

CHAPTER 7

Libraries and Educational Technology

This chapter contains statistics on libraries and the use of information technologies. These data show the extent of America's public access to information technologies outside of formal classroom activities. The data also provide a capsule description of the magnitude and availability of library resources.

The first section of the chapter (tables 419 to 424) deals with public libraries, elementary and secondary school libraries, and college and university libraries. It contains data on collections, population served, staff, and expenditures. Table 423 provides institutional-level information for the 60 largest college libraries in the country.

The second part of the chapter (tables 425 to 430) provides information on the availability and use of technology at school, home, and work. For example, the percentage of children using computers at school is shown over time. Also included are data on the use of home computers and the Internet by adults and school children, with comparisons among various demographic groups.

Related data may be found in other chapters of the *Digest*. For example, statistics on the number of degrees conferred in computer and information sciences and library sciences are in chapter 3. Further information on survey methodologies is in Appendix A: Guide to Sources and in the publications cited in the table source notes.

Libraries

The average number of library staff per public school with a library was 1.7 in 2007–08, including 0.8 certified library/media specialists (table 419). On average, public school libraries had larger numbers of books on a per student basis in 2007–08 (2,015 per 100 students) than in 1999–2000 (1,803 per 100 students) and 2003–04 (1,891 per 100 students). In 2007–08, public elementary school libraries had larger holdings than public secondary school libraries on a per student basis (2,316 books per 100 students, compared to 1,432 books per 100 students).

From 1991–92 to 1999–2000, the increase in college library operating expenditures was greater than the increase in enrollment; after adjustment for inflation, library operating expenditures per full-time-equivalent (FTE) student rose 6 percent during this period (table 422). From 1999–2000 to 2005–06, library operating expenditures per FTE student dropped 12 percent. Overall, there was a net decrease of 7

percent in library operating expenditures per FTE student between 1991–92 and 2005–06. In 2005–06, the average library operating expenditure per FTE student was \$472.

In 2007, there were 9,214 public libraries in the United States with a total of 812 million books and serial volumes. The annual number of visits per capita was 4.9, and the annual reference transactions per capita were 1.0 (table 424).

Computers and Technology

In 2005, the average public school contained 154 instructional computers (table 425). One important technological advance that has come to classrooms following the introduction of computers has been connections to the Internet. The percentage of instructional rooms with internet access increased from 51 percent in 1998 to 94 percent in 2005 (figure 29). Nearly all schools had access to the Internet in 2005 (table 425).

The increasing number of computers in schools has coincided with rising percentages of students using computers (table 429). The percentage of elementary and secondary school students using computers at school rose from 70 percent in 1997 to 83 percent in 2003. In 2003, the use of computers at school by elementary and secondary school students varied by age and family income. Among students in elementary and secondary schools, a higher percentage of those age 10 or older than of those younger than 10 used computers at school. In general, a greater percentage of elementary and secondary school students from higher income families than of students from lower income families used computers at school. For example, in 2003, about 80 percent of students from families with incomes of \$20,000 to \$24,999 used computers at school, compared to 86 percent of students from families with incomes of \$75,000 or more.

A majority of students in 2003 used computers at home (table 429). In 2003, about 68 percent of elementary and secondary school students used computers at home, compared to 43 percent in 1997. From 1997 to 2003, the percentage of students using computers at home for school work rose from 25 to 47 percent. In 2003, a higher percentage of females than males used computers at home for school work (49 vs. 46 percent). About 54 percent of White elementary and secondary school students used computers at home for school work in 2003, compared to 35 percent of Black students and 34 percent of Hispanic students. A greater percentage of stu-

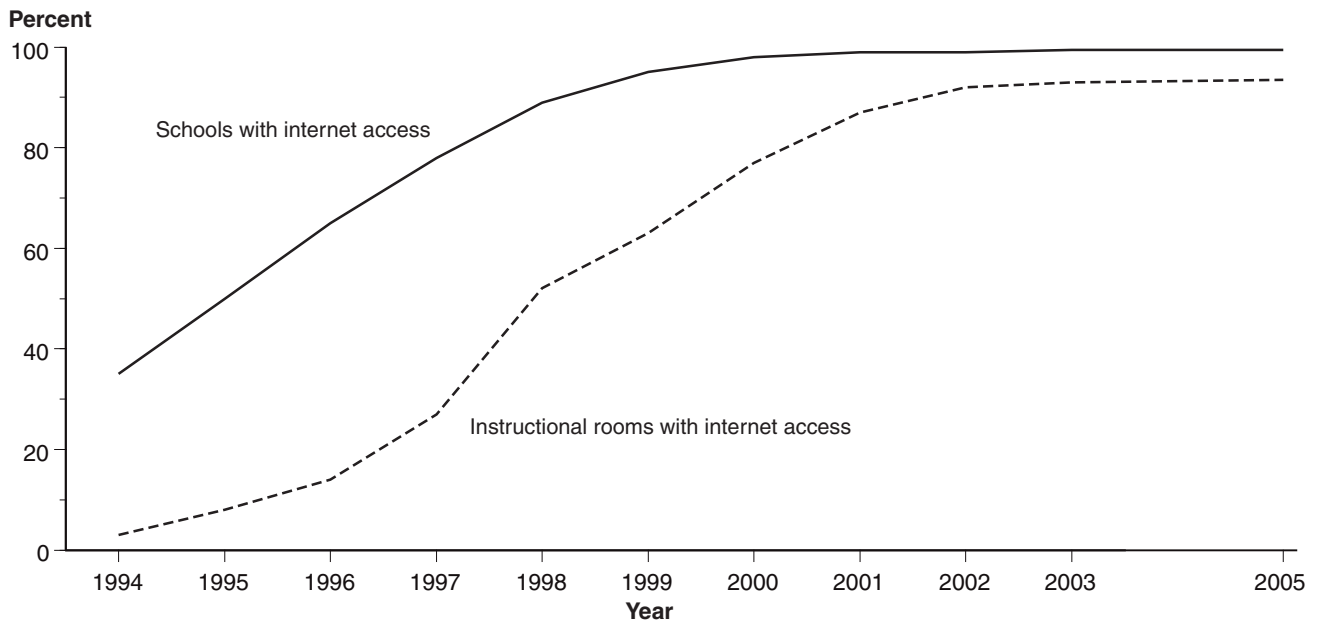
dents from higher income families than of students from lower income families reported using computers at home for school work. For instance, 63 percent of students from families with incomes of \$75,000 or more used a computer at home for school work, compared to 32 percent of students from families with incomes of \$20,000 to \$24,999.

The percentage of college students using computers at school rose from 63 percent in 1997 to 85 percent in 2003. About 76 percent used computers at home for school work in 2003 (table 429).

Computers are widely used in the workplace. In 2003, about 56 percent of all workers used computers at work

(table 430). More frequent use of computers at work was associated with higher levels of education and higher incomes. For example, 16 percent of high school dropouts and 40 percent of high school graduates used computers at work, compared to 82 to 87 percent of workers with bachelor's, master's, first-professional, or doctor's degrees. Among the common computer applications used by all employees using computers on the job were Internet/e-mail (75 percent), word processing/desktop publishing (68 percent), spreadsheets/databases (64 percent), and calendar/schedule (57 percent).

Figure 29. Percentage of all public schools and instructional rooms with internet access: Selected years, fall 1994 through fall 2005



SOURCE: U.S. Department of Education, National Center for Education Statistics, Fast Response Survey System (FRSS), *Internet Access in U.S. Public Schools and Classrooms: 1994–2005*.

Table 419. Selected statistics on public school libraries/media centers, by level of school: 1999–2000, 2003–04, and 2007–08

Selected statistic	1999–2000	2003–04				2007–08			
		Total	Elementary	Secondary	Combined elementary/secondary	Total	Elementary	Secondary	Combined elementary/secondary
1	2	3	4	5	6	7	8	9	10
Number of schools with libraries/media centers	77,300 (421)	78,300 (548)	57,400 (440)	16,300 (313)	4,600 (201)	81,900 (634)	59,700 (492)	17,800 (414)	4,400 (239)
Average number of staff per library/media center.....	1.89 (0.018)	1.76 (0.014)	1.66 (0.018)	2.09 (0.025)	1.74 (0.116)	1.72 (0.017)	1.65 (0.019)	2.04 (0.039)	1.42 (0.057)
Certified library/media specialists	0.81 (0.007)	0.79 (0.009)	0.73 (0.012)	1.03 (0.018)	0.73 (0.023)	0.78 (0.011)	0.73 (0.013)	0.98 (0.019)	0.66 (0.033)
Full-time	0.65 (0.007)	0.65 (0.009)	0.58 (0.010)	0.92 (0.018)	0.55 (0.027)	0.66 (0.010)	0.61 (0.012)	0.88 (0.018)	0.49 (0.032)
Part-time	0.16 (0.006)	0.14 (0.007)	0.15 (0.009)	0.11 (0.009)	0.18 (0.020)	0.13 (0.007)	0.13 (0.010)	0.10 (0.009)	0.18 (0.020)
Other professional staff	0.17 (0.007)	0.19 (0.008)	0.19 (0.011)	0.14 (0.010)	0.28 (0.036)	0.22 (0.010)	0.22 (0.013)	0.21 (0.021)	0.24 (0.027)
Full-time	0.12 (0.005)	0.13 (0.007)	0.14 (0.009)	0.11 (0.009)	0.16 (0.022)	0.13 (0.008)	0.13 (0.010)	0.14 (0.017)	0.15 (0.022)
Part-time	0.06 (0.004)	0.05 (0.005)	0.05 (0.006)	0.03 (0.004)	0.11 (0.031)	0.08 (0.007)	0.08 (0.009)	0.07 (0.013)	0.08 (0.017)
Other paid employees.....	0.91 (0.014)	0.78 (0.011)	0.75 (0.013)	0.93 (0.017)	0.73 (0.085)	0.72 (0.013)	0.70 (0.016)	0.86 (0.027)	0.51 (0.036)
Full-time	0.49 (0.008)	0.46 (0.009)	0.41 (0.011)	0.65 (0.017)	0.35 (0.028)	0.43 (0.013)	0.39 (0.016)	0.60 (0.022)	0.27 (0.028)
Part-time	0.41 (0.014)	0.33 (0.012)	0.34 (0.014)	0.28 (0.014)	0.38 (0.085)	0.29 (0.011)	0.31 (0.014)	0.26 (0.018)	0.24 (0.028)
Percent of libraries/media centers with certain media equipment									
Automated catalog.....	72.8 (0.69)	82.7 (0.66)	81.9 (0.89)	90.6 (0.76)	63.7 (2.59)	87.2 (0.71)	87.5 (0.94)	90.6 (1.08)	69.8 (2.88)
Automated circulation system.....	74.4 (0.65)	86.9 (0.61)	86.7 (0.82)	92.8 (0.80)	68.8 (2.45)	89.5 (0.68)	89.9 (0.87)	92.6 (0.98)	72.4 (3.15)
Media retrieval system ¹	— (†)	— (†)	— (†)	— (†)	— (†)	34.9 (1.05)	35.9 (1.33)	35.1 (1.66)	20.6 (2.32)
Connection to Internet.....	90.1 (0.57)	95.1 (0.35)	94.1 (0.48)	99.2 (0.22)	92.6 (1.40)	96.7 (0.40)	96.5 (0.51)	98.6 (0.51)	91.6 (1.90)
Digital video disc (DVD) player/video cassette recorder (VCR).....	— (†)	87.8 (0.60)	87.0 (0.70)	90.4 (1.19)	89.1 (1.53)	87.2 (0.77)	86.7 (1.02)	89.6 (1.00)	84.5 (2.20)
Disability assistance technologies, such as TDD.....	— (†)	11.9 (0.50)	10.2 (0.61)	18.0 (0.79)	11.7 (1.34)	23.9 (1.05)	23.0 (1.33)	26.4 (1.34)	25.9 (2.76)
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)
Staff permitted to check out laptops.....	— (†)	— (†)	— (†)	— (†)	— (†)	45.9 (1.07)	45.2 (1.35)	50.1 (1.50)	38.5 (2.85)
Number of library computer workstations per 100 students.....	— (†)	2.3 (0.04)	2.2 (0.05)	2.5 (0.05)	2.7 (0.17)	2.6 (0.05)	2.5 (0.07)	2.9 (0.06)	3.0 (0.17)
Average holdings per 100 students at the end of the school year ²									
Books (number of volumes).....	1,803 (19.7)	1,891 (45.1)	2,127 (70.2)	1,376 (20.0)	2,407 (117.7)	2,015 (30.5)	2,316 (40.2)	1,432 (36.6)	2,439 (132.3)
Audio and video materials.....	59 (0.9)	80 (3.7)	86 (5.7)	65 (2.2)	97 (13.6)	90 (3.8)	93 (5.6)	81 (5.2)	107 (13.3)
Average additions per 100 students during the school year ²									
Books (number of volumes).....	— (†)	99.3 (2.08)	118.4 (3.13)	61.2 (1.75)	109.2 (8.40)	95.3 (2.21)	113.3 (3.26)	62.1 (2.67)	103.4 (7.41)
Audio and video materials.....	— (†)	5.1 (0.19)	5.3 (0.28)	4.4 (0.20)	6.9 (0.83)	5.4 (0.49)	5.9 (0.77)	4.5 (0.41)	5.7 (0.84)
Total expenditures for library/media materials per pupil ^{2,3}	\$23.37 (0.438)	\$16.24 (0.322)	\$16.00 (0.469)	\$16.11 (0.320)	\$21.24 (2.498)	\$16.11 (0.461)	\$16.18 (0.591)	\$15.90 (0.647)	\$17.00 (1.216)
Books.....	9.97 (0.153)	10.99 (0.299)	11.72 (0.452)	9.68 (0.275)	10.19 (0.631)	11.40 (0.291)	11.99 (0.389)	10.26 (0.504)	12.10 (1.094)
Audio and video materials.....	1.66 (0.032)	1.14 (0.045)	1.11 (0.053)	1.11 (0.062)	1.96 (0.619)	1.08 (0.055)	1.06 (0.088)	1.11 (0.054)	1.16 (0.152)
Current serial subscriptions.....	1.26 (0.016)	1.38 (0.025)	1.06 (0.031)	1.87 (0.049)	2.50 (0.148)	— (†)	— (†)	— (†)	— (†)
Electronic subscriptions.....	0.81 (0.018)	0.88 (0.033)	0.39 (0.042)	1.79 (0.061)	1.25 (0.249)	— (†)	— (†)	— (†)	— (†)

—Not available.

†Not applicable.

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

²Average holdings, acquisitions, and expenditures are from the prior school year, while enrollment counts are from the current school year.

³Includes other expenditures not separately shown.

NOTE: Detail may not sum to totals because of rounding. Standard errors appear in parentheses.

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, and 2007–08; and "Charter School Questionnaire," 1999–2000. (This table was prepared November 2009.)

Table 420. Selected statistics on public school libraries/media centers, by level and enrollment size of school: 2007–08

Selected statistic	All public school libraries/media centers	Elementary school libraries/media centers					Secondary school libraries/media centers				
		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	81,900 (634)	59,700 (492)	3,300 (399)	31,100 (1054)	16,400 (812)	8,900 (534)	17,800 (414)	6,300 (353)	3,000 (246)	5,100 (273)	3,300 (198)
Average number of staff per library/media center	1.72 (0.017)	1.65 (0.019)	1.28 (0.099)	1.58 (0.027)	1.73 (0.045)	1.89 (0.053)	2.04 (0.039)	1.59 (0.071)	1.78 (0.068)	2.18 (0.054)	2.94 (0.081)
Certified library/media specialists	0.78 (0.011)	0.73 (0.013)	0.60 (0.069)	0.70 (0.019)	0.76 (0.024)	0.86 (0.030)	0.98 (0.019)	0.73 (0.035)	0.87 (0.035)	1.09 (0.026)	1.38 (0.046)
Full-time	0.66 (0.010)	0.61 (0.012)	0.25 (0.072)	0.53 (0.018)	0.71 (0.022)	0.81 (0.029)	0.88 (0.018)	0.57 (0.033)	0.80 (0.040)	1.02 (0.029)	1.31 (0.049)
Part-time	0.13 (0.007)	0.13 (0.010)	0.36 (0.070)	0.17 (0.014)	0.06 (0.016)	0.05 (0.013)	0.10 (0.009)	0.16 (0.019)	0.07 (0.020)	0.07 (0.017)	0.07 (0.022)
Other professional staff	0.22 (0.010)	0.22 (0.013)	0.20 (0.059)	0.23 (0.016)	0.20 (0.028)	0.21 (0.030)	0.21 (0.021)	0.27 (0.044)	0.20 (0.051)	0.16 (0.026)	0.15 (0.033)
Full-time	0.13 (0.008)	0.13 (0.010)	0.10 (0.051)	0.13 (0.014)	0.14 (0.021)	0.13 (0.021)	0.14 (0.017)	0.17 (0.039)	0.11 (0.027)	0.13 (0.023)	0.12 (0.025)
Part-time	0.08 (0.007)	0.08 (0.009)	0.10 (0.034)	0.09 (0.012)	0.06 (0.016)	0.09 (0.023)	0.07 (0.013)	0.10 (0.027)	0.09 (0.043)	0.04 (0.013)	0.03 (0.015)
Other paid employees	0.72 (0.013)	0.70 (0.016)	0.48 (0.068)	0.65 (0.023)	0.78 (0.039)	0.82 (0.044)	0.86 (0.027)	0.59 (0.041)	0.71 (0.050)	0.93 (0.045)	1.40 (0.068)
Full-time	0.43 (0.013)	0.39 (0.016)	0.13 (0.046)	0.33 (0.019)	0.46 (0.035)	0.59 (0.044)	0.60 (0.022)	0.34 (0.031)	0.51 (0.049)	0.66 (0.039)	1.07 (0.067)
Part-time	0.29 (0.011)	0.31 (0.014)	0.34 (0.064)	0.32 (0.023)	0.31 (0.032)	0.23 (0.036)	0.26 (0.018)	0.25 (0.032)	0.20 (0.029)	0.28 (0.035)	0.34 (0.053)
Percent of libraries/media centers with certain media equipment											
Automated catalog	87.2 (0.71)	87.5 (0.94)	57.1 (6.87)	86.6 (1.56)	91.6 (1.55)	94.4 (1.62)	90.6 (1.08)	79.6 (2.59)	94.0 (2.14)	97.2 (0.86)	98.4 (1.05)
Automated circulation system	89.5 (0.68)	89.9 (0.87)	57.1 (6.78)	89.4 (1.35)	94.8 (1.19)	95.0 (1.84)	92.6 (0.98)	83.0 (2.49)	96.0 (1.72)	98.4 (0.44)	98.7 (0.81)
Media retrieval system ¹	34.9 (1.05)	35.9 (1.33)	10.6 (4.72)	29.3 (1.62)	43.9 (2.68)	53.7 (3.51)	35.1 (1.66)	32.8 (3.39)	34.1 (3.00)	37.9 (2.85)	36.4 (3.28)
Connection to Internet	96.7 (0.40)	96.5 (0.51)	81.0 (5.95)	96.9 (0.55)	98.0 (0.53)	98.5 (0.70)	98.6 (0.51)	96.0 (1.42)	99.9 (0.05)	100.0 (†)	100.0 (†)
Digital video disc (DVD) player/video cassette recorder(VCR)	87.2 (0.77)	86.7 (1.02)	80.0 (5.53)	86.3 (1.27)	87.4 (1.71)	89.1 (2.21)	89.6 (1.00)	87.3 (2.11)	89.9 (2.67)	92.3 (1.80)	89.3 (2.80)
Disability assistance technologies, such as TDD	23.9 (1.05)	23.0 (1.33)	14.7 (3.85)	20.2 (1.68)	24.6 (2.08)	33.1 (3.20)	26.4 (1.34)	18.4 (1.91)	26.7 (3.14)	28.4 (2.06)	38.0 (3.38)
Percent of libraries/media centers with certain services											
Students permitted to check out laptops	27.5 (1.02)	26.9 (1.27)	22.5 (6.15)	25.7 (1.72)	27.0 (2.23)	32.4 (3.13)	29.8 (1.34)	29.2 (2.84)	29.9 (3.18)	31.0 (2.40)	29.0 (2.76)
Staff permitted to check out laptops	45.9 (1.07)	45.2 (1.35)	30.7 (6.44)	42.4 (1.97)	48.4 (2.83)	54.6 (4.01)	50.1 (1.50)	46.3 (3.06)	49.7 (3.38)	54.5 (2.50)	51.1 (3.39)
Number of library computer workstations per 100 students	2.6 (0.05)	2.5 (0.07)	8.8 (1.24)	3.2 (0.13)	2.1 (0.10)	1.7 (0.11)	2.9 (0.06)	5.9 (0.28)	3.8 (0.22)	2.9 (0.10)	1.9 (0.08)
Average holdings per 100 students at the end of the school year ²											
Books (number of volumes)	2,015 (30.5)	2,316 (40.2)	6,384 (531.1)	2,993 (67.3)	2,117 (45.7)	1,559 (85.2)	1,432 (36.6)	3,203 (162.4)	1,854 (101.1)	1,332 (34.1)	975 (40.6)
Audio and video materials	90 (3.8)	93 (5.6)	157 (36.7)	105 (5.9)	89 (6.2)	82 (16.1)	81 (5.2)	132 (14.4)	138 (30.0)	83 (8.5)	52 (4.1)
Average additions per 100 students during the school year ²											
Books (number of volumes)	95.3 (2.21)	113.3 (3.26)	247.0 (38.53)	134.9 (5.28)	106.4 (5.76)	89.6 (6.32)	62.1 (2.67)	124.8 (11.48)	81.1 (8.27)	61.3 (4.78)	42.7 (2.66)
Audio and video materials	5.4 (0.49)	5.9 (0.77)	7.6 (2.14)	5.7 (0.44)	4.9 (0.55)	7.1 (2.47)	4.5 (0.41)	6.4 (0.59)	6.1 (1.44)	4.8 (0.65)	3.4 (0.60)
Total expenditures for library/media materials per pupil ³	\$16.11 (0.461)	\$16.18 (0.591)	\$43.28 (11.551)	\$18.49 (0.700)	\$14.63 (0.799)	\$14.11 (1.496)	\$15.90 (0.647)	\$27.86 (3.234)	\$18.51 (1.931)	\$16.68 (1.171)	\$11.75 (0.773)
Books	11.40 (0.291)	11.99 (0.389)	21.99 (4.023)	13.80 (0.539)	11.25 (0.679)	10.23 (0.836)	10.26 (0.504)	17.30 (1.454)	13.47 (1.905)	10.87 (1.103)	7.26 (0.386)
Audio and video materials	1.08 (0.055)	1.06 (0.088)	1.90 (0.967)	1.24 (0.154)	0.88 (0.082)	1.01 (0.180)	1.11 (0.054)	1.57 (0.157)	1.20 (0.151)	1.19 (0.102)	0.91 (0.085)

†Not applicable.

