	19,003 ^{2,3}	18,296	19,565	20,352	20,298	—	—	—	—	—
Mexico.....	13,478	16,435	15,634	16,233	17,735	2,416	2,471	2,540	2,632	2,863	7,637	8,119	8,709	8,410	8,170
Netherlands.....	41,421	46,404	44,617	44,530	44,688	8,404	10,010	10,892	10,764	10,634	16,560	18,659	19,382	18,334	18,175
New Zealand.....	29,680	31,628	31,712	31,654	32,609	6,751	7,028	8,205	8,206	9,146	12,241	11,389	11,531	11,130	10,959
Norway.....	56,805	47,239	59,405	47,889	48,360	11,899	13,060	14,084	13,960	13,690	18,552	20,495	20,923	19,777	19,512
Poland ³	16,191	19,543	20,534	21,403	22,528	3,775	5,065	5,610	6,082	6,282	6,671	7,642	8,444	9,472	10,003
Portugal ³	23,818	27,009	27,076	27,263	26,587	6,735	6,790	7,914	7,926	7,541	10,482	11,223	11,380	11,301	9,983
Slovak Republic ⁶	18,944	25,108	24,562	24,779	26,025	3,268	4,335	5,191	5,413	5,287	6,899	7,098	7,338	7,375	8,469
Slovenia.....	27,488	31,638	29,481	28,470	29,159	8,427	9,257	9,415	9,086	9,183	10,226	10,022	10,111	10,355	10,785
Spain.....	32,530	35,893	34,906	33,731	33,303	7,647	9,221	9,575	9,058	8,778	12,035	14,462	14,783	14,287	13,642
Sweden.....	39,090	42,546	40,385	41,934	43,250	9,378	10,305	10,543	10,731	10,924	19,022	21,655	21,675	20,899	21,560
Switzerland ³	42,346	49,249	48,617	52,308	53,421	12,788	14,905	14,562	14,434	15,145	25,926	23,423	23,430	23,389	23,697
Turkey.....	—	16,189	15,682	16,853	18,415	—	—	—	2,158	2,590	—	—	—	—	8,485
United Kingdom.....	37,671	39,836	37,444	37,711	35,094	8,217	9,921	10,427	10,662	10,085	16,111	16,565	17,741	16,946	14,730
United States.....	49,712	50,747	48,959	49,729	51,079	11,655	12,018	12,832	12,634	12,263	27,955	29,754	29,390	27,324	26,949

—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.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, Greece, 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 2014. (This table was prepared August 2014.)

