

CHAPTER 7

Libraries and Adult Education

This chapter contains statistics on libraries and adult education. These data provide a capsule description of the magnitude and availability of library resources as well as the extent of adults' involvement in educational activities other than postsecondary degree programs.

The first section of the chapter (tables 427 to 432) deals with elementary and secondary school libraries, college and university libraries, and public libraries. It contains data on collections, population served, staff, and expenditures. Table 431 provides institutional-level information for the 60 largest college libraries in the country.

The second section of the chapter (tables 433 to 435) provides information about adults' participation in various types of educational activities, including basic skills and General Educational Development (GED) classes, English as a Second Language (ESL) classes, career-related classes, and personal-interest classes. Information on participation is shown for adults having various demographic characteristics and for adults living in different states.

Libraries

The average number of library staff per public school with a library was 1.7 in 2007–08, including 0.8 certified library/media specialists (table 427). On average, public school libraries had larger numbers of books on a per student basis in 2007–08 (2,015 per 100 students) than in 1999–2000 (1,803 per 100 students) and 2003–04 (1,891 per 100 students). In 2007–08, public elementary school libraries had larger holdings than public secondary school libraries on a per student basis (2,316 books per 100 students, compared to 1,432 books per 100 students).

From 1991–92 to 1999–2000, the increase in college library operating expenditures was greater than the increase in enrollment; after adjustment for inflation, library operating expenditures per full-time-equivalent (FTE) student rose 6 percent during this period (table 430). From 1999–2000 to 2007–08, library operating expenditures per FTE student

dropped 14 percent. Overall, there was a net decrease of 9 percent in library operating expenditures per FTE student between 1991–92 and 2007–08. In 2007–08, the average library operating expenditure per FTE student was \$492.

In 2008, there were 9,221 public libraries in the United States with a total of 816 million books and serial volumes. The annual number of visits per capita was 5.1, and the annual number of reference transactions per capita was 1.0 (table 432).

Adult Education

The percentage of adults who reported participating in any adult education courses was higher in 2005 (44 percent) than in 1995 (40 percent) (table 435). Adults are defined here as people age 17 and over who are not enrolled in high school, and the same individual could report participating in multiple types of courses. In 2005, the highest percentage of adults participated in career- or job-related courses (27 percent), followed by personal-interest courses (21 percent). About 1 percent of adults participated in each of the following three types of adult education activities: basic skills/GED classes, ESL classes, and apprentice programs.

Among people age 17 and over who were employed, 39 percent participated in career- or job-related courses in 2005 (table 434). Participation rates varied for employees with different characteristics. For example, employed women's participation in career- or job-related courses was higher than that of employed men in 2005 (47 percent vs. 32 percent). For employees with some vocational or technical education and those with an associate's or higher degree, rates of participation in career- or job-related courses were generally higher than for employees with less than high school completion or high school completion. For example, 53 percent of employees whose highest level of education was a bachelor's degree took such courses in 2005, compared with 25 percent of employees whose highest level was high school completion.

Table 427. Selected statistics on public school libraries/media centers, by level of school: 1999–2000, 2003–04, and 2007–08

Selected statistic	1999–2000	2003–04				2007–08			
		Total	Elementary	Secondary	Combined elementary/secondary	Total	Elementary	Secondary	Combined elementary/secondary
1	2	3	4	5	6	7	8	9	10
Number of schools with libraries/media centers	77,300 (421)	78,300 (548)	57,400 (440)	16,300 (313)	4,600 (201)	81,900 (634)	59,700 (492)	17,800 (414)	4,400 (239)
Average number of staff per library/media center.....	1.89 (0.018)	1.76 (0.014)	1.66 (0.018)	2.09 (0.025)	1.74 (0.116)	1.72 (0.017)	1.65 (0.019)	2.04 (0.039)	1.42 (0.057)
Certified library/media specialists	0.81 (0.007)	0.79 (0.009)	0.73 (0.012)	1.03 (0.018)	0.73 (0.023)	0.78 (0.011)	0.73 (0.013)	0.98 (0.019)	0.66 (0.033)
Full-time	0.65 (0.007)	0.65 (0.009)	0.58 (0.010)	0.92 (0.018)	0.55 (0.027)	0.66 (0.010)	0.61 (0.012)	0.88 (0.018)	0.49 (0.032)
Part-time	0.16 (0.006)	0.14 (0.007)	0.15 (0.009)	0.11 (0.009)	0.18 (0.020)	0.13 (0.007)	0.13 (0.010)	0.10 (0.009)	0.18 (0.020)
Other professional staff	0.17 (0.007)	0.19 (0.008)	0.19 (0.011)	0.14 (0.010)	0.28 (0.036)	0.22 (0.010)	0.22 (0.013)	0.21 (0.021)	0.24 (0.027)
Full-time	0.12 (0.005)	0.13 (0.007)	0.14 (0.009)	0.11 (0.009)	0.16 (0.022)	0.13 (0.008)	0.13 (0.010)	0.14 (0.017)	0.15 (0.022)
Part-time	0.06 (0.004)	0.05 (0.005)	0.05 (0.006)	0.03 (0.004)	0.11 (0.031)	0.08 (0.007)	0.08 (0.009)	0.07 (0.013)	0.08 (0.017)
Other paid employees	0.91 (0.014)	0.78 (0.011)	0.75 (0.013)	0.93 (0.017)	0.73 (0.085)	0.72 (0.013)	0.70 (0.016)	0.86 (0.027)	0.51 (0.036)
Full-time	0.49 (0.008)	0.46 (0.009)	0.41 (0.011)	0.65 (0.017)	0.35 (0.028)	0.43 (0.013)	0.39 (0.016)	0.60 (0.022)	0.27 (0.028)
Part-time	0.41 (0.014)	0.33 (0.012)	0.34 (0.014)	0.28 (0.014)	0.38 (0.085)	0.29 (0.011)	0.31 (0.014)	0.26 (0.018)	0.24 (0.028)
Percent of libraries/media centers with certain media equipment									
Automated catalog	72.8 (0.69)	82.7 (0.66)	81.9 (0.89)	90.6 (0.76)	63.7 (2.59)	87.2 (0.71)	87.5 (0.94)	90.6 (1.08)	69.8 (2.88)
Automated circulation system	74.4 (0.65)	86.9 (0.61)	86.7 (0.82)	92.8 (0.80)	68.8 (2.45)	89.5 (0.68)	89.9 (0.87)	92.6 (0.98)	72.4 (3.15)
Media retrieval system ¹	— (†)	— (†)	— (†)	— (†)	— (†)	34.9 (1.05)	35.9 (1.33)	35.1 (1.66)	20.6 (2.32)
Connection to Internet	90.1 (0.57)	95.1 (0.35)	94.1 (0.48)	99.2 (0.22)	92.6 (1.40)	96.7 (0.40)	96.5 (0.51)	98.6 (0.51)	91.6 (1.90)
Digital video disc (DVD) player/video cassette recorder (VCR)	— (†)	87.8 (0.60)	87.0 (0.70)	90.4 (1.19)	89.1 (1.53)	87.2 (0.77)	86.7 (1.02)	89.6 (1.00)	84.5 (2.20)
Disability assistance technologies, such as TDD	— (†)	11.9 (0.50)	10.2 (0.61)	18.0 (0.79)	11.7 (1.34)	23.9 (1.05)	23.0 (1.33)	26.4 (1.34)	25.9 (2.76)
Percent of libraries/media centers with certain services									
Students permitted to check out laptops	— (†)	— (†)	— (†)	— (†)	— (†)	27.5 (1.02)	26.9 (1.27)	29.8 (1.34)	26.1 (2.57)
Staff permitted to check out laptops	— (†)	— (†)	— (†)	— (†)	— (†)	45.9 (1.07)	45.2 (1.35)	50.1 (1.50)	38.5 (2.85)
Number of library computer workstations per 100 students	— (†)	2.3 (0.04)	2.2 (0.05)	2.5 (0.05)	2.7 (0.17)	2.6 (0.05)	2.5 (0.07)	2.9 (0.06)	3.0 (0.17)
Average holdings per 100 students at the end of the school year ²									
Books (number of volumes)	1,803 (19.7)	1,891 (45.1)	2,127 (70.2)	1,376 (20.0)	2,407 (117.7)	2,015 (30.5)	2,316 (40.2)	1,432 (36.6)	2,439 (132.3)
Audio and video materials	59 (0.9)	80 (3.7)	86 (5.7)	65 (2.2)	97 (13.6)	90 (3.8)	93 (5.6)	81 (5.2)	107 (13.3)
Average additions per 100 students during the school year ²									
Books (number of volumes)	— (†)	99.3 (2.08)	118.4 (3.13)	61.2 (1.75)	109.2 (8.40)	95.3 (2.21)	113.3 (3.26)	62.1 (2.67)	103.4 (7.41)
Audio and video materials	— (†)	5.1 (0.19)	5.3 (0.28)	4.4 (0.20)	6.9 (0.83)	5.4 (0.49)	5.9 (0.77)	4.5 (0.41)	5.7 (0.84)
Total expenditures for library/media materials per pupil ^{2,3}	\$23.37 (0.438)	\$16.24 (0.322)	\$16.00 (0.469)	\$16.11 (0.320)	\$21.24 (2.498)	\$16.11 (0.461)	\$16.18 (0.591)	\$15.90 (0.647)	\$17.00 (1.216)
Books	9.97 (0.153)	10.99 (0.299)	11.72 (0.452)	9.68 (0.275)	10.19 (0.631)	11.40 (0.291)	11.99 (0.389)	10.26 (0.504)	12.10 (1.094)
Audio and video materials	1.66 (0.032)	1.14 (0.045)	1.11 (0.053)	1.11 (0.062)	1.96 (0.619)	1.08 (0.055)	1.06 (0.088)	1.11 (0.054)	1.16 (0.152)
Current serial subscriptions	1.26 (0.016)	1.38 (0.025)	1.06 (0.031)	1.87 (0.049)	2.50 (0.148)	— (†)	— (†)	— (†)	— (†)
Electronic subscriptions	0.81 (0.018)	0.88 (0.033)	0.39 (0.042)	1.79 (0.061)	1.25 (0.249)	— (†)	— (†)	— (†)	— (†)

—Not available.

†Not applicable.

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

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

³Includes other expenditures not separately shown.

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

SOURCE: U.S. Department of Education, National Center for Education Statistics, Schools and Staffing Survey (SASS), "Public School Library Media Center Questionnaire," 1999–2000, 2003–04, and 2007–08; and "Charter School Questionnaire," 1999–2000. (This table was prepared November 2009.)

Table 428. Selected statistics on public school libraries/media centers, by level and enrollment size of school: 2007–08