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

²Average holdings, acquisitions, 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. Standard errors appear in parentheses.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey (SASS), "Public School Library Media Center Questionnaire," 2007–08. (This table was prepared November 2009.)

Table 421. Selected statistics on public school libraries/media centers, by state: 2007–08

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 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	87.2	(0.71)	89.5	(0.68)	27.5	(1.02)	45.9	(1.07)	34.9	(1.05)	96.7	(0.40)	87.2	(0.77)	1.7	(0.02)	2,015	(30.5)	95	(2.2)	\$16.1	(0.46)	2.6	(0.05)
Alabama	91.5	(3.03)	95.0	(2.23)	30.2	(5.01)	55.3	(5.27)	29.4	(4.74)	99.3	(0.86)	96.4	(2.30)	1.8	(0.07)	1,888	(93.3)	105	(7.0)	19.3	(2.10)	2.4	(0.20)
Alaska	72.4	(5.91)	67.8	(6.19)	32.0	(5.22)	37.8	(5.18)	18.9	(4.88)	83.9	(0.87)	68.7	(6.94)	1.1	(0.08)	3,427	(316.7)	114	(14.0)	12.8	(1.09)	3.0	(0.36)
Arizona	79.6	(4.05)	82.6	(3.83)	25.9	(6.26)	36.5	(7.11)	46.4	(4.46)	96.8	(2.72)	87.4	(4.50)	1.8	(0.15)	2,083	(162.3)	101	(11.7)	12.7	(1.07)	2.5	(0.29)
Arkansas	89.0	(3.88)	94.9	(2.67)	18.2	(4.04)	40.8	(4.96)	36.8	(3.99)	98.6	(1.54)	90.2	(2.96)	1.6	(0.06)	2,353	(449.9)	106	(11.5)	17.0	(1.12)	2.5	(0.21)
California	85.2	(2.97)	92.2	(2.09)	11.1	(2.28)	29.5	(3.74)	17.9	(3.32)	95.6	(1.76)	65.1	(4.29)	1.4	(0.06)	1,740	(144.3)	79	(11.1)	13.0	(1.92)	1.6	(0.14)
Colorado	95.6	(3.03)	90.4	(3.64)	29.2	(5.71)	49.3	(6.34)	27.7	(5.15)	98.2	(2.35)	88.6	(4.65)	1.9	(0.19)	2,102	(107.1)	96	(8.1)	15.4	(1.17)	4.0	(0.42)
Connecticut	83.8	(4.46)	83.9	(4.60)	21.4	(4.02)	33.7	(5.29)	27.9	(4.71)	97.4	(1.88)	89.0	(3.79)	1.9	(0.09)	2,252	(111.6)	100	(6.9)	18.9	(1.16)	3.5	(0.22)
Delaware	93.8	(2.10)	95.0	(1.61)	26.1	(5.10)	44.8	(6.25)	20.5	(4.63)	97.2	(1.04)	87.3	(3.38)	1.4	(0.06)	1,849	(70.8)	74	(7.1)	10.7	(0.93)	2.8	(0.29)
District of Columbia	57.4	(6.15)	68.8	(5.03)	13.5	(3.54)	26.6	(5.16)	21.2	(3.69)	89.2	(2.81)	73.2	(4.87)	1.0	(0.07)	2,048	(245.8)	228	(36.3)	23.2	(4.09)	2.7	(0.27)
Florida	94.5	(2.07)	94.3	(2.18)	19.2	(3.20)	64.1	(4.58)	67.5	(3.78)	99.4	(0.63)	90.7	(2.75)	1.9	(0.06)	1,576	(73.4)	77	(7.5)	13.3	(1.01)	2.5	(0.21)
Georgia	98.5	(1.08)	98.5	(1.08)	36.6	(5.48)	66.1	(5.26)	81.4	(4.65)	99.6	(0.37)	97.8	(1.59)	2.1	(0.06)	1,745	(91.0)	90	(12.6)	15.4	(1.75)	2.0	(0.14)
Hawaii	96.5	(1.70)	97.5	(1.83)	17.9	(4.91)	39.5	(6.01)	44.4	(7.30)	97.8	(1.51)	84.1	(3.63)	1.6	(0.09)	2,296	(116.8)	91	(8.5)	11.6	(0.81)	2.4	(0.20)
Idaho	82.7	(6.15)	87.6	(6.00)	20.0	(5.61)	26.8	(5.52)	28.4	(4.88)	91.8	(5.12)	83.0	(5.98)	1.6	(0.10)	2,141	(117.8)	79	(21.0)	11.0	(0.99)	2.9	(0.25)
Illinois	77.1	(4.90)	81.9	(4.94)	32.6	(4.77)	51.0	(5.18)	21.4	(4.58)	92.2	(3.87)	87.8	(3.35)	1.9	(0.11)	2,039	(109.1)	95	(10.1)	14.1	(1.05)	2.9	(0.27)
Indiana	89.0	(5.40)	89.0	(4.77)	34.3	(5.42)	51.1	(5.48)	35.6	(6.33)	95.4	(3.32)	94.4	(3.78)	1.9	(0.20)	2,172	(116.8)	96	(12.9)	16.2	(1.36)	2.6	(0.32)
Iowa	83.2	(4.98)	90.5	(4.28)	39.7	(5.70)	45.5	(6.80)	18.3	(4.87)	98.2	(1.96)	92.6	(5.05)	1.9	(0.09)	2,524	(145.2)	104	(8.9)	15.2	(1.60)	5.0	(0.59)
Kansas	91.7	(4.37)	91.1	(3.91)	54.4	(7.94)	58.9	(8.22)	23.4	(7.24)	94.6	(3.52)	94.0	(3.52)	1.9	(0.08)	3,224	(341.8)	124	(15.0)	22.5	(5.96)	3.4	(0.75)
Kentucky	90.9	(4.25)	92.4	(4.35)	27.1	(6.60)	49.8	(7.47)	71.1	(7.52)	95.6	(2.87)	94.0	(2.67)	1.7	(0.13)	2,000	(118.4)	114	(21.9)	17.5	(3.45)	2.6	(0.28)
Louisiana	84.5	(6.24)	87.2	(5.66)	21.6	(5.22)	42.9	(5.93)	26.0	(4.74)	97.0	(2.56)	89.4	(4.92)	1.2	(0.09)	2,010	(147.8)	101	(17.9)	17.3	(3.18)	2.6	(0.25)
Maine	73.8	(7.69)	71.5	(7.04)	43.2	(6.23)	45.5	(7.18)	9.5	(4.33)	88.4	(5.64)	73.4	(7.00)	1.7	(0.13)	3,650	(343.9)	168	(24.8)	27.9	(1.74)	2.8	(0.36)
Maryland	91.4	(4.01)	99.5	(0.42)	32.2	(8.51)	53.6	(8.02)	54.0	(5.29)	97.4	(2.40)	90.6	(4.39)	1.5	(0.19)	1,635	(84.4)	88	(9.9)	19.6	(3.04)	2.9	(0.39)
Massachusetts	75.0	(5.55)	74.7	(5.54)	32.6	(5.04)	33.7	(4.82)	18.2	(4.01)	98.2	(1.18)	80.3	(4.67)	1.3	(0.08)	1,868	(123.1)	75	(6.8)	12.1	(1.11)	2.8	(0.24)
Michigan	83.4	(4.39)	90.6	(3.91)	33.6	(6.07)	49.3	(6.01)	48.8	(5.94)	99.8	(0.22)	92.8	(2.70)	1.5	(0.09)	2,136	(135.7)	62	(6.2)	9.0	(0.74)	4.7	(0.40)
Minnesota	92.2	(2.68)	93.6	(2.39)	32.7	(4.35)	60.1	(4.46)	39.3	(3.88)	96.4	(1.90)	97.5	(0.89)	2.0	(0.08)	2,475	(136.2)	108	(9.8)	16.2	(1.46)	4.7	(0.40)
Mississippi	75.8	(4.10)	85.6	(3.44)	20.0	(3.76)	45.6	(4.79)	31.6	(5.01)	95.5	(2.25)	88.6	(3.39)	1.5	(0.08)	1,778	(158.4)	143	(36.7)	18.5	(5.42)	2.2	(0.17)
Missouri	93.9	(2.84)	92.8	(2.99)	18.3	(5.71)	35.6	(6.32)	20.6	(4.04)	98.4	(1.09)	96.0	(2.61)	1.7	(0.10)	2,439	(89.7)	141	(12.4)	25.5	(2.16)	2.9	(0.25)
Montana	71.0	(3.93)	74.3	(3.31)	27.4	(3.76)	43.5	(4.84)	12.5	(3.15)	87.5	(3.51)	85.4	(2.88)	1.6	(0.07)	3,282	(154.3)	153	(11.4)	24.7	(3.25)	4.1	(0.25)
Nebraska	83.1	(5.27)	82.0	(6.04)	42.7	(5.60)	50.9	(5.57)	29.8	(5.94)	93.2	(3.63)	96.8	(2.50)	1.9	(0.10)	3,063	(208.8)	103	(8.2)	20.0	(1.52)	5.5	(0.75)
Nevada	84.8	(5.44)	93.1	(3.81)	21.1	(4.59)	32.8	(4.81)	60.5	(5.58)	97.9	(2.90)	83.5	(4.20)	1.6	(0.07)	1,695	(70.4)	107	(13.8)	14.0	(1.81)	1.5	(0.10)
New Hampshire	84.6	(3.76)	83.7	(3.86)	45.5	(4.96)	44.9	(4.72)	8.0	(2.06)	97.4	(2.07)	91.8	(3.30)	1.8	(0.07)	2,314	(101.1)	111	(7.1)	26.0	(2.17)	2.6	(0.17)
New Jersey	78.2	(7.17)	84.2	(5.37)	29.2	(9.32)	42.2	(11.24)	26.8	(6.91)	93.9	(4.35)	82.7	(6.87)	1.6	(0.11)	2,002	(129.6)	70	(11.7)	14.3	(1.33)	2.6	(0.31)
New Mexico	77.8	(8.20)	83.2	(8.38)	18.6	(7.36)	38.8	(9.01)	18.1	(4.91)	93.1	(7.64)	90.7	(7.64)	1.4	(0.14)	2,238	(117.6)	173	(32.3)	25.6	(7.14)	2.4	(0.23)
New York	79.9	(6.10)	77.5	(6.36)	27.3	(7.74)	41.1	(7.07)	17.4	(5.51)	96.9	(4.34)	82.6	(5.87)	1.9	(0.09)	1,912	(171.0)	97	(10.4)	16.8	(1.94)	2.6	(0.54)
North Carolina	97.4	(1.59)	97.5	(1.65)	25.8	(6.12)	71.9	(6.73)	60.8	(5.62)	97.4	(1.63)	99.1	(0.56)	1.9	(0.08)	1,874	(104.2)	98	(7.4)	16.4	(1.29)	2.6	(0.23)
North Dakota	72.3	(4.82)	66.6	(5.05)	40.5	(4.54)	47.7	(4.79)	13.0	(2.48)	97.9	(1.25)	77.6	(4.19)	1.6	(0.10)	3,876	(397.6)	166	(24.0)	22.2	(1.86)	3.2	(0.37)
Ohio	90.0	(3.87)	91.1	(3.98)	22.9	(5.27)	37.1	(6.20)	36.4	(6.17)	98.1	(1.89)	83.4	(5.00)	1.5	(0.11)	1,864	(165.7)	76	(14.5)	13.5	(3.02)	2.7	(0.29)
Oklahoma	80.7	(3.68)	86.3	(2.52)	25.7	(3.19)	42.8	(4.07)	19.0	(3.02)	96.2	(2.88)	95.1	(1.73)	1.9	(0.06)	2,152	(98.0)	105	(11.5)	17.8	(1.33)	2.9	(0.22)
Oregon	77.8	(6.25)	82.2	(6.12)	35.2	(5.53)	47.0	(6.38)	27.3	(5.19)	98.5	(1.47)	89.7	(5.89)	1.8	(0.18)	3,041	(340.0)	103	(9.1)	11.9	(1.33)	3.8	(0.37)
Pennsylvania	91.4	(4.74)	91.4	(4.74)	28.8	(5.44)	37.3	(6.87)	30.1	(6.19)	98.6	(1.37)	77.2	(4.60)	1.8	(0.11)	2,054	(132.0)	90	(9.1)	17.4	(2.10)	2.5	(0.21)
Rhode Island	86.4	(5.24)	90.0	(4.37)	17.4	(5.86)	31.3	(6.21)	12.6	(4.16)	96.2	(2.74)	85.8	(5.21)	1.7	(0.08)	1,705	(85.1)	80	(8.7)	13.6	(1.14)	2.7	(0.27)
South Carolina	97.6	(1.16)	98.3	(1.17)	37.1	(3.96)	72.9	(3.44)	81.1	(2.96)	99.2	(0.80)	92.7	(2.20)	2.0	(0.03)	1,859	(70.4)	99	(8.3)	17.9	(1.33)	2.3	(0.11)
South Dakota	68.9	(5.38)	72.1	(5.31)	31.6	(4.34)	34.4	(4.40)	13.6	(2.86)	88.7	(3.26)	86.5	(3.67)	1.6	(0.10)	3,321	(221.1)	155	(17.8)	28.1	(3.71)	3.1	(0.22)
Tennessee	90.3	(3.58)	94.3	(3.10)	24.6	(5.69)	41.1	(6.47)	32.5	(5.37)	98.0	(2.35)	88.2	(4.84)	1.6	(0.08)	1,788	(146.7)	75	(8.2)	12.1	(0.97)	2.2	(0.23)
Texas	95.9	(1.55)	96.1	(1.58)	30.6	(6.46)	48.8	(6.29)	43.4	(7.18)	98.8	(0.78)	91.5	(3.46)	1.8	(0.07)	1,910	(107.2)	99	(11.5)	18.7	(2.69)	2.0	(0.15)
Utah	92.6	(5.21)	92.3	(5.98)	10.6	(2.95)	31.6	(5.61)	41.7	(5.16)	93.5	(2.27)	93.2	(4.32)	1.6	(0.12)	1,554	(137.5)	93	(11.3)	14.7	(1.79)	2.0	(0.20)
Vermont	80.0	(8.05)	77.2	(7.68)	46.6	(9.17)	52.0	(10.37)	10.5	(5.88)	97.9	(3.26)	92.1	(4.91)	1.7									

Table 422. Collections, staff, and operating expenditures of degree-granting institution libraries: Selected years, 1976–77 through 2005–06

Collections, staff, and operating expenditures	1976–77 ¹	1981–82	1984–85	1987–88	1991–92	1994–95	1996–97	1997–98	1999–2000	2001–02	2003–04	2005–06
1	2	3	4	5	6	7	8	9	10	11	12	13
Number of libraries	3,058	3,104	3,322	3,438	3,274	3,303	3,408	3,658	3,527	3,568	3,653	3,617
Number of circulation transactions (in thousands)	—	—	—	—	—	231,503	230,733	216,067	193,948	189,248	200,204	187,236
Enrollment (in thousands)	—	—	—	—	—	—	—	—	—	—	—	—
Total enrollment ²	11,121	12,372	12,242	12,767	14,359	14,279	14,300	14,502	14,791	15,928	16,911	17,487
Full-time-equivalent enrollment ²	8,313	9,015	8,952	9,230	10,361	10,348	10,402	10,615	10,944	11,766	12,688	13,201
Collections (in thousands)												
Number of volumes at end of year	481,442	567,826	631,727	718,504	749,429	776,447	806,717	878,906 ³	913,547	954,030	982,590	1,015,658
Number of volumes added during year	22,367	19,507	20,658	21,907	20,982	21,544	21,346	24,551	24,436	24,574	24,615	22,241
Number of serial subscriptions at end of year	4,670	4,890	6,317	6,416	6,966	6,212	5,709	10,908 ⁴	7,499	9,855	12,764	16,361
Microform units at end of year	—	—	—	—	—	—	—	1,062,082	1,111,389	1,143,678	1,173,287	1,166,295
Electronic units at end of year ⁵	—	—	—	—	—	465	983	3,473	—	—	—	—
Full-time-equivalent (FTE) library staff												
Total staff in regular positions ⁶	57,087	58,476	58,476	67,251	67,166	67,433	67,581	68,337	69,123	69,526	69,047	93,590
Librarians and professional staff	23,308	23,816	21,822	25,115	26,341	26,726	27,268	30,041	31,001	32,053	32,280	33,265
Other paid staff	33,779	34,660	38,026	40,733	40,421	40,381	40,022	38,026	37,893	37,473	36,767	36,350
Contributed services	—	—	—	1,403	404	326	291	270	229	—	—	—
Student assistants	—	—	—	33,821	29,075	28,411	27,998	28,373	26,518	25,305	25,038	23,976
FTE student enrollment per FTE staff member	146	154	153	137	154	153	154	155	158	169	184	141
Hours of student and other assistance (in thousands)	39,950	40,068	28,360	—	—	—	—	—	—	—	—	—
Library operating expenditures⁷												
Total operating expenditures (in thousands)	\$1,259,637	\$1,943,769	\$2,404,524	\$2,770,075	\$3,648,654	\$4,013,333	\$4,301,815	\$4,592,657	\$5,023,198	\$5,416,716	\$5,751,247	\$6,234,192
Salaries ^{8,9,10}	698,090	1,081,894	1,156,138	1,451,551	1,889,368	2,021,233	2,147,842	2,314,380	2,430,541	2,753,404	2,913,221	3,102,561
Hourly wages	68,683	100,847	—	(¹⁰)	(¹⁰)	(¹⁰)	(¹⁰)	(¹⁰)	(¹⁰)	(¹⁰)	(¹⁰)	(¹⁰)
Fringe benefits	(⁹)	(⁹)	231,209	—	(⁹)	(⁹)	(⁹)	(⁹)	271,954	(⁹)	(⁹)	(⁹)
Preservation	22,521	30,351	32,939	34,144	43,126	46,554	45,610	42,919	43,832	46,499	42,976	41,102
Furniture/equipment	—	—	—	—	—	55,915	56,128	57,013	63,459	—	—	—
Computer hardware/software	—	—	—	—	—	128,128	157,949	164,379	160,294	155,791	143,042	153,002
Bibliographic utilities/networks/consortia	—	—	—	—	—	81,106	85,113	89,618	90,264	92,242	101,293	106,268
Information resources	373,699	561,199	750,282	891,281	1,197,293	1,348,933	1,499,249	1,600,995	1,822,277	1,944,490	2,114,555	2,375,485
Books and serial backfiles—paper	—	—	—	—	—	—	—	514,048	552,100	563,007	550,599	572,228
Books and serial backfiles—electronic	—	—	—	—	—	—	—	28,061	33,888	44,792	65,597	93,778
Current serials—paper	—	—	—	—	—	—	—	849,399	945,958	926,105	883,534	830,137
Current serials—electronic	—	—	—	—	—	—	—	125,470	203,371	297,657	480,138	691,585
Audiovisual materials	—	—	—	—	23,879	28,753	28,879	30,623	32,039	37,041	35,216	39,029
Document delivery/interlibrary loan	—	—	—	—	—	12,238	17,645	19,309	20,540	22,913	24,823	26,513
Other collection expenditures	373,699	561,199	750,282	891,281	1,173,414	1,307,942	1,452,725	34,086	34,381	52,976	74,648	81,113
Other library operating expenditures	96,643	169,478	233,957	393,099	518,867	331,463	309,925	323,354	140,579	424,290	436,160	496,877
Operating expenditures per FTE student	152	216	269	300	352	388	414	433	459	460	453	472
Operating expenditures per FTE student in constant 2007–08 dollars ¹¹	559	496	550	561	552	559	564	580	587	560	528	514
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 ^{8,9,10}	55.4	55.7	48.1	52.4	51.8	50.4	49.9	50.4	48.4	50.8	50.7	49.8
Hourly wages	5.5	5.2	(¹⁰)	(¹⁰)	(¹⁰)	(¹⁰)	(¹⁰)	(¹⁰)	(¹⁰)	(¹⁰)	(¹⁰)	(¹⁰)
Fringe benefits	(⁹)	(⁹)	9.6	—	(⁹)	(⁹)	(⁹)	(⁹)	5.4	(⁹)	(⁹)	(⁹)
Preservation	1.8	1.6	1.4	1.2	1.2	1.2	1.1	0.9	0.9	0.9	0.7	0.7
Information resources	29.7	28.9	31.2	32.2	32.8	33.6	34.9	34.9	36.3	35.9	36.8	38.1
Other ¹²	7.7	8.7	9.7	14.2	14.2	14.9	14.2	13.8	9.0	12.4	11.8	12.1
Library operating expenditures as percent of total institutional expenditures for educational and general purposes	3.8	3.5	3.4	3.2	3.0	2.8	—	—	—	—	—	—