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 2011

Country	All institutions (including preprimary education and subsidies to households, not separately shown)								Elementary and secondary institutions (excludes preprimary unless otherwise noted)								Higher education institutions							
	Public direct expenditures					Direct expenditures, 2011			Public direct expenditures					Direct expenditures, 2011			Public direct expenditures					Direct expenditures, 2011		
	1995	2000 ¹	2005 ¹	2009 ¹	2010 ¹	Public ¹	Private	Total	1995	2001 ¹	2005 ¹	2009 ¹	2010 ¹	Public ¹	Private	Total	1995	2001 ¹	2005 ¹	2009 ¹	2010 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	5.4	5.4	5.3	0.9	6.1	3.5	3.4	3.5	3.7	3.7	3.6	0.3	3.8	0.9	1.0	1.0	1.1	1.1	1.1	0.5	1.6
Australia	4.5	4.6	4.3	4.5	4.6	4.3	1.5	5.8	3.2	3.7	3.4	3.6	3.7	3.5	0.6	4.1	1.2	0.8	0.8	0.7	0.8	0.7	0.9	1.6
Austria	5.3	5.4 ³	5.2	5.7	5.6	5.5	0.2	5.7	3.8	3.7 ³	3.5	3.8	3.5	3.5	0.1	3.6	0.9	1.2 ³	1.2	1.4	1.5	1.4	0.1	1.5
Belgium	5.0	5.1	5.8	6.4	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	1.4	1.4	1.3	0.1	1.4
Canada	5.8	5.2	4.8	5.0	5.2	—	—	—	4.0	3.3 ⁵	3.3 ^{5,6}	3.4 ⁶	3.6 ⁶	—	—	—	1.5	1.6 ⁵	1.5 ⁵	1.5	1.6	—	—	—
Chile	—	4.2	3.3	4.1	4.3	3.9	2.5	6.4	—	3.2	2.7	3.3	2.9	2.7	0.7	3.4	—	0.6	0.3	0.3	0.8	0.7	1.7	2.4
Czech Republic	4.8	4.2	4.1	4.2	4.1	4.4	0.6	5.0	3.4	2.8 ⁴	2.7	2.6	2.6	2.6	0.3	2.9	0.7	0.8 ⁴	0.8	1.0	1.0	1.2	0.3	1.4
Denmark	6.5	6.4 ³	6.8	7.5	7.6	7.5	0.4	7.9	4.2	4.1 ³	4.4	4.7	4.7	4.3	0.1	4.4	1.3	1.5 ^{3,7}	1.6 ⁷	1.8 ⁷	1.8 ⁷	1.8 ⁷	0.1 ⁷	1.9 ⁷
Estonia	—	—	4.7	5.9	5.6	5.2	0.3	5.5	—	—	3.5	4.1	3.9	3.3	#	3.4	—	—	0.9	1.3	1.3	1.4	0.3	1.7
Finland	6.6	5.5	5.9	6.3	6.4	6.3	0.1	6.5	4.2	3.5	3.8	4.1	4.1	4.1	#	4.1	1.7	1.7	1.8	1.9	1.9	0.1	1.9	
France	5.8	5.7	5.6	5.8	5.8	5.6	0.5	6.1	4.1	4.0	3.8	3.8	3.8	3.7	0.3	3.9	1.0	1.0	1.1	1.3	1.3	1.3	0.2	1.5
Germany	4.5	4.3	4.2	4.5	—	4.4	0.7	5.1	2.9	2.9	2.8	2.9	—	2.8	0.4	3.1	1.0	1.0	0.9	1.1	—	1.1	0.2	1.3
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	4.6	4.4	—	—	3.3	2.8	3.3	3.0	2.8	2.6	—	—	0.8	0.9	0.9	1.0	0.8	1.0	—	—
Iceland	4.5	5.7 ³	7.2	7.3	7.0	6.9	0.7	7.7	3.4	4.6 ³	5.2	5.0	4.7	4.7	0.2	4.9	0.7	0.8 ³	1.1 ⁷	1.2	1.1	1.1	0.1	1.2
Ireland	4.7	4.1	4.3	6.0	6.0	5.7	0.5	6.2	3.3	2.9 ⁴	3.3	4.6	4.6	4.4	0.2	4.6	0.9	1.2 ⁴	1.0	1.4	1.3	1.2	0.3	1.5
Israel	—	6.6	6.2	5.8	5.9	5.6	1.7	7.3	—	4.5	4.2	3.8	4.0	3.8	0.4	4.2	—	1.1	1.0	1.0	1.0	0.9	0.8	1.7
Italy	4.5	4.5	4.3	4.5	4.3	4.2	0.4	4.6	3.2	3.2	3.2	3.3	3.1	3.0	0.1	3.1	0.7	0.7	0.6	0.8	0.8	0.8	0.2	1.0
Japan	3.6	3.5	3.4	3.6	3.6	3.6	1.6	5.1	2.8	2.7	2.6	2.7	2.8	2.7	0.2	2.9	0.4	0.5 ⁷	0.5 ⁷	0.5 ⁷	0.5 ⁷	0.5 ⁷	1.0 ⁷	1.6 ⁷
