

## 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 407 to 412) deals with public libraries, public and private school libraries, and college and university libraries. It contains data on collections, population served, staff, and expenditures. Table 411 provides institutional-level information for the 60 largest college libraries in the country.

The second part of the chapter (tables 413 to 418) 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 school with a library was 1.8 at public schools in 2003–04 and 1.2 at private schools in 1999–2000 (table 407). On average, public school libraries had smaller numbers of books on a per student basis (1,803 per 100 students) than private school libraries (2,857 per 100 students) in 1999–2000. The number of books on a per student basis in public school libraries in 2003–04 (1,891 per 100 students) was not measurably different from the number in 1999–2000. In 2003–04, public elementary school libraries had larger holdings than public secondary school libraries on a per student basis (2,127 books per 100 students, compared to 1,376 books per 100 students).

Between 1991–92 and 1999–2000, the increase in college library resources was greater than the increase in enrollment; after adjustment for inflation, the library operating expenditure per full-time-equivalent (FTE) student rose 6 percent

during this period (table 410). Between 1999–2000 and 2003–04, library operating expenditures per FTE student dropped 10 percent. Overall, there was a net decrease of 4 percent in library operating expenditures per FTE student between 1991–92 and 2003–04. In 2003–04, the average library operating expenditure per FTE student was \$453.

In 2004, there were 9,207 public libraries in the United States with a total of 805 million books and serial volumes. The annual number of visits per capita was 4.7, and the annual reference transactions per capita were 1.1 (table 412).

## Computers and Technology

There has been widespread introduction of computers into the schools in recent years. In 2005, the average public school contained 154 instructional computers (table 413). 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 413).

The increasing number of computers in schools has coincided with rising percentages of students using computers (table 417). 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, 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 417). In 2003, 68 percent of elementary and secondary school students used computers at home, compared to 43 percent in 1997. Between 1997 and 2003, the percentage of students using computers at home for school work rose from 25 to 47 percent. In 2003, a higher percentage of

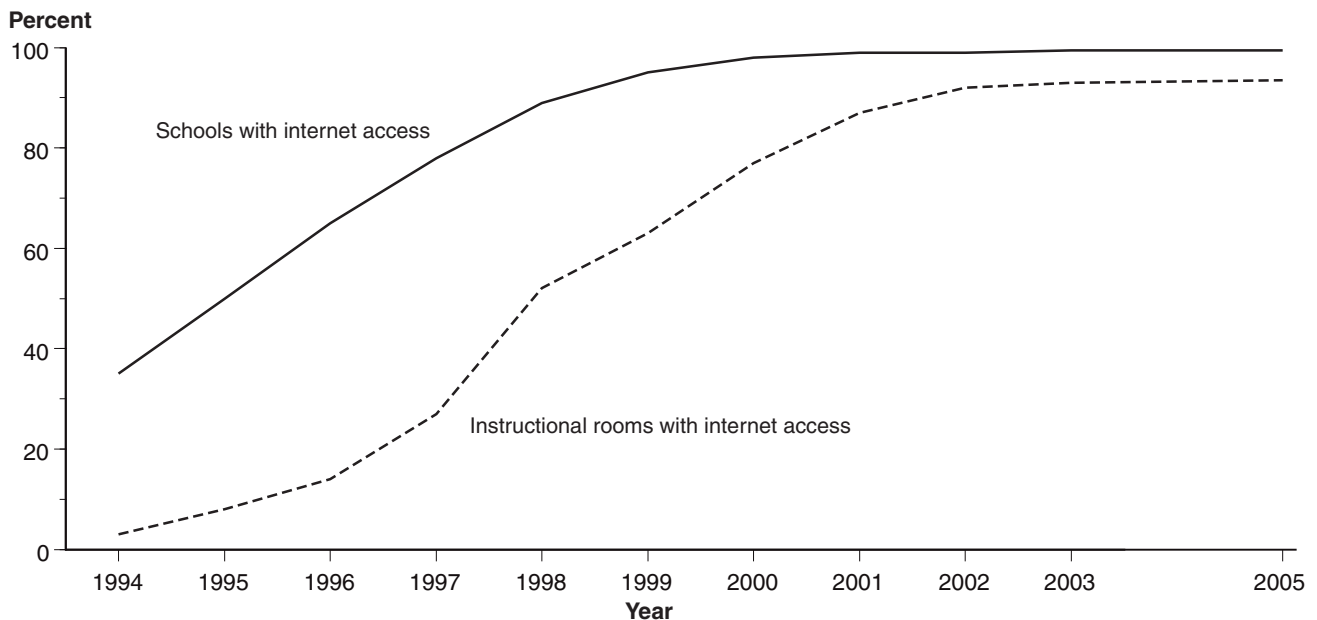
females than males used computers at home for school work (49 vs. 46 percent). About 54 percent of White elementary and secondary school students used computers at home for school work in 2003, compared to 35 percent of Black students and 34 percent of Hispanic students. A greater percentage of students from higher income families than of students from lower 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 417).

Computers are widely used in the workplace. In 2003, 56 percent of all workers used computers at work (table 418). 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 and 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: Various 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 407. Selected statistics on school libraries/media centers, by control and level of school: 1999–2000 and 2003–04**