Selected statistic	All public school libraries/media centers	Elementary school libraries/media centers					Secondary school libraries/media centers				
		Total	Less than 150	150 to 499	500 to 749	750 or more	Total	Less than 500	500 to 749	750 to 1,499	1,500 or more
1	2	3	4	5	6	7	8	9	10	11	12
Number of schools with libraries/media centers	81,900 (634)	59,700 (492)	3,300 (399)	31,100 (1054)	16,400 (812)	8,900 (534)	17,800 (414)	6,300 (353)	3,000 (246)	5,100 (273)	3,300 (198)
Average number of staff per library/media center	1.72 (0.017)	1.65 (0.019)	1.28 (0.099)	1.58 (0.027)	1.73 (0.045)	1.89 (0.053)	2.04 (0.039)	1.59 (0.071)	1.78 (0.068)	2.18 (0.054)	2.94 (0.081)
Certified library/media specialists	0.78 (0.011)	0.73 (0.013)	0.60 (0.069)	0.70 (0.019)	0.76 (0.024)	0.86 (0.030)	0.98 (0.019)	0.73 (0.035)	0.87 (0.035)	1.09 (0.026)	1.38 (0.046)
Full-time	0.66 (0.010)	0.61 (0.012)	0.25 (0.072)	0.53 (0.018)	0.71 (0.022)	0.81 (0.029)	0.88 (0.018)	0.57 (0.033)	0.80 (0.040)	1.02 (0.029)	1.31 (0.049)
Part-time	0.13 (0.007)	0.13 (0.010)	0.36 (0.070)	0.17 (0.014)	0.06 (0.016)	0.05 (0.013)	0.10 (0.009)	0.16 (0.019)	0.07 (0.020)	0.07 (0.017)	0.07 (0.022)
Other professional staff	0.22 (0.010)	0.22 (0.013)	0.20 (0.059)	0.23 (0.016)	0.20 (0.028)	0.21 (0.030)	0.21 (0.021)	0.27 (0.044)	0.20 (0.051)	0.16 (0.026)	0.15 (0.033)
Full-time	0.13 (0.008)	0.13 (0.010)	0.10 (0.051)	0.13 (0.014)	0.14 (0.021)	0.13 (0.021)	0.14 (0.017)	0.17 (0.039)	0.11 (0.027)	0.13 (0.023)	0.12 (0.025)
Part-time	0.08 (0.007)	0.08 (0.009)	0.10 (0.034)	0.09 (0.012)	0.06 (0.016)	0.09 (0.023)	0.07 (0.013)	0.10 (0.027)	0.09 (0.043)	0.04 (0.013)	0.03 (0.015)
Other paid employees	0.72 (0.013)	0.70 (0.016)	0.48 (0.068)	0.65 (0.023)	0.78 (0.039)	0.82 (0.044)	0.86 (0.027)	0.59 (0.041)	0.71 (0.050)	0.93 (0.045)	1.40 (0.068)
Full-time	0.43 (0.013)	0.39 (0.016)	0.13 (0.046)	0.33 (0.019)	0.46 (0.035)	0.59 (0.044)	0.60 (0.022)	0.34 (0.031)	0.51 (0.049)	0.66 (0.039)	1.07 (0.067)
Part-time	0.29 (0.011)	0.31 (0.014)	0.34 (0.064)	0.32 (0.023)	0.31 (0.032)	0.23 (0.036)	0.26 (0.018)	0.25 (0.032)	0.20 (0.029)	0.28 (0.035)	0.34 (0.053)
Percent of libraries/media centers with certain media equipment											
Automated catalog	87.2 (0.71)	87.5 (0.94)	57.1 (6.87)	86.6 (1.56)	91.6 (1.55)	94.4 (1.62)	90.6 (1.08)	79.6 (2.59)	94.0 (2.14)	97.2 (0.86)	98.4 (1.05)
Automated circulation system	89.5 (0.68)	89.9 (0.87)	57.1 (6.78)	89.4 (1.35)	94.8 (1.19)	95.0 (1.84)	92.6 (0.98)	83.0 (2.49)	96.0 (1.72)	98.4 (0.44)	98.7 (0.81)
Media retrieval system ¹	34.9 (1.05)	35.9 (1.33)	10.6 (4.72)	29.3 (1.62)	43.9 (2.68)	53.7 (3.51)	35.1 (1.66)	32.8 (3.39)	34.1 (3.00)	37.9 (2.85)	36.4 (3.28)
Connection to Internet	96.7 (0.40)	96.5 (0.51)	81.0 (5.95)	96.9 (0.55)	98.0 (0.53)	98.5 (0.70)	98.6 (0.51)	96.0 (1.42)	99.9 (0.05)	100.0 (†)	100.0 (†)
Digital video disc (DVD) player/video cassette recorder(VCR)	87.2 (0.77)	86.7 (1.02)	80.0 (5.53)	86.3 (1.27)	87.4 (1.71)	89.1 (2.21)	89.6 (1.00)	87.3 (2.11)	89.9 (2.67)	92.3 (1.80)	89.3 (2.80)
Disability assistance technologies, such as TDD	23.9 (1.05)	23.0 (1.33)	14.7 (3.85)	20.2 (1.68)	24.6 (2.08)	33.1 (3.20)	26.4 (1.34)	18.4 (1.91)	26.7 (3.14)	28.4 (2.06)	38.0 (3.38)
Percent of libraries/media centers with certain services											
Students permitted to check out laptops	27.5 (1.02)	26.9 (1.27)	22.5 (6.15)	25.7 (1.72)	27.0 (2.23)	32.4 (3.13)	29.8 (1.34)	29.2 (2.84)	29.9 (3.18)	31.0 (2.40)	29.0 (2.76)
Staff permitted to check out laptops	45.9 (1.07)	45.2 (1.35)	30.7 (6.44)	42.4 (1.97)	48.4 (2.83)	54.6 (4.01)	50.1 (1.50)	46.3 (3.06)	49.7 (3.38)	54.5 (2.50)	51.1 (3.39)
Number of library computer workstations per 100 students	2.6 (0.05)	2.5 (0.07)	8.8 (1.24)	3.2 (0.13)	2.1 (0.10)	1.7 (0.11)	2.9 (0.06)	5.9 (0.28)	3.8 (0.22)	2.9 (0.10)	1.9 (0.08)
Average holdings per 100 students at the end of the school year ²											
Books (number of volumes)	2,015 (30.5)	2,316 (40.2)	6,384 (531.1)	2,993 (67.3)	2,117 (45.7)	1,559 (85.2)	1,432 (36.6)	3,203 (162.4)	1,854 (101.1)	1,332 (34.1)	975 (40.6)
Audio and video materials	90 (3.8)	93 (5.6)	157 (36.7)	105 (5.9)	89 (6.2)	82 (16.1)	81 (5.2)	132 (14.4)	138 (30.0)	83 (8.5)	52 (4.1)
Average additions per 100 students during the school year ²											
Books (number of volumes)	95.3 (2.21)	113.3 (3.26)	247.0 (38.53)	134.9 (5.28)	106.4 (5.76)	89.6 (6.32)	62.1 (2.67)	124.8 (11.48)	81.1 (8.27)	61.3 (4.78)	42.7 (2.66)
Audio and video materials	5.4 (0.49)	5.9 (0.77)	7.6 (2.14)	5.7 (0.44)	4.9 (0.55)	7.1 (2.47)	4.5 (0.41)	6.4 (0.59)	6.1 (1.44)	4.8 (0.65)	3.4 (0.60)
Total expenditures for library/media materials per pupil ³	\$16.11 (0.461)	\$16.18 (0.591)	\$43.28 (11.551)	\$18.49 (0.700)	\$14.63 (0.799)	\$14.11 (1.496)	\$15.90 (0.647)	\$27.86 (3.234)	\$18.51 (1.931)	\$16.68 (1.171)	\$11.75 (0.773)
Books	11.40 (0.291)	11.99 (0.389)	21.99 (4.023)	13.80 (0.539)	11.25 (0.679)	10.23 (0.836)	10.26 (0.504)	17.30 (1.454)	13.47 (1.905)	10.87 (1.103)	7.26 (0.386)
Audio and video materials	1.08 (0.055)	1.06 (0.088)	1.90 (0.967)	1.24 (0.154)	0.88 (0.082)	1.01 (0.180)	1.11 (0.054)	1.57 (0.157)	1.20 (0.151)	1.19 (0.102)	0.91 (0.085)

†Not applicable.

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

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

³Includes other expenditures not separately shown.

NOTE: Total includes combined elementary/secondary schools not separately shown. Detail may not sum to totals because of rounding. Standard errors appear in parentheses.

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

Table 429. Selected statistics on public school libraries/media centers, by state: 2007–08

State	Percent of libraries/media centers offering selected services/equipment								Average number of staff per library/media center ²	Books (number of volumes) held at end of year per 100 students ³	Books (number of volumes) acquired during year per 100 students ³	Total expenditure for materials per student ³	Number of computer workstations per 100 students
	Automated catalog	Automated circulation system	Laptops for student use outside of library/media center	Laptops for staff use outside of library/media center	Media retrieval system ¹	Connection to the Internet	DVD player/VCR						
1	2	3	4	5	6	7	8	9	10	11	12	13	
United States	87.2 (0.71)	89.5 (0.68)	27.5 (1.02)	45.9 (1.07)	34.9 (1.05)	96.7 (0.40)	87.2 (0.77)	1.7 (0.02)	2,015 (30.5)	95 (2.2)	\$16.1 (0.46)	2.6 (0.05)	
Alabama	91.5 (3.03)	95.0 (2.23)	30.2 (5.01)	55.3 (5.27)	29.4 (4.74)	99.3 (0.86)	96.4 (2.30)	1.8 (0.07)	1,888 (93.3)	105 (7.0)	19.3 (2.10)	2.4 (0.20)	
Alaska	72.4 (5.91)	67.8 (6.19)	32.0 (5.22)	37.8 (5.18)	18.9 (4.88)	83.9 (5.87)	68.7 (6.94)	1.1 (0.08)	3,427 (316.7)	114 (14.0)	12.8 (1.09)	3.0 (0.36)	
Arizona	79.6 (4.05)	82.6 (3.83)	25.9 (6.26)	36.5 (7.11)	46.4 (4.46)	96.8 (2.72)	87.4 (4.50)	1.8 (0.15)	2,083 (162.3)	101 (11.7)	12.7 (1.07)	2.5 (0.29)	
Arkansas	89.0 (3.88)	94.9 (2.67)	18.2 (4.04)	40.8 (4.96)	36.8 (3.99)	98.6 (1.54)	90.2 (2.96)	1.6 (0.06)	2,353 (449.9)	106 (11.5)	17.0 (1.12)	2.5 (0.21)	
California	85.2 (2.97)	92.2 (2.09)	11.1 (2.28)	29.5 (3.74)	17.9 (3.32)	95.6 (1.76)	65.1 (4.29)	1.4 (0.06)	1,740 (144.3)	79 (11.1)	13.0 (1.92)	1.6 (0.14)	
Colorado	95.6 (3.03)	90.4 (3.64)	29.2 (5.71)	49.3 (6.34)	27.7 (5.15)	98.2 (2.35)	88.6 (4.65)	1.9 (0.19)	2,102 (107.1)	96 (8.1)	15.4 (1.17)	4.0 (0.42)	
Connecticut	83.8 (4.46)	83.9 (4.60)	21.4 (4.02)	33.7 (5.29)	27.9 (4.71)	97.4 (1.88)	89.0 (3.79)	1.9 (0.09)	2,252 (111.6)	100 (6.9)	18.9 (1.16)	3.5 (0.22)	
Delaware	93.8 (2.10)	95.0 (1.61)	26.1 (5.10)	44.8 (6.25)	20.5 (4.63)	97.2 (1.04)	87.3 (3.38)	1.4 (0.06)	1,849 (70.8)	74 (7.1)	10.7 (0.93)	2.8 (0.29)	
District of Columbia	57.4 (6.15)	68.8 (5.03)	13.5 (3.54)	26.6 (5.16)	21.2 (3.69)	89.2 (2.81)	73.2 (4.87)	1.0 (0.07)	2,048 (245.8)	228 (36.3)	23.2 (4.09)	2.7 (0.27)	
Florida	94.5 (2.07)	94.3 (2.18)	19.2 (3.20)	64.1 (4.58)	67.5 (3.78)	99.4 (0.63)	90.7 (2.75)	1.9 (0.06)	1,576 (73.4)	77 (7.5)	13.3 (1.01)	2.5 (0.21)	
Georgia	98.5 (1.08)	98.5 (1.08)	36.6 (5.48)	66.1 (5.26)	81.4 (4.65)	99.6 (0.37)	97.8 (1.59)	2.1 (0.06)	1,745 (91.0)	90 (12.6)	15.4 (1.75)	2.0 (0.14)	
Hawaii	96.5 (1.70)	97.5 (1.83)	17.9 (4.91)	39.5 (6.01)	44.4 (7.30)	97.8 (1.51)	84.1 (3.63)	1.6 (0.09)	2,296 (116.8)	91 (8.5)	11.6 (0.81)	2.4 (0.20)	
Idaho	82.7 (6.15)	87.6 (6.60)	20.0 (5.61)	26.8 (5.52)	28.4 (4.88)	91.8 (5.12)	83.0 (5.98)	1.6 (0.10)	2,141 (117.8)	79 (10.0)	11.0 (0.99)	2.9 (0.25)	
Illinois	77.1 (4.90)	81.9 (4.94)	32.6 (4.77)	51.0 (5.18)	21.4 (4.58)	92.2 (3.87)	87.8 (3.35)	1.9 (0.11)	2,039 (109.1)	95 (10.1)	14.1 (1.05)	2.9 (0.27)	
Indiana	89.0 (5.40)	89.0 (4.77)	34.3 (5.42)	51.1 (5.48)	35.6 (6.33)	95.4 (3.32)	94.4 (3.78)	1.9 (0.20)	2,172 (116.8)	96 (12.9)	16.2 (1.36)	2.6 (0.32)	
Iowa	83.2 (4.98)	90.5 (4.28)	39.7 (5.70)	45.5 (6.80)	18.3 (4.87)	98.2 (1.96)	92.6 (5.05)	1.9 (0.09)	2,524 (145.2)	104 (8.9)	15.2 (1.60)	5.0 (0.59)	
Kansas	91.7 (4.37)	91.1 (3.91)	54.4 (7.94)	58.9 (8.22)	23.4 (7.24)	94.6 (3.52)	94.0 (3.52)	1.9 (0.08)	3,224 (341.8)	124 (15.0)	22.5 (5.96)	3.4 (0.75)	
Kentucky	90.9 (4.25)	92.4 (4.35)	27.1 (6.60)	49.8 (7.47)	71.1 (7.52)	95.6 (2.87)	94.0 (2.67)	1.7 (0.13)	2,000 (118.4)	114 (21.9)	17.5 (3.45)	2.6 (0.28)	
Louisiana	84.5 (6.24)	87.2 (5.66)	21.6 (5.22)	42.9 (5.93)	26.0 (4.74)	97.0 (2.56)	89.4 (4.92)	1.2 (0.09)	2,010 (147.8)	101 (17.9)	17.3 (3.18)	2.6 (0.25)	
Maine	73.8 (7.69)	71.5 (7.04)	43.2 (6.23)	45.5 (7.18)	9.5 (4.33)	88.4 (5.64)	73.4 (7.00)	1.7 (0.13)	3,650 (343.9)	168 (24.8)	27.9 (1.74)	2.8 (0.36)	
Maryland	91.4 (4.01)	99.5 (0.42)	32.2 (8.51)	53.6 (8.02)	54.0 (5.29)	97.4 (2.40)	90.6 (4.39)	1.5 (0.19)	1,635 (84.4)	88 (9.9)	19.6 (3.04)	2.9 (0.39)	
Massachusetts	75.0 (5.55)	74.7 (5.54)	32.6 (5.04)	33.7 (4.82)	18.2 (4.01)	98.2 (1.18)	80.3 (4.67)	1.3 (0.08)	1,868 (123.1)	75 (6.8)	12.1 (1.11)	2.8 (0.24)	
Michigan	83.4 (4.39)	90.6 (3.91)	33.6 (6.07)	49.3 (6.01)	48.8 (5.94)	99.8 (0.22)	92.8 (2.70)	1.5 (0.09)	2,136 (135.7)	62 (6.2)	9.0 (0.74)	4.7 (0.40)	
Minnesota	92.2 (2.68)	93.6 (2.39)	32.7 (4.35)	60.1 (4.46)	39.3 (3.88)	96.4 (1.90)	97.5 (0.89)	2.0 (0.08)	2,475 (136.2)	108 (9.8)	16.2 (1.46)	4.7 (0.40)	
Mississippi	75.8 (4.10)	85.6 (3.44)	20.0 (3.76)	45.6 (4.79)	31.6 (5.01)	95.5 (2.25)	88.6 (3.39)	1.5 (0.08)	1,778 (158.4)	143 (36.7)	18.5 (5.42)	2.2 (0.17)	
Missouri	93.9 (2.84)	92.8 (2.99)	18.3 (5.71)	35.6 (6.32)	20.6 (4.04)	98.4 (1.09)	96.0 (2.61)	1.7 (0.10)	2,439 (89.7)	141 (12.4)	25.5 (2.16)	2.9 (0.25)	
Montana	71.0 (3.93)	74.3 (3.31)	27.4 (3.76)	43.5 (4.84)	12.5 (3.15)	87.5 (3.51)	85.4 (2.88)	1.6 (0.07)	3,282 (154.3)	153 (11.4)	24.7 (3.25)	4.1 (0.25)	
Nebraska	83.1 (5.27)	82.0 (6.04)	42.7 (5.60)	50.9 (5.57)	29.8 (5.94)	93.2 (3.63)	96.8 (2.50)	1.9 (0.10)	3,063 (208.8)	103 (8.2)	20.0 (1.52)	5.5 (0.75)	
Nevada	84.8 (5.44)	93.1 (3.81)	21.1 (4.59)	32.8 (4.81)	60.5 (5.58)	97.9 (2.90)	83.5 (4.20)	1.6 (0.07)	1,695 (70.4)	107 (13.8)	14.0 (1.81)	1.5 (0.10)	
New Hampshire	84.6 (3.76)	83.7 (3.86)	45.5 (4.96)	44.9 (4.72)	8.0 (2.06)	97.4 (2.07)	91.8 (3.30)	1.8 (0.07)	2,314 (101.1)	111 (7.1)	26.0 (2.17)	2.6 (0.17)	
New Jersey	78.2 (7.17)	84.2 (5.37)	29.2 (9.32)	42.2 (11.24)	26.8 (6.91)	93.9 (4.35)	82.7 (6.87)	1.6 (0.11)	2,002 (129.6)	70 (11.7)	14.3 (1.33)	2.6 (0.31)	
New Mexico	77.8 (8.20)	83.2 (8.38)	18.6 (7.36)	38.8 (9.01)	18.1 (4.91)	93.1 (7.64)	90.7 (7.64)	1.4 (0.14)	2,238 (117.6)	173 (32.3)	25.6 (7.14)	2.4 (0.23)	
New York	79.9 (6.10)	77.5 (6.36)	27.3 (7.74)	41.1 (7.07)	17.4 (5.51)	96.9 (4.34)	82.6 (5.87)	1.9 (0.09)	1,912 (171.0)	97 (10.4)	16.8 (1.94)	2.6 (0.54)	
North Carolina	97.4 (1.59)	97.5 (1.65)	25.8 (6.12)	71.9 (6.73)	60.8 (5.62)	97.4 (1.63)	99.1 (0.56)	1.9 (0.08)	1,874 (104.2)	98 (7.4)	16.4 (1.29)	2.6 (0.23)	
North Dakota	72.3 (4.82)	66.6 (5.05)	40.5 (4.54)	47.7 (4.79)	13.0 (2.48)	97.9 (1.25)	77.6 (4.19)	1.6 (0.10)	3,876 (397.6)	166 (24.0)	22.2 (1.86)	3.2 (0.37)	
Ohio	90.0 (3.87)	91.1 (3.98)	22.9 (5.27)	37.1 (6.20)	36.4 (6.17)	98.1 (1.89)	83.4 (5.00)	1.5 (0.11)	1,864 (165.7)	76 (14.5)	13.5 (3.02)	2.7 (0.29)	
Oklahoma	80.7 (3.68)	86.3 (2.52)	25.7 (3.19)	42.8 (4.07)	19.0 (3.02)	96.2 (2.88)	95.1 (1.73)	1.9 (0.06)	2,152 (98.0)	105 (11.5)	17.8 (1.33)	2.9 (0.22)	
Oregon	77.8 (6.25)	82.2 (6.12)	35.2 (5.53)	47.0 (6.38)	27.3 (5.19)	98.5 (1.47)	89.7 (5.89)	1.8 (0.18)	3,041 (340.0)	103 (19.1)	11.9 (1.33)	3.8 (0.37)	
Pennsylvania	91.4 (4.74)	91.4 (4.74)	28.8 (5.44)	37.3 (6.87)	30.1 (6.19)	98.6 (1.37)	77.2 (4.60)	1.8 (0.11)	2,054 (132.0)	90 (9.1)	17.4 (2.10)	2.5 (0.21)	
Rhode Island	86.4 (5.24)	90.0 (4.37)	17.4 (5.86)	31.3 (6.21)	12.6 (4.16)	96.2 (2.74)	85.8 (5.21)	1.7 (0.08)	1,705 (85.1)	80 (8.7)	13.6 (1.14)	2.7 (0.27)	
South Carolina	97.6 (1.16)	98.3 (1.17)	37.1 (3.96)	72.9 (3.44)	81.1 (2.96)	99.2 (0.80)	92.7 (2.20)	2.0 (0.03)	1,859 (70.4)	99 (8.3)	17.9 (1.33)	2.3 (0.11)	
South Dakota	68.9 (5.38)	72.1 (5.31)	31.6 (4.34)	34.4 (4.40)	13.6 (2.86)	88.7 (3.26)	86.5 (3.67)	1.6 (0.10)	3,321 (221.1)	155 (17.8)	28.1 (3.71)	3.1 (0.22)	
Tennessee	90.3 (3.58)	94.3 (3.10)	24.6 (5.69)	41.1 (6.47)	32.5 (5.37)	98.0 (2.35)	88.2 (4.84)	1.6 (0.08)	1,788 (146.7)	75 (8.2)	12.1 (0.97)	2.2 (0.23)	
Texas	95.9 (1.55)	96.1 (1.58)	30.6 (6.46)	48.8 (6.29)	43.4 (7.18)	98.8 (0.78)	91.5 (3.46)	1.8 (0.07)	1,910 (107.2)	99 (11.5)	18.7 (2.69)	2.0 (0.15)	
Utah	92.6 (5.21)	92.3 (5.98)	10.6 (2.95)	31.6 (5.61)	41.7 (5.16)	93.5 (2.27)	93.2 (4.32)	1.6 (0.12)	1,554 (137.5)	93 (11.3)	14.7 (1.79)	2.0 (0.20)	
Vermont	80.0 (8.05)	77.2 (7.68)	46.6 (9.17)	52.0 (10.37)	10.5 (5.88)	97.9 (3.26)	92.1 (4.91)	1.7 (0.10)	3,828 (307.4)	171 (17.5)	32.5 (2.88)	3.5 (0.73)	
Virginia	94.9 (1.92)	96.6 (1.41)	47.1 (4.69)	68.8 (3.91)	56.4 (4.08)	98.4 (0.99)	98.2 (1.20)	2.0 (0.06)	1,840 (70.6)	104 (6.1)	18.4 (1.62)	2.3 (0.24)	
Washington	86.0 (3.87)	91.5 (3.27)	21.0 (4.38)	41.5 (4.92)	36.7 (5.18)	93.8 (2.62)	86.2 (3.43)	1.8 (0.17)	2,282 (108.6)	98 (11.7)	12.0 (0.95)	3.0 (0.21)	
West Virginia	61.3 (5.64)	64.4 (5.86)	20.5 (3.13)	37.0 (4.37)	25.2 (4.49)	93.0 (2.97)	78.3 (4.83)	0.9 (0.04)	1,881 (207.0)	61 (6.8)	8.6 (0.46)	3.6 (0.33)	
Wisconsin	94.5 (2.89)	94.1 (3.33)	24.7 (3.97)	46.9 (5.59)	30.2 (5.26)	94.5 (3.45)	97.5 (2.00)	2.1 (0.09)	2,894 (140.3)	180 (14.0)	35.6 (2.07)	4.6 (0.36)	
Wyoming	87.3 (3.87)	92.0 (3.46)	35.6 (3.87)	39.6 (4.19)	16.8 (3.12)	97.1 (1.98)	89.7 (2.75)	1.7 (0.09)	3,481 (170.5)	145 (27.1)	25.2 (2.34)	5.2 (0.34)	