Korea, Republic of	3.6	4.3	4.3	4.9	4.8	4.9	2.8	7.6	3.0	3.3	3.4	3.6	3.4	3.4	0.8	4.1	0.3	0.6	0.6	0.7	0.7	0.7	1.9	2.6
Luxembourg	4.3	—	—	—	—	—	—	—	4.2	—	3.7 ⁶	3.2	3.4	3.3	0.1	3.4	0.1	—	—	—	—	—	—	—
Mexico	4.6	4.7	5.3	5.0	5.1	5.0	1.1	6.2	3.4	3.3	3.7	3.3	3.4	3.3	0.6	4.0	0.8	0.8	0.9	1.0	1.0	0.9	0.4	1.3
Netherlands	4.6	4.3	4.6	5.3	5.4	5.3	0.9	6.2	3.0	3.0	3.3	3.7	3.7	3.6	0.4	4.0	1.1	1.0	1.0	1.2	1.3	1.3	0.5	1.8
New Zealand	5.3	5.8	5.2	6.1	6.0	6.3	1.2	7.5	3.8	4.6	4.0	4.5	4.4	4.8	0.6	5.4	1.1	0.9	0.9	1.1	1.0	1.0	0.5	1.5
Norway	6.8	5.8	5.7	6.1	7.5	7.3	—	—	4.1	3.6	3.8	4.2	5.1	4.9	—	—	1.5	1.2	1.3	1.3	1.6	1.6	0.1	1.7
Poland	5.2	5.2 ³	5.4	5.0	5.0	4.8	0.7	5.5	3.3	3.7 ³	3.7	3.5	3.4	3.2	0.2	3.4	0.8	0.8 ³	1.2	1.1	1.0	1.0	0.3	1.3
Portugal	5.4	5.6 ³	5.3	5.5	5.4	5.1	0.4	5.5	4.1	4.1 ³	3.8	4.0	3.9	3.7	#	3.7	1.0	1.0 ³	0.9	1.0	1.0	1.0	0.4	1.4
Slovak Republic	4.6	4.0 ³	3.7	4.1	4.0	3.8	0.5	4.4	—	2.7 ^{3,4,8}	2.5 ⁸	2.7 ⁸	2.8 ⁸	2.5 ⁸	0.3 ⁸	2.8 ⁸	—	0.7 ^{3,4,8}	0.7 ⁸	0.7 ⁸	0.7 ⁸	0.8 ⁸	0.2 ⁸	1.0 ⁸
Slovenia	—	—	5.3	5.3	5.2	5.3	0.7	5.9	—	—	3.9	3.6	3.6	3.5	0.3	3.8	—	—	1.0	1.1	1.1	1.1	0.2	1.3
Spain	4.8	4.3	4.1	4.9	4.8	4.7	0.8	5.5	3.5	3.1	2.7	3.1	3.0	2.9	0.3	3.2	0.8	0.9	0.9	1.1	1.1	1.0	0.3	1.3
Sweden	6.6	6.3	6.2	6.6	6.3	6.2	0.2	6.3	4.4	4.4 ⁴	4.2	4.2	4.0	3.9	#	3.9	1.6	1.5 ⁴	1.5	1.6	1.6	1.6	0.2	1.7
Switzerland	5.5	5.3	5.6	5.5	5.2	5.2	0.4	5.6	4.1	3.8	3.9	3.8	3.6	3.6	0.5	4.0	1.1	1.2	1.4	1.4	1.3	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	5.3	5.9	5.6	0.8	6.4	3.8	3.4	3.8	4.5	4.8	4.4	0.4	4.7	0.7	0.7	0.9	0.6	0.7	0.9	0.3	1.2
United States	5.0	4.6	4.9	5.3	5.1	4.7	2.2	6.9	3.5	3.5 ⁵	3.6	3.8	3.7	3.4	0.3	3.7	1.1	0.8 ⁵	1.0	1.1	1.0	0.9	1.8	2.7
Other reporting countries																								
Brazil	—	—	4.4	5.5	5.6	5.9	—	—	—	—	3.3	4.3	4.3	4.4	—	—	—	—	0.8	0.8	0.9	0.9	—	—
Russian Federation	3.4	3.0 ³	3.8	4.7	4.1	3.9	0.7	4.6	1.9	1.7	1.9	2.3	2.0	2.0	0.1	2.1	0.7	0.5	0.8	1.2	1.0	0.9	0.5	1.4

—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 education 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. Data for "all institutions" include expenditures that could not be reported by level of education. 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 2014. 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 August 2014.)

CHAPTER 7

Libraries and Internet Use

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. Tables on the use of technology and distance education in elementary and secondary schools and in postsecondary institutions can be found in chapters 2 and 3.