—Not available.
¹Includes data for U.S. territories.
²Fall enrollment for the academic year specified.
³Includes data for schools newly added to the survey system, so end of year figure for 1997–98 exceeds total of volumes added during the year plus end of year value from 1996–97.
⁴Includes microform and electronic serials.
⁵Electronic files, formerly labeled “Computer files.”
⁶Excludes student assistants.
⁷Excludes capital outlay.
⁸Includes salary equivalents of contributed services staff.
⁹Expenditures for fringe benefits included under salaries (except for 1984–85, 1987–88, and 1999–2000).
¹⁰Hourly wages included under salaries (except for 1976–77 and 1981–82).
¹¹Constant 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.

¹²Includes furniture/equipment, computer hardware/software, and 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. (See Appendix A: Guide to Sources for details.) 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*, selected years, 1976–77 through 1984–85; 1987–88 through 2005–06 Integrated Postsecondary Education Data System, “Academic Libraries Survey” (IPEDS-L:88–98), “Fall Enrollment Survey” (IPEDS-EF:87–99), and Spring 2002 through Spring 2006; Academic Libraries Survey (ALS), 2000 through 2006; and *Academic Libraries: 2006* (NCES 2008-337). (This table was prepared July 2008.)

Table 423. Collections, staff, and operating expenditures of the 60 largest college and university libraries: 2005–06

Institution	Rank order, by number of volumes	Number of volumes at end of year (in thousands)	Number of e-books at end of year	Number of serials at end of year	Full-time-equivalent staff		Operating expenditures (in thousands)		Public service hours per week	Gate count per week	Reference transactions per week
					Total	Librarians	Total	Salaries and wages			
1	2	3	4	5	6	7	8	9	10	11	12
Harvard University (MA).....	1	15,827	867	98,988	1,265	420	\$105,809	\$58,047	168	38,945	5,554
Yale University (CT).....	2	12,369	167,205	73,953	706	170	74,938	31,304	111	14,599	1,958
University of Illinois at Urbana-Champaign.....	3	10,371	247,242	63,413	503	99	35,602	19,151	119	84,639	5,264
University of California, Berkeley.....	4	10,094	—	114,860	531	96	50,253	26,035	98	27,000	3,300
University of Texas at Austin.....	5	9,022	—	53,125	536	100	41,586	19,810	107	71,992	6,149
Columbia University in the City of NY.....	6	8,832	342,573	102,901	618	139	51,901	26,064	107	72,484	3,579
Stanford University (CA).....	7	8,402	365,000	30,850	697	149	74,233	40,958	105	19,500	2,203
University of Michigan, Ann Arbor.....	8	8,273	1,028,674	118,654	574	158	49,053	23,204	168	72,696	2,711
University of California, Los Angeles.....	9	8,157	24,299	77,509	622	125	50,894	26,271	97	69,736	1,975
University of Wisconsin, Madison.....	10	8,015	502,514	68,560	577	233	40,962	22,381	148	108,354	—
Cornell University (NY).....	11	7,521	298,767	77,392	552	116	42,156	21,197	144	101,159	2,047
University of Chicago (IL).....	12	7,462	304,016	86,239	318	66	32,301	11,635	144	25,062	802
Indiana University, Bloomington.....	13	7,242	237,835	71,330	486	97	32,453	14,313	168	87,561	2,346
University of Washington, Seattle Campus.....	14	6,677	280,140	60,629	463	135	35,218	18,234	142	136,000	2,056
Princeton University (NJ).....	15	6,618	222,911	41,775	397	97	41,714	17,639	115	11,777	910
University of Minnesota, Twin Cities.....	16	6,587	126,892	88,309	408	93	38,322	17,470	100	41,521	3,024
University of North Carolina at Chapel Hill.....	17	5,817	236	54,591	436	139	34,489	16,203	145	77,538	2,489
Ohio State University, Main Campus.....	18	5,765	188,722	36,813	435	82	32,966	15,155	168	52,357	6,312
Duke University (NC).....	19	5,665	26,000	57,223	359	113	33,532	14,598	137	62,999	2,635
University of Pennsylvania.....	20	5,571	309,277	47,787	393	120	34,369	15,215	111	36,300	5,000
New York University.....	21	5,145	769,197	62,537	451	125	41,004	18,186	119	42,795	2,676
University of Virginia, Main Campus.....	22	5,103	270,603	71,832	373	97	30,273	15,703	149	78,134	3,225
Pennsylvania State U., Penn State Main Campus.....	23	5,070	18,200	71,230	611	124	48,878	23,496	168	40,417	3,830
University of Arizona.....	24	5,050	441,889	23,288	237	61	22,547	8,931	168	42,133	659
Rutgers University, New Brunswick/Piscataway.....	25	5,003	176,995	40,848	321	68	23,161	12,831	105	47,280	1,408
University of Pittsburgh, Main Campus (PA).....	26	4,909	224,216	50,232	362	120	30,357	11,869	118	83,242	3,565
University of Kansas, Main Campus.....	27	4,756	109,272	40,989	258	61	18,300	8,667	140	34,433	1,996
Michigan State University.....	28	4,736	53,101	35,994	271	69	22,260	10,046	138	41,594	773
Northwestern University (IL).....	29	4,688	39,035	45,259	339	94	26,335	12,068	119	26,058	1,638
University of Iowa.....	30	4,551	324,934	51,374	278	79	25,666	11,335	115	36,630	1,647
University of Oklahoma, Norman Campus.....	31	4,346	363,116	34,404	153	37	14,444	4,048	117	21,015	640
University of Georgia.....	32	4,346	84,423	37,226	294	71	23,014	9,487	110	17,735	1,910
University of Florida.....	33	4,168	273,671	85,169	431	99	27,435	12,339	111	28,421	5,736
University of Southern California.....	34	3,969	287,712	60,718	375	68	31,894	14,534	159	55,000	1,100
Arizona State University at the Tempe Campus.....	35	3,896	281,588	30,925	274	72	22,044	9,742	149	73,892	2,317
Johns Hopkins University (MD).....	36	3,773	1,488,106	60,858	342	78	31,560	13,369	120	18,982	1,593
Washington University in St. Louis (MO).....	37	3,750	197,298	41,339	311	105	37,908	12,923	120	35,000	1,632
University of Tennessee.....	38	3,735	266,279	35,265	354	123	29,754	11,944	138	39,332	1,743
University of Maryland, College Park.....	39	3,690	200,000	32,777	304	145	25,284	11,195	162	54,935	4,550
University of Colorado at Boulder.....	40	3,641	40,677	30,221	212	52	19,210	8,252	104	2,051	2,391
University of Rochester (NY).....	41	3,607	13,056	26,760	214	91	18,122	8,231	119	4,196	922
Brigham Young University (UT).....	42	3,594	144,910	30,895	380	84	23,943	11,177	105	82,860	3,580
Brown University (RI).....	43	3,569	743,698	40,082	208	53	18,945	8,648	154	17,301	466
University of South Carolina, Columbia.....	44	3,533	691	58,855	277	68	20,422	7,837	152	20,000	3,350
University of Delaware.....	45	3,471	317,560	12,532	207	52	16,937	7,199	100	19,138	2,052
Louisiana State U. and A&M College.....	46	3,468	191,428	13,225	212	54	13,454	5,250	100	41,900	896
Wayne State University (MI).....	47	3,443	55,429	23,693	267	55	19,054	8,812	168	39,134	1,052
SUNY at Buffalo.....	48	3,423	103,905	37,288	249	67	19,454	9,965	141	25,000	977
University of Hawaii at Manoa.....	49	3,413	87,557	156,425	230	66	18,181	8,521	94	27,714	1,732
University of Kentucky.....	50	3,406	226,680	31,897	263	85	19,569	8,009	140	60,367	1,955
University of California, Santa Barbara.....	51	3,353	102,925	42,219	238	45	17,131	7,731	103	37,632	1,946
University of New Mexico, Main Campus.....	52	3,340	195,522	18,143	299	72	21,484	—	103	39,631	1,783
North Carolina State University at Raleigh.....	53	3,301	278,271	49,480	276	94	22,409	10,033	146	33,325	1,103
Texas A&M University.....	54	3,300	280,779	45,806	367	91	28,372	11,077	142	47,114	866
University of Missouri, Columbia.....	55	3,295	25,386	36,244	211	57	14,414	6,051	110	42,000	1,730
University of California, Davis.....	56	3,258	402,112	41,921	254	54	18,509	8,776	95	33,245	1,289
University of Oregon.....	57	3,255	230,970	23,186	208	42	13,739	6,921	107	40,581	2,123
University of Notre Dame (IN).....	58	3,247	7,443	21,622	261	59	21,694	9,540	126	18,853	574
University of California, San Diego.....	59	3,236	142,804	24,438	337	58	25,400	13,571	113	65,659	1,477
University of Cincinnati, Main Campus.....	60	3,209	155,744	42,265	213	51	24,203	10,072	105	29,876	2,241

—Not available.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Academic Libraries Survey (ALS), 2006. (This table was prepared July 2008.)

Table 424. Public libraries, books and serial volumes, library visits, circulation, and reference transactions, by state: Fiscal years 2006 and 2007

State	Number of public libraries		Number of books and serial volumes				Library visits per capita ¹		Circulation per capita		Reference transactions per capita ²	
			In thousands		Per capita							
	2006	2007	2006	2007	2006	2007	2006	2007	2006	2007	2006	2007
1	2	3	4	5	6	7	8	9	10	11	12	13
United States	9,208 ³	9,214 ³	807,246	812,483	2.8	2.8	4.8	4.9	7.3	7.4	1.0	1.0
Alabama.....	206	208	9,357	9,495	2.1	2.2	3.3	3.6	4.2	4.4	0.8	0.8
Alaska.....	90	87	2,387	2,445	3.6	3.6	5.2	5.1	6.2	6.3	0.6	0.5
Arizona.....	89	83	8,930	9,145	1.5	1.5	3.8	3.9	6.8	7.1	0.9	0.7
Arkansas.....	48	48	6,170	6,224	2.3	2.3	3.4	3.5	4.6	4.7	0.7	0.7
California.....	179	181	73,706	74,961	2.0	2.0	4.1	4.2	5.3	5.4	0.9	0.8
Colorado.....	115	115	11,719	11,728	2.5	2.5	6.2	6.2	11.2	11.4	1.2	1.2
Connecticut.....	194	195	15,658	15,528	4.5	4.4	6.5	6.5	9.0	9.0	1.3	1.3
Delaware.....	21	21	1,933	1,921	2.5	2.5	5.5	5.6	9.7	10.0	0.7	0.7
District of Columbia.....	1	1	2,172	2,097	3.7	3.6	3.1	3.7	2.1	2.5	1.7	1.4
Florida.....	78	79	32,554	31,995	1.8	1.7	4.1	4.2	5.6	5.9	1.3	1.5
Georgia.....	58	58	15,185	15,664	1.7	1.7	3.6	3.9	4.6	4.5	1.0	1.0
Hawaii.....	1	1	3,308	3,376	2.6	2.6	4.1	4.5	5.2	5.3	0.7	0.7
Idaho.....	104	104	4,006	4,100	3.1	3.1	6.0	6.1	8.3	8.6	0.7	0.8
Illinois.....	622	623	43,305	43,155	3.8	3.7	5.9	6.5	8.7	8.8	1.4	1.2
Indiana.....	239	239	24,576	25,360	4.3	4.5	6.8	6.9	12.8	13.0	1.0	0.9
Iowa.....	539	539	12,200	12,297	4.3	4.3	6.0	6.3	9.7	10.0	0.7	0.6
Kansas.....	325	326	11,024	11,106	4.8	4.7	6.6	6.4	11.1	11.1	1.2	1.2
Kentucky.....	116	116	8,582	8,602	2.1	2.1	4.0	4.3	6.2	6.4	0.7	0.8
Louisiana.....	66	67	11,036	11,450	2.6	2.7	3.1	3.4	4.1	4.1	1.0	1.2
Maine.....	272	272	6,411	6,495	5.4	5.5	5.7	5.9	7.6	7.5	0.7	0.7
Maryland.....	24	24	14,554	14,550	2.6	2.6	5.2	5.2	9.5	9.6	1.4	1.2
Massachusetts.....	370	370	32,319	32,436	5.1	5.0	6.1	6.1	8.0	8.1	0.8	0.8
Michigan.....	384	386	33,921	34,388	3.4	3.5	5.0	5.2	7.0	7.6	0.9	0.9
Minnesota.....	139	139	15,722	15,836	3.0	3.0	5.3	5.4	10.2	10.3	0.8	0.9
Mississippi.....	50	50	5,630	5,703	1.9	2.0	2.7	2.8	2.8	2.8	0.5	0.5
Missouri.....	151	152	18,049	18,433	3.5	3.6	5.0	5.3	9.0	9.3	1.1	1.1
Montana.....	80	80	2,803	2,781	3.1	3.1	4.5	4.4	6.1	6.2	0.4	0.4
Nebraska.....	269	271	6,745	6,735	4.7	5.2	6.5	7.4	9.4	10.2	0.9	0.9
Nevada.....	22	22	4,472	4,633	1.7	1.7	3.9	3.8	5.9	5.9	0.6	0.6
New Hampshire.....	230	230	6,064	6,116	4.7	4.7	5.1	5.2	7.9	8.1	0.6	0.6
New Jersey.....	304	303	30,738	30,673	3.7	3.7	5.5	5.6	6.5	6.8	1.0	1.0
New Mexico.....	90	91	4,444	4,582	3.0	3.0	4.7	4.7	6.4	6.1	0.9	0.9
New York.....	754	753	74,403	72,956	3.9	3.9	5.8	6.0	7.6	7.8	1.4	1.5
North Carolina.....	75	77	16,086	16,536	1.9	1.9	3.9	4.1	5.5	5.6	1.3	1.4
North Dakota.....	83	80	2,332	2,368	4.2	4.3	4.9	4.8	7.2	7.2	0.7	0.7
Ohio.....	251	251	46,896	46,974	4.1	4.1	7.5	7.6	15.5	15.9	1.6	1.7
Oklahoma.....	112	113	7,009	7,144	2.4	2.4	4.7	4.8	7.0	6.9	0.8	0.8
Oregon.....	128	128	9,209	9,505	2.8	2.8	6.2	6.3	15.0	14.9	0.8	0.8
Pennsylvania.....	457	457	29,706	30,114	2.5	2.5	3.8	3.9	5.5	5.6	0.7	0.7
Rhode Island.....	49	49	4,394	4,376	4.1	4.1	5.9	5.8	6.9	6.7	0.9	0.8
South Carolina.....	42	42	9,056	9,176	2.1	2.1	3.6	3.6	5.1	5.2	1.1	1.1
South Dakota.....	124	123	3,205	3,131	4.7	4.6	5.5	5.9	8.1	7.9	0.8	0.7
Tennessee.....	186	187	11,144	11,439	1.9	1.9	3.2	3.3	4.2	4.1	0.8	0.7
Texas.....	561	562	41,863	41,799	2.0	1.9	3.3	3.3	4.8	4.8	0.8	0.7
Utah.....	70	70	6,466	6,587	2.6	2.6	7.0	6.5	12.9	12.5	1.6	1.6
Vermont.....	183	183	2,845	2,865	4.7	4.8	6.3	6.4	7.4	7.5	0.8	0.8
Virginia.....	90	90	18,420	19,002	2.5	2.5	4.8	4.9	8.5	8.6	1.0	0.9
Washington.....	65	66	17,317	17,458	2.8	2.7	6.3	6.2	11.3	11.7	1.0	1.0
West Virginia.....	97	97	4,935	5,023	2.7	2.8	3.4	3.3	4.2	4.2	0.6	0.5
Wisconsin.....	382	382	19,947	19,596	3.6	3.5	6.0	6.1	10.6	10.6	0.9	0.9
Wyoming.....	23	23	2,334	2,429	4.6	4.7	6.4	6.4	8.7	8.4	1.1	1.1

¹The total number of persons entering the library for any purpose during the year.

²A reference transaction is an information contact that involves the knowledge, use, recommendations, interpretation, or instructions in the use of one or more information sources by a member of the library staff.

³In 2006, of the 9,208 public libraries in the 50 states and the District of Columbia, 7,449 were single-outlet libraries and 1,759 were multiple-outlet libraries. In 2007, of the 9,214 public libraries in the 50 states and the District of Columbia, 7,463 were single-outlet libraries and 1,751 were multiple-outlet libraries. Single-outlet libraries consist of a cen-

tral library, bookmobile, or books-by-mail-only outlet. Multiple-outlet libraries have two or more direct service outlets, including some combination of one central library, branch(es), bookmobile(s), and/or books-by-mail-only outlets.

NOTE: Data include imputations for nonresponse. Detail may not sum to totals because of rounding.

SOURCE: U.S. Census Bureau, Institute of Museum and Library Services, *Public Libraries in the United States*, fiscal years 2006 and 2007, retrieved July 14, 2009, from <http://harvester.census.gov/imls/publib.asp>. (This table was prepared July 2009.)