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

²Includes professional and nonprofessional staff.

³Average holdings, acquisitions, and expenditures are from the prior school year, while enrollment counts are from the current school year.

NOTE: Standard errors appear in parentheses.

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

Table 430. Collections, staff, and operating expenditures of degree-granting institution libraries: Selected years, 1976–77 through 2007–08

Collections, staff, and operating expenditures	1976–77 ¹	1981–82	1987–88	1991–92	1994–95	1996–97	1997–98	1999–2000	2001–02	2003–04	2005–06	2007–08
1	2	3	4	5	6	7	8	9	10	11	12	13
Number of libraries	3,058	3,104	3,438	3,274	3,303	3,408	3,658	3,527	3,568	3,653	3,617	3,827
Number of circulation transactions (in thousands)	—	—	—	—	231,503	230,733	216,067	193,948	189,248	200,204	187,236	178,766
Enrollment (in thousands)												
Total enrollment ²	11,121	12,372	12,767	14,359	14,279	14,300	14,502	14,791	15,928	16,911	17,487	18,248
Full-time-equivalent enrollment ²	8,313	9,015	9,230	10,361	10,348	10,402	10,615	10,944	11,766	12,688	13,201	13,783
Collections (in thousands)												
Number of volumes at end of year	481,442	567,826	718,504	749,429	776,447	806,717	878,906 ³	913,547	954,030	982,590	1,015,658	1,052,531
Number of volumes added during year	22,367	19,507	21,907	20,982	21,544	21,346	24,551	24,436	24,574	24,615	22,241	23,990
Number of serial subscriptions at end of year	4,670	4,890	6,416	6,966	6,212	5,709	10,908 ⁴	7,499 ⁵	9,855 ⁴	12,764 ⁴	16,361 ⁴	25,342 ⁴
Microform units at end of year	—	—	—	—	—	—	1,062,082	1,111,389	1,143,678	1,173,287	1,166,295	1,157,365
Electronic units at end of year ⁶	—	—	—	—	465	983	3,473	—	—	—	—	—
E-books at end of year	—	—	—	—	—	—	—	—	10,318	32,775	64,366	102,502
Full-time-equivalent (FTE) library staff												
Total staff in regular positions ⁷	57,087	58,476	67,251	67,166	67,433	67,581	68,337	69,123	69,526	69,047	69,615	69,328
Librarians and professional staff	23,308	23,816	25,115	26,341	26,726	27,268	30,041	31,001	32,053	32,280	33,265	34,520
Other paid staff	33,779	34,660	40,733	40,421	40,381	40,022	38,026	37,893	37,473	36,767	36,350	34,808
Contributed services	—	—	1,403	404	326	291	270	229	—	—	—	—
Student assistants	—	—	33,821	29,075	28,411	27,998	28,373	26,518	25,305	25,038	23,976	24,110
FTE student enrollment per FTE staff member	146	154	137	154	153	154	155	158	169	184	190	199
Hours of student and other assistance (in thousands)	39,950	40,068	—	—	—	—	—	—	—	—	—	—
Library operating expenditures⁸												
Total operating expenditures (in thousands)	\$1,259,637	\$1,943,769	\$2,770,075	\$3,648,654	\$4,013,333	\$4,301,815	\$4,592,657	\$5,023,198	\$5,416,716	\$5,751,247	\$6,234,192	\$6,785,542
Salaries and wages	608,173 ⁹	914,379 ⁹	1,451,551	1,889,368	2,021,233	2,147,842	2,314,380	2,430,541	2,753,404	2,913,221	3,102,561	3,342,082
Student hourly wages	68,683	100,847	(¹⁰)	(¹⁰)	(¹⁰)	(¹⁰)	(¹⁰)	(¹⁰)	(¹⁰)	(¹⁰)	(¹⁰)	(¹⁰)
Fringe benefits	89,917	167,515	—	—	—	—	—	—	—	—	—	—
Preservation	22,521	30,351	34,144	43,126	46,554	45,610	42,919	43,832	46,499	42,976	41,102	41,591
Furniture/equipment	—	—	—	—	55,915	56,128	57,013	63,459	—	—	—	—
Computer hardware/software	—	—	—	—	128,128	157,949	164,379	160,294	155,791	143,042	153,002	158,698
Bibliographic utilities/networks/consortia	—	—	—	—	81,106	85,113	89,618	90,264	92,242	101,293	106,268	113,427
Information resources	373,699	561,199	891,281	1,197,293	1,348,933	1,499,249	1,600,995	1,822,277	1,944,490	2,114,555	2,334,382	2,621,491
Books and serial backfiles—paper	—	—	—	—	—	—	514,048	552,100	563,007	550,599	572,228	611,192
Books and serial backfiles—electronic	—	—	—	—	—	—	28,061	33,888	44,792	65,597	93,778	133,586
Current serials—paper	—	—	—	—	—	—	849,399	945,958	926,105	883,534	830,137	699,906
Current serials—electronic	—	—	—	—	—	—	125,470	203,371	297,657	480,138	691,585	1,004,393
Audiovisual materials	—	—	—	23,879	28,753	28,879	30,623	32,039	37,041	35,216	39,029	43,849
Document delivery/interlibrary loan	—	—	—	—	12,238	17,645	19,309	20,540	22,913	24,823	26,513	30,496
Other collection expenditures	373,699	561,199	891,281	1,173,414	1,307,942	1,452,725	34,086	34,381	52,976	74,648	81,113	98,069
Other library operating expenditures	96,643	169,478	393,099	518,867	331,463	309,925	323,354	140,579	424,290	436,160	496,877	508,253
Operating expenditures per FTE student	152	216	300	352	388	414	433	459	460	453	472	492
Operating expenditures per FTE student in constant 2008–09 dollars ¹¹	554	492	556	547	554	559	574	582	555	523	509	499
Operating expenditures (percentage distribution)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Salaries and wages	48.3	47.0	52.4	51.8	50.4	49.9	50.4	48.4	50.8	50.7	49.8	49.3
Student hourly wages	5.5	5.2	(¹⁰)	(¹⁰)	(¹⁰)	(¹⁰)	(¹⁰)	(¹⁰)	(¹⁰)	(¹⁰)	(¹⁰)	(¹⁰)
Fringe benefits	7.1	8.6	—	—	—	—	—	5.4	—	—	—	—
Preservation	1.8	1.6	1.2	1.2	1.2	1.1	0.9	0.9	0.9	0.7	0.7	0.6
Information resources	29.7	28.9	32.2	32.8	33.6	34.9	34.9	36.3	35.9	36.8	37.4	38.6
Other ¹²	7.7	8.7	14.2	14.2	14.9	14.2	13.8	9.0	12.4	11.8	12.1	11.5
Library operating expenditures as percent of total institutional expenditures for educational and general purposes	3.8	3.5	3.2	3.0	2.8	—	—	—	—	—	—	—

—Not available.

¹Includes data for U.S. territories.²Fall enrollment for the academic year specified.³Includes data for schools newly added to the survey system, so end of year figure for 1997–98 exceeds total of volumes added during the year plus end of year value from 1996–97.⁴Includes microform and electronic serials.⁵Includes microform serials.⁶Electronic files, formerly labeled "Computer files."⁷Excludes student assistants.⁸Excludes capital outlay.⁹Includes salary equivalents of contributed services staff.¹⁰Included under salaries and wages.¹¹Constant dollars based on the Consumer Price Index, prepared by the Bureau of Labor Statistics, U.S. Department of Labor, adjusted to a school-year basis.¹²Includes furniture/equipment, computer hardware/software, and utilities/networks/consortia as well as expenditures classified as "other library operating expenditures."