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 \$372 per FTE student attending a public institution in 2011–12, compared with \$844 per FTE student attending a private nonprofit 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 2012, there were 9,082 public libraries in the United States with a total of 784 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 4.9, the annual number of reference transactions per capita was 0.9, and the annual number of uses of public-access internet computers per capita was 1.1.

Computer and Internet Use

In 2013, 71 percent of the U.S. 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 (75 percent), followed by Blacks (64 percent), and then Hispanics (61 percent). The percentage of internet users in the population age 3 and over was generally higher for those with higher family income levels. For example, 72 percent of people with family incomes from \$40,000 to \$49,999 used the Internet, compared to 85 percent of people with family incomes of \$100,000 or more. Among persons age 25 and over, the percentage of internet users tended to be higher for those with higher levels of educational attainment. For example, 54 percent of persons who had not completed high school used the Internet, compared with 64 percent of those who had completed only a high school diploma or equivalent and 89 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 ² 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 ² 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)	81.5 (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	89.9 (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	83.6 (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	91.5 (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)	84.8 (5.15)	84.8 (5.98)	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, and per capita usage of selected library services per year, by state: Fiscal years 2011 and 2012

State	Number of public libraries ¹		Number of books and serial volumes				Per capita ² usage of selected services per year							
			In thousands		Per capita ²		Number of library visits ³		Circulation (number of materials lent)		Reference transactions ⁴		Uses of public-access internet computers	
	2011	2012	2011	2012	2011	2012	2011	2012	2011	2012	2011	2012	2011	2012
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
United States	8,956	9,082	791,183	783,882	2.6	2.6	5.1	4.9	8.1	8.0	1.0	0.9	1.1	1.1
Alabama	212	219	9,766	9,671	2.1	2.1	3.7	3.6	4.4	4.5	0.9	0.9	0.9	1.0
Alaska	72	77	2,271	2,354	3.2	3.6	4.7	5.1	6.4	7.1	0.6	0.7	1.3	1.6
Arizona	90	91	9,601	8,399	1.5	1.3	4.4	4.3	7.9	7.8	0.6	0.7	0.9	1.0
Arkansas	55	56	6,611	6,501	2.5	2.5	4.1	4.1	5.7	5.4	0.9	0.8	1.3	0.8
California	182	183	70,531	68,912	1.9	1.8	4.5	4.3	6.5	6.1	0.7	0.6	0.9	0.9
Colorado	114	115	11,454	11,367	2.3	2.2	6.6	6.5	13.0	13.1	1.0	0.9	1.4	1.4
Connecticut	183	183	14,610	14,522	4.3	4.3	6.9	6.9	9.8	9.7	1.1	1.1	1.5	1.5
Delaware	21	21	1,657	1,697	1.8	1.9	4.9	5.1	6.0	7.0	0.5	0.5	0.8	0.9
District of Columbia	1	1	1,466	1,334	2.4	2.1	4.3	4.0	5.0	5.3	1.4	1.5	1.5	1.3
Florida	77	79	32,483	32,481	1.7	1.7	4.5	4.3	6.8	6.6	1.7	1.6	1.1	1.0
Georgia	61	61	16,660	16,637	1.6	1.6	3.4	3.2	4.5	4.2	1.0	0.9	1.3	1.3
Hawaii	1	1	3,375	3,394	2.5	2.5	3.6	3.9	5.1	5.0	0.5	0.5	0.4	0.4
Idaho	101	101	4,358	4,350	3.1	3.1	6.4	6.8	10.9	10.9	0.9	0.9	1.3	1.3
Illinois	621	622	44,091	43,846	3.8	3.7	7.1	6.6	10.4	10.3	1.2	1.2	1.4	1.3
Indiana	238	237	24,342	24,321	4.3	4.0	6.7	6.3	13.6	12.7	1.0	0.9	1.5	1.3
Iowa	531	533	12,183	12,105	4.0	4.1	6.6	6.5	9.8	9.7	0.6	0.6	1.3	1.3
Kansas	311	321	9,517	9,473	3.9	3.8	6.2	6.0	11.0	10.7	0.9	0.8	1.8	1.6
Kentucky	118	119	8,953	8,803	2.1	2.0	4.6	4.5	6.9	6.8	0.8	0.9	1.1	1.1
Louisiana	68	68	11,876	11,934	2.6	2.6	3.6	3.7	4.4	4.5	0.9	0.9	1.5	1.4
Maine	214	229	5,855	5,964	5.1	5.2	6.1	6.2	8.3	8.4	0.5	0.6	1.1	1.2
Maryland	24	24	12,953	13,022	2.3	2.3	5.4	5.1	10.2	10.0	1.4	1.5	1.1	1.2
Massachusetts	359	359	32,576	32,668	5.0	5.0	6.4	6.5	9.9	9.9	0.8	0.8	1.2	1.2
Michigan	389	389	34,080	33,728	3.5	3.4	5.9	5.7	9.2	8.9	1.0	1.0	1.4	1.2
Minnesota	138	138	15,457	15,164	2.9	2.8	5.2	4.9	11.1	10.5	0.7	0.6	1.3	1.2
Mississippi	50	51	5,698	5,734	1.9	1.9	3.4	3.2	2.9	2.8	0.6	0.5	0.9	0.9
Missouri	147	147	16,961	17,220	3.1	3.2	5.7	5.6	9.9	10.0	1.0	0.7	1.2	1.2
Montana	81	82	2,781	2,700	2.8	2.7	4.7	4.7	7.6	7.6	0.5	0.5	1.4	1.6
Nebraska	216	265	5,733	5,949	4.0	4.1	6.0	6.0	9.7	9.4	0.7	0.6	1.6	1.6
Nevada	22	22	4,523	4,441	1.7	1.6	4.1	4.1	7.1	7.4	0.7	0.7	0.9	0.9
New Hampshire	221	218	5,965	5,874	6.0	6.0	8.0	7.7	11.7	11.6	0.8	0.8	1.0	1.2
New Jersey	281	297	28,671	29,075	3.3	3.3	5.6	5.5	7.2	7.1	1.0	0.9	1.2	1.2
New Mexico	82	85	4,508	4,271	2.8	2.6	5.0	4.5	6.3	5.7	0.7	0.6	1.2	1.2
New York	756	756	71,909	70,074	3.8	3.6	6.1	5.9	8.6	8.2	1.4	1.6	1.2	1.2
North Carolina	77	77	16,620	16,519	1.7	1.7	4.3	4.2	5.7	5.7	1.2	1.1	1.0	0.9
North Dakota	76	75	2,349	2,294	3.9	3.7	3.9	3.8	6.6	6.7	0.6	0.6	0.9	1.0
Ohio	251	251	44,570	44,120	3.9	3.8	7.7	7.6	16.6	16.4	1.8	1.8	1.8	1.8
Oklahoma	117	118	7,394	7,441	2.4	2.4	4.5	4.7	7.2	7.1	0.9	1.0	1.3	1.3
Oregon	126	128	9,910	9,926	2.7	2.7	6.5	6.3	17.2	17.2	0.7	0.7	1.3	1.3
Pennsylvania	456	456	27,363	26,694	2.2	2.2	3.9	3.8	5.5	5.6	0.7	0.6	0.7	0.7
Rhode Island	48	48	4,585	4,428	4.4	4.2	5.8	5.8	7.5	7.1	0.7	0.7	1.4	1.4
South Carolina	42	42	9,480	9,343	2.0	2.0	3.9	3.9	5.7	5.6	1.1	0.7	1.1	1.0
South Dakota	103	112	2,887	2,988	4.1	4.0	5.6	5.3	8.8	8.9	0.6	0.6	1.5	1.9
Tennessee	185	185	11,445	11,525	1.8	1.8	3.3	3.4	4.1	4.2	0.6	0.6	0.9	0.9
Texas	553	551	41,284	40,707	1.8	1.7	3.3	3.2	5.1	5.5	0.7	0.6	0.8	0.8
Utah	72	72	6,800	6,964	2.5	2.5	7.1	6.8	13.8	13.5	1.2	1.2	1.3	1.2
Vermont	159	163	2,874	2,881	5.3	4.9	7.0	6.5	8.9	7.8	0.9	0.9	1.6	1.5
Virginia	91	91	18,723	18,332	2.4	2.3	5.3	5.0	9.9	9.7	1.0	0.9	1.1	1.3
Washington	61	61	13,972	14,842	2.1	2.2	6.7	6.4	12.9	12.1	0.8	0.8	1.4	1.6
West Virginia	97	97	5,356	5,140	3.0	2.8	3.2	3.2	4.0	3.6	0.4	0.4	0.8	0.7
Wisconsin	382	382	19,648	19,265	3.5	3.4	6.3	6.3	11.3	11.1	0.9	0.8	1.3	1.2
Wyoming	23	23	2,450	2,488	4.3	4.4	6.8	6.4	9.2	8.8	0.9	0.9	1.7	1.7