Table 425. Public schools and instructional rooms with internet access, by selected school characteristics: Selected years, 1994 through 2005

Schools, computers, instructional rooms, and access	All public schools		Instructional level ¹		Size of school enrollment			Metropolitan status				Percent of students eligible for free or reduced-price lunch ²																		
			Elementary	Secondary	Less than 300	300 to 999	1,000 or more	City	Urban fringe	Town	Rural	Less than 35 percent	35 to 49 percent	50 to 74 percent	75 percent or more															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15																
Estimated total number of schools																														
1995	77,850	(—)	57,710	(—)	18,080	(—)	20,670	(—)	50,040	(—)	7,140	(—)	17,910	(—)	18,460	(—)	19,540	(—)	21,940	(—)	37,450	(—)	13,630	(—)	12,810	(—)	13,170	(—)		
1998	78,790	(333)	59,170	(293)	19,190	(220)	20,100	(479)	50,660	(467)	8,040	(165)	20,700	(88)	26,270	(98)	11,310	(182)	20,520	(273)	38,160	(1,530)	12,090	(1,185)	13,970	(991)	14,540	(1,263)		
1999	78,400	(665)	59,580	(722)	17,110	(521)	20,020	(1,263)	50,390	(681)	7,990	(291)	21,030	(605)	26,250	(514)	11,240	(343)	19,890	(506)	35,650	(1,211)	13,910	(977)	16,100	(1,067)	11,990	(949)		
2000	80,130	(650)	59,780	(569)	18,410	(359)	20,070	(697)	51,890	(206)	8,170	(217)	21,120	(1,380)	26,580	(1,746)	11,880	(1,323)	20,550	(1,478)	36,560	(1,215)	12,410	(792)	17,030	(1,071)	13,910	(923)		
2001	81,070	(492)	61,640	(527)	17,630	(414)	20,670	(589)	51,970	(274)	8,430	(139)	18,000	(1,416)	26,260	(1,002)	10,180	(746)	26,630	(1,087)	34,930	(1,191)	14,750	(1,203)	16,630	(995)	14,710	(814)		
2002	82,040	(780)	62,130	(647)	17,610	(371)	21,430	(761)	51,880	(253)	8,730	(145)	18,550	(963)	26,430	(922)	10,770	(1,080)	26,280	(1,289)	34,990	(1,194)	13,240	(1,050)	19,040	(1,134)	14,770	(862)		
2003	82,230	(763)	62,300	(759)	17,890	(396)	21,620	(697)	51,950	(448)	8,660	(154)	18,800	(1,160)	26,490	(1,060)	10,600	(1,098)	26,350	(1,422)	32,500	(1,381)	14,870	(1,111)	18,580	(1,095)	16,290	(999)		
2005	82,480	(484)	61,920	(457)	18,910	(332)	20,960	(534)	53,420	(599)	8,100	(398)	19,010	(1,094)	23,820	(1,546)	11,810	(939)	27,850	(1,288)	32,280	(1,158)	14,350	(924)	18,290	(1,268)	17,570	(956)		
Percent of schools with internet access ³																														
1994	35	(1.5)	30	(1.9)	49	(2.4)	30	(3.4)	35	(2.0)	58	(3.0)	40	(3.1)	38	(2.9)	29	(2.3)	35	(2.7)	39	(2.3)	35	(4.6)	32	(5.0)	18	(4.6)		
1995	50	(1.8)	46	(2.4)	65	(2.7)	39	(3.9)	52	(2.2)	69	(4.1)	47	(4.3)	59	(3.8)	47	(3.7)	48	(3.8)	60	(2.4)	48	(3.9)	41	(4.6)	31	(4.4)		
1996	65	(1.8)	61	(2.1)	77	(1.8)	57	(4.4)	66	(2.0)	80	(3.4)	64	(4.5)	75	(3.3)	61	(4.0)	60	(3.3)	74	(2.2)	59	(4.8)	53	(5.1)	53	(5.4)		
1998	89	(1.3)	88	(1.6)	94	(2.1)	87	(3.4)	89	(1.4)	95	(2.4)	92	(2.1)	85	(2.8)	90	(3.2)	92	(3.4)	92	(2.0)	93	(2.2)	88	(3.0)	79	(3.7)		
1999	95	(0.8)	94	(1.0)	98	(0.8)	96	(1.5)	94	(1.0)	96	(1.7)	93	(1.5)	96	(1.2)	94	(2.5)	96	(1.4)	95	(1.1)	98	(0.9)	96	(1.7)	89	(3.1)		
2000	98	(0.5)	97	(0.7)	100	(.4)	96	(1.7)	98	(0.5)	99	(0.6)	96	(1.1)	98	(1.2)	98	(1.2)	99	(0.9)	99	(0.7)	99	(0.7)	97	(1.3)	94	(1.7)		
2001	99	(0.3)	99	(0.4)	100	(.4)	99	(1.0)	99	(0.4)	100	(.4)	97	(1.4)	99	(0.5)	100	(.4)	100	(.4)	99	(0.6)	100	(.4)	99	(0.5)	97	(1.1)		
2002	99	(0.5)	99	(0.6)	100	(.4)	96	(1.7)	100	(.4)	100	(.4)	99	(0.7)	100	(.4)	98	(2.2)	98	(1.0)	98	(1.0)	100	(.4)	100	(.4)	99	(0.9)		
2003	100	(.4)	100	(.4)	100	(.4)	100	(.4)	100	(.4)	100	(.4)	100	(.4)	100	(.4)	100	(.4)	100	(.4)	100	(.4)	100	(.4)	100	(.4)	99	(0.8)		
2005	100	(.4)	100	(.4)	100	(.4)	100	(.4)	99	(0.4)	100	(.4)	99	(0.6)	99	(0.6)	100	(.4)	100	(.4)	99	(0.5)	100	(.4)	100	(.4)	99	(0.7)		
Number of computers for instructional purposes (in thousands)																														
1995	5,621	(—)	3,453	(—)	2,021	(—)	850	(—)	3,600	(—)	1,171	(—)	1,497	(—)	1,526	(—)	1,404	(—)	1,195	(—)	2,905	(—)	806	(—)	950	(—)	882	(—)		
1998	7,111	(183)	4,519	(145)	2,549	(94)	952	(53)	4,414	(136)	1,744	(106)	2,148	(74)	2,606	(129)	1,047	(58)	1,311	(77)	3,630	(198)	1,105	(114)	1,127	(89)	1,235	(155)		
1999	7,806	(147)	4,923	(114)	2,728	(103)	1,021	(76)	4,952	(127)	1,834	(101)	2,320	(113)	2,975	(121)	1,022	(50)	1,489	(75)	3,900	(152)	1,245	(115)	1,429	(116)	1,170	(98)		
2000	8,776	(174)	5,296	(149)	3,271	(113)	1,135	(73)	5,524	(121)	2,117	(103)	2,537	(179)	3,396	(213)	1,155	(132)	1,689	(131)	4,394	(147)	1,373	(93)	1,606	(112)	1,384	(107)		
2001	10,058	(180)	6,165	(165)	3,654	(98)	1,085	(57)	6,273	(140)	2,700	(85)	2,685	(192)	3,791	(168)	1,134	(78)	2,448	(142)	4,781	(206)	1,707	(120)	1,862	(132)	1,698	(117)		
2002	10,711	(237)	6,775	(187)	3,705	(105)	1,347	(101)	6,533	(181)	2,831	(101)	2,662	(158)	4,043	(173)	1,320	(172)	2,686	(164)	4,982	(170)	1,673	(172)	2,265	(137)	1,792	(136)		
2003	11,180	(265)	6,879	(234)	4,087	(115)	1,275	(77)	6,709	(179)	3,196	(118)	2,825	(163)	4,188	(177)	1,357	(139)	2,810	(220)	5,049	(252)	1,923	(165)	2,248	(139)	1,960	(110)		
2005	12,672	(281)	7,701	(251)	4,783	(148)	1,566	(98)	7,966	(243)	3,139	(163)	3,132	(177)	4,058	(242)	1,819	(193)	3,663	(255)	5,352	(261)	2,193	(185)	2,687	(244)	2,440	(152)		
Average number of instructional computers per school																														
1995	72	(—)	60	(—)	112	(—)	41	(—)	72	(—)	164	(—)	84	(—)	83	(—)	72	(—)	54	(—)	78	(—)	59	(—)	74	(—)	67	(—)		
1998	90	(2.3)	76	(2.4)	133	(4.9)	47	(2.6)	87	(2.5)	217	(13.0)	104	(3.6)	99	(4.9)	93	(5.2)	64	(3.6)	95	(3.7)	91	(6.1)	81	(4.5)	85	(7.7)		
1999	100	(2.2)	83	(2.2)	159	(6.4)	51	(2.5)	98	(2.3)	229	(10.7)	110	(4.7)	113	(4.2)	91	(4.2)	75	(3.6)	109	(2.8)	90	(6.8)	89	(5.6)	98	(5.2)		
2000	110	(2.0)	89	(2.4)	178	(5.3)	57	(3.1)	106	(2.3)	259	(9.0)	120	(4.9)	128	(4.3)	97	(5.6)	82	(3.6)	120	(3.4)	111	(5.9)	94	(5.7)	99	(5.5)		
2001	124	(2.3)	100	(2.7)	207	(6.2)	52	(2.5)	121	(2.6)	320	(10.1)	149	(6.4)	144	(4.7)	111	(6.0)	92	(4.0)	137	(4.9)	116	(5.8)	112	(6.0)	115	(5.0)		
2002	131	(2.8)	109	(2.9)	210	(6.4)	63	(4.1)	126	(3.5)	324	(10.8)	144	(6.4)	153	(5.2)	123	(9.3)	102	(4.5)	142	(4.7)	126	(6.5)	119	(5.3)	122	(5.9)		
2003	136	(2.6)	110	(3.1)	228	(4.9)	59	(2.9)	129	(3.2)	369	(11.0)	150	(6.1)	158	(5.6)	128	(6.7)	107	(4.9)	155	(5.9)	129	(7.0)	121	(5.6)	120	(5.1)		
2005	154	(3.4)	124	(3.8)	253	(6.8)	75	(4.2)	149	(4.2)	388	(13.5)	165	(7.2)	170	(6.3)	154	(13.4)	132	(5.9)	166	(5.5)	153	(9.3)	147	(6.9)	139	(7.4)		
Number of instructional computers with internet access (in thousands)																														
1995	447	(—)	232	(—)	187	(—)	59	(—)	315	(—)	73	(—)	96	(—)	131	(—)	126	(—)	94	(—)	286	(—)	46	(—)	57	(—)	36	(—)		
1998	3,569	(173)	2,100	(148)	1,450	(79)	407	(38)	2,276	(140)	887	(73)	1,026	(87)	1,334	(105)	481	(46)	727	(73)	2,064	(151)	608	(79)	439	(48)	458	(78)		
1999	4,809	(145)	2,773	(111)	1,945	(89)	663	(60)	2,988	(132)	1,158	(88)	1,265	(94)	1,887	(93)	691	(50)	966	(70)	2,762	(140)	778	(59)	810	(79)	428	(55)		
2000	6,759	(174)	3,813	(136)	2,779	(113)	882	(69)	4,191	(114)	1,686	(97)	1,782	(148)	2,688	(178)	955	(111)	1,335	(91)	3,608	(139)	1,064	(80)	1,215	(93)	858	(87)		
2001	8,500	(176)	4,936	(144)	3,357	(92)	874	(61)	5,229	(139)	2,396	(89)	2,175	(164)	3,178	(150)	1,008	(74)	2,139	(137)	4,225	(196)	1,447	(105)	1,529	(114)	1,289	(101)		
2002	9,658	(236)	5,912	(183)	3,525	(105)	1,214	(97)	5,827	(183)	2,618	(102)	2,329	(145)	3,677	(160)	1,222	(162)	2,431	(148)	4,586	(167)	1,474	(158)	2,049	(129)	1,549			

Table 425. Public schools and instructional rooms with internet access, by selected school characteristics: Selected years, 1994 through 2005—Continued

Schools, computers, instructional rooms, and access	All public schools		Instructional level ¹		Size of school enrollment			Metropolitan status				Percent of students eligible for free or reduced-price lunch ²			
			Elementary	Secondary	Less than 300	300 to 999	1,000 or more	City	Urban fringe	Town	Rural	Less than 35 percent	35 to 49 percent	50 to 74 percent	75 percent or more
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
Percent of instructional computers with internet access															
1995 ⁵	8 (—)	7 (—)	9 (—)	7 (—)	9 (—)	6 (—)	6 (—)	9 (—)	9 (—)	8 (—)	10 (—)	6 (—)	6 (—)	4 (—)	
1998.....	50 (1.7)	46 (2.5)	57 (2.1)	43 (3.4)	52 (2.2)	51 (3.4)	48 (3.0)	51 (2.8)	46 (4.1)	55 (3.4)	57 (2.0)	55 (4.2)	39 (2.9)	37 (4.6)	
1999.....	62 (1.4)	56 (1.6)	71 (2.4)	65 (3.0)	60 (1.7)	63 (3.6)	55 (2.6)	63 (2.4)	68 (3.1)	65 (2.7)	71 (2.2)	62 (3.6)	57 (2.8)	37 (3.6)	
2000.....	77 (1.1)	72 (1.5)	85 (1.2)	78 (2.6)	76 (1.3)	80 (1.8)	70 (2.1)	79 (1.7)	83 (2.5)	79 (2.1)	82 (1.2)	77 (2.9)	76 (2.6)	62 (3.1)	
2001.....	85 (0.8)	80 (1.2)	92 (0.8)	81 (2.8)	83 (1.2)	89 (1.4)	81 (2.1)	84 (1.5)	89 (2.1)	87 (1.3)	88 (1.2)	85 (2.0)	82 (2.5)	76 (2.2)	
2002.....	90 (0.8)	87 (1.1)	95 (0.6)	90 (1.8)	89 (0.9)	92 (1.3)	87 (1.6)	91 (1.2)	93 (1.9)	90 (1.4)	92 (1.1)	88 (2.0)	90 (1.5)	86 (1.6)	
2003.....	93 (0.6)	90 (0.8)	96 (0.8)	91 (1.9)	92 (0.8)	95 (1.0)	92 (1.0)	93 (1.1)	93 (1.6)	93 (1.3)	95 (0.8)	90 (2.3)	94 (1.0)	88 (1.5)	
2005.....	97 (0.4)	96 (0.5)	98 (0.4)	97 (0.7)	96 (0.5)	98 (0.5)	96 (0.7)	96 (1.1)	98 (0.6)	97 (0.7)	98 (0.6)	95 (1.0)	96 (1.0)	96 (0.8)	
Number of public school students per instructional computer with internet access															
1998.....	12.1 (0.6)	13.6 (0.9)	9.9 (0.4)	9.1 (0.7)	12.3 (0.7)	13.0 (1.0)	14.1 (1.2)	12.4 (0.9)	12.2 (1.2)	8.6 (0.8)	10.6 (0.6)	10.9 (1.2)	15.8 (1.4)	16.8 (2.5)	
1999.....	9.1 (0.3)	10.6 (0.4)	7.0 (0.3)	5.7 (0.4)	9.4 (0.4)	10.0 (0.6)	11.4 (0.8)	9.1 (0.4)	8.2 (0.6)	6.6 (0.4)	7.6 (0.3)	9.0 (0.4)	10.0 (0.8)	16.8 (2.2)	
2000.....	6.6 (0.1)	7.8 (0.2)	5.2 (0.2)	3.9 (0.3)	7.0 (0.2)	7.2 (0.3)	8.2 (0.4)	6.6 (0.2)	6.2 (0.3)	5.0 (0.3)	6.0 (0.2)	6.3 (0.4)	7.2 (0.4)	9.1 (0.7)	
2001.....	5.4 (0.1)	6.1 (0.2)	4.3 (0.1)	4.1 (0.3)	5.6 (0.1)	5.4 (0.2)	5.9 (0.2)	5.7 (0.2)	5.0 (0.3)	4.6 (0.1)	4.9 (0.2)	5.2 (0.2)	5.6 (0.3)	6.8 (0.3)	
2002.....	4.8 (0.1)	5.2 (0.2)	4.1 (0.1)	3.1 (0.2)	5.0 (0.2)	5.1 (0.2)	5.5 (0.2)	4.9 (0.2)	4.4 (0.4)	4.0 (0.2)	4.6 (0.1)	4.5 (0.3)	4.7 (0.2)	5.5 (0.3)	
2003.....	4.4 (0.1)	4.9 (0.2)	3.8 (0.1)	3.2 (0.2)	4.7 (0.1)	4.3 (0.2)	5.0 (0.2)	4.6 (0.2)	4.1 (0.2)	3.8 (0.2)	4.2 (0.1)	4.4 (0.3)	4.4 (0.2)	5.1 (0.2)	
2005.....	3.8 (0.1)	4.1 (0.1)	3.3 (0.1)	2.4 (0.1)	3.9 (0.1)	4.0 (0.1)	4.2 (0.2)	4.1 (0.1)	3.4 (0.2)	3.0 (0.1)	3.8 (0.1)	3.4 (0.2)	3.6 (0.2)	4.0 (0.2)	
Number of instructional rooms ⁶ (in thousands)															
1998.....	2,709 (41)	1,772 (29)	916 (25)	349 (15)	1,740 (34)	620 (21)	839 (22)	981 (24)	390 (14)	498 (17)	1,372 (60)	413 (39)	451 (29)	471 (42)	
1999.....	2,811 (36)	1,830 (33)	926 (29)	360 (26)	1,805 (39)	645 (30)	857 (29)	1,049 (33)	375 (16)	530 (23)	1,325 (46)	477 (34)	541 (42)	437 (34)	
2000.....	2,905 (35)	1,864 (28)	972 (24)	377 (22)	1,871 (23)	657 (23)	866 (56)	1,086 (61)	413 (47)	541 (39)	1,380 (46)	465 (28)	570 (36)	482 (29)	
2001.....	2,851 (31)	1,854 (30)	929 (18)	332 (17)	1,829 (23)	690 (15)	726 (49)	1,068 (46)	339 (24)	718 (36)	1,299 (48)	486 (34)	551 (35)	510 (29)	
2002.....	2,988 (37)	2,006 (30)	919 (19)	396 (25)	1,896 (20)	696 (16)	748 (36)	1,101 (39)	378 (40)	761 (48)	1,368 (45)	451 (38)	648 (38)	520 (33)	
2003.....	3,004 (47)	1,998 (44)	952 (20)	378 (18)	1,919 (33)	707 (16)	777 (45)	1,104 (51)	375 (38)	748 (54)	1,281 (51)	524 (39)	626 (38)	512 (34)	
2005.....	3,283 (71)	2,152 (70)	1,078 (27)	426 (23)	2,152 (70)	705 (30)	849 (62)	1,050 (61)	439 (41)	945 (67)	1,339 (50)	593 (51)	695 (56)	655 (39)	
Percent of instructional rooms ⁶ with internet access ³															
1994.....	3 (0.3)	3 (0.4)	4 (0.6)	3 (0.7)	3 (0.5)	3 (0.6)	4 (0.8)	4 (0.8)	3 (0.6)	3 (0.4)	3 (0.5)	2 (0.4)	4 (1.8)	2 (0.9)	
1995.....	8 (0.7)	8 (1.0)	8 (1.0)	9 (1.6)	8 (1.0)	4 (1.0)	6 (1.3)	8 (1.4)	8 (2.0)	8 (1.5)	10 (1.2)	6 (1.4)	6 (1.9)	3 (1.0)	
1996.....	14 (1.0)	13 (1.5)	16 (1.5)	15 (2.9)	13 (1.2)	16 (2.1)	12 (1.6)	16 (2.2)	14 (1.9)	14 (2.2)	17 (1.6)	12 (2.2)	11 (2.8)	5 (1.8)	
1998.....	51 (1.8)	51 (2.3)	52 (2.1)	54 (3.7)	53 (2.2)	45 (3.9)	47 (3.2)	50 (2.9)	55 (4.0)	57 (3.6)	57 (2.4)	60 (5.1)	41 (3.9)	38 (4.3)	
1999.....	64 (1.6)	62 (1.8)	67 (2.6)	71 (3.2)	64 (1.9)	58 (3.0)	52 (2.6)	67 (2.5)	72 (3.4)	71 (3.0)	73 (2.3)	69 (3.4)	61 (3.1)	38 (4.4)	
2000.....	77 (1.1)	76 (1.5)	79 (1.6)	83 (2.8)	78 (1.5)	70 (2.2)	66 (2.2)	78 (2.0)	87 (2.6)	85 (1.7)	82 (1.5)	81 (2.9)	77 (2.8)	60 (3.3)	
2001.....	87 (0.9)	86 (1.1)	88 (1.2)	87 (2.1)	87 (1.1)	86 (1.7)	82 (2.1)	87 (1.3)	91 (2.2)	89 (1.3)	90 (1.2)	89 (2.2)	87 (2.4)	79 (2.4)	
2002.....	92 (0.6)	92 (0.8)	91 (1.0)	91 (1.9)	93 (0.7)	89 (1.7)	88 (1.6)	92 (0.9)	96 (1.1)	93 (1.0)	93 (0.8)	90 (2.1)	91 (1.4)	89 (1.9)	
2003.....	93 (0.5)	93 (0.7)	94 (0.9)	93 (1.6)	93 (0.7)	94 (1.1)	90 (1.0)	94 (0.9)	97 (0.9)	94 (1.2)	95 (1.0)	93 (1.4)	94 (1.1)	90 (1.5)	
2005.....	94 (1.3)	93 (1.9)	95 (0.9)	92 (1.9)	94 (1.9)	94 (1.5)	88 (3.7)	96 (0.8)	98 (0.7)	95 (1.8)	96 (0.8)	88 (4.3)	96 (0.8)	91 (2.5)	

—Not available

†Not applicable.