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

SOURCE: U.S. Department of Education, National Center for Education Statistics, *Library Statistics of Colleges and Universities*, selected years, 1976–77 through 1981–82; 1987–88 through 2005–06 Integrated Postsecondary Education Data System, "Academic Libraries Survey" (IPEDS-L:88–98), "Fall Enrollment Survey" (IPEDS-EF:87–99), and Spring 2002 through Spring 2006; Academic Libraries Survey (ALS), 2000 through 2008; and *Academic Libraries: 2008* (NCES 2010-348). (This table was prepared May 2010.)

Table 431. Collections, staff, and operating expenditures of the 60 largest college and university libraries: Fiscal year 2008

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 typical week	Gate count per typical week ¹	Reference transactions per typical week
					Total	Librarians	Total	Salaries and wages			
1	2	3	4	5	6	7	8	9	10	11	12
Harvard University (MA).....	1	16,250	1,167	110,628	1,229	418	\$117,884	\$62,798	168	39,748	5,468
Yale University (CT).....	2	12,284	840,000	295,557	735	175	92,248	35,781	111	14,900	1,970
University of California, Berkeley.....	3	11,020	610,920	87,876	487	92	48,020	24,305	77	27,502	2,100
University of Illinois at Urbana-Champaign.....	4	10,933	319,533	109,803	473	113	40,571	20,988	144	85,632	6,214
Columbia University in the City of New York.....	5	9,596	703,121	132,740	616	161	56,089	27,240	108	81,862	3,557
University of Texas at Austin.....	6	9,447	593,450	56,847	528	130	43,850	20,773	120	87,115	20,693
University of Michigan, Ann Arbor.....	7	9,175	701,019	69,457	570	169	52,395	25,853	168	73,543	2,884
Stanford University (CA).....	8	8,558	419,515	33,903	680	151	78,377	41,382	105	20,100	3,074
University of California, Los Angeles.....	9	8,467	495,238	175,207	596	125	53,154	28,197	97	64,072	1,843
University of Wisconsin, Madison.....	10	7,934	766,032	54,164	553	229	43,282	23,459	148	110,368	2,640
Cornell University (NY).....	11	7,750	391,897	89,000	549	118	46,798	22,667	146	98,000	1,497
University of Chicago (IL).....	12	7,745	851,880	76,607	323	68	34,680	12,638	146	33,881	779
Indiana University, Bloomington.....	13	7,618	631,617	103,228	445	94	36,282	16,061	168	90,061	2,446
University of Minnesota, Twin Cities.....	14	6,878	307,082	85,075	394	93	40,734	18,118	100	36,527	2,300
University of Washington, Seattle Campus.....	15	6,844	387,281	61,847	458	135	36,814	19,345	138	116,000	2,128
Princeton University (NJ).....	16	6,779	763,158	51,746	410	97	48,970	18,789	116	13,492	671
University of North Carolina at Chapel Hill.....	17	6,017	510,110	60,713	452	143	41,124	18,944	146	60,214	2,543
Ohio State University, Main Campus.....	18	6,016	269,097	78,903	396	62	35,833	16,642	168	39,030	1,476
Duke University (NC).....	19	5,829	144,939	61,964	369	117	37,331	16,444	161	9,250	2,638
University of Pennsylvania.....	20	5,756	340,446	61,676	370	111	37,599	16,991	111	38,589	5,000
University of Pittsburgh, Main Campus (PA).....	21	5,657	591,468	59,141	382	120	32,907	12,539	118	84,789	2,587
Pennsylvania State University, Main Campus.....	22	5,355	42,083	88,668	608	134	47,686	24,437	168	46,247	3,549
University of Arizona.....	23	5,266	645,463	24,466	239	54	24,676	9,471	142	42,916	531
University of Virginia, Main Campus.....	24	5,158	374,731	163,032	379	101	35,930	16,921	149	76,424	2,886
Rutgers University, New Brunswick/Piscataway.....	25	5,081	195,296	74,031	305	66	23,918	13,651	108	53,419	1,216
New York University.....	26	5,073	545,025	67,960	458	58	44,603	20,703	119	51,500	2,156
Northwestern University (IL).....	27	4,843	264,066	82,822	344	97	29,147	12,518	126	28,218	1,427
Michigan State University.....	28	4,839	66,350	83,460	265	71	23,482	10,714	148	42,367	850
University of Kansas.....	29	4,799	321,320	60,838	228	54	19,543	9,105	140	42,000	2,350
University of Iowa.....	30	4,791	486,769	59,442	281	98	27,620	12,335	113	36,273	1,610
University of Oklahoma, Norman Campus.....	31	4,702	649,929	52,522	158	37	16,253	4,396	117	21,930	523
University of Georgia.....	32	4,637	128,694	80,748	315	81	24,451	10,106	137	17,700	1,910
Arizona State University at the Tempe Campus.....	33	4,422	302,266	87,566	332	93	28,571	12,266	149	75,265	2,053
University of Florida.....	34	4,288	280,238	71,336	402	85	29,731	13,905	111	56,209	1,587
University of Southern California.....	35	4,084	267,657	70,066	374	75	38,393	17,149	159	53,534	1,173
Louisiana State University and Agricultural & Mechanical College.....	36	4,067	346,389	101,738	192	52	15,874	—	113	32,228	712
Texas A & M University.....	37	3,934	461,225	86,737	359	85	34,150	12,329	146	49,683	880
University of Colorado at Boulder.....	38	3,928	175,377	55,519	216	58	21,454	8,693	104	40,532	1,374
University of South Carolina, Columbia.....	39	3,885	91,940	21,505	275	71	19,743	7,975	140	31,415	2,969
Johns Hopkins University (MD).....	40	3,878	2,003,184	74,701	338	80	32,881	13,282	120	19,373	1,593
Washington University in St. Louis (MO).....	41	3,841	382,891	69,400	266	93	32,366	10,219	120	30,000	1,409
Brown University (RI).....	42	3,825	284,749	60,499	208	55	19,862	9,162	112	20,064	510
Brigham Young University (UT).....	43	3,743	337,546	69,361	383	85	27,167	12,126	105	82,238	3,070
SUNY at Buffalo (NY).....	44	3,720	369,721	80,431	242	60	19,972	10,339	168	26,000	562
University of Kentucky.....	45	3,720	406,014	73,251	287	79	21,414	8,257	135	57,316	1,734
Miami University (OH).....	46	3,718	511,114	91,229	146	41	9,488	4,652	168	28,862	1,529
University of Maryland, College Park.....	47	3,717	88,393	42,393	258	119	32,156	12,600	162	47,982	5,186
University of Rochester (NY).....	48	3,701	51,134	28,561	207	89	24,850	8,949	119	4,478	1,004
University of Cincinnati, Main Campus (OH).....	49	3,632	459,542	86,363	185	49	21,466	7,729	95	26,700	1,600
University of Hawaii at Manoa.....	50	3,559	193,133	55,276	237	64	17,860	9,108	135	31,380	1,791
University of Nebraska, Lincoln.....	51	3,554	321,180	46,865	187	49	12,633	6,465	96	15,004	1,000
University of Missouri, Columbia.....	52	3,494	25,434	38,364	198	55	17,025	6,386	114	36,426	1,374
Florida State University.....	53	3,484	477,476	62,093	250	67	18,563	7,090	142	37,531	1,219
North Carolina State University at Raleigh.....	54	3,477	401,497	67,995	268	98	23,296	10,960	146	37,649	718
Wayne State University (MI).....	55	3,454	206,736	20,384	247	53	20,802	9,349	142	38,599	916
University of Notre Dame (IN).....	56	3,393	2,295	82,866	260	60	24,077	10,306	126	19,191	497
University of Utah.....	57	3,373	132,859	48,777	370	69	26,290	12,877	123	39,724	3,680
University of California, San Diego.....	58	3,373	231,216	34,800	367	63	30,748	16,330	114	51,347	880
University of Connecticut.....	59	3,368	338,682	71,371	152	61	16,262	—	114	51,539	303
University of California, Davis.....	60	3,354	504,736	50,442	231	53	18,652	9,568	95	33,978	1,129

—Not available.

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

SOURCE: U.S. Department of Education, National Center for Education Statistics, Academic Libraries Survey (ALS), fiscal year 2008. (This table was prepared July 2010.)

Table 432. Public libraries, books and serial volumes, library visits, circulation, and reference transactions, by state: Fiscal years 2007 and 2008

State	Number of public libraries		Number of books and serial volumes				Library visits per capita ¹		Circulation per capita		Reference transactions per capita ²	
			In thousands		Per capita							
	2007	2008	2007	2008	2007	2008	2007	2008	2007	2008	2007	2008
1	2	3	4	5	6	7	8	9	10	11	12	13
United States	9,214 ³	9,221 ³	812,483	816,099	2.8	2.8	4.9	5.1	7.4	7.7	1.0	1.0
Alabama.....	208	210	9,495	9,615	2.2	2.2	3.6	3.5	4.4	4.4	0.8	0.8
Alaska.....	87	86	2,445	2,491	3.6	3.7	5.1	5.1	6.3	6.3	0.5	0.6
Arizona.....	83	86	9,145	8,619	1.5	1.3	3.9	4.0	7.1	7.3	0.7	0.7
Arkansas.....	48	51	6,224	6,450	2.3	2.4	3.5	3.7	4.7	4.9	0.7	0.7
California.....	181	181	74,961	74,197	2.0	2.0	4.2	4.5	5.4	5.8	0.8	0.9
Colorado.....	115	115	11,728	12,039	2.5	2.5	6.2	6.3	11.4	12.0	1.2	1.2
Connecticut.....	195	195	15,528	15,609	4.4	4.4	6.5	6.8	9.0	9.4	1.3	1.4
Delaware.....	21	21	1,921	1,991	2.5	2.5	5.6	5.5	10.0	10.4	0.7	0.6
District of Columbia.....	1	1	2,097	2,063	3.6	3.5	3.7	4.6	2.5	3.0	1.4	1.4
Florida.....	79	80	31,995	32,736	1.7	1.7	4.2	4.5	5.9	6.2	1.5	1.6
Georgia.....	58	59	15,664	16,087	1.7	1.7	3.9	4.0	4.5	4.7	1.0	1.0
Hawaii.....	1	1	3,376	3,399	2.6	2.6	4.5	4.6	5.3	5.5	0.7	0.7
Idaho.....	104	104	4,100	4,192	3.1	3.1	6.1	6.4	8.6	9.4	0.8	0.8
Illinois.....	623	634	43,155	45,263	3.7	3.9	6.5	6.6	8.8	9.0	1.2	1.2
Indiana.....	239	238	25,360	25,873	4.5	4.5	6.9	7.2	13.0	13.7	0.9	1.0
Iowa.....	539	539	12,297	12,235	4.3	4.1	6.3	6.3	10.0	9.6	0.6	0.6
Kansas.....	326	327	11,106	10,381	4.7	4.4	6.4	6.2	11.1	11.4	1.2	1.1
Kentucky.....	116	116	8,602	8,674	2.1	2.1	4.3	4.4	6.4	6.7	0.8	0.9
Louisiana.....	67	68	11,450	11,641	2.7	2.6	3.4	3.3	4.1	4.0	1.2	1.2
Maine.....	272	272	6,495	6,505	5.5	5.4	5.9	5.9	7.5	7.7	0.7	0.6
Maryland.....	24	24	14,550	14,378	2.6	2.6	5.2	5.9	9.6	9.9	1.2	1.1
Massachusetts.....	370	370	32,436	32,713	5.0	5.1	6.1	6.5	8.1	8.4	0.8	0.9
Michigan.....	386	384	34,388	34,556	3.5	3.5	5.2	5.5	7.6	8.0	0.9	0.9
Minnesota.....	139	138	15,836	14,762	3.0	2.8	5.4	5.5	10.3	10.7	0.9	0.8
Mississippi.....	50	50	5,703	5,530	2.0	1.9	2.8	3.0	2.8	2.9	0.5	0.6
Missouri.....	152	152	18,433	18,034	3.6	3.5	5.3	5.5	9.3	9.4	1.1	1.1
Montana.....	80	80	2,781	2,732	3.1	3.0	4.4	4.5	6.2	6.5	0.4	0.5
Nebraska.....	271	270	6,735	6,643	5.2	5.1	7.4	6.9	10.2	10.5	0.9	0.9
Nevada.....	22	22	4,633	5,405	1.7	2.0	3.8	4.0	5.9	6.5	0.6	0.7
New Hampshire.....	230	231	6,116	6,210	4.7	4.7	5.2	5.6	8.1	8.4	0.6	0.6
New Jersey.....	303	303	30,673	30,342	3.7	3.6	5.6	5.9	6.8	7.3	1.0	1.0
New Mexico.....	91	91	4,582	4,578	3.0	2.9	4.7	4.8	6.1	6.3	0.9	0.9
New York.....	753	755	72,956	74,635	3.9	3.9	6.0	6.2	7.8	8.2	1.5	1.5
North Carolina.....	77	77	16,536	16,833	1.9	1.9	4.1	4.1	5.6	5.8	1.4	1.3
North Dakota.....	80	81	2,368	2,453	4.3	4.3	4.8	4.3	7.2	7.2	0.7	0.7
Ohio.....	251	251	46,974	46,893	4.1	4.1	7.6	8.0	15.9	16.7	1.7	1.8
Oklahoma.....	113	115	7,144	7,249	2.4	2.4	4.8	4.9	6.9	7.0	0.8	0.7
Oregon.....	128	126	9,505	9,407	2.8	2.8	6.3	6.6	14.9	15.4	0.8	0.8
Pennsylvania.....	457	457	30,114	29,837	2.5	2.5	3.9	4.0	5.6	5.8	0.7	0.7
Rhode Island.....	49	48	4,376	4,420	4.1	4.2	5.8	6.0	6.7	7.0	0.8	0.8
South Carolina.....	42	42	9,176	9,421	2.1	2.1	3.6	3.8	5.2	5.4	1.1	1.1
South Dakota.....	123	114	3,131	3,134	4.6	4.5	5.9	5.6	7.9	8.4	0.7	0.9
Tennessee.....	187	187	11,439	11,595	1.9	1.9	3.3	3.4	4.1	4.1	0.7	0.7
Texas.....	562	561	41,799	41,797	1.9	1.9	3.3	3.3	4.8	4.9	0.7	0.7
Utah.....	70	69	6,587	6,556	2.6	2.5	6.5	6.7	12.5	13.0	1.6	1.7
Vermont.....	183	183	2,865	2,900	4.8	4.8	6.4	6.4	7.5	7.7	0.8	0.8
Virginia.....	90	91	19,002	19,181	2.5	2.5	4.9	5.2	8.6	9.2	0.9	1.0
Washington.....	66	64	17,458	16,433	2.7	2.5	6.2	6.5	11.7	12.1	1.0	1.0
West Virginia.....	97	97	5,023	5,119	2.8	2.8	3.3	3.3	4.2	4.2	0.5	0.5
Wisconsin.....	382	381	19,596	19,843	3.5	3.5	6.1	6.3	10.6	10.9	0.9	0.9
Wyoming.....	23	23	2,429	2,447	4.7	4.7	6.4	6.8	8.4	9.0	1.1	1.1

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

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

³In 2007, of the 9,214 public libraries in the 50 states and the District of Columbia, 7,463 were single-outlet libraries and 1,751 were multiple-outlet libraries. In 2008, of the 9,221 public libraries in the 50 states and the District of Columbia, 7,469 were single-outlet libraries and 1,752 were multiple-outlet libraries. Single-outlet libraries consist of a central

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

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

SOURCE: U.S. Census Bureau, Institute of Museum and Library Services, *Public Libraries in the United States*, fiscal years 2007 and 2008, retrieved July 13, 2010, from <http://harvester.census.gov/ims/publib.asp>. (This table was prepared July 2010.)