¹"Number of public libraries" refers to the number of administrative entities that are legally established under local or state law to provide public library service to the population of a local jurisdiction. A public library (administrative entity) may have a single outlet that provides direct service to the public, or it may have multiple service outlets. Outlets can be central libraries, branch libraries, bookmobiles, or books-by-mail-only outlets. In 2011, there were a total of 17,110 service outlets; in 2012, there were 17,219 service outlets.
²Per capita (or per person) data are based on unduplicated populations of the areas served by public libraries.
³Includes only the number of physical visits (entering the library for any purpose). The survey does not collect data on the number of online visits.

⁴A reference transaction is an information contact that involves the knowledge, use, recommendations, interpretation, or instruction in the use of one or more information sources by a member of the library staff.
NOTE: Data include imputations for nonresponse. Detail may not sum to totals because of rounding.
SOURCE: Institute of Museum and Library Services, Public Libraries Survey, fiscal years 2011 and 2012, retrieved March 2, 2015, from <http://www.ims.gov/research/public-libraries-in-the-united-states-survey.aspx>. (This table was prepared April 2015.)

Table 702.10. Number and percentage of persons age 3 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 age groups and other characteristics of all users and of students: 2013

[Standard errors appear in parentheses]

Selected age group or other characteristic	Total population (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 age 3 and over.....	299,216 (52.0)	213,708 (725.5)	71.4 (0.24)	91.5 (0.18)	1.0 (0.07)	99.0 (0.07)	41.1 (0.64)	33.6 (0.69)	3.2 (0.27)	2.2 (0.21)	11.9 (0.50)	7.9 (0.36)
Sex.....												
Male.....	145,897 (37.9)	103,462 (412.0)	70.9 (0.29)	91.8 (0.22)	1.0 (0.08)	99.0 (0.08)	40.8 (0.75)	33.9 (0.76)	3.3 (0.33)	2.4 (0.23)	11.9 (0.54)	7.8 (0.40)
Female.....	153,319 (36.9)	110,246 (441.5)	71.9 (0.29)	91.2 (0.20)	1.1 (0.08)	98.9 (0.08)	41.5 (0.67)	33.4 (0.72)	3.0 (0.26)	2.1 (0.22)	11.9 (0.54)	8.0 (0.41)
Race/ethnicity.....												
White.....	188,805 (111.9)	142,313 (487.0)	75.4 (0.25)	93.7 (0.17)	1.1 (0.08)	98.9 (0.08)	47.9 (0.84)	25.6 (0.77)	2.8 (0.26)	3.2 (0.34)	11.3 (0.60)	9.2 (0.49)
Black.....	35,918 (175.0)	22,996 (273.2)	64.0 (0.74)	83.8 (0.82)	1.2 (0.23)	98.8 (0.23)	35.9 (1.54)	40.5 (1.57)	3.1 (0.51)	0.8 ! (0.27)	12.8 (1.08)	6.9 (0.82)
Hispanic.....	50,425 (34.5)	30,771 (340.8)	61.0 (0.67)	85.8 (0.58)	0.8 (0.19)	99.2 (0.19)	33.1 (1.20)	43.6 (1.48)	3.3 (0.68)	1.3 ! (0.42)	12.7 (1.09)	6.0 (0.70)
Other ³	24,068 (176.2)	17,627 (219.7)	73.2 (0.76)	93.7 (0.48)	0.7 (0.19)	99.3 (0.19)	34.2 (2.24)	39.1 (2.67)	5.4 (1.33)	2.1 ! (0.86)	10.7 (1.76)	8.6 (1.31)
Age.....												
3 and 4.....	8,147 (52.0)	2,773 (92.4)	34.0 (1.14)	91.5 (1.19)	1.3 ! (0.56)	98.7 (0.56)	24.8 (2.44)	49.4 (2.74)	6.4 (1.41)	3.0 ! (0.90)	10.8 (1.81)	5.5 (1.04)
5 to 9.....	20,570 (0.0)	10,795 (168.3)	52.5 (0.82)	91.7 (0.62)	0.7 (0.19)	99.3 (0.19)	24.1 (1.63)	50.1 (1.77)	4.1 (0.72)	2.1 (0.49)	12.3 (1.34)	7.4 (1.14)
10 to 15.....	24,743 (0.0)	17,657 (163.7)	71.4 (0.66)	92.2 (0.48)	0.8 (0.17)	99.2 (0.17)	26.0 (1.53)	47.4 (1.76)	3.3 (0.71)	3.7 (0.68)	10.6 (1.11)	9.0 (1.14)
16 to 19.....	16,795 (0.0)	14,205 (108.2)	84.6 (0.64)	91.8 (0.52)	0.9 (0.19)	99.1 (0.19)	28.4 (2.18)	46.2 (2.38)	2.4 ! (0.72)	3.7 (0.80)	12.3 (1.71)	7.0 (1.25)
20 to 24.....	22,066 (0.0)	18,563 (135.5)	84.1 (0.61)	89.4 (0.54)	0.8 (0.18)	99.2 (0.18)	27.6 (1.82)	44.8 (1.99)	4.8 (0.83)	2.8 ! (0.85)	12.5 (1.30)	7.4 (1.05)
25 to 29.....	20,877 (0.0)	17,266 (125.9)	82.7 (0.60)	90.3 (0.50)	0.6 (0.15)	99.4 (0.15)	30.0 (1.73)	45.2 (1.94)	5.6 (0.94)	2.0 (0.48)	10.4 (1.29)	6.8 (0.94)
30 to 39.....	39,842 (0.0)	32,998 (178.5)	82.8 (0.45)	91.9 (0.35)	0.7 (0.13)	99.3 (0.13)	27.6 (1.36)	46.3 (1.51)	4.2 (0.74)	2.3 (0.38)	11.9 (0.98)	7.7 (0.73)
40 to 49.....	41,357 (0.0)	33,604 (165.7)	81.3 (0.40)	93.5 (0.30)	0.7 (0.10)	99.3 (0.10)	33.9 (1.41)	39.0 (1.41)	3.7 (0.57)	2.9 (0.54)	12.4 (1.00)	8.1 (0.83)
50 to 59.....	43,244 (78.2)	31,295 (199.9)	72.4 (0.44)	91.7 (0.35)	1.3 (0.15)	98.7 (0.15)	44.1 (1.12)	31.2 (1.25)	2.8 (0.36)	2.9 (0.44)	11.9 (0.79)	7.1 (0.63)
60 to 69.....	32,588 (124.6)	21,651 (177.5)	66.4 (0.52)	91.6 (0.44)	2.0 (0.21)	98.0 (0.21)	50.9 (1.23)	22.5 (1.03)	2.7 (0.39)	1.8 (0.35)	13.3 (0.93)	8.8 (0.75)