Selected statistic	Public, 1999–2000		Public, 2003–04				Private, 1999–2000											
			Total	Elementary	Secondary	Combined elementary/ secondary	Total	Elementary	Secondary	Combined elementary/ secondary								
1	2	3	4	5	6	7	8	9	10									
<b>Number of schools with libraries</b> .....	<b>77,288</b>	<b>(420.6)</b>	<b>78,257</b>	<b>(548.2)</b>	<b>57,404</b>	<b>(439.8)</b>	<b>16,268</b>	<b>(313.4)</b>	<b>4,586</b>	<b>(201.4)</b>	<b>17,054</b>	<b>(323.2)</b>	<b>10,961</b>	<b>(251.4)</b>	<b>1,955</b>	<b>(91.2)</b>	<b>4,138</b>	<b>(173.8)</b>
Average number of staff per library.....	1.89	(0.018)	1.76	(0.014)	1.66	(0.018)	2.09	(0.025)	1.74	(0.116)	1.18	(0.026)	1.01	(0.032)	1.80	(0.083)	1.33	(0.055)
Certified library/media specialists.....	0.81	(0.007)	0.79	(0.009)	0.73	(0.012)	1.03	(0.018)	0.73	(0.023)	0.23	(0.011)	0.13	(0.009)	0.55	(0.027)	0.35	(0.027)
Full-time .....	0.65	(0.007)	0.65	(0.009)	0.58	(0.010)	0.92	(0.018)	0.55	(0.027)	0.17	(0.009)	0.07	(0.007)	0.47	(0.025)	0.27	(0.022)
Part-time .....	0.16	(0.006)	0.14	(0.007)	0.15	(0.009)	0.11	(0.009)	0.18	(0.020)	0.06	(0.005)	0.06	(0.006)	0.07	(0.010)	0.08	(0.013)
Other professional staff.....	0.17	(0.007)	0.19	(0.008)	0.19	(0.011)	0.14	(0.010)	0.28	(0.036)	0.48	(0.014)	0.47	(0.020)	0.53	(0.039)	0.46	(0.024)
Full-time .....	0.12	(0.005)	0.13	(0.007)	0.14	(0.009)	0.11	(0.009)	0.16	(0.022)	0.22	(0.009)	0.19	(0.012)	0.33	(0.023)	0.27	(0.020)
Part-time .....	0.06	(0.004)	0.05	(0.005)	0.05	(0.006)	0.03	(0.004)	0.11	(0.031)	0.25	(0.012)	0.29	(0.017)	0.20	(0.029)	0.19	(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)	0.48	(0.014)	0.41	(0.020)	0.72	(0.048)	0.52	(0.030)
Full-time .....	0.49	(0.008)	0.46	(0.009)	0.41	(0.011)	0.65	(0.017)	0.35	(0.028)	0.14	(0.009)	0.11	(0.011)	0.24	(0.024)	0.18	(0.015)
Part-time .....	0.41	(0.014)	0.33	(0.012)	0.34	(0.014)	0.28	(0.014)	0.38	(0.085)	0.34	(0.014)	0.31	(0.018)	0.48	(0.043)	0.34	(0.025)
Percentage of schools' library media centers with certain media equipment																		
Telephone.....	84.8	(0.53)	90.5	(0.55)	89.9	(0.69)	95.3	(0.62)	82.1	(1.94)	53.2	(1.48)	45.3	(2.02)	78.2	(2.67)	62.3	(2.25)
Fax machine.....	11.5	(0.43)	10.9	(0.50)	6.9	(0.64)	23.1	(1.08)	17.0	(1.94)	6.7	(0.64)	4.8	(0.82)	13.6	(1.38)	8.7	(1.50)
Automated catalog.....	72.8	(0.69)	82.7	(0.66)	81.9	(0.89)	90.6	(0.76)	63.7	(2.59)	34.2	(1.25)	28.1	(1.54)	55.8	(2.61)	39.9	(2.25)
Automated circulation system.....	74.4	(0.65)	86.9	(0.61)	86.7	(0.82)	92.8	(0.80)	68.8	(2.45)	29.0	(1.17)	22.9	(1.31)	52.3	(2.48)	33.9	(2.33)
Video laser disc or DVD.....	43.0	(0.69)	44.1	(0.84)	39.3	(1.02)	61.3	(1.47)	43.2	(2.21)	12.7	(0.67)	10.4	(0.99)	21.2	(1.79)	15.0	(1.40)
Connection to Internet.....	90.1	(0.57)	95.1	(0.35)	94.1	(0.48)	99.2	(0.22)	92.6	(1.40)	60.6	(1.37)	55.1	(1.77)	81.6	(2.46)	65.2	(2.05)
Video cassette recorders (VCR).....	—	(†)	86.3	(0.65)	85.4	(0.77)	89.4	(1.21)	86.8	(1.69)	—	(†)	—	(†)	—	(†)	—	(†)
Disability assistance technologies, such as TDD.....	—	(†)	11.9	(0.50)	10.2	(0.61)	18.0	(0.79)	11.7	(1.34)	—	(†)	—	(†)	—	(†)	—	(†)
Percentage of schools with certain services																		
Students permitted to check out computer hardware.....	2.2	(0.14)	5.2	(0.37)	3.5	(0.45)	10.1	(0.77)	9.6	(1.34)	1.0	(0.17)	0.9	(0.25)	2.2	(0.41)	1.0	(0.29)
Students permitted to check out computer software.....	6.9	(0.31)	11.7	(0.44)	7.6	(0.56)	23.5	(1.05)	21.7	(2.22)	6.9	(0.57)	3.8	(0.50)	16.6	(1.53)	10.5	(1.59)
Number of library computer stations per 100 students.....	—	(†)	2.3	(0.04)	2.2	(0.05)	2.5	(0.05)	2.7	(0.17)	—	(†)	—	(†)	—	(†)	—	(†)
Average holdings per 100 students at the end of the school year <sup>1</sup>																		
Books (number of volumes).....	1,803	(19.7)	1,891	(45.1)	2,127	(70.2)	1,376	(20.0)	2,407	(117.7)	2,857	(84.8)	2,801	(86.0)	2,737	(178.3)	3,043	(213.2)
Video materials (tape and disc).....	51	(0.8)	68	(3.5)	70	(5.3)	61	(2.1)	87	(13.2)	71	(2.5)	66	(3.3)	72	(6.0)	81	(5.8)
CD-ROM titles.....	8	(0.3)	12	(0.9)	16	(1.4)	4	(0.3)	10	(1.7)	10	(0.6)	10	(0.8)	10	(1.3)	10	(1.0)
Average additions per 100 students during the school year <sup>1</sup>																		
Books (number of volumes).....	—	(†)	99.3	(2.08)	118.4	(3.13)	61.2	(1.75)	109.2	(8.40)	—	(†)	—	(†)	—	(†)	—	(†)
Video materials (tape and disc).....	—	(†)	4.3	(0.17)	4.4	(0.23)	4.1	(0.19)	5.9	(0.75)	—	(†)	—	(†)	—	(†)	—	(†)
CD-ROM titles.....	—	(†)	0.7	(0.09)	0.9	(0.14)	0.3	(0.03)	1.0	(0.23)	—	(†)	—	(†)	—	(†)	—	(†)
Total expenditures for library/media materials per pupil <sup>1,2</sup> .....	\$23.37	(0.438)	\$16.24	(0.322)	\$16.00	(0.469)	\$16.11	(0.320)	\$21.24	(2.498)	\$29.02	(1.050)	\$23.60	(1.646)	\$38.72	(1.582)	\$33.40	(1.831)
Books.....	9.97	(0.153)	10.99	(0.299)	11.72	(0.452)	9.68	(0.275)	10.19	(0.631)	10.57	(0.625)	9.29	(1.115)	11.18	(0.472)	12.68	(0.834)
Video materials.....	1.07	(0.022)	0.97	(0.042)	0.91	(0.046)	1.01	(0.061)	1.76	(0.617)	1.34	(0.051)	1.04	(0.057)	1.51	(0.106)	1.83	(0.153)
CD-ROM titles.....	0.59	(0.020)	0.17	(0.016)	0.21	(0.026)	0.10	(0.011)	0.20	(0.040)	0.82	(0.056)	0.72	(0.081)	1.15	(0.109)	0.81	(0.081)
Current serial subscriptions.....	1.26	(0.016)	1.38	(0.025)	1.06	(0.031)	1.87	(0.049)	2.50	(0.148)	1.34	(0.035)	0.62	(0.030)	2.71	(0.120)	1.86	(0.098)
Electronic subscriptions.....	0.81	(0.018)	0.88	(0.033)	0.39	(0.042)	1.79	(0.061)	1.25	(0.249)	1.35	(0.056)	0.17	(0.036)	3.85	(0.213)	2.08	(0.124)
Value of donated computers, A/V equipment, and other items per student <sup>1,3</sup> .....	—	(†)	\$1.56	(0.083)	\$1.64	(0.108)	\$1.12	(0.074)	\$3.88	(0.761)	—	(†)	—	(†)	—	(†)	—	(†)

—Not available.

†Not applicable.

<sup>1</sup>Data are for the prior school year.

<sup>2</sup>Includes other expenditures not separately shown.

<sup>3</sup>Includes grants and other contributions.

NOTE: Percentages are based on schools that have library/media centers. 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 and 2003–04; "Charter School Questionnaire," 1999–2000; and "Private School Library Media Center Questionnaire," 1999–2000, unpublished tabulations. (This table was prepared September 2006.)

**Table 408. Selected statistics on public school libraries/media centers, by level and enrollment size of school: 2003–04**