¹Data for combined schools are included in the totals and in analyses by other school characteristics, but are not shown separately.

²Percent of students eligible for free or reduced-price lunch was not available for some schools. In the 1994 survey, free and reduced-price lunch data came from the Common Core of Data (CCD) only and were missing for 430 schools (percentages presented in this table are based on cases for which data were available). In subsequent years, free and reduced-price lunch information was obtained on the questionnaire, supplemented, if necessary, with CCD data. Missing data ranged from 0 schools (2002, 2003, and 2005) to 10 schools (1999).

³Some data differ slightly (e.g., by 1 percent) from previously published figures.

⁴This estimate fell between 99.5 percent and 100.0 percent and therefore was rounded to 100 percent.

⁵Includes computers used for instructional or administrative purposes.

⁶Includes all classrooms, computer labs, and library/media centers.

NOTE: For estimates that are 100 percent, the event defined could have been reported by fewer schools had a different sample been drawn. Detail may not sum to totals because of rounding. Standard errors appear in parentheses.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Fast Response Survey System (FRSS), *Internet Access in U.S. Public Schools and Classrooms: 1994–2005*; and unpublished tabulations. (This table was prepared July 2007.)

Table 426. Use of the Internet by persons 3 years old and over, by type of use and selected characteristics of students and other users: 2003

Selected characteristic	Number of persons using the Internet (in thousands)	Percent using the Internet anywhere	Percent using the Internet at school	Percent of internet users using the Internet for various activities during the year ¹												
				School assignments	E-mail and messaging	Playing games	Online courses	Product purchases and information	News, weather, and sports	Health information ²	Government information ³	Conduct financial transactions ^{3,4}	Look for jobs ⁵			
1	2	3	4	5	6	7	8	9	10	11	12	13	14			
Total, all persons	161,636 (309.1)	58.7 (0.14)	— (†)	— (†)	82.1 (0.15)	42.2 (0.19)	5.6 (0.09)	71.2 (0.17)	60.6 (0.19)	39.3 (0.20)	44.7 (0.21)	30.4 (0.19)	18.7 (0.16)			
Sex																
Male	78,070 (343.4)	58.2 (0.21)	— (†)	— (†)	80.4 (0.22)	45.5 (0.27)	5.4 (0.12)	71.8 (0.25)	65.5 (0.26)	34.1 (0.28)	45.5 (0.30)	32.3 (0.28)	19.1 (0.24)			
Female	83,567 (348.1)	59.2 (0.20)	— (†)	— (†)	83.7 (0.20)	39.2 (0.26)	5.7 (0.12)	70.6 (0.24)	55.9 (0.26)	44.1 (0.28)	44.0 (0.29)	28.6 (0.26)	18.3 (0.22)			
Race/ethnicity																
White	122,243 (353.9)	65.1 (0.17)	— (†)	— (†)	84.8 (0.16)	41.4 (0.22)	5.5 (0.10)	74.4 (0.19)	62.9 (0.21)	41.1 (0.23)	45.9 (0.24)	31.3 (0.22)	17.4 (0.18)			
Black	14,898 (131.5)	45.2 (0.45)	— (†)	— (†)	71.1 (0.61)	50.2 (0.67)	5.6 (0.31)	59.7 (0.66)	50.8 (0.67)	33.6 (0.67)	41.1 (0.73)	22.3 (0.62)	25.6 (0.65)			
Hispanic	14,038 (132.7)	37.2 (0.43)	— (†)	— (†)	69.6 (0.68)	43.0 (0.73)	5.0 (0.32)	57.2 (0.73)	50.6 (0.74)	30.1 (0.73)	36.4 (0.81)	26.6 (0.74)	21.5 (0.69)			
Other	10,457 (133.9)	61.6 (0.65)	— (†)	— (†)	83.3 (0.64)	39.5 (0.84)	7.1 (0.44)	68.4 (0.79)	60.7 (0.83)	37.6 (0.87)	45.4 (0.93)	35.2 (0.89)	21.5 (0.76)			
Age																
3 and 4	1,662 (62.5)	19.9 (0.67)	— (†)	— (†)	26.5 (1.67)	64.6 (1.81)	0.6 (0.29)	15.4 (1.36)	11.3 (1.19)	— (†)	— (†)	— (†)	— (†)			
5 to 9	8,259 (137.2)	42.0 (0.54)	— (†)	— (†)	33.5 (0.80)	64.8 (0.81)	1.0 (0.17)	17.3 (0.64)	16.6 (0.63)	— (†)	— (†)	— (†)	— (†)			
10 to 14	14,570 (179.4)	68.9 (0.49)	— (†)	— (†)	62.4 (0.62)	66.1 (0.60)	1.1 (0.13)	34.4 (0.61)	35.7 (0.61)	6.2 (0.38)	— (†)	— (†)	— (†)			
15 to 19	15,768 (186.1)	77.7 (0.45)	— (†)	— (†)	84.0 (0.45)	61.1 (0.60)	5.0 (0.27)	61.3 (0.60)	55.4 (0.61)	13.2 (0.42)	19.3 (0.48)	8.6 (0.34)	10.5 (0.38)			
20 to 24	13,800 (174.9)	69.4 (0.50)	— (†)	— (†)	87.1 (0.44)	51.9 (0.65)	8.8 (0.37)	76.4 (0.56)	65.6 (0.62)	28.4 (0.59)	36.2 (0.63)	27.6 (0.59)	30.5 (0.60)			
25 to 29	12,492 (167.0)	66.7 (0.53)	— (†)	— (†)	88.7 (0.44)	42.2 (0.68)	8.0 (0.37)	83.1 (0.52)	71.0 (0.62)	44.7 (0.68)	50.2 (0.69)	41.3 (0.68)	31.5 (0.64)			
30 to 39	28,580 (242.3)	69.2 (0.35)	— (†)	— (†)	88.6 (0.29)	35.9 (0.44)	7.1 (0.22)	83.6 (0.34)	70.9 (0.61)	45.0 (0.45)	49.9 (0.46)	38.8 (0.44)	23.3 (0.38)			
40 to 49	29,978 (247.3)	67.5 (0.34)	— (†)	— (†)	88.3 (0.29)	33.1 (0.42)	6.3 (0.23)	83.4 (0.33)	70.1 (0.41)	48.0 (0.44)	50.9 (0.44)	34.6 (0.42)	19.0 (0.35)			
50 to 59	21,911 (215.9)	62.7 (0.40)	— (†)	— (†)	89.3 (0.32)	26.9 (0.46)	5.9 (0.24)	82.1 (0.40)	66.4 (0.49)	50.5 (0.52)	51.2 (0.52)	30.0 (0.48)	12.8 (0.35)			
60 to 69	9,677 (148.0)	43.9 (0.51)	— (†)	— (†)	87.5 (0.52)	27.7 (0.70)	3.7 (0.30)	77.8 (0.65)	60.2 (0.77)	49.3 (0.78)	45.6 (0.78)	24.2 (0.67)	6.1 (0.37)			
70 or older	4,940 (106.9)	20.1 (0.39)	— (†)	— (†)	86.7 (0.74)	27.9 (0.98)	2.9 (0.37)	67.6 (1.03)	56.8 (1.08)	47.6 (1.09)	37.8 (1.06)	19.0 (0.86)	2.4 (0.34)			
Family income⁵																
Less than \$10,000	5,290 (112.1)	31.5 (0.63)	— (†)	— (†)	69.3 (1.11)	48.0 (1.20)	6.4 (0.59)	60.6 (1.17)	53.3 (1.20)	33.8 (1.21)	40.4 (1.31)	22.9 (1.12)	34.5 (1.27)			
\$10,000 to \$19,999	8,119 (195.6)	32.5 (0.66)	— (†)	— (†)	70.6 (1.12)	45.0 (1.22)	5.9 (0.58)	60.4 (1.20)	51.3 (1.23)	33.4 (1.23)	39.7 (1.34)	20.7 (1.11)	26.1 (1.20)			
\$20,000 to \$29,999	12,830 (243.1)	43.8 (0.64)	— (†)	— (†)	75.5 (0.84)	46.1 (0.97)	5.4 (0.44)	64.3 (0.94)	54.9 (0.97)	35.8 (0.99)	39.3 (1.04)	24.8 (0.92)	23.6 (0.91)			
\$30,000 to \$39,999	15,730 (267.2)	54.3 (0.65)	— (†)	— (†)	79.4 (0.71)	44.9 (0.88)	5.1 (0.39)	67.0 (0.83)	56.1 (0.88)	36.3 (0.90)	40.4 (0.95)	26.3 (0.85)	21.2 (0.79)			
\$40,000 to \$49,999	13,596 (249.8)	64.8 (0.73)	— (†)	— (†)	80.2 (0.76)	43.7 (0.94)	4.8 (0.40)	70.6 (0.86)	58.0 (0.94)	37.6 (0.97)	41.9 (1.02)	27.3 (0.92)	18.5 (0.80)			
\$50,000 to \$74,999	32,025 (365.2)	71.8 (0.47)	— (†)	— (†)	83.6 (0.46)	42.7 (0.61)	5.1 (0.27)	72.9 (0.55)	61.7 (0.60)	39.7 (0.63)	45.7 (0.67)	31.3 (0.62)	18.2 (0.52)			
\$75,000 or more	48,795 (429.4)	82.9 (0.34)	— (†)	— (†)	87.3 (0.33)	39.7 (0.49)	6.5 (0.25)	77.7 (0.42)	67.4 (0.47)	44.0 (0.52)	51.5 (0.54)	38.4 (0.53)	15.9 (0.40)			
Total, all students	49,520 (300.6)	66.1 (0.27)	48.8 (0.28)	82.2 (0.26)	70.1 (0.32)	59.3 (0.34)	5.9 (0.16)	49.8 (0.35)	46.5 (0.35)	20.1 (0.33)	32.8 (0.45)	20.5 (0.39)	17.8 (0.37)			
Elementary/secondary⁶	34,636 (262.4)	59.4 (0.31)	43.3 (0.32)	77.9 (0.34)	60.6 (0.40)	64.2 (0.40)	2.0 (0.12)	37.1 (0.40)	36.0 (0.40)	9.3 (0.31)	15.8 (0.53)	5.6 (0.34)	7.0 (0.37)			
3 and 4 years old	1,063 (50.1)	23.2 (0.96)	7.6 (0.60)	29.4 (2.15)	25.1 (2.05)	63.5 (2.27)	† (†)	12.7 (1.57)	8.5 (1.32)	— (†)	— (†)	— (†)	— (†)			
5 to 9 years old	8,116 (136.0)	42.7 (0.55)	26.1 (0.49)	51.6 (0.85)	33.3 (0.81)	64.9 (0.82)	1.0 (0.17)	17.3 (0.65)	16.5 (0.63)	— (†)	— (†)	— (†)	— (†)			
10 to 14 years old	14,422 (178.5)	69.4 (0.49)	53.4 (0.53)	85.6 (0.45)	62.4 (0.62)	66.1 (0.61)	1.0 (0.13)	34.2 (0.61)	35.5 (0.61)	5.9 (0.38)	— (†)	— (†)	— (†)			
15 years old and over	11,035 (157.5)	79.5 (0.53)	63.6 (0.63)	91.9 (0.40)	81.6 (0.57)	61.3 (0.71)	4.2 (0.29)	57.8 (0.72)	53.6 (0.73)	12.2 (0.48)	15.8 (0.53)	5.6 (0.34)	7.0 (0.37)			
College	14,884 (181.2)	89.5 (0.37)	68.1 (0.56)	92.0 (0.34)	92.4 (0.34)	47.8 (0.63)	14.9 (0.45)	79.2 (0.51)	71.1 (0.57)	34.9 (0.60)	45.4 (0.63)	31.5 (0.59)	25.8 (0.55)			
Sex																
Male	24,107 (225.2)	64.6 (0.38)	47.7 (0.40)	80.7 (0.39)	66.8 (0.47)	64.1 (0.48)	5.3 (0.22)	50.5 (0.50)	49.9 (0.50)	16.1 (0.44)	31.4 (0.65)	20.2 (0.56)	17.0 (0.52)			
Elementary/secondary⁶	17,519 (195.3)	58.4 (0.44)	42.2 (0.44)	76.6 (0.49)	57.2 (0.58)	67.5 (0.54)	2.1 (0.17)	39.4 (0.57)	39.3 (0.57)	7.6 (0.40)	15.4 (0.74)	5.6 (0.47)	6.4 (0.50)			
3 and 4 years old	591 (37.4)	24.2 (1.34)	7.2 (0.81)	26.9 (2.81)	23.7 (2.69)	66.4 (2.99)	† (†)	11.4 (2.01)	8.7 (1.79)	— (†)	— (†)	— (†)	— (†)			
5 to 9 years old	4,051 (97.0)	41.8 (0.77)	25.1 (0.68)	50.4 (1.21)	30.2 (1.11)	66.8 (1.14)	1.2 (0.27)	18.9 (0.95)	17.8 (0.93)	— (†)	— (†)	— (†)	— (†)			
10 to 14 years old	7,233 (128.7)	68.1 (0.70)	51.9 (0.75)	84.0 (0.66)	58.0 (0.89)	68.9 (0.84)	1.4 (0.21)	37.6 (0.88)	38.1 (0.88)	4.6 (0.48)	— (†)	— (†)	— (†)			
15 years old and over	5,645 (114.1)	77.9 (0.75)	62.8 (0.87)	91.2 (0.58)	79.1 (0.83)	66.3 (0.97)	3.9 (0.40)	59.5 (1.01)	59.6 (1.01)	9.9 (0.61)	15.4 (0.74)	5.6 (0.47)	6.4 (0.50)			
College	6,587 (123.0)	90.0 (0.54)	70.2 (0.82)	91.4 (0.53)	92.3 (0.51)	55.1 (0.94)	13.6 (0.65)	79.8 (0.76)	77.9 (0.79)	29.2 (0.86)	45.0 (0.94)	32.7 (0.89)	26.0 (0.83)			

See notes at end of table.

Table 426. Use of the Internet by persons 3 years old and over, by type of use and selected characteristics of students and other users: 2003—Continued

Selected characteristic	Number of persons using the Internet (in thousands)	Percent using the Internet anywhere	Percent using the Internet at school	Percent of internet users using the Internet for various activities during the year ¹										
				School assignments	E-mail and messaging	Playing games	Online courses	Product purchases and information	News, weather, and sports	Health information ²	Government information ³	Conduct financial transactions ^{3,4}	Look for jobs ⁵	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Female	25,413 (230.4)	67.6 (0.37)	49.9 (0.40)	83.6 (0.36)	73.3 (0.43)	54.7 (0.48)	6.5 (0.24)	49.1 (0.48)	43.4 (0.48)	23.8 (0.48)	34.1 (0.62)	20.7 (0.53)	18.6 (0.51)	
Elementary/secondary ⁶	17,117 (193.2)	60.5 (0.45)	44.4 (0.45)	79.3 (0.48)	64.0 (0.56)	60.8 (0.57)	1.9 (0.16)	34.8 (0.56)	32.6 (0.55)	11.1 (0.48)	16.2 (0.77)	5.7 (0.48)	7.6 (0.56)	
3 and 4 years old....	472 (33.4)	21.9 (1.37)	8.0 (0.90)	32.5 (3.32)	26.8 (3.14)	60.0 (3.47)	‡ (†)	14.3 (2.48)	8.3 (1.95)	— (†)	— (†)	— (†)	— (†)	
5 to 9 years old.....	4,065 (97.2)	43.7 (0.79)	27.1 (0.71)	52.9 (1.21)	36.3 (1.16)	62.9 (1.17)	0.7 (0.20)	15.7 (0.88)	15.1 (0.86)	— (†)	— (†)	— (†)	— (†)	
10 to 14 years old....	7,189 (128.3)	70.7 (0.69)	54.9 (0.76)	87.3 (0.60)	66.9 (0.85)	63.3 (0.87)	0.7 (0.15)	30.9 (0.84)	32.9 (0.85)	7.1 (0.57)	— (†)	— (†)	— (†)	
15 years old and over	5,390 (111.6)	81.2 (0.74)	64.5 (0.90)	92.6 (0.55)	84.1 (0.77)	56.0 (1.04)	4.4 (0.43)	56.1 (1.04)	47.4 (1.05)	14.6 (0.74)	16.2 (0.77)	5.7 (0.48)	7.6 (0.56)	
College	8,297 (137.5)	89.0 (0.50)	66.4 (0.75)	92.4 (0.45)	92.4 (0.45)	42.0 (0.83)	15.9 (0.62)	78.8 (0.69)	65.7 (0.80)	39.4 (0.83)	45.8 (0.84)	30.4 (0.78)	25.7 (0.74)	
Race/ethnicity														
White	34,066 (260.6)	73.4 (0.32)	54.0 (0.36)	82.6 (0.32)	74.0 (0.37)	60.1 (0.41)	6.0 (0.20)	52.9 (0.42)	48.8 (0.42)	20.8 (0.40)	34.6 (0.55)	21.9 (0.48)	16.7 (0.43)	
Elementary/secondary ⁶	23,592 (223.1)	67.1 (0.39)	48.7 (0.41)	78.2 (0.41)	65.1 (0.48)	65.7 (0.48)	1.9 (0.14)	39.9 (0.49)	38.0 (0.49)	9.5 (0.38)	17.3 (0.68)	6.7 (0.45)	5.8 (0.42)	
3 and 4 years old....	769 (42.6)	26.8 (1.27)	7.2 (0.74)	23.9 (2.37)	24.1 (2.37)	63.5 (2.67)	‡ (†)	9.9 (1.66)	6.5 (1.37)	— (†)	— (†)	— (†)	— (†)	
5 to 9 years old.....	5,557 (113.2)	49.6 (0.73)	30.4 (0.67)	49.7 (1.03)	35.4 (0.99)	65.5 (0.98)	0.9 (0.19)	17.4 (0.78)	17.2 (0.78)	— (†)	— (†)	— (†)	— (†)	
10 to 14 years old....	9,836 (149.1)	78.2 (0.57)	60.4 (0.67)	87.4 (0.52)	68.5 (0.72)	67.8 (0.72)	0.8 (0.14)	37.0 (0.75)	37.6 (0.75)	5.4 (0.44)	— (†)	— (†)	— (†)	
15 years old and over	7,430 (130.4)	87.4 (0.55)	69.6 (0.77)	92.9 (0.46)	87.2 (0.60)	63.4 (0.86)	4.1 (0.36)	63.5 (0.86)	57.4 (0.88)	12.9 (0.60)	17.3 (0.68)	6.7 (0.45)	5.8 (0.42)	
College	10,475 (153.6)	92.7 (0.38)	70.3 (0.66)	92.4 (0.40)	94.0 (0.36)	47.5 (0.75)	15.4 (0.54)	82.3 (0.57)	73.1 (0.67)	35.7 (0.72)	46.8 (0.75)	32.7 (0.71)	24.4 (0.65)	
Black	5,810 (110.1)	53.0 (0.78)	40.8 (0.77)	82.6 (0.81)	57.4 (1.06)	61.5 (1.05)	5.9 (0.51)	41.9 (1.06)	39.3 (1.05)	18.8 (0.99)	28.2 (1.33)	12.7 (0.99)	22.8 (1.24)	
Elementary/secondary ⁶	4,137 (96.7)	46.6 (0.87)	36.2 (0.83)	79.1 (1.04)	46.8 (1.27)	64.9 (1.21)	2.0 (0.36)	31.0 (1.18)	31.2 (1.18)	8.7 (0.92)	11.7 (1.42)	1.6 (0.55)	11.5 (1.41)	
3 and 4 years old....	103 (16.6)	15.0 (2.24)	7.2 (1.62)	51.6 (8.06)	32.5 (7.55)	56.8 (7.99)	‡ (†)	35.3 (7.70)	20.0 (6.45)	— (†)	— (†)	— (†)	— (†)	
5 to 9 years old.....	925 (48.9)	33.1 (1.46)	21.5 (1.27)	58.2 (2.65)	27.1 (2.39)	65.6 (2.56)	0.6 (0.40)	20.0 (2.15)	16.3 (1.99)	— (†)	— (†)	— (†)	— (†)	
10 to 14 years old....	1,732 (65.8)	53.6 (1.44)	42.7 (1.42)	83.8 (1.45)	45.5 (1.96)	68.6 (1.83)	2.1 (0.57)	29.0 (1.79)	31.6 (1.83)	8.2 (1.33)	— (†)	— (†)	— (†)	
15 years old and over	1,377 (59.1)	63.6 (1.69)	54.5 (1.75)	89.2 (1.37)	62.7 (2.13)	60.4 (2.16)	3.1 (0.76)	40.5 (2.17)	41.6 (2.17)	9.2 (1.27)	11.7 (1.42)	1.6 (0.55)	11.5 (1.41)	
College	1,673 (64.8)	80.0 (1.43)	60.7 (1.75)	91.4 (1.12)	83.5 (1.48)	53.0 (2.00)	15.4 (1.45)	68.9 (1.85)	59.4 (1.97)	33.9 (1.89)	41.9 (1.97)	21.8 (1.65)	32.2 (1.87)	
Hispanic	5,862 (116.2)	49.1 (0.80)	34.9 (0.76)	77.6 (0.95)	58.0 (1.13)	53.3 (1.14)	4.9 (0.49)	38.7 (1.11)	38.1 (1.11)	16.2 (1.02)	27.3 (1.47)	15.9 (1.21)	18.6 (1.29)	
Elementary/secondary ⁶	4,517 (105.7)	44.2 (0.86)	31.2 (0.80)	74.5 (1.13)	49.1 (1.30)	56.1 (1.29)	2.8 (0.43)	29.1 (1.18)	30.3 (1.19)	8.6 (0.95)	13.9 (1.58)	3.7 (0.87)	9.0 (1.31)	
3 and 4 years old....	114 (18.6)	15.6 (2.35)	7.2 (1.67)	41.4 (8.08)	16.2 (6.04)	71.0 (7.44)	‡ (†)	7.0 (4.19)	10.6 (5.04)	— (†)	— (†)	— (†)	— (†)	
5 to 9 years old.....	1,095 (56.5)	30.3 (1.33)	17.9 (1.11)	53.6 (2.63)	26.6 (2.33)	59.9 (2.59)	1.8 (0.70)	15.2 (1.89)	15.5 (1.91)	— (†)	— (†)	— (†)	— (†)	
10 to 14 years old....	1,855 (72.3)	51.9 (1.46)	38.7 (1.42)	78.5 (1.67)	48.2 (2.03)	54.9 (2.02)	1.4 (0.48)	25.5 (1.77)	28.1 (1.82)	6.5 (1.23)	— (†)	— (†)	— (†)	
15 years old and over	1,454 (64.5)	63.2 (1.76)	47.9 (1.82)	87.6 (1.51)	69.8 (2.10)	53.7 (2.28)	5.3 (1.02)	45.8 (2.28)	45.8 (2.28)	10.3 (1.39)	13.9 (1.58)	3.7 (0.87)	9.0 (1.31)	
College	1,344 (62.2)	78.4 (1.74)	56.9 (2.09)	88.2 (1.54)	88.1 (1.54)	43.9 (2.36)	12.0 (1.55)	71.2 (2.16)	64.2 (2.28)	31.5 (2.21)	41.8 (2.35)	29.0 (2.16)	29.0 (2.16)	
Family income ⁵														
Less than \$10,000	2,642 (84.7)	51.9 (1.22)	41.1 (1.21)	81.4 (1.32)	64.0 (1.63)	56.0 (1.69)	7.9 (0.92)	51.9 (1.70)	50.3 (1.70)	27.1 (1.71)	39.2 (2.07)	25.4 (1.85)	32.9 (1.99)	
\$10,000 to \$19,999.....	3,477 (95.2)	52.8 (1.07)	41.8 (1.06)	82.2 (1.13)	60.8 (1.45)	52.5 (1.48)	6.9 (0.75)	46.7 (1.48)	42.6 (1.46)	22.6 (1.44)	37.2 (1.90)	19.8 (1.57)	21.4 (1.62)	
\$20,000 to \$29,999.....	4,226 (103.0)	55.8 (1.00)	42.8 (0.99)	79.7 (1.08)	64.5 (1.29)	56.5 (1.33)	6.8 (0.68)	47.3 (1.34)	43.4 (1.33)	22.8 (1.32)	35.4 (1.75)	19.3 (1.44)	21.7 (1.51)	
\$30,000 to \$39,999.....	4,860 (108.7)	62.8 (0.96)	45.1 (0.99)	78.5 (1.03)	66.8 (1.18)	60.9 (1.22)	6.6 (0.62)	45.1 (1.25)	41.4 (1.23)	20.5 (1.23)	31.9 (1.68)	20.7 (1.46)	19.1 (1.41)	
\$40,000 to \$49,999.....	3,812 (98.9)	69.0 (1.09)	49.7 (1.17)	80.2 (1.13)	65.5 (1.35)	60.1 (1.39)	5.5 (0.64)	48.2 (1.41)	41.2 (1.39)	18.7 (1.33)	28.2 (1.82)	17.4 (1.53)	14.8 (1.43)	
\$50,000 to \$74,999.....	9,038 (130.9)	72.1 (0.70)	51.6 (0.78)	82.0 (0.71)	71.5 (0.83)	60.9 (0.90)	5.0 (0.40)	49.9 (0.92)	46.9 (0.92)	20.2 (0.88)	35.0 (1.23)	20.5 (1.04)	17.2 (0.98)	
\$75,000 or more	14,314 (132.1)	79.5 (0.53)	57.3 (0.64)	84.3 (0.53)	76.2 (0.62)	61.9 (0.71)	5.9 (0.34)	54.0 (0.73)	51.3 (0.73)	18.6 (0.69)	32.9 (0.97)	22.4 (0.86)	14.6 (0.73)	