Table 433. Participants in state-administered adult basic education, secondary education, and English as a second language programs, by type of program and state or jurisdiction: Selected fiscal years, 1990 through 2008

State or jurisdiction	1990	2000	2005	2006	2007				2008			
					Total	Adult basic education	Adult secondary education	English as a second language	Total	Adult basic education	Adult secondary education	English as a second language
1	2	3	4	5	6	7	8	9	10	11	12	13
United States	3,535,970	2,629,643	2,543,953	2,308,380	2,302,827	941,659	297,838	1,063,330	2,364,051	1,004,660	307,825	1,051,566
Alabama	40,177	23,666	19,827	18,742	19,809	13,590	4,301	1,918	23,815	17,006	4,648	2,161
Alaska	5,067	5,312	3,791	3,244	2,877	2,043	299	535	3,179	2,044	460	675
Arizona	33,805	31,136	26,881	24,861	18,704	10,702	1,378	6,624	21,760	12,763	1,506	7,491
Arkansas	29,065	38,867	37,102	31,912	31,010	19,275	6,841	4,894	32,610	21,180	6,416	5,014
California	1,021,227	473,050	591,893	586,632	602,837	122,601	71,579	408,657	618,767	134,422	77,501	406,844
Colorado	12,183	13,818	15,011	14,530	14,683	3,770	1,180	9,733	14,203	3,775	1,264	9,164
Connecticut	46,434	30,844	31,958	26,686	27,549	7,312	7,593	12,644	27,859	7,503	7,568	12,788
Delaware	2,662	4,342	6,329	4,863	4,399	2,635	514	1,250	5,155	3,210	644	1,301
District of Columbia	19,586	3,667	3,646	3,384	3,694	1,908	428	1,358	3,956	2,184	218	1,554
Florida	419,429	404,912	348,119	239,648	264,670	107,093	33,098	124,479	260,931	112,229	31,608	117,094
Georgia	69,580	108,004	95,434	68,557	72,390	45,839	6,253	20,298	75,487	47,580	6,560	21,347
Hawaii	52,012	10,525	7,461	7,772	8,135	3,452	1,573	3,110	8,944	3,901	1,912	3,131
Idaho	11,171	10,506	7,744	7,961	6,953	3,795	537	2,621	7,535	4,160	581	2,794
Illinois	87,121	122,043	118,296	109,743	107,120	26,803	13,739	66,578	108,024	28,702	15,379	63,943
Indiana	44,166	42,135	43,498	40,771	38,468	22,737	8,766	6,965	40,226	24,927	8,121	7,178
Iowa	41,507	20,161	11,989	9,664	9,271	3,951	2,210	3,110	9,918	3,993	2,222	3,703
Kansas	10,274	11,248	9,475	9,323	8,611	4,009	1,092	3,510	8,916	4,305	1,026	3,585
Kentucky	28,090	31,050	30,931	31,458	31,456	22,728	5,338	3,390	40,235	27,941	8,276	4,018
Louisiana	40,039	30,929	29,367	23,601	23,642	17,896	3,603	2,143	26,633	21,255	3,486	1,892
Maine	14,964	12,430	8,151	8,215	7,878	3,689	2,643	1,546	9,270	4,754	2,958	1,558
Maryland	41,230	22,702	27,055	32,535	30,882	13,622	4,192	13,068	33,673	15,321	4,110	14,242
Massachusetts	34,220	24,053	21,448	23,957	21,706	4,917	3,525	13,264	21,491	4,864	3,526	13,101
Michigan	194,178	56,096	34,768	32,856	30,571	18,102	3,389	9,080	28,243	15,485	3,482	9,276
Minnesota	45,648	42,039	47,174	45,407	45,805	14,610	7,206	23,989	46,109	16,481	5,271	24,357
Mississippi	18,957	37,947	25,675	21,775	20,372	16,825	2,982	565	20,480	17,309	2,801	370
Missouri	31,815	41,089	37,052	34,374	33,497	22,061	4,775	6,661	36,161	24,720	4,584	6,857
Montana	6,071	4,892	3,291	2,697	2,930	2,176	539	215	3,151	2,298	639	214
Nebraska	6,158	7,917	10,226	8,699	8,503	3,801	1,096	3,606	8,435	4,022	1,024	3,389
Nevada	17,262	22,992	9,981	9,483	9,526	1,140	466	7,920	8,571	1,067	443	7,061
New Hampshire	7,198	5,962	5,804	5,797	5,592	1,662	2,217	1,713	5,806	1,805	1,995	2,006
New Jersey	64,080	44,317	40,889	35,374	34,198	11,372	2,152	20,674	32,823	11,660	1,747	19,416
New Mexico	30,236	23,243	24,132	20,040	20,063	10,623	2,015	7,425	22,920	12,444	2,195	8,281
New York	156,611	176,239	157,486	147,631	133,852	51,463	8,666	73,723	133,255	52,844	8,887	71,524
North Carolina	109,740	107,504	109,047	108,745	110,126	60,450	18,785	30,891	121,708	67,917	22,261	31,530
North Dakota	3,587	2,124	2,063	1,776	1,693	956	497	240	1,822	968	452	402
Ohio	95,476	65,579	50,869	47,462	48,209	32,526	8,479	7,204	50,537	34,834	8,434	7,269
Oklahoma	24,307	20,101	20,447	19,146	17,672	12,208	2,033	3,431	18,411	13,028	1,916	3,467
Oregon	37,075	25,228	21,668	21,713	21,690	9,507	1,631	10,552	23,600	10,901	2,046	10,653
Pennsylvania	52,444	49,369	54,274	53,557	50,996	26,860	10,238	13,898	52,795	27,958	10,672	14,165
Rhode Island	7,347	5,592	6,697	6,787	6,697	3,017	646	3,034	6,580	3,024	748	2,808
South Carolina	81,200	94,452	65,901	58,916	59,077	44,687	8,585	5,805	54,538	40,149	8,307	6,082
South Dakota	3,184	5,637	3,517	2,977	2,629	1,674	578	377	3,025	1,906	725	394
Tennessee	41,721	40,615	48,924	43,179	41,439	29,629	5,333	6,477	37,048	27,207	4,904	4,937
Texas	218,747	111,585	119,867	102,365	93,242	36,358	4,308	52,576	84,514	32,947	3,524	48,043
Utah	24,841	30,714	29,320	24,869	21,764	11,347	2,561	7,856	25,978	14,192	3,004	8,782
Vermont	4,808	1,146	2,015	2,404	1,756	1,189	446	121	2,505	1,890	437	178
Virginia	31,649	35,261	29,222	32,502	30,940	11,354	4,574	15,012	31,106	12,341	4,570	14,195
Washington	31,776	53,460	50,386	52,810	57,474	21,624	4,011	31,839	64,982	26,231	4,393	34,358
West Virginia	21,186	13,072	9,444	8,872	9,083	6,931	1,983	169	9,628	7,499	1,909	220
Wisconsin	61,081	27,304	26,029	25,792	24,302	11,938	6,257	6,107	23,856	12,057	5,668	6,131
Wyoming	3,578	2,767	2,379	2,316	2,385	1,202	708	475	2,877	1,457	797	623
Other jurisdictions ...	31,400	44,785	37,328	38,333	34,079	6,664	26,040	1,375	36,071	6,709	28,696	666
American Samoa	—	662	838	772	226	116	34	76	264	118	35	111
Federated States of Micronesia	—	0	0	0	0	0	0	0	0	0	0	0
Guam	1,311	1,092	1,062	1,113	1,079	593	365	121	1,154	724	306	124
Marshall Islands	—	335	0	0	0	0	0	0	0	0	0	0
Northern Marianas	—	680	740	530	613	82	304	227	583	270	121	192
Palau	—	132	206	73	55	0	55	0	51	0	51	0
Puerto Rico	28,436	41,043	33,463	34,903	31,924	5,756	25,276	892	34,019	5,597	28,183	239
U.S. Virgin Islands	1,653	841	1,019	942	182	117	6	59	0	0	0	0

—Not available.

NOTE: Adult basic education provides instruction in basic skills for adults 16 and over functioning at literacy levels below the secondary level. Adult secondary education provides instruction at the high school level for adults who are seeking to pass the GED or obtain an adult high school credential. English as a second language instruction is for adults who lack proficiency in English and who seek to improve their literacy and competence in English. Some data have been revised from previously published figures.

SOURCE: U.S. Department of Education, Office of Vocational and Adult Education (OVAE), Division of Adult Education and Literacy, "Adult Education Program Facts, Program Year 1990–1991"; and OVAE National Reporting System, retrieved May 27, 2010, from <http://wdcrobcolp01.ed.gov/GFAPPS/OVAE/NRS/>. (This table was prepared May 2010.)

Table 434. Participation of employed persons, 17 years old and over, in career-related adult education during the previous 12 months, by selected characteristics of participants: 1995, 1999, and 2005