Selected statistic	All public school libraries/media centers	Elementary school libraries					Secondary school libraries				
		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
<b>Number of schools with libraries.....</b>	<b>78,257 (548.2)</b>	<b>57,404 (439.8)</b>	<b>3,227 (273.1)</b>	<b>29,803 (594.0)</b>	<b>15,735 (540.8)</b>	<b>8,639 (343.2)</b>	<b>16,268 (313.4)</b>	<b>5,444 (243.4)</b>	<b>2,914 (148.8)</b>	<b>4,933 (190.9)</b>	<b>2,976 (155.6)</b>
Average number of staff per library	1.76 (0.014)	1.66 (0.018)	1.21 (0.094)	1.62 (0.023)	1.71 (0.029)	1.91 (0.040)	2.09 (0.025)	1.56 (0.040)	1.83 (0.045)	2.25 (0.040)	3.06 (0.088)
Certified library/media specialists.....	0.79 (0.009)	0.73 (0.012)	0.51 (0.052)	0.70 (0.019)	0.76 (0.019)	0.83 (0.024)	1.03 (0.018)	0.78 (0.032)	0.96 (0.031)	1.12 (0.025)	1.38 (0.050)
Full-time.....	0.65 (0.009)	0.58 (0.010)	0.16 (0.027)	0.51 (0.016)	0.68 (0.019)	0.76 (0.023)	0.92 (0.018)	0.61 (0.029)	0.88 (0.027)	1.04 (0.025)	1.33 (0.047)
Part-time.....	0.14 (0.007)	0.15 (0.009)	0.36 (0.044)	0.19 (0.015)	0.08 (0.011)	0.07 (0.014)	0.11 (0.009)	0.17 (0.017)	0.08 (0.017)	0.08 (0.015)	0.06 (0.010)
Other professional staff.....	0.19 (0.008)	0.19 (0.011)	0.17 (0.048)	0.21 (0.017)	0.18 (0.016)	0.16 (0.018)	0.14 (0.010)	0.15 (0.019)	0.13 (0.020)	0.13 (0.016)	0.15 (0.024)
Full-time.....	0.13 (0.007)	0.14 (0.009)	0.08 (0.044)	0.15 (0.014)	0.14 (0.015)	0.13 (0.016)	0.11 (0.009)	0.11 (0.016)	0.11 (0.018)	0.11 (0.017)	0.12 (0.023)
Part-time.....	0.05 (0.005)	0.05 (0.006)	0.09 (0.024)	0.06 (0.008)	0.05 (0.010)	0.04 (0.010)	0.03 (0.004)	0.04 (0.008)	0.02 (0.008)	0.02 (0.004)	0.04 (0.016)
Other paid employees.....	0.78 (0.011)	0.75 (0.013)	0.53 (0.059)	0.72 (0.018)	0.76 (0.027)	0.91 (0.031)	0.93 (0.017)	0.63 (0.028)	0.74 (0.047)	1.00 (0.033)	1.53 (0.058)
Full-time.....	0.46 (0.009)	0.41 (0.011)	0.20 (0.036)	0.37 (0.017)	0.43 (0.024)	0.61 (0.028)	0.65 (0.017)	0.39 (0.028)	0.46 (0.031)	0.74 (0.032)	1.16 (0.053)
Part-time.....	0.33 (0.012)	0.34 (0.014)	0.33 (0.062)	0.35 (0.020)	0.33 (0.024)	0.31 (0.029)	0.28 (0.014)	0.24 (0.025)	0.28 (0.047)	0.26 (0.023)	0.36 (0.032)
Percentage of schools' library media centers with certain media equipment											
Telephone.....	90.5 (0.55)	89.9 (0.69)	76.4 (4.00)	87.5 (0.99)	93.6 (0.92)	96.2 (0.88)	95.3 (0.62)	88.3 (1.69)	96.6 (1.37)	99.7 (0.10)	99.5 (0.32)
Fax machine.....	10.9 (0.50)	6.9 (0.64)	12.2 (5.01)	4.9 (0.69)	8.1 (1.24)	9.6 (1.41)	23.1 (1.08)	15.0 (1.71)	17.8 (2.04)	27.4 (1.79)	36.2 (2.31)
Automated catalog.....	82.7 (0.66)	81.9 (0.89)	54.2 (4.94)	79.6 (1.37)	89.7 (1.08)	85.9 (2.00)	90.6 (0.76)	79.3 (1.89)	92.3 (1.41)	96.7 (0.64)	99.6 (0.20)
Automated circulation system.....	86.9 (0.61)	86.7 (0.82)	54.6 (4.74)	84.9 (1.18)	93.1 (0.92)	93.4 (1.17)	92.8 (0.80)	83.9 (1.89)	94.3 (1.65)	97.7 (0.48)	99.5 (0.23)
Video laser disc or DVD.....	44.1 (0.84)	39.3 (1.02)	17.7 (4.56)	38.3 (1.42)	39.6 (1.72)	50.5 (2.51)	61.3 (1.47)	53.4 (3.10)	65.6 (2.86)	63.2 (1.89)	68.7 (2.43)
Connection to Internet.....	95.1 (0.35)	94.1 (0.48)	81.3 (3.62)	94.4 (0.69)	96.3 (0.83)	94.0 (1.16)	99.2 (0.22)	97.7 (0.66)	99.9 (0.06)	100.0 (#)	99.8 (0.20)
Video cassette recorders (VCR).....	86.3 (0.65)	85.4 (0.77)	76.1 (4.11)	84.8 (1.15)	87.7 (1.16)	87.1 (1.40)	89.4 (1.21)	88.4 (2.87)	88.6 (2.36)	91.2 (1.45)	89.0 (1.82)
Disability assistance technologies, such as TDD.....	11.9 (0.50)	10.2 (0.61)	5.5 (2.03)	8.6 (0.90)	11.5 (1.24)	14.9 (1.95)	18.0 (0.79)	14.1 (1.56)	16.5 (2.17)	18.9 (1.28)	25.0 (2.09)
Percentage of schools with certain services											
Students permitted to check out computer hardware.....	5.2 (0.37)	3.5 (0.45)	9.4 (4.01)	3.7 (0.69)	1.8 (0.54)	3.7 (1.06)	10.1 (0.77)	13.0 (1.70)	9.2 (1.85)	7.3 (0.86)	10.3 (1.60)
Students permitted to check out computer software.....	11.7 (0.44)	7.6 (0.56)	15.2 (5.09)	7.5 (0.79)	5.7 (0.85)	8.6 (1.54)	23.5 (1.05)	21.6 (1.86)	22.5 (2.30)	23.9 (1.73)	27.3 (2.33)
Number of library computer stations per 100 students.....	2.3 (0.04)	2.2 (0.05)	6.2 (0.69)	3.0 (0.11)	1.9 (0.07)	1.4 (0.05)	2.5 (0.05)	4.9 (0.25)	3.0 (0.12)	2.4 (0.06)	1.7 (0.06)
Average holdings per 100 students at the end of the school year <sup>1</sup>											
Books (number of volumes).....	1,891 (45.1)	2,127 (70.2)	5,996 (404.4)	2,818 (188.7)	1,937 (46.1)	1,386 (42.3)	1,376 (20.0)	2,886 (97.1)	1,726 (43.4)	1,291 (22.0)	975 (25.5)
Video materials (tape and disc).....	68 (3.5)	70 (5.3)	131 (20.0)	88 (13.8)	69 (4.9)	47 (2.8)	61 (2.1)	114 (10.6)	70 (4.8)	62 (3.3)	45 (3.4)
CD-ROM titles.....	12 (0.9)	16 (1.4)	34 (8.6)	18 (1.9)	19 (3.1)	10 (1.8)	4 (0.3)	13 (2.6)	5 (0.7)	3 (0.4)	2 (0.2)
Average additions per 100 students during the school year <sup>1</sup>											
Books (number of volumes).....	99.3 (2.08)	118.4 (3.13)	264.7 (27.02)	144.1 (5.57)	114.5 (5.21)	87.4 (4.91)	61.2 (1.75)	125.7 (7.33)	68.6 (3.18)	60.4 (3.32)	43.8 (2.43)
Video materials (tape and disc).....	4.3 (0.17)	4.4 (0.23)	11.7 (2.30)	5.4 (0.46)	4.0 (0.35)	3.3 (0.26)	4.1 (0.19)	7.5 (0.98)	4.8 (0.39)	4.4 (0.39)	2.8 (0.21)
CD-ROM titles.....	0.7 (0.09)	0.9 (0.14)	4.2 (1.92)	1.3 (0.31)	0.9 (0.20)	0.5 (0.17)	0.3 (0.03)	0.9 (0.16)	0.4 (0.10)	0.3 (0.04)	0.2 (0.03)
Total expenditures for library/media materials per pupil <sup>1,2</sup> .....	\$16.24 (0.322)	\$16.00 (0.469)	\$37.51 (5.208)	\$19.35 (0.825)	\$15.45 (0.859)	\$11.90 (0.558)	\$16.11 (0.320)	\$25.80 (1.109)	\$18.09 (0.838)	\$16.71 (0.675)	\$12.64 (0.507)
Books.....	10.99 (0.299)	11.72 (0.452)	21.69 (3.274)	14.08 (0.745)	11.40 (0.898)	8.94 (0.491)	9.68 (0.275)	14.97 (0.732)	11.25 (0.685)	9.85 (0.523)	7.77 (0.457)
Video materials.....	0.97 (0.042)	0.91 (0.046)	1.25 (0.208)	0.99 (0.077)	0.91 (0.087)	0.79 (0.065)	1.01 (0.061)	1.58 (0.175)	1.10 (0.093)	1.02 (0.100)	0.84 (0.117)
CD-ROM titles.....	0.17 (0.016)	0.21 (0.026)	0.37 (0.121)	0.31 (0.061)	0.20 (0.046)	0.08 (0.012)	0.10 (0.011)	0.24 (0.051)	0.10 (0.022)	0.10 (0.011)	0.07 (0.017)
Current serial subscriptions.....	1.38 (0.025)	1.06 (0.031)	3.02 (0.409)	1.32 (0.064)	0.94 (0.032)	0.82 (0.067)	1.87 (0.049)	3.76 (0.198)	2.28 (0.120)	1.92 (0.076)	1.24 (0.063)
Electronic subscriptions.....	0.88 (0.033)	0.39 (0.042)	1.02 (0.362)	0.50 (0.096)	0.33 (0.057)	0.31 (0.048)	1.79 (0.061)	2.15 (0.197)	1.85 (0.202)	1.90 (0.108)	1.59 (0.107)
Value of donated computers, A/V equipment, and other items per student <sup>1,3</sup> .....	\$1.56 (0.083)	\$1.64 (0.108)	\$7.47 (1.785)	\$2.24 (0.167)	\$1.56 (0.202)	\$0.83 (0.118)	\$1.12 (0.074)	\$3.05 (0.328)	\$1.68 (0.201)	\$0.98 (0.115)	\$0.60 (0.113)

#Rounds to zero.

<sup>1</sup>Data are for the prior school year.

<sup>2</sup>Includes other expenditures not separately shown.

<sup>3</sup>Includes grants and other contributions.

NOTE: Percentages are based on schools that have library/media centers. 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," 2003–04. (This table was prepared September 2006.)