70 or older.....	28,987 (84.0)	12,899 (179.9)	44.5 (0.62)	87.6 (0.58)	2.3 (0.30)	97.7 (0.30)	66.8 (1.08)	11.4 (0.78)	1.0 (0.17)	0.7 (0.15)	11.4 (0.68)	8.7 (0.57)
Educational attainment of persons age 25 and over.....												
Less than high school.....	39,330 (419.3)	21,063 (286.4)	53.6 (0.62)	85.1 (0.56)	1.2 (0.18)	98.8 (0.18)	43.0 (0.98)	33.3 (1.14)	1.5 (0.27)	1.8 (0.25)	13.3 (0.84)	7.1 (0.55)
High school diploma or equivalent.....	72,679 (611.1)	46,166 (493.1)	63.5 (0.43)	87.9 (0.32)	1.5 (0.14)	98.5 (0.14)	45.3 (0.78)	30.5 (0.74)	2.3 (0.27)	2.0 (0.22)	12.3 (0.57)	7.6 (0.45)
Some college.....	46,159 (450.2)	38,219 (443.2)	82.8 (0.41)	91.9 (0.31)	1.2 (0.12)	98.8 (0.12)	41.1 (1.29)	33.1 (1.20)	4.5 (0.51)	2.1 (0.40)	10.7 (0.82)	8.6 (0.73)
Associate's degree.....	22,427 (304.9)	18,752 (279.0)	83.6 (0.52)	92.8 (0.40)	1.0 (0.15)	99.0 (0.15)	44.0 (1.86)	28.7 (1.78)	4.8 (0.92)	3.5 (0.70)	11.6 (1.21)	7.4 (0.88)
Bachelor's or higher degree.....	69,248 (549.2)	61,627 (496.6)	89.0 (0.25)	95.4 (0.21)	0.7 (0.09)	99.3 (0.09)	44.8 (1.47)	25.6 (1.28)	6.4 (0.80)	2.8 (0.57)	9.2 (0.92)	11.1 (0.95)
Bachelor's degree.....	45,322 (410.7)	39,977 (364.8)	88.2 (0.32)	95.1 (0.25)	0.8 (0.11)	99.2 (0.11)	44.1 (1.67)	26.9 (1.63)	6.7 (0.86)	2.8 (0.63)	8.6 (1.01)	10.9 (1.05)
Master's or higher degree.....	23,927 (391.2)	21,650 (368.0)	90.5 (0.40)	96.0 (0.31)	0.6 (0.11)	99.4 (0.11)	46.6 (2.32)	22.4 (1.92)	5.7 (1.29)	3.0 (0.85)	10.7 (1.71)	11.7 (1.87)
Family income.....												
Less than \$10,000.....	20,430 (594.5)	10,937 (377.5)	53.5 (1.04)	75.1 (1.20)	1.8 (0.43)	98.2 (0.43)	32.3 (1.51)	45.1 (1.71)	2.2 (0.47)	1.5 (0.37)	12.1 (1.02)	6.8 (0.88)
\$10,000 to \$19,999.....	31,314 (608.2)	16,419 (468.8)	52.4 (0.81)	81.1 (0.84)	2.1 (0.34)	97.9 (0.34)	42.0 (1.39)	34.9 (1.44)	1.5 (0.35)	1.4 (0.39)	12.3 (0.99)	8.0 (0.75)
\$20,000 to \$29,999.....	33,039 (617.8)	19,913 (466.5)	60.3 (0.80)	85.2 (0.64)	2.1 (0.35)	97.9 (0.35)	43.1 (1.41)	33.8 (1.43)	2.5 (0.45)	1.4 (0.38)	12.5 (1.06)	6.6 (0.76)
\$30,000 to \$39,999.....	32,893 (634.2)	21,155 (445.8)	64.3 (0.68)	86.1 (0.61)	1.2 (0.23)	98.8 (0.23)	42.8 (1.60)	31.7 (1.55)	3.0 (0.64)	1.9 (0.46)	12.3 (1.09)	8.3 (0.93)
\$40,000 to \$49,999.....	24,764 (509.1)	17,766 (422.9)	71.7 (0.75)	92.4 (0.64)	0.8 (0.23)	99.2 (0.23)	44.5 (2.55)	29.4 (2.41)	2.8 (0.75)	2.0 ! (0.71)	12.6 (1.85)	8.7 (1.53)
\$50,000 to \$74,999.....	56,781 (699.3)	43,490 (577.0)	76.6 (0.47)	94.1 (0.32)	1.2 (0.18)	98.8 (0.18)	40.7 (2.06)	28.4 (1.91)	6.4 (1.01)	4.3 (0.81)	11.5 (1.56)	8.8 (0.99)
\$75,000 to \$99,999.....	36,007 (582.6)	29,429 (479.6)	81.7 (0.52)	96.3 (0.31)	0.6 (0.13)	99.4 (0.13)	44.3 (3.17)	25.9 (2.63)	7.3 (1.90)	7.0 (1.67)	6.7 (1.69)	8.8 (1.93)
\$100,000 or more.....	63,988 (816.4)	54,598 (740.2)	85.3 (0.39)	97.3 (0.20)	0.5 (0.10)	99.5 (0.10)	46.7 (3.37)	20.0 (3.12)	6.5 (1.66)	5.1 ! (1.69)	10.0 (2.01)	11.8 (2.06)
Total school-age population (all 5- to 15-year-olds).....	45,313 (0.0)	28,452 (271.1)	62.8 (0.60)	92.0 (0.42)	0.8 (0.15)	99.2 (0.15)	25.1 (1.24)	48.7 (1.40)	3.7 (0.61)	2.9 (0.52)	11.4 (1.01)	8.2 (0.94)
Age.....												
5 to 9 years old.....	20,570 (0.0)	10,795 (168.3)	52.5 (0.82)	91.7 (0.62)	0.7 (0.19)	99.3 (0.19)	24.1 (1.63)	50.1 (1.77)	4.1 (0.72)	2.1 (0.49)	12.3 (1.34)	7.4 (1.14)
10 to 15 years old.....	24,743 (0.0)	17,657 (163.7)	71.4 (0.66)	92.2 (0.48)	0.8 (0.17)	99.2 (0.17)	26.0 (1.53)	47.4 (1.76)	3.3 (0.71)	3.7 (0.68)	10.6 (1.11)	9.0 (1.14)
Sex.....												
Male school-age population.....	23,146 (0.0)	14,519 (169.9)	62.7 (0.73)	92.2 (0.56)	0.8 (0.19)	99.2 (0.19)	24.9 (1.52)	48.3 (1.85)	4.2 (0.93)	2.9 (0.52)	11.6 (1.24)	8.1 (1.12)
5 to 9 years old.....	10,508 (0.0)	5,416 (115.8)	51.5 (1.10)	91.6 (0.88)	0.7 ! (0.25)	99.3 (0.25)	23.4 (2.23)	49.7 (2.17)	4.6 (1.05)	1.9 (0.54)	13.1 (1.70)	7.3 (1.40)
10 to 15 years old.....	12,638 (0.0)	9,103 (102.3)	72.0 (0.81)	92.5 (0.62)	0.9 (0.24)	99.1 (0.24)	26.3 (1.97)	47.0 (2.52)	3.8 (1.04)	3.9 (0.78)	10.1 (1.45)	8.8 (1.42)
Female school-age population.....	22,167 (0.0)	13,933 (166.1)	62.9 (0.75)	91.8 (0.52)	0.7 (0.18)	99.3 (0.18)	25.2 (1.65)	49.2 (1.67)	3.1 (0.60)	3.0 (0.68)	11.2 (1.15)	8.3 (1.07)
5 to 9 years old.....	10,062 (0.0)	5,379 (102.1)	53.5 (1.01)	91.7 (0.82)	0.7 ! (0.27)	99.3 (0.27)	24.8 (2.19)	50.5 (2.58)	3.6 (0.93)	2.3 (0.65)	11.4 (1.72)	7.4 (1.53)
10 to 15 years old.....	12,105 (0.0)	8,554 (118.3)	70.7 (0.98)	91.8 (0.65)	0.7 ! (0.22)	99.3 (0.22)	25.6 (2.28)	47.9 (2.31)	2.7 (0.74)	3.6 (0.95)	11.0 (1.43)	9.2 (1.50)