Characteristic of employed person	1995		1999		1995		1999		2005		2005		2005		2005	
	Percent of adults participating in career- or job-related courses	Number of career- or job-related courses taken, per employee	Percent of adults participating in career- or job-related courses	Number of career- or job-related courses taken, per employee	Employed persons, in thousands	Percent of adults participating				Number of career- or job-related courses taken						
						In career- or job-related courses	In apprentice programs	In personal interest courses	In informal learning activities for personal interest	In thousands	Per employee					
1	2	3	4	5	6	7	8	9	10	11	12					
Total	31.1 (0.54)	0.8 (0.02)	30.5 (1.14)	0.7 (0.03)	133,386 (1,508.1)	38.8 (0.83)	1.4 (0.24)	21.8 (0.94)	73.5 (1.01)	108,443	0.8 (0.03)					
Sex																
Male.....	29.0 (0.72)	0.7 (0.02)	28.3 (1.15)	0.6 (0.03)	71,754 (934.7)	31.7 (1.22)	2.0 (0.37)	18.5 (1.30)	73.4 (1.52)	44,512	0.6 (0.03)					
Female.....	33.4 (0.83)	0.9 (0.03)	32.9 (1.14)	0.8 (0.03)	61,632 (1,219.3)	47.1 (1.43)	0.8 (0.23)	25.8 (1.23)	73.6 (1.37)	63,931	1.0 (0.05)					
Age																
17 through 24 years old....	18.6 (1.01)	0.4 (0.02)	19.1 (1.91)	0.4 (0.06)	15,027 (1,030.4)	26.4 (3.01)	3.0 (1.03)	25.2 (3.37)	71.4 (3.15)	8,024	0.5 (0.09)					
25 through 29 years old....	31.2 (1.46)	0.8 (0.05)	34.3 (2.44)	0.8 (0.08)	14,555 (918.4)	36.1 (2.94)	3.1 (1.12)	24.5 (3.66)	70.9 (4.49)	9,493	0.7 (0.06)					
30 through 34 years old....	31.6 (1.30)	0.8 (0.04)	34.4 (2.50)	0.8 (0.08)	15,250 (977.2)	41.0 (3.06)	2.7 (1.10)	23.7 (2.63)	74.0 (2.54)	12,681	0.8 (0.07)					
35 through 39 years old....	35.1 (1.02)	0.9 (0.03)	29.2 (2.15)	0.7 (0.07)	15,286 (922.4)	41.7 (4.16)	1.0 (0.46)	21.6 (3.15)	77.7 (3.00)	13,807	0.9 (0.14)					
40 through 44 years old....	36.6 (1.29)	0.9 (0.04)	36.4 (2.44)	0.8 (0.07)	18,141 (946.3)	39.8 (2.73)	0.9 (0.48)	23.3 (2.60)	71.2 (3.15)	15,586	0.9 (0.07)					
45 through 49 years old....	39.6 (1.94)	1.0 (0.06)	30.4 (2.42)	0.7 (0.06)	18,149 (842.5)	45.0 (2.15)	0.7 (0.29)	19.0 (2.09)	73.5 (2.68)	16,809	0.9 (0.06)					
50 through 54 years old....	34.4 (1.69)	0.9 (0.04)	34.7 (2.57)	0.8 (0.07)	14,624 (732.1)	42.6 (2.49)	0.7 (0.32)	19.5 (1.92)	76.3 (2.27)	14,881	1.0 (0.10)					
55 through 59 years old....	26.7 (1.86)	0.7 (0.06)	30.3 (2.83)	0.6 (0.08)	10,522 (676.0)	44.7 (2.98)	0.2 (0.12)	18.3 (1.93)	73.0 (2.95)	9,901	0.9 (0.09)					
60 through 64 years old....	21.1 (2.41)	0.5 (0.06)	27.2 (3.80)	0.7 (0.15)	6,021 (498.8)	38.9 (3.97)	0.6 (0.43)	23.4 (3.52)	73.0 (4.22)	4,919	0.8 (0.10)					
65 years old and over.....	13.7 (1.86)	0.4 (0.06)	20.3 (4.21)	0.4 (0.08)	5,812 (493.3)	21.6 (3.48)	# (†)	17.4 (3.13)	74.2 (3.75)	2,343	0.4 (0.07)					
65 through 69.....	13.1 (2.28)	0.4 (0.08)	— (†)	— (†)	3,385 (415.5)	19.1 (4.05)	# (†)	20.9 (4.88)	75.4 (5.18)	1,102	0.3 (0.08)					
70 and over.....	14.6 (2.85)	0.4 (0.09)	— (†)	— (†)	2,427 (282.3)	25.1 (5.81)	# (†)	12.6 (2.93)	72.6 (6.11)	1,241	0.5 (0.14)					
Race/ethnicity																
White.....	33.2 (0.61)	0.8 (0.02)	32.8 (0.98)	0.6 (0.03)	94,881 (1,538.6)	41.3 (0.93)	1.2 (0.25)	22.2 (1.11)	75.3 (1.17)	82,511	0.9 (0.03)					
Black.....	26.2 (1.46)	0.7 (0.04)	28.1 (2.34)	1.0 (0.07)	13,773 (533.2)	39.2 (3.82)	1.7 (0.83)	23.5 (3.04)	66.9 (3.02)	10,311	0.7 (0.11)					
Hispanic.....	18.1 (1.00)	0.4 (0.02)	16.4 (1.83)	0.5 (0.05)	15,741 (681.1)	25.0 (2.66)	2.9 (0.85)	16.2 (2.31)	65.8 (3.39)	8,786	0.6 (0.11)					
Asian.....	— (†)	— (†)	— (†)	— (†)	3,770 (520.7)	36.9 (7.00)	0.9 (0.90)	32.3 (7.26)	81.1 (5.88)	2,207	0.6 (0.12)					
Pacific Islander.....	— (†)	— (†)	— (†)	— (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)					
Asian/Pacific Islander.....	25.5 (2.69)	0.6 (0.07)	32.8 (4.84)	0.4 (0.15)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)					
American Indian/Alaska Native.....	34.0 (6.32)	0.9 (0.20)	29.5 (11.52)	0.7 (0.52)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)					
Two or more races.....	— (†)	— (†)	— (†)	— (†)	3,786 (562.7)	39.1 (6.85)	1.4 (0.85)	22.6 (6.34)	77.6 (8.40)	3,083	0.8 (0.15)					
Other races.....	25.3 (2.99)	0.7 (0.09)	— (†)	— (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)					
Highest level of education completed																
Less than high school completion.....	8.8 (1.05)	0.1 (0.02)	7.9 (2.29)	0.4 (0.05)	16,627 (838.2)	10.4 (2.11)	2.4 (0.90)	8.801 (1.54)	57.0 (3.76)	2,592	0.2 (0.03)					
8th grade or less.....	6.1 (2.00)	0.1 (0.04)	— (†)	— (†)	5,016 (599.7)	2.7 (1.12)	4.4 (2.43)	3.8 (1.71)	46.7 (7.11)	197	# (†)					
9th through 12th grade, no completion.....	10.0 (1.27)	0.2 (0.02)	— (†)	— (†)	11,610 (792.8)	13.7 (2.99)	1.5 (0.78)	11.0 (2.06)	61.5 (4.05)	2,396	0.2 (0.04)					
High school completion.....	20.9 (0.79)	0.4 (0.02)	21.4 (1.45)	0.8 (0.03)	34,121 (1,147.2)	24.7 (1.76)	1.3 (0.46)	17.1 (1.89)	63.4 (2.55)	16,640	0.5 (0.05)					
Some vocational/technical.....	32.3 (2.50)	0.8 (0.07)	28.7 (5.76)	0.9 (0.17)	3,744 (393.1)	48.2 (5.92)	2.0 (1.56)	25.5 (4.61)	74.0 (5.54)	3,802	1.0 (0.17)					
Some college.....	29.9 (0.91)	0.7 (0.03)	29.0 (1.78)	0.7 (0.06)	24,479 (1,067.7)	39.9 (2.36)	1.9 (0.69)	25.2 (2.50)	79.8 (2.04)	18,437	0.8 (0.05)					
Associate's degree.....	39.2 (1.58)	1.0 (0.05)	39.7 (3.07)	0.9 (0.09)	9,943 (730.7)	50.4 (3.71)	2.3 (0.84)	19.1 (2.86)	78.4 (3.88)	14,224	1.4 (0.21)					
Bachelor's degree.....	44.6 (1.33)	1.2 (0.04)	43.8 (2.01)	1.0 (0.06)	26,475 (902.7)	53.1 (1.88)	0.2 (0.12)	29.0 (1.77)	78.7 (1.94)	28,099	1.1 (0.06)					
Some graduate work (or study).....	50.2 (1.63)	1.4 (0.05)	46.8 (4.17)	1.2 (0.14)	17,998 (735.4)	61.1 (2.16)	1.5 (0.80)	28.6 (2.01)	88.8 (1.16)	24,649	1.4 (0.07)					
No degree.....	44.3 (3.18)	1.2 (0.10)	54.2 (4.94)	1.2 (0.14)	2,125 (227.9)	53.8 (5.79)	† (†)	39.3 (6.05)	75.0 (5.64)	2,412	1.1 (0.16)					
Master's.....	50.5 (1.99)	1.4 (0.06)	45.3 (2.97)	1.1 (0.11)	11,330 (614.7)	62.7 (2.98)	† (†)	28.2 (2.27)	90.5 (1.40)	15,394	1.4 (0.09)					
Doctor's.....	40.4 (6.42)	1.0 (0.16)	34.4 (4.79)	0.7 (0.12)	1,600 (227.2)	49.0 (5.80)	† (†)	28.8 (4.76)	87.8 (4.35)	2,204	1.4 (0.36)					
Professional.....	67.6 (3.89)	2.0 (0.15)	67.6 (6.98)	1.9 (0.31)	2,943 (382.7)	66.5 (6.39)	† (†)	22.1 (5.05)	92.9 (2.21)	4,639	1.6 (0.21)					

See notes at end of table.

Table 434. Participation of employed persons, 17 years old and over, in career-related adult education during the previous 12 months, by selected characteristics of participants: 1995, 1999, and 2005—Continued

Characteristic of employed person	1995		1999		Employed persons, in thousands	2005				Number of career- or job-related courses taken		
	Percent of adults participating in career- or job-related courses	Number of career- or job-related courses taken, per employee	Percent of adults participating in career- or job-related courses	Number of career- or job-related courses taken, per employee		Percent of adults participating				In thousands	Per employee	
						In career- or job-related courses	In apprentice programs	In personal interest courses	In informal learning activities for personal interest			
1	2	3	4	5	6	7	8	9	10	11	12	
Locale¹												
City.....	— (†)	— (†)	— (†)	— (†)	39,283 (1,391.3)	39.6 (1.67)	2.2 (0.60)	23.1 (1.43)	74.0 (1.77)	34,327	0.9 (0.05)	
Suburban	— (†)	— (†)	— (†)	— (†)	48,452 (1,555.0)	41.1 (1.87)	1.2 (0.32)	23.3 (1.38)	74.2 (1.49)	39,802	0.8 (0.04)	
Town	— (†)	— (†)	— (†)	— (†)	17,616 (1,060.7)	36.0 (2.64)	0.5 (0.25)	19.6 (2.83)	71.7 (3.02)	12,947	0.7 (0.07)	
Rural	— (†)	— (†)	— (†)	— (†)	27,847 (885.2)	35.4 (2.14)	1.4 (0.58)	19.0 (2.19)	72.7 (2.22)	21,135	0.8 (0.06)	
Occupation												
Executive, administrative, or managerial occupations.....	42.9 (1.49)	1.2 (0.05)	40.6 (2.06)	1.0 (0.07)	14,596 (707.6)	53.6 (2.79)	0.4 (0.25)	29.5 (2.89)	77.7 (2.87)	16,567	1.1 (0.09)	
Engineers, surveyors, and architects	44.2 (4.46)	1.1 (0.12)	52.1 (6.96)	1.0 (0.16)	1,987 (244.9)	56.3 (5.68)	‡ (†)	30.5 (6.36)	81.0 (4.73)	2,323	1.2 (0.16)	
Natural scientists and mathematicians.....	59.7 (3.97)	1.7 (0.15)	46.0 (6.61)	0.8 (0.14)	4,130 (445.4)	51.5 (5.64)	2.1 (1.55)	31.2 (4.83)	85.3 (5.44)	3,693	0.9 (0.11)	
Social scientists and workers, religious workers, and lawyers ...	59.5 (2.61)	1.8 (0.11)	56.9 (5.66)	1.7 (0.24)	4,697 (480.9)	66.8 (4.48)	‡ (†)	28.3 (3.81)	88.6 (2.95)	7,822	1.7 (0.29)	
Teachers, elementary/secondary	53.9 (2.23)	1.5 (0.08)	52.1 (3.53)	1.2 (0.11)	7,085 (568.5)	67.7 (4.16)	0.6 (0.37)	31.5 (3.93)	83.0 (2.79)	12,233	1.7 (0.13)	
Teachers, postsecondary and counselors, librarians, and archivists.....	41.6 (4.57)	1.0 (0.15)	35.6 (5.85)	0.7 (0.14)	2,393 (420.9)	53.1 (8.63)	‡ (†)	17.7 (4.91)	90.9 (3.97)	2,122	0.9 (0.09)	
Health diagnosing and treating practitioners ...	68.6 (5.85)	2.0 (0.23)	65.2 (11.99)	1.5 (0.50)	978 (208.8)	78.9 (7.10)	‡ (†)	27.4 (9.60)	86.6 (5.37)	1,951	2.0 (0.25)	
Registered nurses, pharmacists, dietitians, therapists, and physician's assistants.....	72.8 (3.02)	2.2 (0.14)	72.2 (5.04)	1.8 (0.21)	2,794 (238.8)	79.7 (4.60)	‡ (†)	29.4 (4.17)	84.3 (3.70)	4,984	1.8 (0.15)	
Writers, artists, entertainers, and athletes ...	23.4 (2.89)	0.5 (0.07)	30.6 (6.21)	0.6 (0.18)	2,969 (405.2)	29.9 (5.69)	‡ (†)	31.8 (6.15)	88.9 (4.39)	1,865	0.6 (0.15)	
Health technologists and technicians.....	50.0 (4.08)	1.4 (0.12)	41.8 (6.00)	1.0 (0.19)	3,060 (436.7)	70.6 (7.31)	2.0 (1.50)	27.8 (6.48)	77.5 (6.40)	4,473	1.5 (0.18)	
Technologists and technicians, except health	43.8 (2.67)	1.1 (0.10)	37.6 (4.87)	1.0 (0.15)	1,774 (336.5)	29.4 (8.10)	‡ (†)	5.3 (2.02)	75.2 (8.98)	1,015	0.6 (0.17)	
Marketing and sales occupations.....	25.2 (1.26)	0.6 (0.03)	21.1 (2.27)	0.4 (0.06)	14,845 (971.9)	32.3 (3.17)	1.3 (0.92)	20.8 (2.64)	70.5 (3.53)	7,724	0.5 (0.05)	
Administrative support occupations, including clerical.....	30.8 (1.15)	0.7 (0.03)	27.4 (2.02)	0.6 (0.05)	21,167 (1,179.4)	36.1 (2.95)	0.8 (0.40)	28.2 (2.28)	72.9 (2.37)	15,443	0.7 (0.10)	
Service occupations.....	22.6 (1.25)	0.6 (0.04)	21.0 (2.15)	0.5 (0.07)	17,180 (1,033.7)	33.7 (3.13)	1.1 (0.36)	16.2 (2.31)	69.0 (2.74)	13,029	0.8 (0.10)	

See notes at end of table.

Table 434. Participation of employed persons, 17 years old and over, in career-related adult education during the previous 12 months, by selected characteristics of participants: 1995, 1999, and 2005—Continued