**Table 409. Selected statistics on public school libraries/media centers, by state: 2003–04**

State	Percent of centers offering selected services/equipment								Average number of staff per library <sup>1</sup>	Books held at end of year per 100 students <sup>2</sup>	Books acquired during year per 100 students <sup>2</sup>	Total expenditure for materials per student <sup>2</sup>	Value of donated computers, A/V equipment, and other items per student <sup>2,3</sup>					
	Automated catalog	Automated circulation system	Connection to the Internet	Digital video disk (DVD)	6	7	8	9						10				
1	2	3	4	5	6	7	8	9	10									
<b>United States .....</b>	<b>82.7</b>	<b>(0.66)</b>	<b>86.9</b>	<b>(0.61)</b>	<b>95.1</b>	<b>(0.35)</b>	<b>44.1</b>	<b>(0.84)</b>	<b>1.8</b>	<b>(0.01)</b>	<b>1,891</b>	<b>(45.1)</b>	<b>99</b>	<b>(2.1)</b>	<b>\$16.2</b>	<b>(0.32)</b>	<b>\$1.6</b>	<b>(0.08)</b>
Alabama .....	87.6	(2.83)	95.9	(1.73)	100.0	(†)	44.0	(4.27)	1.7	(0.07)	1,713	(82.8)	99	(8.0)	15.2	(1.13)	2.6	(0.65)
Alaska .....	68.5	(4.60)	73.3	(5.55)	86.9	(4.69)	39.5	(5.90)	1.4	(0.08)	3,580	(230.9)	152	(24.2)	19.6	(2.30)	3.0	(1.03)
Arizona .....	81.5	(2.74)	90.5	(2.7)	93.3	(2.03)	38.8	(4.12)	1.8	(0.08)	2,298	(274.6)	121	(17.1)	15.3	(1.39)	0.9	(0.41)
Arkansas .....	86.7	(3.02)	93.0	(1.97)	97.0	(1.43)	44.0	(3.98)	1.7	(0.06)	1,931	(101.7)	89	(6.4)	18.1	(1.24)	2.3	(0.51)
California .....	81.6	(2.42)	87.9	(2.19)	88.7	(2.29)	31.4	(3.10)	1.4	(0.05)	1,488	(62.8)	108	(8.2)	16.5	(0.84)	1.1	(0.26)
Colorado .....	87.5	(3.96)	87.4	(3.44)	97.4	(1.77)	50.8	(5.03)	1.8	(0.09)	2,289	(423.3)	112	(13.4)	16.1	(1.30)	2.1	(0.64)
Connecticut .....	66.7	(5.42)	67.7	(5.41)	95.6	(2.46)	55.9	(5.08)	2.0	(0.10)	2,145	(105.2)	113	(17.5)	19.5	(2.16)	1.6	(0.43)
Delaware .....	97.3	(2.35)	97.8	(1.82)	97.3	(1.99)	29.9	(4.91)	1.6	(0.11)	1,702	(80.8)	75	(6.2)	12.9	(0.83)	1.9	(0.43)
District of Columbia .....	62.3	(7.68)	77.7	(5.90)	97.5	(2.20)	23.3	(6.71)	1.1	(0.04)	1,715	(307.5)	46	(8.8)	9.3	(2.17)	2.5	(0.74)
Florida .....	92.4	(2.27)	96.8	(1.72)	96.4	(2.01)	51.9	(4.84)	2.0	(0.08)	1,476	(79.3)	87	(8.6)	13.1	(0.97)	0.9	(0.18)
Georgia .....	96.4	(2.47)	97.7	(2.05)	98.6	(1.42)	50.8	(5.59)	2.2	(0.06)	1,653	(57.4)	76	(9.1)	14.2	(1.24)	1.4	(0.44)
Hawaii .....	94.6	(6.01)	95.5	(6.02)	98.1	(0.86)	42.9	(4.78)	1.5	(0.11)	2,029	(147.8)	71	(6.2)	11.5	(2.46)	1.2	(0.23)
Idaho .....	83.2	(3.01)	89.5	(2.75)	92.7	(2.20)	33.5	(3.84)	1.5	(0.06)	2,340	(102.7)	83	(9.9)	11.9	(1.16)	0.7	(0.18)
Illinois .....	66.4	(5.04)	70.8	(4.32)	89.2	(3.46)	38.0	(5.47)	2.1	(0.17)	1,703	(82.2)	118	(16.2)	13.7	(1.27)	1.8	(0.44)
Indiana .....	91.1	(2.83)	93.3	(2.52)	94.6	(2.97)	50.4	(5.76)	1.7	(0.07)	1,977	(95.4)	84	(9.1)	14.9	(0.97)	0.9	(0.30)
Iowa .....	74.9	(3.43)	78.0	(3.65)	90.6	(3.18)	51.9	(5.11)	2.0	(0.06)	2,605	(121.1)	100	(6.4)	13.9	(0.78)	1.6	(0.52)
Kansas .....	84.9	(3.50)	86.8	(3.70)	97.2	(1.48)	46.5	(4.24)	1.9	(0.07)	3,059	(142.5)	140	(12.0)	22.2	(2.14)	1.5	(0.35)
Kentucky .....	89.6	(2.82)	94.1	(2.40)	98.8	(1.02)	56.0	(4.88)	1.7	(0.07)	1,709	(77.6)	91	(8.8)	13.3	(0.65)	0.8	(0.25)
Louisiana .....	71.1	(4.00)	80.1	(3.26)	96.8	(1.64)	44.5	(4.61)	1.3	(0.05)	1,944	(131.2)	54	(4.6)	15.2	(3.54)	1.9	(0.42)
Maine .....	62.9	(4.83)	62.7	(4.41)	90.4	(3.73)	30.6	(4.03)	1.6	(0.10)	2,796	(260.5)	102	(8.7)	24.1	(2.68)	2.5	(0.98)
Maryland .....	82.8	(4.14)	91.0	(3.19)	98.7	(1.50)	46.9	(4.61)	1.6	(0.06)	1,507	(62.8)	125	(24.9)	17.3	(1.74)	1.3	(0.30)
Massachusetts .....	71.0	(6.43)	70.4	(6.35)	88.0	(5.02)	45.7	(5.69)	1.7	(0.12)	1,841	(126.0)	85	(14.8)	12.5	(1.33)	1.6	(0.44)
Michigan .....	83.8	(4.23)	82.8	(4.39)	100.0	(†)	48.8	(5.31)	1.8	(0.08)	3,010	(1,266.5)	88	(13.7)	12.8	(1.57)	1.1	(0.47)
Minnesota .....	92.0	(2.86)	94.6	(2.38)	97.2	(1.41)	59.7	(4.28)	2.1	(0.07)	2,509	(143.1)	111	(9.7)	15.2	(1.08)	2.1	(0.47)
Mississippi .....	73.2	(4.38)	86.5	(3.43)	95.5	(1.64)	35.6	(4.52)	1.6	(0.06)	1,476	(56.6)	102	(11.2)	14.9	(1.53)	1.4	(0.31)
Missouri .....	85.8	(3.59)	88.0	(3.33)	96.0	(1.67)	45.0	(4.73)	1.7	(0.06)	2,047	(62.0)	120	(9.0)	22.1	(1.01)	3.3	(0.96)
Montana .....	62.9	(3.53)	69.2	(3.32)	86.6	(3.56)	37.2	(3.37)	1.5	(0.08)	3,372	(214.8)	147	(17.7)	22.6	(1.40)	3.5	(0.75)
Nebraska .....	71.8	(4.35)	73.7	(4.27)	82.6	(3.89)	42.4	(5.55)	1.9	(0.09)	3,160	(228.1)	129	(10.4)	21.3	(1.38)	3.5	(0.71)
Nevada .....	92.2	(4.13)	88.6	(5.05)	93.9	(3.10)	44.2	(4.72)	1.5	(0.06)	1,616	(80.0)	114	(14.3)	13.5	(1.65)	1.4	(0.40)
New Hampshire .....	65.5	(4.11)	70.6	(4.04)	93.9	(3.02)	45.6	(5.04)	1.8	(0.07)	1,817	(78.5)	96	(11.2)	19.7	(1.28)	1.9	(0.68)
New Jersey .....	70.0	(6.08)	71.4	(6.08)	97.7	(2.04)	43.1	(6.13)	1.8	(0.08)	2,110	(142.1)	85	(13.6)	21.0	(2.72)	1.1	(0.30)
New Mexico .....	77.8	(3.58)	85.7	(3.12)	94.0	(1.81)	25.1	(2.74)	1.4	(0.06)	2,153	(105.1)	131	(10.7)	20.7	(1.66)	1.9	(0.43)
New York .....	76.0	(4.05)	83.9	(3.74)	94.9	(2.59)	47.7	(4.37)	2.2	(0.07)	1,626	(88.6)	95	(7.5)	19.8	(1.93)	2.2	(0.51)
North Carolina .....	93.3	(2.76)	97.0	(1.95)	96.3	(2.20)	53.0	(5.12)	1.9	(0.08)	1,622	(46.3)	110	(11.9)	18.3	(1.57)	1.1	(0.26)
North Dakota .....	51.8	(3.25)	53.4	(3.25)	90.1	(2.54)	30.1	(3.17)	1.6	(0.06)	3,710	(168.3)	146	(13.0)	26.1	(1.75)	1.3	(0.42)
Ohio .....	82.2	(3.47)	82.7	(3.40)	95.9	(2.10)	49.6	(4.89)	1.5	(0.08)	1,669	(78.4)	75	(9.4)	10.9	(0.78)	1.9	(0.46)
Oklahoma .....	75.5	(2.73)	89.8	(1.87)	95.6	(1.25)	35.0	(2.46)	1.8	(0.04)	2,159	(114.6)	99	(6.2)	15.5	(1.08)	2.5	(0.37)
Oregon .....	81.1	(4.49)	82.0	(4.69)	100.0	(†)	33.0	(4.61)	1.6	(0.08)	2,631	(221.4)	85	(10.5)	10.7	(0.96)	2.9	(1.11)
Pennsylvania .....	81.7	(3.59)	87.1	(4.16)	94.8	(3.09)	37.4	(3.87)	1.8	(0.08)	1,961	(83.9)	88	(10.0)	15.1	(0.91)	0.6	(0.16)
Rhode Island .....	72.3	(4.54)	83.5	(3.79)	98.9	(1.13)	26.4	(5.06)	1.8	(0.08)	1,538	(95.6)	84	(14.5)	16.9	(2.56)	1.5	(0.70)
South Carolina .....	98.2	(1.69)	99.9	(0.10)	100.0	(†)	46.6	(4.13)	2.1	(0.05)	1,674	(56.6)	94	(11.8)	15.7	(1.16)	2.0	(0.41)
South Dakota .....	53.6	(4.24)	53.6	(3.92)	89.5	(3.34)	42.6	(4.36)	1.5	(0.08)	3,105	(204.0)	173	(27.6)	22.3	(1.40)	2.1	(0.55)
Tennessee .....	81.2	(3.63)	89.3	(2.94)	98.6	(0.96)	47.1	(4.72)	1.6	(0.06)	1,652	(56.4)	94	(10.7)	13.0	(1.25)	1.8	(0.33)
Texas .....	93.7	(1.77)	98.3	(0.71)	99.0	(0.48)	42.4	(4.30)	1.7	(0.06)	1,779	(63.3)	106	(8.6)	18.8	(2.04)	1.6	(0.33)
Utah .....	87.2	(3.22)	94.8	(2.31)	86.2	(3.96)	51.0	(3.97)	1.4	(0.05)	1,651	(95.2)	84	(7.8)	9.8	(0.56)	1.4	(0.30)
Vermont .....	74.6	(5.33)	73.5	(5.29)	96.8	(2.06)	38.0	(4.20)	1.7	(0.10)	2,939	(127.9)	138	(10.3)	29.8	(1.27)	1.5	(0.69)
Virginia .....	95.2	(2.13)	99.5	(0.42)	95.5	(2.14)	52.6	(4.21)	1.9	(0.06)	1,717	(61.9)	88	(6.5)	16.2	(0.70)	1.3	(0.24)
Washington .....	92.9	(1.78)	96.0	(1.72)	98.9	(1.20)	46.5	(4.30)	2.0	(0.05)	2,060	(93.3)	92	(7.3)	15.7	(2.49)	1.8	(0.47)
West Virginia .....	42.7	(5.50)	54.6	(5.54)	86.8	(4.34)	33.4	(5.28)	0.9	(0.06)	1,594	(99.8)	74	(10.1)	8.9	(0.65)	1.6	(0.58)
Wisconsin .....	92.7	(3.07)	91.4	(3.67)	100.0	(†)	55.4	(4.43)	2.1	(0.06)	2,545	(141.8)	121	(8.5)	25.0	(1.26)	1.5	(0.59)
Wyoming .....	91.2	(3.40)	94.3	(2.92)	96.3	(2.72)	49.7	(5.02)	1.8	(0.07)	3,125	(142.3)	156	(22.4)	21.8	(1.59)	3.1	(0.87)