See notes at end of table.

Table 702.10. Number and percentage of persons age 3 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 age groups and other characteristics of all users and of students: 2013—Continued

(Standard errors appear in parentheses)

Selected age group or other characteristic	Total population (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
Race/ethnicity												
White school-age population	24,016 (51.2)	16,262 (189.4)	67.7 (0.77)	95.8 (0.41)	0.8 (0.18)	99.2 (0.18)	27.4 (2.38)	41.2 (2.83)	2.6 (0.73)	5.6 (1.23)	11.0 (1.71)	12.4 (2.06)
5 to 9 years old.....	10,626 (40.3)	6,119 (117.6)	57.6 (1.10)	95.5 (0.63)	0.9 ! (0.29)	99.1 (0.29)	27.1 (3.01)	42.9 (3.36)	3.0 ! (1.02)	3.0 ! (0.96)	12.2 (2.11)	11.9 (2.45)
10 to 15 years old	13,390 (49.4)	10,143 (129.7)	75.8 (0.90)	95.9 (0.45)	0.7 (0.18)	99.3 (0.18)	27.7 (2.78)	39.5 (3.36)	2.1 ! (0.69)	8.1 (1.77)	9.8 (2.03)	12.8 (2.39)
Black school-age population	6,221 (55.5)	3,499 (102.5)	56.2 (1.64)	82.6 (1.96)	0.8 ! (0.41)	99.2 (0.41)	22.1 (2.74)	57.0 (3.31)	3.7 (1.10)	+	10.6 (2.29)	5.8 (1.54)
5 to 9 years old.....	2,842 (29.9)	1,320 (63.3)	46.4 (2.19)	83.3 (2.72)	+	99.7 (0.26)	18.5 (3.35)	58.5 (4.10)	5.6 ! (1.75)	+	11.2 (2.91)	5.5 (1.64)
10 to 15 years old	3,379 (41.8)	2,179 (67.9)	64.5 (1.97)	82.2 (2.11)	+	98.8 (0.64)	24.8 (3.27)	55.9 (3.88)	2.3 ! (1.11)	+	10.1 (2.37)	6.1 ! (1.88)
Hispanic school-age population.....	10,810 (0.0)	5,944 (141.9)	55.0 (1.31)	86.3 (1.16)	0.9 ! (0.36)	99.1 (0.36)	25.0 (1.90)	49.0 (2.23)	4.3 (1.12)	2.0 ! (0.79)	13.0 (1.68)	6.8 (1.33)
5 to 9 years old.....	5,131 (0.0)	2,307 (90.4)	45.0 (1.76)	85.6 (1.92)	+	99.4 (0.35)	23.8 (2.46)	50.9 (2.91)	4.2 (1.24)	1.9 ! (0.78)	13.8 (2.33)	5.3 (1.35)
10 to 15 years old	5,679 (0.0)	3,636 (85.0)	64.0 (1.50)	86.7 (1.19)	1.0 ! (0.45)	99.0 (0.45)	26.1 (2.58)	47.0 (2.73)	4.3 ! (1.38)	2.2 ! (0.95)	12.2 (1.87)	8.2 (1.95)
Family income												
Less than \$10,000.....	3,465 (168.6)	1,559 (110.8)	45.0 (2.28)	69.6 (3.29)	+	98.5 (1.00)	17.1 (2.29)	63.9 (3.13)	2.4 ! (0.82)	2.0 ! (0.78)	9.0 (1.72)	5.6 ! (1.69)
\$10,000 to \$19,999.....	4,983 (202.3)	2,491 (154.8)	50.0 (2.09)	83.9 (1.99)	1.3 ! (0.65)	98.7 (0.65)	22.6 (2.35)	51.7 (3.28)	1.9 ! (0.78)	2.2 ! (0.98)	9.7 (1.94)	11.9 (2.32)
\$20,000 to \$29,999.....	4,837 (196.3)	2,603 (149.1)	53.8 (1.74)	88.5 (1.40)	1.6 ! (0.74)	98.4 (0.74)	25.6 (3.06)	47.8 (3.61)	3.9 (1.13)	+	14.6 (2.82)	6.5 (1.80)
\$30,000 to \$39,999.....	4,728 (183.6)	2,667 (125.1)	56.4 (1.78)	85.8 (1.64)	+	99.5 (0.35)	25.8 (3.39)	45.0 (3.57)	5.7 ! (1.96)	3.3 ! (1.29)	11.4 (2.40)	8.7 (2.45)
\$40,000 to \$49,999.....	3,627 (147.7)	2,264 (120.1)	62.4 (1.80)	92.9 (1.62)	+	99.1 (0.54)	35.3 (5.90)	37.6 (5.78)	+	+	16.0 ! (5.19)	+
\$50,000 to \$74,999.....	8,279 (221.3)	5,469 (187.8)	66.1 (1.37)	93.9 (1.07)	1.6 ! (0.53)	98.4 (0.53)	29.8 (4.23)	39.8 (4.58)	5.0 ! (2.00)	7.9 ! (2.70)	12.0 (3.53)	5.5 (1.64)
\$75,000 to \$99,999.....	5,291 (190.7)	3,791 (155.5)	71.7 (1.42)	98.4 (0.48)	+	99.9 (0.07)	32.9 (7.16)	32.8 (7.66)	8.4 ! (3.77)	+	+	13.5 ! (6.39)
\$100,000 or more.....	10,103 (242.0)	7,609 (215.8)	75.3 (1.10)	97.7 (0.38)	+	100.0 (0.01)	37.5 (7.71)	26.8 (7.71)	+	+	13.3 ! (6.43)	13.8 ! (4.94)
Total, all 16- to 24-year-old students⁴.....	11,784 (223.2)	10,230 (212.0)	86.8 (0.76)	92.9 (0.61)	0.8 (0.25)	99.2 (0.25)	31.0 (3.19)	44.9 (3.07)	3.1 (0.91)	2.4 (0.72)	10.1 (1.82)	8.5 (1.73)
School level												
High school.....	4,352 (120.6)	3,553 (116.6)	81.6 (1.32)	91.8 (0.99)	0.7 ! (0.35)	99.3 (0.35)	29.5 (4.07)	50.8 (4.20)	+	+	11.8 (2.71)	5.5 ! (1.89)
College.....	7,432 (192.3)	6,677 (182.6)	89.8 (0.78)	93.4 (0.77)	0.9 ! (0.32)	99.1 (0.32)	32.4 (4.29)	39.7 (4.04)	5.2 ! (1.62)	+	8.6 (2.27)	11.2 (2.73)
Sex												