Characteristic of employed person	1995		1999		2005						
	Percent of adults participating in career- or job-related courses	Number of career- or job-related courses taken, per employee	Percent of adults participating in career- or job-related courses	Number of career- or job-related courses taken, per employee	Employed persons, in thousands	Percent of adults participating				Number of career- or job-related courses taken	
						In career- or job-related courses	In apprentice programs	In personal interest courses	In informal learning activities for personal interest	In thousands	Per employee
1	2	3	4	5	6	7	8	9	10	11	12
Agriculture, forestry, and fishing occupations	12.4 (2.47)	0.3 (0.07)	12.2 (4.09)	0.2 (0.07)	2,522 (423.8)	22.4 (7.61)	2.4 (1.69)	23.0 (11.03)	62.9 (11.04)	960	0.4 (0.12)
Mechanics and repairers ..	29.1 (2.62)	0.7 (0.08)	15.0 (3.40)	0.3 (0.09)	5,241 (521.6)	28.3 (4.47)	4.0 (1.44)	12.6 (3.24)	69.3 (4.36)	2,669	0.5 (0.09)
Construction and extractive occupations	18.6 (2.33)	0.3 (0.04)	13.2 (3.16)	0.2 (0.06)	6,827 (647.1)	12.4 (3.04)	5.3 (2.26)	7.8 (1.88)	69.0 (5.25)	2,323	0.3 (0.13)
Precision production ²	25.6 (4.04)	0.6 (0.12)	18.3 (6.52)	0.4 (0.12)	10,483 (839.3)	23.5 (3.79)	1.6 (0.90)	14.0 (3.34)	64.9 (3.74)	4,904	0.5 (0.07)
Production workers	14.8 (1.13)	0.3 (0.02)	23.0 (3.17)	0.5 (0.08)	— (†)	— (†)	— (†)	— (†)	— (†)	—	— (†)
Transportation and material moving	15.8 (1.83)	0.3 (0.04)	18.4 (3.62)	0.3 (0.06)	7,858 (742.5)	15.2 (2.81)	3.4 (1.77)	10.5 (3.10)	62.5 (5.32)	1,935	0.2 (0.05)
Handlers, equipment cleaners, helpers, and laborers	11.7 (2.77)	0.2 (0.06)	6.8 (3.45)	0.2 (0.12)	— (†)	— (†)	— (†)	— (†)	— (†)	—	— (†)
Miscellaneous occupations	38.8 (3.50)	1.0 (0.11)	14.2 (4.62)	0.3 (0.08)	801 (189.4)	17.2 (6.87)	‡ (†)	8.7 (4.31)	48.3 (13.96)	409	0.5 (0.28)
Annual household income											
\$10,000 or less	12.6 (1.31)	0.2 (0.03)	9.5 (3.09)	0.2 (0.05)	4,425 (444.8)	16.7 (4.35)	0.6 (0.48)	26.1912 (7.96)	69.7 (5.72)	1,556	0.4 (0.12)
\$5,000 or less	8.7 (1.91)	0.1 (0.03)	— (†)	— (†)	1,635 (252.7)	19.1 (6.52)	‡ (†)	22.9 (7.91)	60.9 (8.84)	850	0.5 (0.26)
\$5,001 to \$10,000	15.1 (1.62)	0.3 (0.04)	— (†)	— (†)	2,791 (454.1)	15.3 (5.68)	‡ (†)	28.1 (12.27)	74.8 (6.88)	706	0.3 (0.10)
\$10,001 to \$15,000	15.1 (1.71)	0.4 (0.04)	8.3 (1.88)	0.1 (0.03)	4,814 (633.4)	22.2 (5.77)	‡ (†)	17.3 (5.25)	64.5 (7.57)	2,189	0.5 (0.12)
\$15,001 to \$20,000	20.1 (1.36)	0.4 (0.03)	16.3 (2.75)	0.3 (0.05)	4,515 (398.8)	18.2 (3.09)	5.7 (2.71)	11.5 (1.96)	60.4 (5.11)	1,322	0.3 (0.05)
\$20,001 to \$25,000	20.4 (1.52)	0.5 (0.05)	18.8 (2.79)	0.4 (0.08)	5,593 (490.2)	23.8 (4.02)	1.1 (0.51)	13.3 (3.21)	71.5 (4.11)	2,817	0.5 (0.10)
\$25,001 to \$30,000	24.7 (1.34)	0.5 (0.03)	22.2 (2.73)	0.5 (0.07)	7,444 (680.4)	31.4 (4.88)	0.7 (0.44)	16.7 (3.77)	73.5 (3.91)	4,322	0.6 (0.11)
\$30,001 to \$40,000	30.2 (1.13)	0.8 (0.03)	26.6 (2.82)	0.6 (0.07)	13,123 (928.5)	35.1 (3.45)	1.5 (0.65)	21.7 (3.71)	69.1 (3.55)	8,224	0.6 (0.06)
\$40,001 to \$50,000	34.7 (1.30)	0.8 (0.04)	32.3 (2.34)	0.7 (0.07)	13,647 (1,058.4)	31.5 (3.01)	1.8 (0.72)	20.1 (3.32)	73.5 (2.78)	10,072	0.7 (0.10)
\$50,001 to \$75,000	40.0 (1.18)	1.0 (0.04)	36.6 (1.86)	0.9 (0.06)	33,665 (1,430.4)	42.7 (1.80)	1.2 (0.51)	20.9 (2.10)	71.3 (2.55)	28,991	0.9 (0.06)
More than \$75,000	45.2 (1.40)	1.3 (0.04)	42.5 (1.79)	1.0 (0.06)	46,160 (1,263.3)	48.1 (1.57)	1.3 (0.39)	26.0 (1.37)	79.2 (1.55)	48,951	1.1 (0.05)

—Not available.
†Not applicable.
#Rounds to zero.
‡Reporting standards not met.
¹Detail may not sum to totals due to missing locale information.
²For 2005, figures include "Production workers" occupations data.

NOTE: Data do not include persons enrolled in high school or below. 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 Education, National Center for Education Statistics, Adult Education Survey (AE-NHES:1995, AE-NHES:1999, and AE-NHES:2005) of the National Household Education Surveys Program. (This table was prepared October 2010.)

Table 435. Participation rate of persons, 17 years old and over, in adult education during the previous 12 months, by selected characteristics of participants: Selected years, 1991 through 2005

Characteristic of participant	Percent taking any program, class, or course					Percent taking specific programs, classes, or courses, 2005						Percent doing informal learning activities for personal interest, 2005
	1991	1995	1999	2001	2005	Basic skills/ Educational Development (GED) classes	English as a second language (ESL) classes	Part-time post- secondary education ¹	Career- or job- related courses	Apprentice programs	Personal-interest courses	
1	2	3	4	5	6	7	8	9	10	11	12	13
Total	33.0 (0.68)	40.2 (0.48)	44.5 (0.77)	46.4 (0.55)	44.4 (0.74)	1.3 (0.22)	0.9 (0.17)	5.0 (0.29)	27.0 (0.63)	1.2 (0.18)	21.4 (0.71)	70.5 (0.79)
Sex												
Male.....	32.6 (1.09)	38.2 (0.65)	41.7 (1.15)	43.1 (0.83)	41.0 (1.20)	1.4 (0.41)	0.9 (0.29)	5.0 (0.44)	24.5 (0.99)	1.7 (0.31)	18.3 (1.08)	70.8 (1.10)
Female.....	33.2 (0.97)	42.1 (0.59)	47.1 (1.02)	49.5 (0.78)	47.5 (1.01)	1.2 (0.19)	0.9 (0.15)	5.1 (0.37)	29.2 (0.95)	0.7 (0.15)	24.2 (0.88)	70.2 (1.03)
Age												
17 to 24 years old.....	37.8 (1.46)	47.0 (1.12)	49.9 (2.34)	52.8 (2.04)	52.8 (2.79)	6.0 (1.48)	1.7 (0.61)	11.5 (1.34)	21.3 (2.22)	2.7 (0.76)	26.3 (2.60)	69.2 (2.54)
25 to 29 years old.....	40.0 (2.33)	49.6 (1.31)	56.5 (2.53)	52.9 (2.60)	51.6 (3.82)	1.8 (0.48)	3.3 (1.48)	9.1 (1.50)	29.5 (2.48)	3.2 (1.06)	20.9 (2.78)	66.8 (3.75)
30 to 34 years old.....	37.6 (2.88)	47.3 (1.41)	56.2 (2.57)	53.7 (2.18)	52.7 (2.52)	1.9 (0.66)	1.6 (0.64)	8.4 (1.28)	33.8 (2.71)	2.5 (0.89)	23.2 (2.23)	73.8 (2.22)
35 to 39 years old.....	42.1 (2.71)	47.7 (1.15)	50.1 (2.43)	54.0 (1.71)	48.6 (3.21)	0.4 (0.16)	0.7 (0.26)	6.1 (0.90)	32.6 (3.29)	0.9 (0.36)	20.7 (2.67)	75.5 (2.69)
40 to 44 years old.....	49.2 (3.28)	50.9 (1.15)	50.5 (2.43)	53.5 (1.88)	48.9 (2.43)	0.8 (0.31)	0.6 (0.23)	4.7 (0.77)	34.8 (2.30)	0.9 (0.42)	23.4 (2.29)	71.5 (2.62)
45 to 49 years old.....	40.0 (2.43)	48.7 (1.66)	49.8 (2.69)	55.4 (2.02)	49.0 (2.09)	0.6 (0.30)	0.6 (0.25)	3.2 (0.48)	37.7 (1.83)	0.5 (0.23)	19.3 (1.88)	71.6 (2.52)
50 to 54 years old.....	26.8 (3.31)	42.5 (1.38)	47.2 (2.51)	51.1 (2.22)	46.6 (2.36)	0.2 (0.11)	0.3 (0.15)	4.5 (0.75)	35.2 (2.25)	0.6 (0.28)	20.3 (1.64)	75.6 (1.89)
55 to 59 years old.....	29.0 (3.74)	32.2 (1.66)	38.0 (2.60)	44.1 (1.98)	42.2 (2.78)	0.4 (0.29)	0.4 (0.26)	1.9 (0.43)	31.9 (2.39)	0.3 (0.17)	18.0 (1.63)	69.5 (2.56)
60 to 64 years old.....	17.4 (1.90)	23.7 (1.89)	31.4 (2.83)	30.8 (2.18)	37.9 (3.00)	± (†)	± (†)	0.9 (0.36)	20.9 (2.07)	0.3 (0.20)	24.1 (2.40)	71.4 (3.04)
65 to 69 years old.....	14.2 (2.97)	18.1 (1.46)	25.4 (2.54)	20.5 (1.74)	26.2 (2.67)	± (†)	± (†)	0.5 (0.22)	8.1 (1.36)	± (†)	20.9 (2.41)	67.6 (2.52)
70 years old and over.....	8.6 (1.25)	13.8 (1.09)	15.0 (1.38)	21.7 (1.37)	21.5 (1.44)	0.2 (0.10)	± (†)	0.3 (0.23)	4.0 (0.78)	± (†)	17.9 (1.33)	62.9 (1.82)
Racial/ethnic group												
White.....	34.1 (0.82)	41.5 (0.54)	44.4 (0.89)	47.4 (0.59)	45.6 (0.84)	0.9 (0.23)	0.2 (0.08)	4.9 (0.35)	29.1 (0.70)	0.9 (0.17)	22.1 (0.87)	73.0 (0.92)
Black.....	25.9 (2.23)	37.0 (1.45)	46.3 (2.30)	43.3 (1.50)	46.4 (2.81)	1.9 (0.49)	± (†)	5.4 (0.97)	27.0 (2.53)	1.5 (0.73)	23.7 (2.11)	65.3 (2.02)
Hispanic.....	31.4 (2.63)	33.7 (1.18)	41.3 (2.51)	41.7 (2.28)	37.8 (2.43)	2.6 (0.72)	5.6 (1.22)	5.7 (1.55)	16.9 (1.72)	2.2 (0.63)	15.4 (1.75)	57.5 (2.86)
Asian.....	— (†)	— (†)	— (†)	— (†)	48.3 (5.39)	1.2 (0.65)	2.6 (1.03)	7.6 (2.62)	27.2 (4.70)	± (†)	26.5 (5.06)	81.1 (4.10)
Pacific Islander.....	— (†)	— (†)	— (†)	— (†)	± (†)	± (†)	± (†)	± (†)	± (†)	± (†)	± (†)	± (†)
Asian/Pacific Islander.....	35.9 (5.55)	39.7 (2.92)	51.1 (4.63)	49.5 (3.81)	± (†)	± (†)	± (†)	± (†)	± (†)	± (†)	± (†)	± (†)
American Indian/Alaska Native.....	29.3 (11.55)	38.8 (4.85)	36.3 (9.16)	50.2 (8.28)	36.3 (10.17)	± (†)	± (†)	4.4 (1.82)	23.0 (8.51)	± (†)	13.0 (6.16)	70.6 (9.18)
Two or more races.....	— (†)	— (†)	— (†)	— (†)	39.4 (4.94)	5.1 (2.17)	± (†)	3.2 (1.07)	23.8 (4.06)	1.3 (0.59)	21.0 (4.13)	77.6 (5.28)
Highest level of education completed												
8th grade or less.....	7.7 (1.44)	10.0 (1.10)	14.7 (2.92)	19.7 (2.84)	15.5 (2.47)	1.9 (0.57)	4.3 (1.70)	0.4 (0.23)	1.7 (0.55)	1.7 (0.91)	7.3 (1.24)	38.1 (3.27)
9th through 12th grade, no completion.....	15.8 (2.25)	20.2 (1.38)	25.6 (2.55)	25.5 (1.53)	27.2 (2.40)	7.9 (1.69)	1.1 (0.41)	2.1 (0.57)	7.6 (1.44)	1.5 (0.61)	12.5 (1.53)	55.7 (2.52)
High school completion.....	24.1 (1.10)	30.7 (0.84)	34.8 (1.37)	33.9 (1.07)	33.0 (1.62)	0.5 (0.24)	0.7 (0.24)	2.5 (0.36)	17.2 (1.18)	1.1 (0.35)	16.8 (1.27)	63.6 (1.93)
Some vocational/technical.....	34.2 (3.80)	41.9 (2.16)	41.1 (3.97)	50.7 (3.51)	43.3 (4.30)	0.5 (0.55)	± (†)	4.5 (1.42)	28.3 (3.71)	± (†)	23.2 (3.09)	77.6 (3.98)
Some college.....	41.4 (1.67)	49.3 (0.92)	51.1 (1.76)	57.4 (1.29)	51.1 (1.79)	0.3 (0.18)	0.8 (0.52)	8.6 (1.06)	28.8 (1.54)	1.4 (0.47)	26.8 (1.80)	79.8 (1.52)
Associate's degree.....	49.2 (5.82)	56.1 (1.85)	56.6 (2.93)	62.5 (2.15)	56.5 (3.64)	0.5 (0.40)	1.1 (0.51)	6.6 (1.42)	40.8 (3.27)	1.9 (0.66)	20.1 (2.48)	75.9 (3.70)
Bachelor's degree.....	51.1 (2.46)	56.9 (1.20)	60.3 (1.84)	64.5 (1.39)	59.8 (1.56)	± (†)	0.4 (0.17)	6.3 (0.82)	44.1 (1.61)	0.4 (0.17)	28.6 (1.55)	79.3 (1.72)
Some graduate work (or study).....	55.1 (2.90)	59.9 (1.55)	63.6 (1.96)	68.9 (1.64)	66.3 (1.99)	± (†)	0.5 (0.32)	8.7 (0.86)	49.3 (2.15)	1.2 (0.61)	30.7 (1.77)	88.0 (1.06)
No degree.....	— (†)	62.2 (2.67)	64.7 (4.39)	64.2 (3.54)	65.3 (4.84)	± (†)	± (†)	14.5 (2.55)	40.5 (4.68)	± (†)	38.7 (4.81)	78.2 (4.34)
Master's.....	— (†)	59.1 (1.88)	65.7 (2.64)	70.7 (2.10)	67.5 (2.59)	± (†)	0.9 (0.52)	8.9 (1.31)	51.4 (2.81)	1.4 (0.97)	30.6 (2.04)	88.8 (1.33)
Doctor's.....	— (†)	54.0 (6.99)	53.1 (4.73)	63.7 (3.98)	58.0 (4.94)	± (†)	± (†)	10.1 (3.14)	34.0 (4.53)	± (†)	31.4 (3.95)	90.3 (3.26)
Professional.....	— (†)	65.9 (3.91)	72.5 (5.75)	72.8 (3.79)	68.2 (5.77)	± (†)	± (†)	1.9 (1.01)	59.0 (6.35)	± (†)	23.9 (4.35)	91.6 (2.15)
Urbanicity												
City.....	— (†)	— (†)	— (†)	— (†)	45.8 (1.46)	1.4 (0.31)	1.6 (0.38)	5.7 (0.59)	26.3 (1.24)	1.8 (0.43)	22.5 (1.10)	69.2 (1.39)
Suburban.....	— (†)	— (†)	— (†)	— (†)	46.9 (1.33)	0.9 (0.23)	0.9 (0.36)	5.8 (0.55)	29.7 (1.26)	0.9 (0.22)	23.4 (1.16)	73.4 (1.28)
Town.....	— (†)	— (†)	— (†)	— (†)	41.8 (2.33)	2.7 (1.16)	0.4 (0.14)	4.2 (0.87)	25.6 (1.74)	0.5 (0.21)	18.5 (1.96)	70.5 (2.43)
Rural.....	— (†)	— (†)	— (†)	— (†)	39.5 (2.04)	0.8 (0.22)	0.3 (0.15)	3.3 (0.59)	24.2 (1.38)	1.2 (0.40)	18.3 (1.76)	67.6 (1.76)
Labor force status												
In labor force.....	40.7 (0.96)	49.8 (0.69)	52.1 (0.94)	— (†)	52.3 (0.93)	1.4 (0.32)	0.8 (0.19)	6.4 (0.39)	37.1 (0.83)	1.5 (0.24)	21.9 (0.91)	73.0 (0.94)
Employed.....	42.0 (1.00)	50.7 (0.53)	52.5 (0.96)	— (†)	53.4 (0.94)	1.1 (0.31)	0.7 (0.20)	6.5 (0.39)	38.8 (0.83)	1.4 (0.24)	21.8 (0.94)	73.5 (1.01)
Unemployed.....	26.0 (3.24)	36.6 (1.91)	44.9 (4.60)	— (†)	37.8 (4.26)	5.8 (1.60)	1.9 (0.79)	5.2 (1.37)	13.5 (2.16)	2.1 (1.23)	22.1 (3.99)	66.7 (3.80)
Not in labor force.....	15.7 (0.91)	21.3 (0.69)	24.9 (1.17)	— (†)	27.6 (1.18)	1.1 (0.24)	1.3 (0.36)	2.3 (0.45)	5.7 (0.55)	0.6 (0.22)	20.5 (0.97)	65.2 (1.27)
Occupation												
Executive, administrative, or managerial occupations.....	49.3 (3.45)	55.8 (1.92)	57.0 (2.11)	66.2 (1.61)	64.1 (2.73)	0.2 (0.24)	± (†)	6.0 (1.10)	51.8 (2.82)	0.4 (0.24)	28.8 (2.89)	78.6 (2.71)
Engineers, surveyors, and architects.....	62.6 (7.85)	65.5 (4.18)	79.8 (6.01)	68.1 (4.46)	71.2 (5.68)	± (†)	± (†)	9.3 (3.21)	55.6 (5.60)	± (†)	31.4 (6.19)	81.1 (4.63)