†Not applicable.

<sup>1</sup>Includes professional and nonprofessional staff.

<sup>2</sup>Data are for the prior school year.

<sup>3</sup>Includes grants and other contributions.

NOTE: Percentages are based on schools that have library/media centers. 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," 2003–04. (This table was prepared September 2006.)

**Table 410. Collections, staff, and operating expenditures of degree-granting institution libraries: Selected years, 1976–77 through 2003–04**

Collections, staff, and operating expenditures	1976–77 <sup>1</sup>	1978–79 <sup>1</sup>	1981–82	1984–85	1987–88	1991–92	1994–95	1996–97	1997–98	1999–2000	2001–02	2003–04
1	2	3	4	5	6	7	8	9	10	11	12	13
Number of libraries .....	3,058	3,122	3,104	3,322	3,438	3,274	3,303	3,408	3,658	3,527	3,568	3,653
Number of circulation transactions (in thousands).....	—	—	—	—	—	—	231,503	230,733	216,067	193,948	189,248	200,204
Total enrollment (in thousands) <sup>2</sup> .....	11,121	11,392	12,372	12,242	12,767	14,359	14,279	14,300	14,502	14,791	15,928	16,911
Full-time-equivalent enrollment <sup>2</sup> .....	8,313	8,348	9,015	8,952	9,230	10,361	10,348	10,402	10,615	10,944	11,766	12,688
Collections (in thousands)												
Number of volumes at end of year <sup>3</sup> ..	481,442	519,895	567,826	631,727	718,504	749,429	776,447	806,717	878,906	913,547	954,030	982,590
Number of volumes added during year.....	22,367	21,608	19,507	20,658	21,907	20,982	21,544	21,346	24,551	24,436	24,574	24,615
Number of serial subscriptions at end of year.....	4,670	4,775	4,890	6,317	6,416	6,966	6,212	5,709	10,908 <sup>4</sup>	7,499	9,855	12,764
Microform units at end of year.....	—	—	—	—	—	—	—	—	1,062,082	1,111,389	1,143,678	1,173,287
Electronic units at end of year <sup>5</sup> .....	—	—	—	—	—	—	465	983	3,473	—	—	—
Full-time-equivalent (FTE) library staff												
Total staff in regular positions <sup>6</sup> .....	57,087	58,416	58,476	58,476	67,251	67,166	67,433	67,581	68,337	69,123	69,526	69,047
Librarians and professional staff..	23,308	23,676	23,816	21,822	25,115	26,341	26,726	27,268	30,041	31,001	32,053	32,280
Other paid staff .....	33,779	34,740	34,660	38,026	40,733	40,421	40,381	40,022	38,026	37,893	37,473	36,767
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
FTE student enrollment per FTE staff member.....	146	143	154	153	137	154	153	154	155	158	169	184
Hours of student and other assistance (in thousands).....	39,950	39,552	40,068	28,360	—	—	—	—	—	—	—	—
Library operating expenditures <sup>7</sup>												
Total operating expenditures (in thousands).....	\$1,259,637	\$1,502,158	\$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
Salaries <sup>8</sup> .....	698,090	824,438	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
Hourly wages .....	68,683	79,535	100,847	—	—	—	—	—	—	—	—	—
Fringe benefits .....	—	—	231,209	—	—	—	—	—	—	271,954	—	—
Preservation.....	22,521	25,274	30,351	32,939	34,144	43,126	46,554	45,610	42,919	43,832	46,499	42,976
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
Utilities/networks/consortia .....	—	—	—	—	—	—	81,106	85,113	89,618	90,264	92,242	101,293
Information resources .....	373,699	450,180	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
Books and serial backfiles—												
paper .....	—	—	—	—	—	—	—	—	514,048	552,100	563,007	550,599
Books and serial backfiles—												
electronic .....	—	—	—	—	—	—	—	—	28,061	33,888	44,792	65,597
Current serials—paper.....	—	—	—	—	—	—	—	—	849,399	945,958	926,105	883,534
Current serials—electronic.....	—	—	—	—	—	—	—	—	125,470	203,371	297,657	480,138
Audiovisual materials .....	—	—	—	—	—	23,879	28,753	28,879	30,623	32,039	37,041	35,216
Document delivery/interlibrary loan.....	—	—	—	—	—	—	12,238	17,645	19,309	20,540	22,913	24,823
Other collection expenditures... ..	373,699	450,180	561,199	750,282	891,281	1,173,414	1,307,942	1,452,725	34,086	34,381	52,976	74,648
Other library operating expenditures.....	96,643	122,731	169,478	233,957	393,099	518,867	331,463	309,925	323,354	140,579	424,290	436,160
Operating expenditures per FTE student.....	152	180	216	269	300	352	388	414	433	459	460	453
Operating expenditures per FTE student in constant 2006–07 dollars <sup>9</sup> .....	527	536	468	518	529	520	526	531	546	553	527	497
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 <sup>8</sup> .....	55.4	54.9	55.7	48.1	52.4	51.8	50.4	49.9	50.4	48.4	50.8	50.7
Hourly wages .....	5.5	5.3	5.2	—	—	—	—	—	—	—	—	—
Fringe benefits .....	—	—	9.6	—	—	—	—	—	—	5.4	—	—
Preservation.....	1.8	1.7	1.6	1.4	1.2	1.2	1.2	1.1	0.9	0.9	0.9	0.7
Information resources .....	29.7	30.0	28.9	31.2	32.2	32.8	33.6	34.9	34.9	36.3	35.9	36.8
Other library operating expenditures <sup>10</sup> .....	7.7	8.2	8.7	9.7	14.2	14.2	14.9	14.2	13.8	9.0	12.4	11.8
Library operating expenditures as percent of total institutional expenditures for educational and general purposes.....	3.8	3.7	3.5	3.4	3.2	3.0	2.8	—	—	—	—	—

—Not available.