—Not available.

†Not applicable.

‡Reporting standards not met.

¹Individuals may be counted in more than one internet activity.

²Data are for persons 12 years old and over.

³Data are for persons 15 years old and over.

⁴Includes online banking and stock and securities transactions.

⁵Excludes persons whose income data were not available.

⁶Includes prekindergarten through grade 12.

NOTE: Data are based on a sample survey of households and are subject to sampling and nonsampling error. Race categories exclude persons of Hispanic ethnicity. Detail may not sum to totals because of rounding. Standard errors appear in parentheses. SOURCE: U.S. Department of Commerce, Census Bureau, Current Population Survey (CPS), October 2003, unpublished tabulations. (This table was prepared May 2005.)

Table 427. Number and percentage of home computer users, by type of application and selected characteristics: 1997 and 2003

Selected characteristic	1997				2003											
	Number of home computer users (in thousands)		Percent of persons using computers at home		Number of home computer users (in thousands)		Percent of persons using computers at home		Percent of home computer users using specific applications ¹							
									Word processing	Connect to Internet	E-mail	Spreadsheets/databases ²	Graphics/design ²	School assignments ³	Household records/finances ²	Games
1	2	3	4	5	6	7	8	9	10	11	12	13				
Total, age 3 and over	81,013 (600.0)	31.7 (0.16)	156,744 (954.0)	56.9 (0.16)	53.1 (0.22)	82.7 (0.17)	72.7 (0.19)	32.0 (0.23)	37.6 (0.24)	75.9 (0.29)	30.8 (0.22)	58.5 (0.22)				
Sex																
Male.....	41,260 (412.6)	33.1 (0.22)	76,777 (637.8)	57.2 (0.22)	49.5 (0.30)	82.4 (0.23)	70.5 (0.27)	33.7 (0.32)	39.5 (0.33)	73.9 (0.42)	31.6 (0.31)	61.5 (0.29)				
Female.....	39,753 (384.7)	30.3 (0.20)	79,967 (627.8)	56.7 (0.21)	56.7 (0.28)	83.0 (0.21)	74.8 (0.24)	30.3 (0.29)	35.9 (0.30)	77.8 (0.39)	30.1 (0.29)	55.6 (0.28)				
Race/ethnicity																
White.....	68,026 (543.7)	36.9 (0.19)	119,495 (801.4)	63.7 (0.19)	53.9 (0.25)	84.9 (0.18)	75.4 (0.22)	32.6 (0.26)	38.6 (0.27)	75.4 (0.34)	31.8 (0.26)	58.0 (0.25)				
Black.....	4,943 (136.3)	15.6 (0.36)	13,457 (254.7)	40.8 (0.48)	50.5 (0.76)	74.4 (0.67)	62.5 (0.74)	26.8 (0.77)	33.4 (0.82)	79.3 (0.89)	26.9 (0.78)	64.8 (0.73)				
Hispanic.....	4,081 (139.0)	14.5 (0.41)	13,497 (300.2)	35.8 (0.49)	46.6 (0.85)	72.4 (0.76)	59.4 (0.83)	27.8 (0.90)	31.4 (0.93)	74.9 (0.97)	25.1 (0.87)	59.5 (0.83)				
Other.....	3,963 (136.6)	34.8 (0.88)	10,296 (248.9)	60.7 (0.74)	56.3 (0.96)	81.1 (0.76)	71.6 (0.88)	36.4 (1.06)	39.3 (1.07)	76.7 (1.14)	31.4 (1.02)	54.2 (0.97)				
Age																
3 to 14.....	18,774 (249.8)	39.1 (0.39)	30,772 (330.0)	62.6 (0.38)	37.9 (0.48)	57.6 (0.49)	34.5 (0.47)	— (†)	— (†)	61.9 (0.44)	— (†)	86.0 (0.34)				
15 and over.....	62,239 (505.5)	30.0 (0.17)	125,972 (813.4)	55.7 (0.18)	56.8 (0.24)	88.8 (0.15)	82.0 (0.19)	32.0 (0.23)	37.6 (0.24)	92.8 (0.29)	30.8 (0.22)	51.8 (0.24)				
15 to 19.....	8,395 (162.3)	43.1 (0.61)	14,656 (218.2)	72.2 (0.54)	68.9 (0.66)	86.6 (0.49)	77.9 (0.59)	23.2 (0.60)	43.8 (0.71)	93.1 (0.34)	6.2 (0.34)	72.4 (0.64)				
20 to 24.....	4,975 (123.7)	28.5 (0.59)	11,848 (194.7)	59.6 (0.60)	63.7 (0.76)	86.4 (0.54)	80.6 (0.63)	29.9 (0.73)	40.9 (0.78)	94.5 (0.53)	20.5 (0.64)	61.9 (0.77)				
25 to 29.....	5,963 (135.8)	31.7 (0.59)	11,059 (187.7)	59.0 (0.62)	56.0 (0.82)	88.5 (0.52)	83.7 (0.61)	36.2 (0.79)	42.1 (0.81)	94.2 (0.96)	37.1 (0.79)	54.2 (0.82)				
30 to 39.....	15,393 (224.1)	35.8 (0.40)	26,407 (302.3)	64.0 (0.41)	54.3 (0.53)	89.7 (0.32)	83.3 (0.40)	35.5 (0.51)	40.6 (0.52)	89.0 (1.26)	37.6 (0.52)	50.4 (0.53)				
40 to 49.....	15,346 (223.7)	38.3 (0.42)	27,660 (310.4)	62.3 (0.40)	55.4 (0.52)	90.1 (0.31)	82.7 (0.39)	35.3 (0.50)	37.3 (0.50)	88.6 (1.67)	37.5 (0.50)	47.3 (0.52)				
50 to 59.....	7,679 (154.9)	28.5 (0.48)	19,976 (258.5)	57.2 (0.46)	55.4 (0.61)	90.7 (0.35)	83.4 (0.45)	32.5 (0.57)	33.6 (0.58)	90.0 (2.49)	34.4 (0.58)	41.9 (0.60)				
60 to 69.....	3,162 (98.1)	16.2 (0.46)	9,233 (170.6)	41.8 (0.57)	51.8 (0.90)	87.9 (0.59)	81.9 (0.69)	28.5 (0.81)	29.0 (0.82)	69.8 (9.14)	31.8 (0.84)	44.3 (0.89)				
70 or older.....	1,327 (63.2)	5.9 (0.27)	5,134 (125.7)	20.9 (0.45)	43.9 (1.20)	84.5 (0.87)	78.1 (1.00)	20.5 (0.97)	20.6 (0.98)	‡ (†)	25.4 (1.05)	47.0 (1.20)				
Family income⁴																
Under \$20,000.....	7,374 (151.6)	11.0 (0.21)	11,951 (195.6)	28.6 (0.38)	48.5 (0.79)	70.1 (0.72)	59.9 (0.77)	23.2 (0.75)	31.5 (0.83)	78.5 (0.85)	22.5 (0.75)	64.4 (0.76)				
\$20,000 to \$29,999.....	7,819 (156.3)	19.9 (0.35)	12,136 (197.2)	41.4 (0.50)	47.7 (0.78)	74.0 (0.69)	64.5 (0.75)	25.6 (0.77)	32.4 (0.82)	74.8 (1.02)	24.7 (0.76)	63.6 (0.75)				
\$30,000 to \$39,999.....	10,370 (181.4)	28.5 (0.41)	15,176 (222.4)	52.4 (0.51)	45.6 (0.70)	78.9 (0.57)	68.7 (0.65)	24.9 (0.68)	31.8 (0.73)	72.8 (0.95)	27.1 (0.70)	62.8 (0.68)				
\$40,000 to \$49,999.....	9,627 (174.4)	36.9 (0.52)	13,300 (207.1)	63.4 (0.57)	50.1 (0.75)	81.9 (0.58)	71.6 (0.68)	28.5 (0.75)	35.6 (0.80)	74.9 (1.03)	28.8 (0.76)	61.5 (0.73)				
\$50,000 to \$74,999.....	21,685 (270.5)	46.5 (0.40)	31,581 (335.0)	70.8 (0.37)	51.9 (0.49)	85.6 (0.34)	74.8 (0.42)	30.8 (0.50)	37.4 (0.52)	74.9 (0.66)	30.5 (0.50)	59.3 (0.48)				
\$75,000 or more.....	24,138 (287.3)	60.3 (0.42)	48,583 (433.0)	82.5 (0.27)	61.3 (0.38)	89.7 (0.24)	79.8 (0.31)	41.2 (0.43)	45.1 (0.43)	77.0 (0.51)	37.8 (0.42)	55.0 (0.39)				

—Not available.

†Not applicable.

‡Reporting standards not met.

¹Individuals may be counted in more than one computer activity.

²Data are for persons 15 years old and over.

³Data are for students only.

⁴Excludes persons whose income data were not available.

NOTE: Excludes persons under age 3. Race categories exclude persons of Hispanic ethnicity. Detail may not sum to totals because of rounding. Standard errors appear in parentheses.

SOURCE: U.S. Department of Commerce, Census Bureau, Current Population Survey (CPS), October 1997 and October 2003, unpublished tabulations. (This table was prepared August 2004.)

Table 428. Number and percentage of student home computer users, by type of application and selected characteristics: 2003

Selected characteristic of students	Number (in thousands)	Number using computers at home (in thousands)	Percent using computers at home	Percent of home computer users using specific applications ¹							
				Games	Internet	School assignments	E-mail	Word processing	Graphics and design	Spreadsheets and databases	Personal finances
				5	6	7	8	9	10	11	12
1	2	3	4	5	6	7	8	9	10	11	12
Total, all students	74,911 (312.9)	52,942 (286.3)	70.7 (0.24)	76.2 (0.27)	72.3 (0.28)	75.9 (0.27)	56.5 (0.31)	55.1 (0.32)	— (†)	— (†)	— (†)
Elementary/secondary.....	58,273 (324.9)	39,364 (282.0)	67.6 (0.30)	82.8 (0.30)	66.0 (0.37)	69.9 (0.36)	46.2 (0.39)	46.8 (0.39)	— (†)	— (†)	— (†)
Under age 5	4,590 (105.0)	2,291 (74.6)	49.9 (1.16)	84.3 (1.19)	29.2 (1.49)	15.1 (1.17)	8.9 (0.93)	9.4 (0.96)	— (†)	— (†)	— (†)
Ages 5 to 9.....	19,015 (206.6)	11,887 (166.1)	62.5 (0.55)	87.6 (0.47)	45.9 (0.72)	42.0 (0.71)	18.8 (0.56)	22.6 (0.60)	— (†)	— (†)	— (†)
Ages 10 to 14.....	20,788 (215.0)	14,875 (184.5)	71.6 (0.49)	85.3 (0.45)	74.1 (0.56)	85.1 (0.46)	53.0 (0.64)	56.5 (0.64)	— (†)	— (†)	— (†)
15 years old or over.....	13,880 (165.7)	10,311 (144.2)	74.3 (0.54)	73.4 (0.64)	85.8 (0.50)	92.4 (0.38)	76.3 (0.61)	69.1 (0.66)	43.1 (0.71)	21.1 (0.59)	4.5 (0.30)
White.....	8,500 (131.6)	7,186 (121.4)	84.5 (0.57)	75.3 (0.74)	90.2 (0.51)	93.3 (0.43)	81.5 (0.67)	72.1 (0.77)	46.3 (0.86)	22.1 (0.71)	4.7 (0.36)
Black.....	2,164 (68.8)	1,073 (49.7)	49.6 (1.67)	73.5 (2.09)	73.6 (2.09)	90.3 (1.40)	60.7 (2.31)	59.0 (2.33)	38.9 (2.31)	15.9 (1.73)	3.5 (0.88)
Hispanic.....	2,298 (75.0)	1,280 (57.5)	55.7 (1.72)	68.2 (2.16)	72.0 (2.08)	87.8 (1.51)	60.8 (2.26)	59.9 (2.27)	30.0 (2.12)	18.2 (1.78)	6.1 (1.11)
Other.....	918 (45.9)	771 (42.2)	83.9 (1.88)	64.5 (2.68)	83.7 (2.07)	94.3 (1.30)	75.3 (2.41)	69.9 (2.57)	41.4 (2.75)	24.2 (2.40)	2.2 (0.82)
Undergraduate.....	13,370 (162.9)	10,701 (146.8)	80.0 (0.50)	60.5 (0.69)	89.6 (0.43)	92.8 (0.37)	84.8 (0.51)	77.1 (0.59)	46.5 (0.70)	36.8 (0.68)	21.4 (0.58)
White.....	8,964 (135.0)	7,551 (124.4)	84.2 (0.56)	60.8 (0.82)	91.1 (0.48)	93.0 (0.43)	86.5 (0.57)	78.7 (0.69)	48.9 (0.84)	37.8 (0.81)	21.1 (0.69)
Black.....	1,766 (62.8)	1,151 (51.4)	65.2 (1.76)	62.1 (2.22)	83.2 (1.71)	91.1 (1.30)	77.0 (1.93)	72.4 (2.05)	37.7 (2.22)	32.0 (2.13)	23.0 (1.93)
Hispanic.....	1,544 (62.7)	1,102 (53.6)	71.4 (1.91)	56.8 (2.47)	86.7 (1.69)	92.1 (1.34)	80.5 (1.98)	68.6 (2.32)	38.8 (2.43)	33.4 (2.35)	19.8 (1.99)
Other.....	1,095 (49.9)	898 (45.4)	82.0 (1.80)	61.5 (2.52)	89.5 (1.59)	94.0 (1.23)	86.3 (1.78)	80.3 (2.06)	47.3 (2.59)	39.4 (2.53)	23.7 (2.20)
Graduate.....	3,268 (66.0)	2,876 (64.1)	88.0 (0.83)	43.6 (1.35)	93.7 (0.66)	94.6 (0.61)	91.7 (0.75)	86.1 (0.94)	52.2 (1.36)	56.2 (1.35)	45.4 (1.36)
Males.....	37,323 (253.4)	26,168 (219.6)	70.1 (0.35)	80.1 (0.36)	71.2 (0.41)	73.9 (0.40)	53.0 (0.45)	51.7 (0.45)	— (†)	— (†)	— (†)
Elementary/secondary.....	30,005 (252.4)	20,050 (211.6)	66.8 (0.43)	84.9 (0.40)	65.3 (0.53)	68.3 (0.51)	43.1 (0.55)	44.2 (0.55)	— (†)	— (†)	— (†)
Under age 5	2,437 (76.9)	1,222 (54.6)	50.2 (1.59)	85.3 (1.59)	30.3 (2.06)	14.9 (1.60)	10.7 (1.38)	9.1 (1.29)	— (†)	— (†)	— (†)
Ages 5 to 9.....	9,703 (150.9)	6,060 (120.3)	62.5 (0.77)	88.5 (0.64)	44.6 (1.00)	40.7 (0.99)	16.6 (0.75)	20.9 (0.82)	— (†)	— (†)	— (†)
Ages 10 to 14.....	10,622 (157.5)	7,453 (132.9)	70.2 (0.70)	87.5 (0.60)	73.9 (0.80)	83.3 (0.68)	48.0 (0.91)	53.0 (0.91)	— (†)	— (†)	— (†)
15 years old or over.....	7,243 (121.9)	5,313 (104.9)	73.4 (0.76)	77.1 (0.84)	84.8 (0.72)	90.9 (0.58)	73.8 (0.88)	66.4 (0.95)	43.3 (0.99)	21.0 (0.82)	4.2 (0.40)
Undergraduate.....	5,902 (110.4)	4,859 (100.5)	82.3 (0.72)	68.6 (0.97)	89.7 (0.64)	91.7 (0.58)	84.0 (0.77)	75.1 (0.91)	50.2 (1.05)	37.6 (1.01)	22.3 (0.87)
Graduate.....	1,416 (54.7)	1,259 (51.6)	88.9 (1.22)	48.9 (2.06)	93.8 (0.99)	94.1 (0.97)	91.6 (1.14)	81.2 (1.61)	53.0 (2.05)	58.3 (2.03)	46.9 (2.05)
Females.....	37,588 (254.1)	26,774 (221.7)	71.2 (0.34)	72.3 (0.40)	73.4 (0.39)	77.8 (0.37)	59.8 (0.44)	58.4 (0.44)	— (†)	— (†)	— (†)
Elementary/secondary.....	28,269 (246.1)	19,315 (208.0)	68.3 (0.43)	80.7 (0.45)	66.8 (0.53)	71.6 (0.51)	49.4 (0.56)	49.5 (0.56)	— (†)	— (†)	— (†)
Under age 5	2,154 (72.3)	1,069 (51.1)	49.6 (1.69)	83.2 (1.79)	28.0 (2.15)	15.3 (1.72)	6.8 (1.21)	9.8 (1.43)	— (†)	— (†)	— (†)
Ages 5 to 9.....	9,312 (147.9)	5,827 (118.0)	62.6 (0.79)	86.7 (0.70)	47.1 (1.02)	43.3 (1.02)	21.0 (0.84)	24.4 (0.88)	— (†)	— (†)	— (†)
Ages 10 to 14.....	10,166 (154.3)	7,422 (132.7)	73.0 (0.69)	83.1 (0.68)	74.4 (0.79)	86.8 (0.62)	57.9 (0.90)	60.0 (0.89)	— (†)	— (†)	— (†)
15 years old or over.....	6,637 (116.9)	4,997 (101.9)	75.3 (0.77)	69.6 (0.95)	86.7 (0.70)	94.0 (0.49)	78.9 (0.84)	71.8 (0.93)	42.9 (1.02)	21.3 (0.85)	4.9 (0.45)
Undergraduate.....	7,468 (123.7)	5,842 (109.9)	78.2 (0.70)	53.9 (0.95)	89.6 (0.58)	93.7 (0.47)	85.5 (0.67)	78.8 (0.78)	43.4 (0.95)	36.2 (0.92)	20.6 (0.77)
Graduate.....	1,852 (62.5)	1,617 (58.5)	87.3 (1.13)	39.5 (1.77)	93.5 (0.89)	95.1 (0.78)	91.8 (0.99)	90.0 (1.09)	51.5 (1.81)	54.5 (1.81)	44.3 (1.80)

—Not available.