See notes at end of table.

Table 435. Participation rate of persons, 17 years old and over, in adult education during the previous 12 months, by selected characteristics of participants: Selected years, 1991 through 2005—Continued

Characteristic of participant	Percent taking any program, class, or course					Percent taking specific programs, classes, or courses, 2005						Percent doing informal learning activities for personal interest, 2005
	1991	1995	1999	2001	2005	Basic skills/ General Educational Development (GED) classes	English as a second language (ESL) classes	Part-time post-secondary education ¹	Career- or job-related courses	Apprentice programs	Personal-interest courses	
1	2	3	4	5	6	7	8	9	10	11	12	13
Natural scientists and mathematicians.....	48.2 (9.86)	72.3 (3.52)	60.5 (6.74)	74.0 (4.46)	69.1 (4.63)	‡ (†)	‡ (†)	9.2 (2.49)	49.6 (5.27)	2.0 (1.47)	30.2 (4.53)	85.5 (5.16)
Social scientists and workers, religious workers, and lawyers.....	55.6 (6.01)	76.6 (2.61)	79.3 (4.35)	83.5 (3.05)	77.7 (4.11)	‡ (†)	‡ (†)	12.8 (3.16)	64.3 (4.42)	‡ (†)	29.2 (3.52)	89.4 (2.78)
Teachers, elementary/secondary.....	56.0 (4.20)	54.8 (4.64)	66.5 (5.61)	79.9 (2.95)	79.7 (2.59)	‡ (†)	1.6 (1.00)	8.3 (3.16)	65.0 (3.99)	0.6 (0.34)	31.7 (3.78)	83.8 (2.62)
Teachers: college, university, postsecondary institutions.....	45.5 (8.31)	76.7 (1.98)	78.4 (3.11)	69.4 (4.60)	61.3 (6.96)	‡ (†)	‡ (†)	4.7 (3.22)	49.0 (8.50)	‡ (†)	19.5 (4.98)	91.7 (3.58)
Health diagnosing and treating practitioners.....	67.1 (13.73)	71.1 (5.78)	79.8 (9.02)	78.5 (6.38)	88.8 (5.59)	0.6 (0.55)	‡ (†)	15.4 (2.47)	79.5 (6.59)	‡ (†)	31.9 (9.15)	84.5 (5.63)
Registered nurses, pharmacists, dieticians, therapists, and physician's assistants.....	59.6 (6.69)	86.7 (2.47)	85.4 (4.10)	82.7 (3.83)	85.4 (4.05)	‡ (†)	‡ (†)	7.9 (2.17)	78.2 (4.89)	‡ (†)	27.4 (3.73)	83.1 (3.92)
Writers, artists, entertainers, and athletes.....	42.9 (6.63)	49.9 (4.37)	50.0 (6.93)	46.8 (6.03)	52.5 (6.59)	0.2 (0.23)	‡ (†)	5.4 (2.16)	27.8 (5.02)	2.2 (1.53)	35.3 (6.42)	88.2 (3.89)
Health technologists and technicians... Technologists and technicians, except health and engineering.....	68.6 (10.03)	74.8 (3.64)	66.9 (6.16)	85.6 (3.25)	72.1 (8.37)	0.2 (0.16)	‡ (†)	6.0 (2.11)	63.2 (8.67)	1.7 (1.23)	24.6 (5.91)	75.6 (7.26)
Marketing and sales occupations.....	53.0 (6.49)	64.3 (2.84)	59.6 (5.07)	70.2 (3.32)	33.8 (8.53)	‡ (†)	‡ (†)	7.1 (3.19)	29.1 (7.68)	‡ (†)	6.2 (2.14)	76.0 (8.80)
Administrative support occupations, including clerical.....	34.4 (2.38)	44.2 (1.34)	44.4 (2.73)	51.1 (2.10)	45.7 (3.00)	1.7 (0.59)	0.4 (0.26)	4.5 (0.88)	30.2 (2.77)	1.4 (0.80)	21.5 (2.43)	68.9 (3.37)
Service occupations.....	29.9 (1.74)	51.7 (1.25)	50.1 (2.29)	58.7 (1.72)	54.6 (2.70)	1.1 (0.53)	‡ (†)	6.6 (0.98)	33.5 (2.70)	1.3 (0.63)	27.7 (2.18)	73.8 (2.33)
Agriculture, forestry, and fishing occupations.....	25.2 (1.82)	46.5 (1.38)	50.9 (2.74)	49.3 (2.24)	44.7 (2.47)	1.6 (0.39)	1.9 (0.88)	6.8 (1.42)	28.5 (2.64)	1.4 (0.57)	17.5 (2.10)	65.4 (2.71)
Mechanics and repairers.....	14.3 (5.19)	26.4 (3.55)	34.3 (7.16)	46.4 (6.80)	44.4 (9.02)	3.9 (3.49)	5.7 (4.02)	1.1 (0.89)	20.3 (6.92)	2.3 (1.53)	21.6 (10.05)	64.0 (10.03)
Construction and extractive occupations.....	32.1 (4.72)	47.6 (2.70)	42.2 (5.44)	35.1 (3.40)	40.1 (5.10)	0.5 (0.40)	‡ (†)	6.0 (1.89)	27.4 (4.26)	3.8 (1.38)	12.7 (3.18)	69.3 (4.27)
Precision production ²	21.9 (3.38)	38.0 (2.45)	34.5 (4.78)	32.3 (3.19)	27.6 (3.73)	1.2 (0.68)	1.1 (0.49)	3.2 (1.08)	12.3 (2.54)	5.2 (1.89)	11.4 (2.72)	72.3 (4.48)
Production workers.....	31.2 (6.09)	43.0 (4.32)	38.3 (8.48)	35.1 (6.19)	33.0 (3.98)	0.5 (0.37)	0.4 (0.16)	4.2 (1.42)	22.2 (3.41)	1.5 (0.81)	13.3 (2.99)	63.9 (3.46)
Transportation, material moving.....	21.1 (2.31)	30.7 (1.29)	38.0 (3.47)	39.4 (2.82)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)
Handler, equipment, cleaners, helpers, and laborers.....	20.7 (4.69)	28.4 (2.32)	33.3 (4.25)	30.4 (3.29)	34.6 (5.27)	4.7 (3.29)	3.3 (2.35)	1.3 (0.76)	14.7 (2.63)	3.2 (1.57)	11.2 (2.85)	60.8 (4.98)
Miscellaneous occupations.....	20.8 (3.49)	25.1 (2.70)	19.6 (4.56)	18.2 (3.20)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)
Annual household income	— (†)	56.6 (3.61)	43.0 (7.98)	64.9 (7.07)	39.2 (11.25)	‡ (†)	‡ (†)	‡ (†)	15.7 (5.81)	‡ (†)	7.8 (3.63)	52.2 (12.32)
\$5,000 or less.....	13.6 (1.70)	21.3 (1.59)	21.0 (3.22)	25.1 (2.92)	35.9 (4.83)	3.3 (2.17)	1.8 (1.04)	3.6 (1.52)	13.7 (4.00)	2.3 (1.89)	17.2 (3.59)	52.9 (4.97)
\$5,001 to \$10,000.....	17.5 (2.14)	23.9 (1.37)	24.5 (3.39)	28.0 (2.74)	29.6 (4.49)	2.4 (0.92)	1.5 (0.71)	1.7 (0.81)	8.4 (2.11)	‡ (†)	21.8 (4.75)	61.0 (3.75)
\$10,001 to \$15,000.....	22.8 (2.60)	26.7 (1.61)	22.8 (2.45)	28.6 (2.30)	25.0 (3.41)	2.4 (0.69)	0.8 (0.33)	3.3 (1.17)	11.3 (2.52)	0.9 (0.66)	15.5 (3.14)	58.6 (4.43)
\$15,001 to \$20,000.....	21.9 (2.35)	31.8 (1.55)	31.4 (2.75)	30.2 (2.48)	24.3 (2.54)	1.0 (0.38)	0.5 (0.30)	3.3 (1.19)	10.1 (1.37)	2.6 (1.20)	12.9 (2.00)	61.1 (3.17)
\$20,001 to \$25,000.....	26.7 (3.20)	31.4 (1.27)	35.8 (2.81)	35.2 (2.27)	28.2 (2.51)	1.7 (0.78)	1.9 (0.62)	4.4 (1.26)	12.8 (2.04)	1.1 (0.50)	13.6 (1.88)	63.2 (3.11)
\$25,001 to \$30,000.....	32.1 (2.51)	37.9 (1.47)	36.7 (2.61)	38.3 (2.43)	38.6 (3.63)	1.4 (0.72)	1.3 (0.61)	6.8 (2.09)	20.2 (3.37)	0.7 (0.38)	18.4 (2.52)	71.0 (3.38)
\$30,001 to \$40,000.....	35.6 (1.84)	42.7 (0.86)	45.2 (2.05)	44.6 (1.54)	42.7 (2.65)	1.9 (0.65)	1.0 (0.49)	3.7 (0.68)	22.8 (2.27)	1.1 (0.39)	23.0 (2.49)	68.7 (2.36)
\$40,001 to \$50,000.....	44.8 (1.84)	46.8 (1.39)	47.9 (2.31)	49.1 (1.93)	41.4 (2.92)	1.6 (0.53)	2.4 (1.25)	2.9 (0.55)	22.4 (2.00)	1.5 (0.56)	20.5 (2.47)	71.9 (2.62)
\$50,001 to \$75,000.....	46.6 (2.03)	52.0 (0.94)	55.1 (1.80)	55.7 (1.48)	47.7 (1.74)	0.4 (0.19)	0.3 (0.17)	5.8 (0.69)	33.0 (1.37)	0.9 (0.36)	20.5 (1.67)	70.6 (2.15)
More than \$75,000.....	48.7 (3.15)	58.0 (1.27)	56.9 (1.66)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)	— (†)
\$75,001 to \$100,000.....	— (†)	— (†)	— (†)	59.7 (1.91)	56.4 (2.28)	2.2 (1.17)	0.3 (0.19)	7.5 (0.89)	38.6 (2.26)	1.8 (0.64)	25.3 (1.51)	75.0 (1.97)
More than \$100,000.....	— (†)	— (†)	— (†)	59.3 (1.82)	58.4 (2.11)	‡ (†)	0.7 (0.38)	6.1 (0.70)	39.4 (1.80)	0.8 (0.44)	28.2 (1.62)	81.2 (1.68)

—Not available.

†Not applicable.

‡Reporting standards not met.

¹Includes college and university degree programs, post-degree certificate programs, and vocational certificate programs.

²For 2005, figures include "Production workers" occupations data.

NOTE: Adult education is defined as all education activities, except full-time enrollment in higher education credential programs. Data do not include persons enrolled in high school or below. Race categories exclude persons of Hispanic ethnicity. Standard errors appear in parentheses.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Adult Education Survey (AE-NHES:1991, AE-NHES:1995, AE-NHES:1999, and AE-NHES:2005) and Adult Education and Lifelong Learning Survey (AELL-NHES:2001) of the National Household Education Surveys Program. (This table was prepared November 2010.)