<sup>1</sup>Includes data for U.S. territories.

<sup>2</sup>Fall enrollment for the academic year specified.

<sup>3</sup>Includes data for schools newly added to the survey system, so end of year figure exceeds total of additions plus end of year value from previous year.

<sup>4</sup>Includes microform and electronic serials.

<sup>5</sup>Electronic files, formerly labeled "Computer files."

<sup>6</sup>Excludes student assistants.

<sup>7</sup>Excludes capital outlay.

<sup>8</sup>Includes expenditures for fringe benefits (except for 1984–85 and 1987–88), salary equivalents of contributed services staff, and hourly wages for 1996–97 and 1997–98.

<sup>9</sup>Constant 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.

<sup>10</sup>Includes 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 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 2003–04 Integrated Postsecondary Education Data System, "Academic Libraries Survey" (IPEDS-L:88–98), "Fall Enrollment Survey" (IPEDS-EF:87–99), and Spring 2002 and Spring 2004; Academic Libraries Survey (ALS), 2000, 2002, and 2004; and *Academic Libraries: 2004* (NCES 2007-301). (This table was prepared August 2007.)

**Table 411. Collections, staff, and operating expenditures of the 60 largest college and university libraries: 2003–04**

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	15,392	409	100,009	1,255	434	\$106,455	\$56,321	107	37,091	6,769
Yale University (CT) .....	2	11,390	167,205	66,867	673	180	65,213	27,787	111	13,904	2,060
University of Illinois at Urbana-Champaign.....	3	10,192	8,430	89,444	508	104	33,557	17,512	109	34,619	4,319
University of California, Berkeley .....	4	9,813	—	79,394	646	103	53,264	27,010	98	27,000	3,300
University of Texas at Austin .....	5	8,482	400,205	48,096	537	116	36,316	18,785	85	134,042	5,011
Columbia University in the City of NY .....	6	8,443	130,440	65,177	536	138	44,554	20,487	105	68,733	3,719
University of California, Los Angeles .....	7	7,989	26,784	78,171	589	119	47,692	26,344	93	94,957	2,440
Stanford University (CA) .....	8	7,987	19,609	29,773	676	138	71,463	38,915	105	19,338	2,068
University of Michigan, Ann Arbor .....	9	7,958	426,493	67,554	596	157	46,738	21,803	168	68,336	3,796
University of Wisconsin, Madison .....	10	7,348	459,427	55,164	564	217	39,262	21,585	148	79,307	4,140
Cornell University (NY) .....	11	7,297	84,569	72,788	553	124	42,561	19,736	144	—	2,159
University of Chicago (IL) .....	12	7,124	166,729	63,367	306	63	26,918	10,586	144	23,099	960
Indiana University, Bloomington .....	13	6,770	87,724	70,370	485	99	30,684	13,902	168	86,942	5,393
University of Washington, Seattle .....	14	6,500	52,689	47,843	473	115	32,278	16,896	135	91,542	5,704
University of Minnesota, Twin Cities .....	15	6,374	52,610	35,801	386	92	31,630	15,771	100	46,880	3,324
Princeton University (NJ) .....	16	6,253	87,539	44,634	399	99	36,418	16,483	110	11,798	970
Ohio State University, Main Campus .....	17	5,810	14,959	35,561	401	86	28,510	12,881	168	45,249	6,023
University of North Carolina, Chapel Hill .....	18	5,601	927	52,454	413	134	29,619	14,112	147	53,000	2,702
University of Pennsylvania .....	19	5,377	111,790	39,426	401	114	36,396	14,498	111	36,000	6,000
Duke University (NC) .....	20	5,360	26,601	38,112	339	106	30,157	13,843	119	60,000	2,188
University of Virginia, Main Campus .....	21	4,987	92,140	52,192	352	105	29,355	15,892	154	76,423	3,227
Pennsylvania State University, Main Campus .....	22	4,975	211,721	58,459	631	154	42,596	21,779	168	106,328	3,630
Rutgers University, New Brunswick (NJ) .....	23	4,930	131,163	14,626	338	68	21,530	12,106	106	55,012	2,151
University of Arizona .....	24	4,708	167,833	26,029	261	66	21,211	8,488	168	34,000	900
New York University .....	25	4,643	386,256	49,044	434	118	34,462	16,680	119	22,608	2,682
University of Pittsburgh, Main Campus (PA) ..	26	4,640	173,121	44,924	385	118	25,665	11,054	123	83,242	5,295
Michigan State University .....	27	4,629	10,440	33,420	278	71	20,956	9,706	148	41,594	814
University of Kansas, Main Campus .....	28	4,600	1,775	38,002	271	64	16,709	7,650	100	27,775	2,004
University of Iowa .....	29	4,475	27,892	50,675	301	73	24,119	10,890	123	49,616	2,136
Northwestern University (IL) .....	30	4,409	55,667	39,944	338	89	25,631	11,692	119	26,456	2,456
University of Oklahoma, Norman Campus .....	31	4,387	259,909	24,295	162	38	13,747	4,049	117	20,974	788
University of Georgia .....	32	4,029	35,002	67,268	318	82	21,544	9,446	101	27,730	2,220
University of Florida .....	33	4,022	32,592	25,330	384	102	25,112	11,712	111	43,055	3,881
University of Southern California .....	34	3,866	112,219	52,569	351	83	31,813	13,747	160	52,257	1,246
Washington University in St Louis (MO) .....	35	3,647	100,476	47,266	294	102	28,436	10,888	120	38,000	1,365
Johns Hopkins University (MD) .....	36	3,606	702,204	50,097	341	77	28,165	11,532	120	18,078	1,662
Arizona State University, Main Campus .....	37	3,594	226,650	32,001	284	71	21,086	9,174	149	71,882	2,798
University of Hawaii, Manoa .....	38	3,497	2,464	32,797	238	69	16,532	7,686	98	29,860	3,583
University of Colorado at Boulder .....	39	3,485	15,006	23,025	208	50	18,886	7,827	104	2,051	3,741
Brigham Young University (UT) .....	40	3,445	87,038	27,161	390	82	22,407	10,691	105	76,000	3,250
University of South Carolina, Columbia .....	41	3,436	348	24,152	281	68	17,271	7,020	111	20,000	2,276
University of Rochester (NY) .....	42	3,371	3,482	22,770	200	92	16,325	7,954	117	4,000	1,252
State University of New York, Buffalo .....	43	3,360	—	34,126	257	69	18,720	9,581	143	12,100	1,433
Wayne State University (MI) .....	44	3,348	23,727	20,940	269	51	19,061	9,491	142	51,031	1,147
Louisiana State U. & A&M & Hebert Law Center ..	45	3,316	82,714	58,918	203	44	12,790	5,729	93	41,900	2,700
Brown University (RI) .....	46	3,305	113,192	18,149	209	62	17,504	7,981	110	17,648	685
North Carolina State University at Raleigh .....	47	3,245	144,974	54,799	289	103	22,209	9,707	146	37,367	1,438
University of California, Santa Barbara .....	48	3,229	42,673	38,223	242	45	16,502	8,062	103	37,632	2,267
University of New Mexico, Main Campus .....	49	3,216	136,944	14,901	308	73	19,397	—	100	34,216	1,807
University of Missouri, Columbia .....	50	3,206	—	19,746	194	55	14,232	5,550	94	30,084	1,599
University of Delaware .....	51	3,187	157,290	12,476	201	49	14,828	6,692	100	18,834	2,358
University of Utah .....	52	3,186	99,102	40,753	351	68	22,230	10,752	115	41,800	7,205
University of Massachusetts, Amherst .....	53	3,158	86,236	37,716	158	47	11,655	5,971	106	20,000	1,500
University of Notre Dame (IN) .....	54	3,122	3,512	22,377	254	58	18,765	8,574	126	17,673	472
Texas A&M University .....	55	3,097	214,210	49,197	347	80	25,842	10,188	129	47,761	783
University of Kentucky .....	56	3,093	27,441	29,633	286	77	19,270	7,838	140	59,479	2,400
University of California, Davis .....	57	3,068	54,487	32,208	262	52	17,588	8,901	95	39,301	1,716
Temple University (PA) .....	58	3,060	132,570	23,868	204	59	14,619	6,424	108	44,982	1,583
University of Cincinnati, Main Campus .....	59	3,050	74,049	39,787	250	61	19,503	8,283	105	36,420	2,918
University of Maryland, College Park .....	60	3,017	107,489	33,438	257	121	20,749	10,285	162	59,320	5,842

—Not available.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Academic Libraries Survey (ALS), 2004. (This table was prepared July 2007.)