†Not applicable.

¹Individuals may be counted in more than one computer activity.

NOTE: Estimates as of October 1. Race categories exclude persons of Hispanic ethnicity. Detail may not sum to totals because of rounding. Standard errors appear in parentheses.

SOURCE: U.S. Department of Commerce, Census Bureau, Current Population Survey (CPS), October 2003, unpublished tabulations. (This table was prepared May 2005.)

Table 429. Student use of computers, by level of enrollment, age, and student and school characteristics: 1993, 1997, and 2003

Student and school characteristic	1993			1997			2003						
	Total	Elementary and secondary ¹	College ²	Total	Elementary and secondary ¹	College ²	Total	Elementary and secondary ¹				College ²	
								Total	Under 5 years old	5 to 9 years old	10 to 14 years old		15 years old or over
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Percent of students using computers at school													
Total	59.0 (0.32)	60.1 (0.38)	54.7 (0.71)	68.8 (0.27)	70.4 (0.32)	62.9 (0.60)	83.8 (0.20)	83.5 (0.24)	42.6 (1.14)	80.1 (0.45)	90.3 (0.32)	91.2 (0.35)	84.9 (0.41)
Sex													
Male	59.4 (0.44)	59.9 (0.53)	57.4 (1.04)	70.1 (0.37)	71.0 (0.44)	66.3 (0.88)	83.7 (0.28)	83.4 (0.34)	43.5 (1.57)	79.7 (0.64)	90.1 (0.45)	91.8 (0.47)	85.3 (0.60)
Female	58.7 (0.45)	60.5 (0.54)	52.4 (0.96)	67.6 (0.38)	69.9 (0.46)	60.2 (0.81)	83.8 (0.28)	83.5 (0.35)	41.5 (1.66)	80.7 (0.64)	90.6 (0.45)	90.5 (0.53)	84.6 (0.55)
Race/ethnicity													
White	61.6 (0.37)	63.8 (0.45)	54.0 (0.81)	71.1 (0.32)	73.9 (0.38)	62.1 (0.70)	85.0 (0.24)	84.9 (0.30)	41.1 (1.44)	82.5 (0.56)	92.4 (0.37)	91.9 (0.43)	85.0 (0.49)
Black	51.5 (0.98)	50.6 (0.98)	57.0 (2.54)	66.3 (0.74)	66.1 (0.75)	66.8 (1.78)	82.7 (0.56)	82.5 (0.67)	49.4 (3.18)	78.5 (1.30)	88.0 (0.95)	89.9 (1.01)	83.8 (1.25)
Hispanic	52.3 (1.50)	52.3 (1.16)	52.1 (4.06)	61.5 (0.89)	61.3 (0.69)	62.6 (2.38)	80.3 (0.60)	79.8 (0.71)	39.5 (3.22)	75.6 (1.27)	86.8 (1.01)	88.5 (1.10)	83.0 (1.50)
Other	59.0 (2.24)	57.7 (2.50)	62.7 (4.20)	65.3 (1.32)	65.6 (1.45)	64.6 (2.56)	83.3 (0.77)	81.7 (1.01)	48.9 (4.78)	76.3 (1.89)	86.1 (1.54)	94.1 (1.20)	87.6 (1.30)
Family income ³													
Less than \$5,000	51.2 (1.32)	48.1 (1.50)	62.4 (2.73)	62.1 (1.21)	61.6 (1.41)	63.4 (2.36)	80.9 (1.87)	79.5 (2.31)	42.4 (9.47)	78.3 (3.82)	86.9 (3.39)	86.5 (4.37)	83.8 (3.12)
\$5,000 to \$9,999	53.3 (1.06)	53.1 (1.17)	54.3 (2.51)	63.5 (1.02)	61.9 (1.14)	70.4 (2.20)	84.4 (1.43)	82.4 (1.74)	49.2 (7.71)	77.8 (3.30)	91.3 (2.18)	88.3 (3.04)	90.1 (2.35)
\$10,000 to \$14,999	56.4 (1.03)	56.7 (1.13)	55.1 (2.50)	66.2 (0.96)	66.4 (1.06)	65.2 (2.26)	81.7 (1.37)	80.0 (1.61)	50.1 (7.20)	74.1 (3.11)	84.6 (2.41)	90.4 (2.40)	88.0 (2.48)
\$15,000 to \$19,999	58.1 (1.18)	59.4 (1.30)	52.3 (2.77)	65.9 (1.10)	66.5 (1.21)	63.2 (2.72)	81.3 (1.57)	79.8 (1.84)	26.6 (7.08)	77.0 (3.27)	89.1 (2.38)	89.2 (3.09)	86.7 (2.92)
\$20,000 to \$24,999	56.4 (1.07)	56.3 (1.18)	56.6 (2.58)	66.9 (0.99)	67.5 (1.10)	64.3 (2.24)	81.3 (1.41)	80.3 (1.61)	43.7 (7.03)	73.0 (3.00)	88.9 (2.16)	92.6 (2.31)	85.3 (2.81)
\$25,000 to \$29,999	60.0 (1.13)	61.9 (1.25)	52.4 (2.61)	68.5 (1.01)	70.4 (1.11)	61.2 (2.37)	81.9 (1.32)	81.3 (1.48)	35.6 (7.03)	78.0 (2.66)	87.0 (2.21)	90.8 (2.21)	84.4 (2.90)
\$30,000 to \$34,999	59.1 (1.08)	61.3 (1.20)	50.5 (2.46)	67.6 (0.97)	71.0 (1.05)	53.9 (2.31)	82.2 (1.33)	82.5 (1.46)	40.1 (7.16)	78.5 (2.67)	90.6 (1.86)	88.8 (2.59)	80.9 (3.17)
\$35,000 to \$39,999	60.7 (1.11)	63.3 (1.21)	49.0 (2.67)	69.0 (0.98)	71.1 (1.08)	60.4 (2.35)	87.1 (1.17)	87.5 (1.30)	54.8 (7.43)	85.2 (2.37)	94.0 (1.53)	90.4 (2.48)	85.7 (2.69)
\$40,000 to \$49,999	59.3 (0.94)	60.8 (1.04)	53.1 (2.12)	70.5 (0.79)	72.6 (0.85)	60.9 (1.99)	83.5 (1.08)	84.2 (1.18)	47.1 (6.20)	80.0 (2.29)	90.8 (1.56)	90.3 (1.94)	80.4 (2.63)
\$50,000 to \$74,999	62.6 (0.73)	64.9 (0.82)	55.0 (1.58)	71.7 (0.57)	74.2 (0.63)	63.2 (1.28)	83.8 (0.71)	84.0 (0.80)	35.7 (3.64)	80.5 (1.53)	92.6 (0.94)	92.4 (1.21)	83.1 (1.56)
\$75,000 or more	64.6 (0.90)	67.0 (1.04)	58.2 (1.78)	72.1 (0.60)	75.1 (0.68)	63.9 (1.25)	85.6 (0.57)	85.6 (0.65)	39.2 (2.98)	85.3 (1.15)	92.7 (0.81)	93.2 (0.96)	85.8 (1.16)
Control of school													
Public	60.2 (0.34)	61.6 (0.40)	54.0 (0.80)	70.2 (0.28)	72.1 (0.33)	62.3 (0.68)	85.2 (0.21)	85.4 (0.25)	47.7 (1.61)	80.5 (0.48)	90.5 (0.34)	91.2 (0.36)	84.6 (0.46)
Private	52.1 (0.85)	49.8 (1.10)	57.3 (1.52)	60.7 (0.73)	58.6 (0.96)	65.2 (1.27)	75.4 (0.60)	70.5 (0.82)	37.1 (1.61)	77.5 (1.33)	89.1 (1.09)	90.5 (1.36)	86.1 (0.85)
Percent of students using computers at home													
Total	27.0 (0.28)	24.5 (0.33)	36.2 (0.65)	45.1 (0.29)	42.8 (0.34)	53.2 (0.62)	70.7 (0.24)	67.6 (0.30)	49.9 (1.16)	62.5 (0.55)	71.6 (0.49)	74.3 (0.54)	81.6 (0.44)
Sex													
Male	27.4 (0.39)	24.3 (0.45)	40.1 (0.99)	45.2 (0.40)	43.2 (0.48)	53.7 (0.93)	70.1 (0.35)	66.8 (0.43)	50.2 (1.59)	62.5 (0.77)	70.2 (0.70)	73.4 (0.76)	83.6 (0.63)
Female	26.6 (0.39)	24.7 (0.47)	33.0 (0.87)	44.9 (0.40)	42.5 (0.49)	52.8 (0.83)	71.2 (0.34)	68.3 (0.43)	49.6 (1.69)	62.6 (0.79)	73.0 (0.69)	75.3 (0.77)	80.0 (0.60)
Race/ethnicity													
White	32.8 (0.35)	30.8 (0.42)	39.2 (0.76)	54.9 (0.35)	53.9 (0.43)	58.2 (0.72)	80.1 (0.27)	78.3 (0.34)	59.6 (1.43)	74.6 (0.64)	81.8 (0.54)	84.5 (0.57)	85.4 (0.49)
Black	10.9 (0.59)	8.7 (0.54)	22.7 (2.01)	21.1 (0.64)	19.1 (0.62)	31.0 (1.75)	50.2 (0.74)	46.2 (0.88)	31.7 (2.96)	41.6 (1.55)	50.8 (1.46)	49.6 (1.67)	67.5 (1.59)
Hispanic	10.4 (0.90)	7.9 (0.62)	25.0 (3.31)	21.1 (0.74)	18.3 (0.54)	38.8 (2.40)	51.1 (0.76)	47.5 (0.88)	25.8 (2.88)	41.7 (1.46)	52.5 (1.48)	55.7 (1.72)	72.5 (1.79)
Other	28.7 (2.00)	25.8 (2.16)	36.0 (3.99)	49.1 (1.38)	46.5 (1.52)	56.3 (2.66)	74.6 (0.91)	71.3 (1.19)	57.5 (4.73)	61.6 (2.16)	75.7 (1.90)	83.9 (1.88)	83.1 (1.48)

See notes at end of table.

Table 429. Student use of computers, by level of enrollment, age, and student and school characteristics: 1993, 1997, and 2003—Continued

Student and school characteristic	1993			1997			2003						
	Total	Elementary and secondary ¹	College ²	Total	Elementary and secondary ¹	College ²	Total	Elementary and secondary ¹				College ²	
								Total	Under 5 years old	5 to 9 years old	10 to 14 years old		15 years old or over
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Family income³													
Less than \$5,000	9.7 (0.76)	4.3 (0.59)	28.3 (2.43)	22.6 (1.04)	15.2 (1.04)	43.7 (2.43)	44.1 (2.36)	29.8 (2.62)	20.5 (7.74)	29.9 (4.24)	29.5 (4.58)	34.2 (6.07)	75.2 (3.65)
\$5,000 to \$9,999	8.0 (0.56)	4.2 (0.46)	25.0 (2.08)	15.8 (0.77)	9.3 (0.68)	42.9 (2.39)	47.0 (1.97)	36.6 (2.20)	31.0 (7.14)	30.7 (3.66)	41.3 (3.82)	40.1 (4.65)	77.7 (3.27)
\$10,000 to \$14,999	11.4 (0.64)	6.7 (0.56)	33.4 (2.26)	18.4 (0.78)	13.6 (0.77)	39.7 (2.32)	47.0 (1.77)	39.3 (1.96)	36.4 (6.93)	32.8 (3.33)	43.2 (3.31)	42.9 (4.03)	75.2 (3.30)
\$15,000 to \$19,999	15.1 (0.84)	11.2 (0.82)	31.0 (2.44)	20.7 (0.94)	16.5 (0.95)	41.2 (2.77)	48.3 (2.02)	40.8 (2.25)	16.5 (5.95)	33.4 (3.67)	49.1 (3.82)	48.4 (4.97)	74.6 (3.73)
\$20,000 to \$24,999	16.8 (0.79)	13.6 (0.80)	31.0 (2.27)	30.5 (0.97)	26.2 (1.04)	47.5 (2.34)	53.1 (1.80)	46.6 (2.02)	27.1 (6.29)	41.1 (3.33)	52.5 (3.43)	53.9 (4.39)	77.8 (3.29)
\$25,000 to \$29,999	21.1 (0.92)	19.1 (0.99)	29.0 (2.28)	34.6 (1.03)	32.0 (1.13)	45.0 (2.42)	59.0 (1.69)	54.7 (1.89)	40.6 (7.21)	47.7 (3.21)	59.5 (3.22)	61.9 (3.72)	78.3 (3.30)
\$30,000 to \$34,999	24.1 (0.92)	22.6 (1.02)	29.7 (2.15)	38.7 (1.01)	36.1 (1.11)	49.2 (2.32)	64.2 (1.66)	61.5 (1.87)	41.4 (7.19)	54.7 (3.23)	64.9 (3.04)	72.9 (3.66)	76.1 (3.43)
\$35,000 to \$39,999	27.1 (0.99)	24.9 (1.08)	36.1 (2.44)	44.1 (1.06)	42.6 (1.17)	50.5 (2.40)	70.0 (1.60)	67.8 (1.83)	49.0 (7.46)	63.0 (3.23)	71.9 (2.91)	74.6 (3.66)	78.5 (3.16)
\$40,000 to \$49,999	32.2 (0.87)	31.6 (0.98)	34.4 (1.92)	50.6 (0.86)	50.4 (0.95)	51.7 (2.04)	75.9 (1.25)	73.4 (1.43)	54.6 (6.18)	68.9 (2.65)	77.5 (2.24)	78.2 (2.70)	86.6 (2.26)
\$50,000 to \$74,999	43.0 (0.74)	42.9 (0.84)	43.5 (1.52)	61.7 (0.62)	62.2 (0.70)	59.9 (1.30)	81.3 (0.75)	79.5 (0.88)	58.9 (3.74)	74.9 (1.67)	83.8 (1.33)	86.5 (1.56)	87.8 (1.36)
\$75,000 or more	56.1 (0.92)	58.1 (1.08)	50.9 (1.74)	74.2 (0.59)	77.2 (0.66)	65.8 (1.23)	88.6 (0.51)	87.6 (0.61)	66.1 (2.89)	85.3 (1.15)	91.0 (0.89)	94.1 (0.90)	91.7 (0.92)
Control of school													
Public	25.3 (0.29)	23.0 (0.34)	34.5 (0.73)	43.2 (0.31)	40.9 (0.37)	52.4 (0.70)	69.3 (0.27)	66.3 (0.33)	41.1 (1.58)	60.4 (0.59)	70.1 (0.52)	73.1 (0.57)	80.9 (0.50)
Private	37.4 (0.80)	35.0 (1.03)	42.5 (1.45)	56.1 (0.75)	56.1 (0.97)	56.1 (1.32)	78.3 (0.57)	75.6 (0.77)	59.3 (1.63)	77.3 (1.34)	84.7 (1.26)	89.3 (1.43)	84.1 (0.90)
Percent of students using computers at home for school work													
Total	14.8 (0.22)	12.0 (0.25)	25.0 (0.59)	28.6 (0.26)	24.8 (0.30)	42.5 (0.61)	53.6 (0.27)	47.2 (0.32)	7.5 (0.61)	26.2 (0.50)	60.9 (0.53)	68.6 (0.57)	76.0 (0.48)
Sex													
Male	14.7 (0.31)	11.4 (0.34)	28.2 (0.91)	28.3 (0.37)	24.7 (0.42)	43.3 (0.92)	51.8 (0.38)	45.6 (0.45)	7.5 (0.83)	25.4 (0.69)	58.5 (0.75)	66.7 (0.81)	77.1 (0.72)
Female	14.8 (0.32)	12.5 (0.36)	22.4 (0.77)	28.9 (0.37)	24.9 (0.43)	41.9 (0.82)	55.4 (0.37)	48.9 (0.47)	7.6 (0.89)	27.1 (0.72)	63.4 (0.75)	70.8 (0.82)	75.2 (0.65)
Race													
White	18.0 (0.29)	15.1 (0.33)	27.4 (0.70)	35.0 (0.34)	31.3 (0.40)	47.0 (0.72)	60.4 (0.33)	54.1 (0.42)	7.3 (0.76)	29.1 (0.67)	70.5 (0.64)	78.9 (0.65)	79.8 (0.55)
Black	5.7 (0.44)	4.3 (0.39)	13.4 (1.64)	12.5 (0.51)	10.4 (0.48)	22.8 (1.59)	39.8 (0.73)	34.6 (0.84)	8.2 (1.75)	22.5 (1.32)	43.7 (1.45)	44.8 (1.66)	62.2 (1.65)
Hispanic	5.6 (0.68)	3.6 (0.42)	17.8 (2.92)	12.5 (0.60)	9.8 (0.42)	29.2 (2.24)	38.3 (0.74)	33.5 (0.83)	6.7 (1.65)	20.2 (1.19)	42.6 (1.47)	48.9 (1.73)	66.7 (1.89)
Other	15.8 (1.61)	12.4 (1.63)	24.5 (3.57)	33.6 (1.31)	29.3 (1.39)	45.3 (2.67)	57.2 (1.03)	49.4 (1.31)	10.3 (2.91)	26.8 (1.97)	60.9 (2.16)	79.1 (2.08)	77.8 (1.65)
Family income³													
Less than \$5,000	6.6 (0.64)	2.4 (0.45)	21.1 (2.20)	15.1 (0.89)	8.0 (0.79)	35.5 (2.35)	36.5 (2.29)	19.4 (2.27)	4.2 (3.83)	14.4 (3.25)	22.7 (4.21)	30.4 (5.88)	73.8 (3.72)
\$5,000 to \$9,999	4.7 (0.44)	1.5 (0.28)	18.8 (1.88)	10.4 (0.65)	4.2 (0.47)	36.5 (2.32)	36.5 (1.90)	24.1 (1.96)	4.0 (3.01)	14.0 (2.75)	32.3 (3.62)	34.1 (4.49)	72.8 (3.49)
\$10,000 to \$14,999	7.2 (0.52)	3.0 (0.38)	27.1 (2.14)	11.4 (0.64)	6.7 (0.56)	32.4 (2.22)	36.9 (1.71)	27.1 (1.78)	14.3 (5.04)	14.4 (2.49)	34.6 (3.18)	36.8 (3.93)	72.2 (3.42)
\$15,000 to \$19,999	8.5 (0.65)	5.6 (0.60)	20.5 (2.12)	13.2 (0.79)	8.5 (0.72)	36.0 (2.70)	37.2 (1.95)	27.4 (2.04)	0.7 (1.36)	10.8 (2.42)	40.2 (3.75)	42.9 (4.92)	71.5 (3.87)
\$20,000 to \$24,999	9.7 (0.62)	6.3 (0.57)	24.5 (2.11)	19.4 (0.83)	15.0 (0.84)	37.1 (2.26)	40.5 (1.77)	31.9 (1.89)	8.2 (3.89)	18.9 (2.65)	40.7 (3.38)	48.8 (4.40)	73.4 (3.50)
\$25,000 to \$29,999	10.3 (0.69)	7.5 (0.66)	21.4 (2.06)	21.9 (0.90)	18.4 (0.94)	35.7 (2.33)	43.4 (1.70)	36.9 (1.84)	8.3 (4.05)	18.0 (2.47)	48.9 (3.28)	55.2 (3.81)	72.2 (3.58)
\$30,000 to \$34,999	12.9 (0.72)	10.8 (0.75)	20.8 (1.91)	24.4 (0.89)	20.3 (0.93)	40.5 (2.28)	46.8 (1.73)	41.8 (1.89)	8.8 (4.13)	20.4 (2.61)	55.4 (3.17)	64.1 (3.95)	69.0 (3.73)
\$35,000 to \$39,999	15.2 (0.80)	12.9 (0.83)	24.6 (2.20)	26.5 (0.94)	22.8 (0.99)	41.7 (2.37)	50.9 (1.75)	45.5 (1.96)	7.0 (3.82)	25.9 (2.93)	58.4 (3.19)	66.7 (3.96)	71.8 (3.46)
\$40,000 to \$49,999	17.1 (0.70)	15.4 (0.76)	23.3 (1.71)	30.1 (0.79)	28.3 (0.86)	38.5 (1.99)	56.9 (1.44)	51.6 (1.62)	12.9 (4.16)	26.3 (2.52)	67.6 (2.51)	71.4 (2.95)	79.0 (2.70)
\$50,000 to \$74,999	23.1 (0.63)	21.4 (0.70)	28.7 (1.38)	39.3 (0.62)	36.7 (0.70)	48.2 (1.32)	60.9 (0.94)	55.0 (1.09)	4.8 (1.63)	30.2 (1.77)	71.6 (1.62)	81.0 (1.79)	82.4 (1.58)
\$75,000 or more	30.2 (0.85)	29.5 (1.00)	32.0 (1.63)	48.3 (0.67)	47.3 (0.78)	51.3 (1.30)	68.2 (0.75)	62.8 (0.89)	6.5 (1.51)	36.2 (1.56)	83.6 (1.15)	90.0 (1.14)	85.7 (1.16)
Control of school													
Public	14.1 (0.24)	11.7 (0.26)	24.1 (0.66)	27.9 (0.28)	24.5 (0.32)	41.9 (0.69)	53.4 (0.29)	47.8 (0.35)	8.0 (0.87)	25.4 (0.53)	59.2 (0.56)	67.5 (0.60)	75.1 (0.55)
Private	18.5 (0.65)	13.8 (0.75)	28.5 (1.33)	32.6 (0.70)	26.9 (0.87)	44.6 (1.32)	54.7 (0.69)	43.3 (0.89)	7.1 (0.85)	32.3 (1.50)	76.5 (1.48)	83.3 (1.73)	79.3 (1.00)