Male.....	5,584 (132.7)	4,793 (132.1)	85.8 (1.11)	91.7 (0.97)	0.7 ! (0.27)	99.3 (0.27)	35.4 (4.35)	45.6 (3.93)	2.5 ! (1.01)	2.2 ! (1.08)	8.7 (2.39)	5.5 ! (1.91)
High school.....	2,256 (82.5)	1,838 (80.6)	81.5 (1.75)	91.4 (1.43)	+	99.9 (0.05)	34.3 (5.74)	52.7 (5.40)	+	+	8.3 ! (3.11)	+
College.....	3,329 (118.0)	2,955 (115.4)	88.8 (1.22)	92.0 (1.18)	1.1 ! (0.43)	98.9 (0.43)	36.5 (5.46)	39.0 (4.93)	4.8 ! (1.92)	+	9.2 ! (3.35)	7.3 ! (2.89)
Female.....	6,200 (150.3)	5,437 (139.9)	87.7 (0.99)	93.9 (0.70)	1.0 ! (0.35)	99.0 (0.35)	26.5 (4.08)	44.2 (4.04)	3.6 ! (1.57)	2.7 ! (0.90)	11.4 (2.66)	11.5 (2.78)
High school.....	2,096 (88.0)	1,715 (82.5)	81.8 (1.86)	92.3 (1.34)	1.5 ! (0.72)	98.5 (0.72)	24.4 (5.35)	48.8 (5.78)	+	+	15.5 (4.35)	7.5 ! (3.14)
College.....	4,104 (128.8)	3,722 (121.5)	90.7 (1.00)	94.6 (0.90)	0.7 ! (0.36)	99.3 (0.36)	28.4 (5.57)	40.3 (5.47)	5.6 ! (2.71)	+	8.0 ! (3.09)	15.0 (4.22)
Race/ethnicity												
White	6,531 (154.0)	5,809 (149.8)	89.0 (0.86)	95.2 (0.59)	+	99.5 (0.25)	33.3 (4.48)	38.5 (4.82)	+	5.5 ! (1.72)	9.9 (2.82)	10.5 (3.09)
High school.....	2,245 (85.0)	1,913 (76.6)	85.2 (1.58)	94.0 (1.09)	+	99.3 (0.37)	37.1 (6.66)	44.9 (6.56)	+	+	7.2 ! (3.37)	+
College.....	4,286 (135.8)	3,896 (134.7)	90.9 (0.92)	95.8 (0.71)	+	99.6 (0.30)	29.9 (6.47)	32.8 (6.46)	+	+	12.3 ! (4.04)	15.3 ! (4.89)
Black	1,602 (87.5)	1,313 (80.5)	81.9 (2.16)	90.6 (1.83)	2.4 ! (1.14)	97.6 (1.14)	21.5 (5.16)	47.4 (6.61)	+	+	12.8 ! (4.94)	14.4 ! (5.35)
High school.....	675 (51.4)	519 (48.9)	76.9 (3.54)	91.0 (2.90)	+	97.3 (2.01)	15.2 ! (5.82)	57.4 (9.55)	+	+	16.6 ! (7.68)	+
College.....	928 (69.4)	794 (65.0)	85.6 (2.93)	90.4 (2.38)	+	97.8 (1.31)	28.0 (8.13)	37.0 (8.79)	+	+	+	18.2 ! (8.28)
Hispanic	2,452 (92.4)	2,047 (89.7)	83.5 (2.04)	86.9 (1.71)	+	99.0 (0.54)	32.3 (5.49)	50.3 (5.87)	+	+	10.7 ! (3.22)	3.7 ! (1.70)
High school.....	1,014 (63.6)	758 (56.9)	74.7 (3.64)	85.6 (2.88)	+	100.0 (0.00)	30.8 (6.76)	52.2 (7.30)	+	+	14.1 ! (4.95)	+
College.....	1,437 (71.9)	1,289 (67.4)	89.7 (1.96)	87.7 (2.12)	+	98.5 (0.84)	33.8 (6.91)	48.4 (7.86)	+	+	+	+
Family income												
Less than \$10,000.....	958 (85.2)	767 (84.7)	80.1 (3.18)	81.0 (3.93)	+	98.0 (1.28)	22.5 (6.64)	50.7 (7.10)	+	+	16.4 (4.92)	7.9 ! (3.58)
\$10,000 to \$19,999.....	1,151 (84.9)	906 (71.9)	78.7 (2.59)	84.9 (2.78)	+	99.9 (0.11)	24.6 (6.52)	53.6 (7.11)	+	+	8.3 ! (3.44)	9.6 ! (3.66)
\$20,000 to \$29,999.....	1,117 (88.8)	968 (78.1)	86.6 (2.37)	89.9 (1.99)	+	96.9 (1.91)	27.0 (7.44)	55.6 (8.30)	+	+	9.8 ! (4.57)	+
\$30,000 to \$39,999.....	1,088 (74.9)	916 (67.4)	84.2 (2.58)	89.1 (2.32)	+	98.8 (1.09)	38.9 (8.72)	32.2 (7.19)	+	+	11.2 ! (5.13)	11.5 ! (5.01)
\$40,000 to \$49,999.....	922 (69.9)	792 (68.7)	86.0 (2.69)	93.3 (1.81)	+	100.0 (0.00)	41.8 (9.60)	39.6 (9.84)	+	+	+	+
\$50,000 to \$74,999.....	2,349 (117.4)	2,090 (110.5)	89.0 (1.58)	94.2 (1.34)	+	99.3 (0.35)	26.7 ! (9.25)	32.5 (8.41)	11.3 ! (5.23)	+	12.5 ! (5.79)	+
\$75,000 to \$99,999.....	1,378 (86.3)	1,240 (82.4)	90.0 (2.06)	97.1 (1.12)	+	99.4 (0.46)	+	+	+	+	+	+
\$100,000 or more.....	2,822 (129.4)	2,551 (118.0)	90.4 (1.29)	98.4 (0.55)	+	99.7 (0.32)	+	+	+	+	+	+

¹Not applicable.

#Rounds to zero.

²Interpret data with caution. The coefficient of variation (CV) for this estimate is between 30 and 50 percent.³Reporting standards not met. Either there are too few cases for a reliable estimate or the coefficient of variation (CV) is 50 percent or greater.⁴Includes DSL, cable, modem, satellite, wireless, mobile phone or PDA, fiber optics or other broadband, and other.⁵Includes "Privacy or security concerns" and "Other reason."⁶Includes persons of all other races and Two or more races.⁷Includes only those 16- to 24-year-olds who are enrolled in school.

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), July 2013. (This table was prepared May 2015.)