**Table 412. Public libraries, books and serial volumes, library visits, circulation, and reference transactions, by state: Fiscal year 2004**

State	Number of public libraries	Number of books and serial volumes (in thousands)	Number of books and serial volumes per capita	Library visits per capita <sup>1</sup>	Circulation per capita	Public library reference transactions per capita <sup>2</sup>
1	2	3	4	5	6	7
<b>United States</b> .....	<b>9,207</b> <sup>3</sup>	<b>804,943</b>	<b>2.8</b>	<b>4.7</b>	<b>7.1</b>	<b>1.1</b>
Alabama .....	208	9,125	2.0	3.2	4.1	0.8
Alaska .....	88	2,236	3.4	5.2	6.3	0.5
Arizona .....	91	9,512	1.8	4.0	7.5	0.9
Arkansas .....	48	5,706	2.1	3.1	4.4	0.7
California .....	179	77,776	2.2	4.2	5.5	1.0
Colorado .....	115	11,546	2.6	6.7	10.6	1.3
Connecticut .....	194	14,778	4.2	6.6	9.2	1.3
Delaware .....	21	1,628	2.1	4.5	6.4	0.6
District of Columbia .....	1	2,436	4.4	3.5	1.9	2.0
Florida .....	70	32,599	1.9	4.0	5.4	1.3
Georgia .....	58	15,027	1.8	3.7	4.7	0.9
Hawaii .....	1	3,177	2.5	4.4	5.0	0.7
Idaho .....	104	3,785	3.1	6.0	8.2	0.8
Illinois .....	626	43,172	3.8	5.7	8.3	1.5
Indiana .....	239	23,906	4.2	6.7	11.9	1.3
Iowa .....	540	12,066	4.1	5.5	9.1	0.6
Kansas .....	325	10,818	4.7	6.2	10.7	1.2
Kentucky .....	116	8,254	2.0	3.8	5.7	0.6
Louisiana .....	66	11,581	2.6	3.1	4.3	1.2
Maine .....	269	6,294	5.3	5.4	7.3	0.7
Maryland .....	24	14,825	2.7	5.1	9.4	1.3
Massachusetts .....	370	31,571	4.9	5.8	7.7	0.9
Michigan .....	384	33,258	3.4	4.5	6.3	0.8
Minnesota .....	140	16,160	3.2	5.0	9.9	0.9
Mississippi .....	49	5,728	2.0	2.8	3.2	0.5
Missouri .....	151	18,165	3.6	4.8	8.7	0.9
Montana .....	79	2,695	3.0	4.1	6.0	0.5
Nebraska .....	276	6,446	4.6	5.4	8.8	0.8
Nevada .....	22	4,037	1.7	4.1	6.2	0.7
New Hampshire .....	231	5,986	4.6	4.8	7.6	0.7
New Jersey .....	306	31,030	3.7	5.1	6.4	0.9
New Mexico .....	92	4,228	2.6	3.7	5.3	0.9
New York .....	753	73,771	3.9	5.7	7.1	1.5
North Carolina .....	75	16,134	1.9	3.9	5.3	1.2
North Dakota .....	83	2,314	4.2	4.7	7.5	0.7
Ohio .....	250	48,610	4.2	7.2	14.8	1.6
Oklahoma .....	112	6,830	2.4	4.6	6.4	0.7
Oregon .....	125	9,005	2.8	6.2	14.5	0.9
Pennsylvania .....	455	29,263	2.4	3.6	5.2	0.7
Rhode Island .....	48	4,212	3.9	5.8	6.7	0.9
South Carolina .....	42	8,698	2.1	3.4	4.9	1.2
South Dakota .....	125	3,199	5.5	6.4	9.0	0.9
Tennessee .....	184	11,038	1.9	3.2	4.1	0.8
Texas .....	555	39,749	2.0	3.2	4.8	1.1
Utah .....	72	6,391	2.7	6.7	12.5	1.6
Vermont .....	189	2,855	5.0	5.4	7.3	0.8
Virginia .....	90	19,353	2.6	4.5	8.4	1.1
Washington .....	66	17,274	2.9	5.9	10.8	1.0
West Virginia .....	97	4,822	2.7	3.4	4.3	0.6
Wisconsin .....	380	19,462	3.5	6.0	10.2	1.0
Wyoming .....	23	2,409	4.8	6.0	8.3	1.2

<sup>1</sup>The total number of persons entering the library for any purpose during the year.

<sup>2</sup>A 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.

<sup>3</sup>Excludes branches that are associated with a central library. Consists of 7,441 single-outlet libraries and 1,766 multiple-outlet libraries. Some single-outlet libraries are bookmobiles, and some multiple-outlet libraries consist of or include bookmobiles.

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

SOURCE: U.S. Department of Education, National Center for Education Statistics, Public Libraries Survey (PLS), fiscal year 2004, *Public Libraries in the United States: Fiscal Year 2004*. (This table was prepared September 2006.)





**Table 413. 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 <sup>1</sup>		Size of school enrollment			Metropolitan status				Percent of students eligible for free or reduced-price lunch <sup>2</sup>																
			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														
<b>Percent of instructional computers with internet access</b>																												
1995 <sup>5</sup> .....	8	(-)	7	(-)	9	(-)	7	(-)	9	(-)	6	(-)	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)
<b>Number of public school students per instructional computer with internet access</b>																												
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)
<b>Number of instructional rooms<sup>6</sup> (in thousands)</b>																												
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)
<b>Percent of instructional rooms<sup>6</sup> with internet access<sup>3</sup></b>																												
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.

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

<sup>2</sup>Percent 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).

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

<sup>4</sup>This estimate fell between 99.5 percent and 100.0 percent and therefore was rounded to 100 percent.

<sup>5</sup>Includes computers used for instructional or administrative purposes.

<sup>6</sup>Includes 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 414. 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 <sup>1</sup>									
				School assignments	E-mail and messaging	Playing games	Online courses	Product purchases and information	News, weather, and sports	Health information <sup>2</sup>	Government information <sup>3</sup>	Conduct financial transactions <sup>3,4</sup>	Look for jobs <sup>5</sup>
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>Total, all persons</b> .....	<b>161,636 (309.1)</b>	<b>58.7 (0.14)</b>	<b>— (†)</b>	<b>— (†)</b>	<b>82.1 (0.15)</b>	<b>42.2 (0.19)</b>	<b>5.6 (0.09)</b>	<b>71.2 (0.17)</b>	<b>60.6 (0.19)</b>	<b>39.3 (0.20)</b>	<b>44.7 (0.21)</b>	<b>30.4 (0.19)</b>	<b>18.7 (0.16)</b>
<b>Sex</b>													
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)
<b>Race/ethnicity</b>													
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)
<b>Age</b>													
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 (0.23)	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 (0.22)	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)
<b>Family income<sup>5</sup></b>													
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)
<b>Total, all students</b> .....	<b>49,520 (300.6)</b>	<b>66.1 (0.27)</b>	<b>48.8 (0.28)</b>	<b>82.2 (0.26)</b>	<b>70.1 (0.32)</b>	<b>59.3 (0.34)</b>	<b>5.9 (0.16)</b>	<b>49.8 (0.35)</b>	<b>46.5 (0.35)</b>	<b>20.1 (0.33)</b>	<b>32.8 (0.45)</b>	<b>20.5 (0.39)</b>	<b>17.8 (0.37)</b>
<b>Elementary/secondary<sup>6</sup></b> .....	<b>34,636 (262.4)</b>	<b>59.4 (0.31)</b>	<b>43.3 (0.32)</b>	<b>77.9 (0.34)</b>	<b>60.6 (0.40)</b>	<b>64.2 (0.40)</b>	<b>2.0 (0.12)</b>	<b>37.1 (0.40)</b>	<b>36.0 (0.40)</b>	<b>9.3 (0.31)</b>	<b>15.8 (0.53)</b>	<b>5.6 (0.34)</b>	<b>7.0 (0.37)</b>
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)
<b>College</b> .....	<b>14,884 (181.2)</b>	<b>89.5 (0.37)</b>	<b>68.1 (0.56)</b>	<b>92.0 (0.34)</b>	<b>92.4 (0.34)</b>	<b>47.8 (0.63)</b>	<b>14.9 (0.45)</b>	<b>79.2 (0.51)</b>	<b>71.1 (0.57)</b>	<b>34.9 (0.60)</b>	<b>45.4 (0.63)</b>	<b>31.5 (0.59)</b>	<b>25.8 (0.55)</b>
<b>Sex</b>													
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)
<b>Elementary/secondary<sup>6</sup></b> .....	<b>17,519 (195.3)</b>	<b>58.4 (0.44)</b>	<b>42.2 (0.44)</b>	<b>76.6 (0.49)</b>	<b>57.2 (0.58)</b>	<b>67.5 (0.54)</b>	<b>2.1 (0.17)</b>	<b>39.4 (0.57)</b>	<b>39.3 (0.57)</b>	<b>7.6 (0.40)</b>	<b>15.4 (0.74)</b>	<b>5.6 (0.47)</b>	<b>6.4 (0.50)</b>
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)
<b>College</b> .....	<b>6,587 (123.0)</b>	<b>90.0 (0.54)</b>	<b>70.2 (0.82)</b>	<b>91.4 (0.53)</b>	<b>92.3 (0.51)</b>	<b>55.1 (0.94)</b>	<b>13.6 (0.65)</b>	<b>79.8 (0.76)</b>	<b>77.9 (0.79)</b>	<b>29.2 (0.86)</b>	<b>45.0 (0.94)</b>	<b>32.7 (0.89)</b>	<b>26.0 (0.83)</b>

See notes at end of table.