¹Includes students enrolled in prekindergarten through grade 12, ages 3 and above.

²Includes students enrolled at the undergraduate and postbaccalaureate levels.

³Excludes persons whose income data were not available.

NOTE: Data are based on a sample survey of households and are subject to sampling and nonsampling error. Race categories exclude persons of Hispanic ethnicity. Standard errors appear in parentheses.

SOURCE: U.S. Department of Commerce, Census Bureau, Current Population Survey (CPS), October 1993, October 1997, and October 2003, unpublished tabulations. (This table was prepared May 2005.)

Table 430. Percentage of workers, 18 years old and over, using computers on the job, by type of computer application and selected characteristics: 1993, 1997, and 2003

Selected characteristic	Percent using computers at work, 1993	Percent using computers at work, 1997	2003																				
			Percent using computers at work	Number using computers at work (in thousands)	Percent of on-the-job computer users using specific computer applications ¹									Using 4 or more categories									
					Spreadsheets/databases	Internet/e-mail	Calendar/schedule	Graphics/design	Programming	Word processing/desktop publishing	Other uses only												
1	2	3	4	5	6	7	8	9	10	11	12	13											
Total	45.8	49.4	(0.24)	56.1	(0.19)	76,570	64.4	(0.30)	75.4	(0.27)	57.0	(0.31)	29.7	(0.29)	16.4	(0.23)	67.8	(0.29)	8.2	(0.17)	45.3	(0.31)	
Age																							
18 to 24.....	34.4	37.1	(0.66)	38.5	(0.55)	6,575	56.0	(1.06)	62.1	(1.03)	48.9	(1.07)	21.7	(0.88)	12.4	(0.70)	57.9	(1.05)	14.2	(0.74)	33.0	(1.00)	
25 to 29.....	48.3	52.5	(0.70)	56.9	(0.57)	8,203	66.2	(0.90)	75.6	(0.82)	58.3	(0.94)	30.3	(0.88)	18.8	(0.75)	67.8	(0.89)	8.5	(0.53)	47.2	(0.95)	
30 to 39.....	50.7	53.3	(0.46)	59.0	(0.37)	19,225	68.0	(0.58)	78.3	(0.51)	61.8	(0.61)	31.7	(0.58)	18.0	(0.48)	69.8	(0.57)	6.8	(0.31)	49.6	(0.62)	
40 to 49.....	51.3	54.9	(0.47)	60.8	(0.35)	21,772	66.9	(0.55)	77.1	(0.49)	59.0	(0.58)	31.8	(0.55)	17.7	(0.45)	69.7	(0.54)	7.1	(0.30)	48.4	(0.59)	
50 to 59.....	43.9	50.7	(0.61)	60.1	(0.42)	15,423	62.5	(0.67)	76.5	(0.59)	54.6	(0.69)	29.7	(0.64)	15.1	(0.50)	68.1	(0.65)	8.0	(0.38)	43.7	(0.69)	
60 or older.....	27.2	32.6	(0.88)	48.5	(0.67)	5,373	53.8	(1.18)	71.2	(1.07)	46.1	(1.18)	23.5	(1.00)	10.6	(0.72)	63.7	(1.13)	11.1	(0.74)	35.0	(1.12)	
Educational attainment and sex																							
Not high school completer.....	10.0	11.9	(0.48)	15.6	(0.50)	2,149	44.1	(1.85)	49.7	(1.86)	40.4	(1.83)	15.3	(1.34)	11.7	(1.20)	43.2	(1.85)	21.6	(1.53)	21.4	(1.53)	
High school completer.....	34.2	36.4	(0.40)	40.4	(0.35)	16,914	53.3	(0.66)	61.4	(0.65)	47.7	(0.66)	18.5	(0.52)	11.8	(0.43)	52.4	(0.66)	14.6	(0.47)	29.3	(0.60)	
Some college.....	50.4	53.6	(0.53)	55.7	(0.42)	15,060	61.5	(0.68)	70.2	(0.64)	53.6	(0.70)	25.3	(0.61)	14.5	(0.50)	62.5	(0.68)	10.0	(0.42)	39.6	(0.69)	
Associate's degree.....	58.2	60.7	(0.81)	62.9	(0.59)	7,813	61.1	(0.95)	71.7	(0.88)	54.4	(0.97)	26.1	(0.86)	15.4	(0.71)	62.6	(0.95)	9.9	(0.58)	39.8	(0.96)	
Bachelor's degree.....	68.8	73.9	(0.50)	82.0	(0.30)	22,540	73.3	(0.51)	85.6	(0.40)	64.2	(0.55)	37.4	(0.56)	20.1	(0.46)	78.0	(0.48)	3.7	(0.22)	57.3	(0.57)	
Master's degree.....	71.2	78.7	(0.81)	87.2	(0.43)	8,292	73.8	(0.83)	90.0	(0.57)	64.9	(0.91)	43.3	(0.94)	20.4	(0.77)	85.6	(0.67)	1.8	(0.25)	62.2	(0.92)	
Doctor's or professional degree.....	66.9	74.6	(1.24)	85.4	(0.67)	3,803	68.8	(1.30)	88.0	(0.91)	66.1	(1.33)	37.5	(1.36)	19.3	(1.11)	81.7	(1.08)	2.9	(0.47)	56.9	(1.39)	
Male	40.3	44.1	(0.31)	50.5	(0.25)	36,976	67.2	(0.42)	77.7	(0.37)	58.6	(0.44)	33.8	(0.42)	21.4	(0.37)	65.6	(0.43)	7.8	(0.24)	48.8	(0.45)	
Not high school completer.....	8.5	9.8	(0.53)	12.5	(0.55)	1,095	44.4	(2.59)	48.7	(2.61)	39.4	(2.55)	18.2	(2.01)	13.6	(1.79)	39.7	(2.56)	23.3	(2.21)	20.5	(2.11)	
High school completer.....	24.2	27.1	(0.49)	31.9	(0.45)	7,305	52.1	(1.01)	60.1	(0.99)	45.0	(1.01)	21.6	(0.83)	14.9	(0.72)	45.0	(1.01)	16.1	(0.74)	28.3	(0.91)	
Some college.....	42.8	46.0	(0.71)	49.2	(0.58)	6,718	62.0	(1.02)	71.4	(0.95)	53.0	(1.05)	29.3	(0.96)	18.7	(0.82)	58.2	(1.04)	10.6	(0.65)	40.8	(1.04)	
Associate's degree.....	52.6	55.2	(1.16)	56.9	(0.86)	3,326	64.8	(1.43)	74.1	(1.31)	53.5	(1.49)	33.2	(1.41)	22.1	(1.24)	60.5	(1.46)	9.9	(0.90)	43.7	(1.49)	
Bachelor's degree.....	69.8	74.3	(0.65)	82.5	(0.39)	11,787	77.6	(0.66)	88.4	(0.51)	68.0	(0.74)	40.4	(0.78)	25.6	(0.69)	76.9	(0.67)	2.6	(0.25)	61.7	(0.77)	
Master's degree.....	75.4	79.8	(1.05)	88.0	(0.57)	4,186	78.7	(1.09)	92.1	(0.72)	69.0	(1.23)	44.9	(1.33)	26.8	(1.18)	83.5	(0.99)	1.3	(0.31)	66.2	(1.26)	
Doctor's or professional degree.....	66.5	73.4	(1.43)	85.5	(0.78)	2,559	70.9	(1.55)	88.9	(1.08)	66.5	(1.61)	38.7	(1.66)	21.7	(1.41)	80.1	(1.36)	2.5	(0.53)	58.5	(1.68)	
Female	52.4	56.5	(0.32)	62.5	(0.24)	39,594	61.7	(0.42)	73.3	(0.38)	55.5	(0.43)	26.0	(0.38)	11.8	(0.28)	69.8	(0.40)	8.6	(0.24)	42.2	(0.43)	
Not high school completer.....	12.5	15.4	(0.80)	21.0	(0.83)	1,054	43.7	(2.64)	50.7	(2.66)	41.4	(2.62)	12.4	(1.75)	9.7	(1.58)	46.8	(2.66)	19.8	(2.12)	22.3	(2.21)	
High school completer.....	45.2	46.9	(0.56)	50.7	(0.47)	9,609	54.2	(0.88)	62.4	(0.85)	49.7	(0.88)	16.2	(0.65)	9.5	(0.52)	58.0	(0.87)	13.4	(0.60)	30.1	(0.81)	
Some college.....	58.6	61.5	(0.68)	62.4	(0.52)	8,341	61.2	(0.92)	69.3	(0.87)	54.2	(0.94)	22.2	(0.79)	11.1	(0.59)	66.0	(0.90)	9.6	(0.56)	38.5	(0.92)	
Associate's degree.....	63.7	65.4	(0.99)	68.3	(0.70)	4,487	58.4	(1.27)	70.0	(1.18)	55.1	(1.28)	20.7	(1.05)	10.4	(0.79)	64.2	(1.24)	9.9	(0.77)	36.9	(1.24)	
Bachelor's degree.....	67.6	73.5	(0.67)	81.5	(0.40)	10,752	68.7	(0.77)	82.6	(0.63)	60.1	(0.82)	34.1	(0.79)	14.0	(0.58)	79.2	(0.68)	4.9	(0.36)	52.5	(0.83)	
Master's degree.....	66.5	77.5	(1.10)	86.3	(0.58)	4,106	68.9	(1.25)	87.7	(0.88)	60.7	(1.32)	41.7	(1.33)	13.9	(0.93)	87.7	(0.89)	2.3	(0.41)	58.0	(1.33)	
Doctor's or professional degree.....	68.2	77.6	(2.06)	85.1	(1.09)	1,244	64.5	(2.34)	86.2	(1.69)	65.3	(2.33)	34.9	(2.34)	14.3	(1.72)	85.0	(1.75)	3.9	(0.95)	53.6	(2.44)	
Race/ethnicity																							
White.....	48.7	53.8	(0.28)	61.6	(0.21)	59,806	65.5	(0.34)	76.6	(0.30)	56.7	(0.35)	30.7	(0.33)	16.0	(0.26)	68.6	(0.33)	7.8	(0.19)	46.2	(0.35)	
Black.....	36.2	40.0	(0.74)	46.5	(0.61)	6,556	55.4	(1.09)	67.8	(1.02)	56.8	(1.08)	24.2	(0.94)	16.7	(0.82)	61.7	(1.06)	11.6	(0.70)	38.0	(1.06)	
Hispanic.....	29.3	30.2	(0.80)	31.2	(0.61)	5,421	58.9	(1.32)	68.1	(1.25)	56.5	(1.33)	24.8	(1.16)	15.6	(0.97)	63.0	(1.29)	10.4	(0.82)	39.6	(1.31)	
Other.....	—	—	(†)	59.4	(0.86)	4,786	68.7	(1.32)	79.2	(1.16)	60.9	(1.39)	31.3	(1.32)	22.9	(1.20)	71.1	(1.29)	6.6	(0.71)	51.0	(1.43)	

See notes at end of table.

Table 430. Percentage of workers, 18 years old and over, using computers on the job, by type of computer application and selected characteristics: 1993, 1997, and 2003—Continued

Selected characteristic	Percent using computers at work, 1993	Percent using computers at work, 1997	2003										
			Percent using computers at work	Number using computers at work (in thousands)	Percent of on-the-job computer users using specific computer applications ¹								
					Spreadsheets/databases	Internet/e-mail	Calendar/schedule	Graphics/design	Programming	Word processing/desktop publishing	Other uses only	Using 4 or more categories	
1	2	3	4	5	6	7	8	9	10	11	12	13	
Occupational group													
Management, business, and financial...	[?]	[?]	(?)	80.8 (0.36)	15,840	79.8 (0.55)	88.0 (0.45)	69.1 (0.63)	35.8 (0.66)	18.5 (0.53)	79.9 (0.55)	2.8 (0.23)	61.3 (0.67)
Professional and related occupations...	[?]	[?]	(?)	78.8 (0.31)	22,517	64.4 (0.55)	81.9 (0.44)	58.7 (0.57)	38.9 (0.56)	22.1 (0.48)	74.8 (0.50)	5.2 (0.25)	51.8 (0.58)
Service occupations.....	23.2	26.4	(0.51)	28.2 (0.48)	5,898	48.8 (1.12)	58.4 (1.11)	48.9 (1.12)	20.0 (0.90)	12.0 (0.73)	55.3 (1.12)	15.7 (0.82)	29.7 (1.03)
Sales and related occupations.....	44.5	51.7	(0.68)	61.1 (0.53)	9,464	61.4 (0.86)	73.0 (0.79)	53.6 (0.89)	26.4 (0.78)	11.7 (0.57)	60.9 (0.87)	11.5 (0.57)	41.0 (0.87)
Office and administrative support	[?]	[?]	(?)	73.9 (0.41)	14,206	63.2 (0.70)	70.4 (0.66)	54.4 (0.72)	19.3 (0.57)	11.5 (0.46)	66.0 (0.69)	8.5 (0.40)	37.5 (0.70)
Farming, fishing, and forestry	7.9	8.6	(0.80)	10.8 (1.46)	132	55.5 (7.49)	57.7 (7.44)	42.2 (7.44)	20.7 (6.10)	6.5 (3.71)	55.3 (7.49)	9.4 (4.39)	26.1 (6.61)
Construction and extraction	16.4	18.7	(0.73)	19.0 (0.68)	1,585	56.7 (2.15)	66.0 (2.06)	44.0 (2.15)	25.8 (1.90)	12.7 (1.44)	61.1 (2.12)	9.9 (1.30)	31.8 (2.02)
Installation, maintenance, and repair	11.7	12.6	(0.79)	42.0 (0.98)	2,229	50.8 (1.83)	61.4 (1.78)	44.5 (1.82)	21.1 (1.49)	18.3 (1.41)	44.4 (1.82)	17.9 (1.40)	29.7 (1.67)
Production occupations	21.8	23.7	(0.60)	29.6 (0.70)	2,869	52.4 (1.61)	54.9 (1.61)	43.0 (1.60)	26.0 (1.41)	14.9 (1.15)	42.0 (1.59)	17.4 (1.22)	27.5 (1.44)
Transportation and material moving.....	11.8	15.1	(0.80)	22.1 (0.71)	1,830	46.4 (2.01)	51.5 (2.02)	43.4 (2.00)	14.5 (1.42)	11.2 (1.27)	40.1 (1.98)	23.1 (1.70)	21.7 (1.66)
Family income³													
Less than \$20,000	25.1	26.7	(0.51)	30.1 (0.62)	3,814	51.6 (1.40)	60.1 (1.37)	44.2 (1.39)	22.6 (1.17)	14.0 (0.97)	54.9 (1.39)	16.0 (1.03)	30.6 (1.29)
\$20,000 to \$29,999.....	38.4	38.4	(0.61)	38.8 (0.63)	4,944	56.6 (1.22)	63.2 (1.18)	46.8 (1.23)	21.4 (1.01)	12.9 (0.82)	59.4 (1.21)	12.8 (0.82)	32.0 (1.15)
\$30,000 to \$39,999.....	45.7	45.8	(0.62)	47.0 (0.59)	6,775	57.5 (1.04)	68.0 (0.98)	49.9 (1.05)	23.5 (0.89)	13.4 (0.72)	61.0 (1.02)	12.0 (0.68)	36.5 (1.01)
\$40,000 to \$49,999.....	51.9	52.3	(0.71)	54.3 (0.64)	6,290	61.6 (1.06)	70.9 (0.99)	52.9 (1.09)	26.6 (0.96)	14.4 (0.76)	63.9 (1.05)	9.8 (0.65)	39.3 (1.06)
\$50,000 to \$74,999.....	60.6	59.9	(0.50)	62.2 (0.41)	16,195	63.6 (0.65)	74.8 (0.59)	56.1 (0.67)	28.5 (0.61)	16.5 (0.50)	65.4 (0.65)	8.3 (0.38)	43.6 (0.67)
\$75,000 or more	65.9	69.7	(0.51)	75.0 (0.30)	26,732	72.4 (0.47)	84.3 (0.38)	64.3 (0.51)	36.4 (0.51)	19.2 (0.42)	76.4 (0.45)	4.5 (0.22)	56.3 (0.52)

—Not available.

†Not applicable.

¹Individuals may be counted in more than one computer activity.

²Due to changes in occupational definitions, older data are not comparable to 2003 data.

³Excludes persons whose income data were not available.

NOTE: Data are based on a sample survey of households and are subject to sampling and nonsampling error. Race categories exclude persons of Hispanic ethnicity. Detail may not sum to totals because of rounding. Standard errors appear in parentheses. SOURCE: U.S. Department of Commerce, Census Bureau, Current Population Survey (CPS), October 1993, October 1997, and October 2003, unpublished tabulations. (This table was prepared May 2005.)