**Table 414. 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 <sup>1</sup>										
				School assignments	E-mail and messaging	Playing games	Online courses	Product purchases and information	News, weather, and sports	Health information <sup>2</sup>	Government information <sup>3</sup>	Conduct financial transactions <sup>3,4</sup>	Look for jobs <sup>5</sup>	
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 <sup>6</sup> .....	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 <sup>6</sup> .....	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 <sup>6</sup> .....	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 <sup>6</sup> .....	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 <sup>5</sup>														
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.

<sup>1</sup>Individuals may be counted in more than one internet activity.

<sup>2</sup>Data are for persons 12 years old and over.

<sup>3</sup>Data are for persons 15 years old and over.

<sup>4</sup>Includes online banking and stock and securities transactions.

<sup>5</sup>Excludes persons whose income data were not available.

<sup>6</sup>Includes 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 415. 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 <sup>1</sup>								
									Word processing	Connect to Internet	E-mail	Spreadsheets/databases <sup>2</sup>	Graphics/design <sup>2</sup>	School assignments <sup>3</sup>	Household records/finances <sup>2</sup>	Games	
1	2	3	4	5	6	7	8	9	10	11	12	13					
<b>Total, age 3 and over</b> .....	<b>81,013 (600.0)</b>	<b>31.7 (0.16)</b>	<b>156,744 (954.0)</b>	<b>56.9 (0.16)</b>	<b>53.1 (0.22)</b>	<b>82.7 (0.17)</b>	<b>72.7 (0.19)</b>	<b>32.0 (0.23)</b>	<b>37.6 (0.24)</b>	<b>75.9 (0.29)</b>	<b>30.8 (0.22)</b>	<b>58.5 (0.22)</b>					
<b>Sex</b>																	
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)					
<b>Race/ethnicity</b>																	
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)					
<b>Age</b>																	
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)					
<b>Family income<sup>4</sup></b>																	
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.

<sup>1</sup>Individuals may be counted in more than one computer activity.

<sup>2</sup>Data are for persons 15 years old and over.

<sup>3</sup>Data are for students only.

<sup>4</sup>Excludes 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 416. 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 <sup>1</sup>																		
				Games	Internet	School assignments	E-mail	Word processing	Graphics and design	Spreadsheets and databases	Personal finances											
				5	6	7	8	9	10	11	12											
<b>Total, all students</b> .....	<b>74,911</b>	<b>(312.9)</b>	<b>52,942</b>	<b>(286.3)</b>	<b>70.7</b>	<b>(0.24)</b>	<b>76.2</b>	<b>(0.27)</b>	<b>72.3</b>	<b>(0.28)</b>	<b>75.9</b>	<b>(0.27)</b>	<b>56.5</b>	<b>(0.31)</b>	<b>55.1</b>	<b>(0.32)</b>	—	(†)	—	(†)	—	(†)
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.

<sup>1</sup>Individuals 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 417. 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 <sup>1</sup>	College <sup>2</sup>	Total	Elementary and secondary <sup>1</sup>	College <sup>2</sup>	Total	Elementary and secondary <sup>1</sup>					
								Total	Under 5 years old	5 to 9 years old	10 to 14 years old	15 years old or over	College <sup>2</sup>
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Percent of students using computers at school													
<b>Total</b> .....	<b>59.0 (0.32)</b>	<b>60.1 (0.38)</b>	<b>54.7 (0.71)</b>	<b>68.8 (0.27)</b>	<b>70.4 (0.32)</b>	<b>62.9 (0.60)</b>	<b>83.8 (0.20)</b>	<b>83.5 (0.24)</b>	<b>42.6 (1.14)</b>	<b>80.1 (0.45)</b>	<b>90.3 (0.32)</b>	<b>91.2 (0.35)</b>	<b>84.9 (0.41)</b>
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 <sup>3</sup>													
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													
<b>Total</b> .....	<b>27.0 (0.28)</b>	<b>24.5 (0.33)</b>	<b>36.2 (0.65)</b>	<b>45.1 (0.29)</b>	<b>42.8 (0.34)</b>	<b>53.2 (0.62)</b>	<b>70.7 (0.24)</b>	<b>67.6 (0.30)</b>	<b>49.9 (1.16)</b>	<b>62.5 (0.55)</b>	<b>71.6 (0.49)</b>	<b>74.3 (0.54)</b>	<b>81.6 (0.44)</b>
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 417. 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 <sup>1</sup>	College <sup>2</sup>	Total	Elementary and secondary <sup>1</sup>	College <sup>2</sup>	Total	Elementary and secondary <sup>1</sup>					
								Total	Under 5 years old	5 to 9 years old	10 to 14 years old	15 years old or over	College <sup>2</sup>
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>Family income<sup>3</sup></b>													
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)
<b>Control of school</b>													
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)
<b>Percent of students using computers at home for school work</b>													
<b>Total .....</b>	<b>14.8 (0.22)</b>	<b>12.0 (0.25)</b>	<b>25.0 (0.59)</b>	<b>28.6 (0.26)</b>	<b>24.8 (0.30)</b>	<b>42.5 (0.61)</b>	<b>53.6 (0.27)</b>	<b>47.2 (0.32)</b>	<b>7.5 (0.61)</b>	<b>26.2 (0.50)</b>	<b>60.9 (0.53)</b>	<b>68.6 (0.57)</b>	<b>76.0 (0.48)</b>
<b>Sex</b>													
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)
<b>Race</b>													
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)
<b>Family income<sup>3</sup></b>													
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)
<b>Control of school</b>													
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)

<sup>1</sup>Includes students enrolled in prekindergarten through grade 12, ages 3 and above.  
<sup>2</sup>Includes students enrolled at the undergraduate and postbaccalaureate levels.  
<sup>3</sup>Excludes 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 418. 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 <sup>1</sup>									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											
<b>Total</b> .....	<b>45.8</b>	<b>49.4</b>	<b>(0.24)</b>	<b>56.1</b>	<b>(0.19)</b>	<b>76,570</b>	<b>64.4</b>	<b>(0.30)</b>	<b>75.4</b>	<b>(0.27)</b>	<b>57.0</b>	<b>(0.31)</b>	<b>29.7</b>	<b>(0.29)</b>	<b>16.4</b>	<b>(0.23)</b>	<b>67.8</b>	<b>(0.29)</b>	<b>8.2</b>	<b>(0.17)</b>	<b>45.3</b>	<b>(0.31)</b>	
<b>Age</b>																							
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)	
<b>Educational attainment and sex</b>																							
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)	
<b>Male</b> .....	<b>40.3</b>	<b>44.1</b>	<b>(0.31)</b>	<b>50.5</b>	<b>(0.25)</b>	<b>36,976</b>	<b>67.2</b>	<b>(0.42)</b>	<b>77.7</b>	<b>(0.37)</b>	<b>58.6</b>	<b>(0.44)</b>	<b>33.8</b>	<b>(0.42)</b>	<b>21.4</b>	<b>(0.37)</b>	<b>65.6</b>	<b>(0.43)</b>	<b>7.8</b>	<b>(0.24)</b>	<b>48.8</b>	<b>(0.45)</b>	
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)	
<b>Female</b> .....	<b>52.4</b>	<b>56.5</b>	<b>(0.32)</b>	<b>62.5</b>	<b>(0.24)</b>	<b>39,594</b>	<b>61.7</b>	<b>(0.42)</b>	<b>73.3</b>	<b>(0.38)</b>	<b>55.5</b>	<b>(0.43)</b>	<b>26.0</b>	<b>(0.38)</b>	<b>11.8</b>	<b>(0.28)</b>	<b>69.8</b>	<b>(0.40)</b>	<b>8.6</b>	<b>(0.24)</b>	<b>42.2</b>	<b>(0.43)</b>	
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)	
<b>Race/ethnicity</b>																							
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 418. 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 <sup>1</sup>									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		
<b>Occupational group</b>														
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)	
<b>Family income<sup>3</sup></b>														
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.

<sup>1</sup>Individuals may be counted in more than one computer activity.

<sup>2</sup>Due to changes in occupational definitions, older data are not comparable to 2003 data.

<sup>3</sup>Excludes 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.)