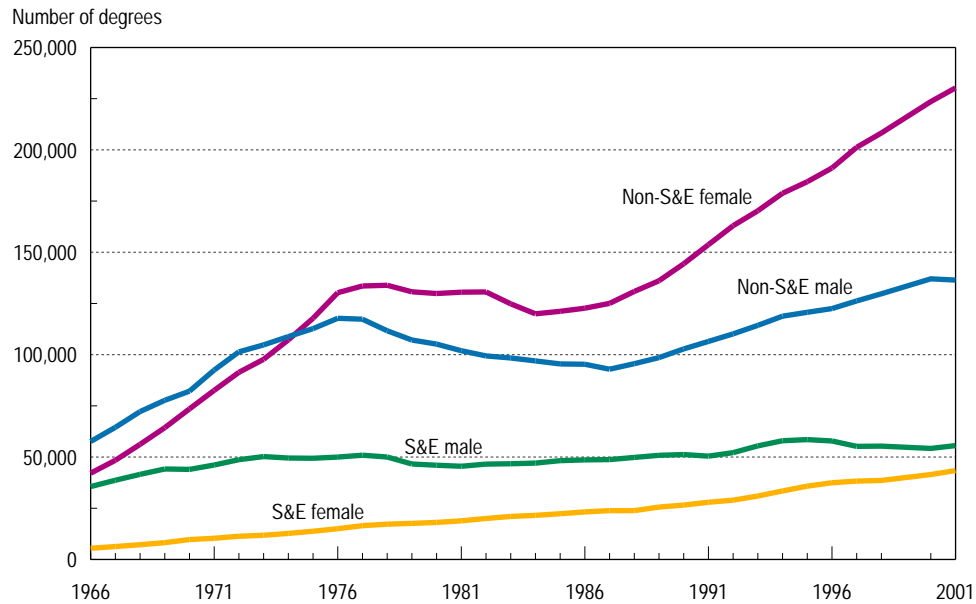


**FIGURE E-1. Master's degrees awarded in S&E and non-S&E fields, by sex: 1966–2001**



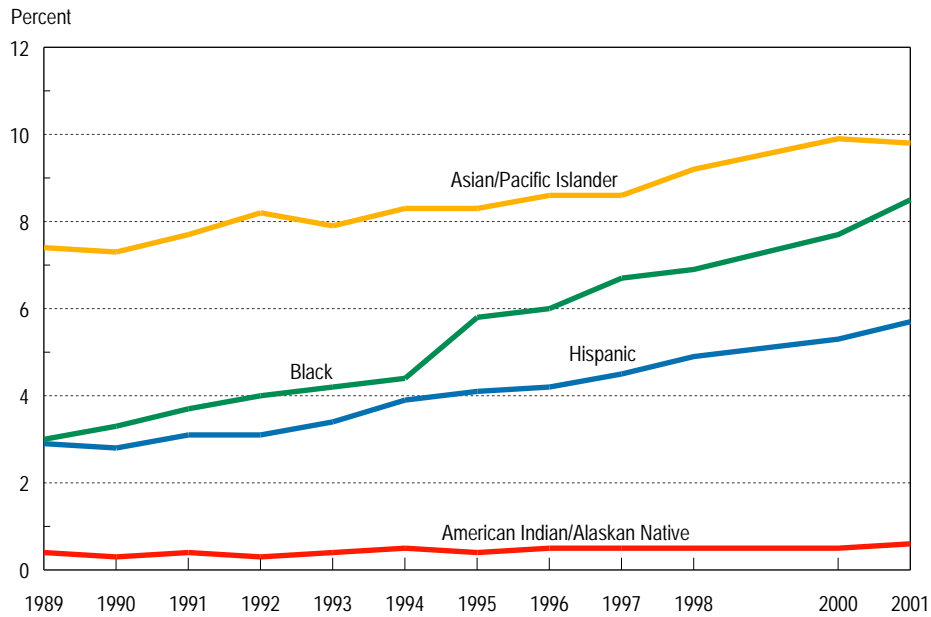
NOTE: National data not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1966–2001.

The number of master's degrees earned by females rose more rapidly than for males in the 1990s.

- By 2001, females earned 44 percent of S&E and 63 percent of non-S&E master's degrees, up from 34 and 48 percent, respectively, in 1990.
- In S&E and non-S&E fields, both the number of females earning master's degrees and their proportion of all students earning master's degrees rose steadily during the 1990s.
- For both males and females, the proportion of master's degrees earned in S&E fields declined in the 1990s.

**FIGURE E-2. Minority share of S&E master's degrees awarded to U.S. citizens and permanent residents, by race/ethnicity: 1989–2001**



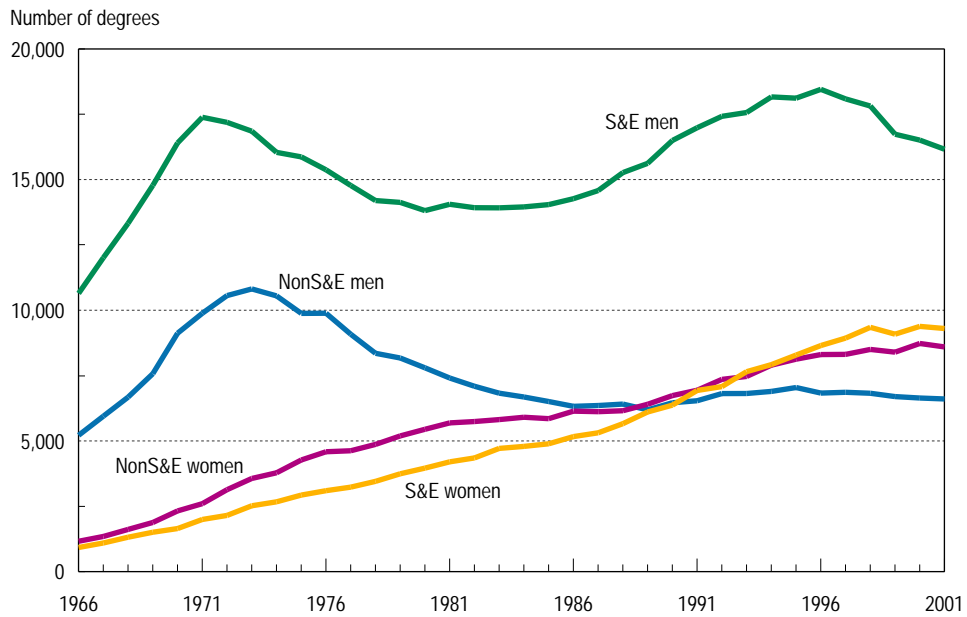
NOTE: National data not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1966–2001.

The percentages of S&E master's degrees earned by Asians/Pacific Islanders, blacks, Hispanics, and American Indians/Alaskan Natives increased during the 1990s.

- The number of S&E master's degrees awarded increased for all minority groups and for white females during the 1990s.
- The number of S&E master's degrees earned by white males decreased during the decade.

**FIGURE F-1. Doctoral degrees awarded in S&E and non-S&E fields, by sex: 1966–2001**

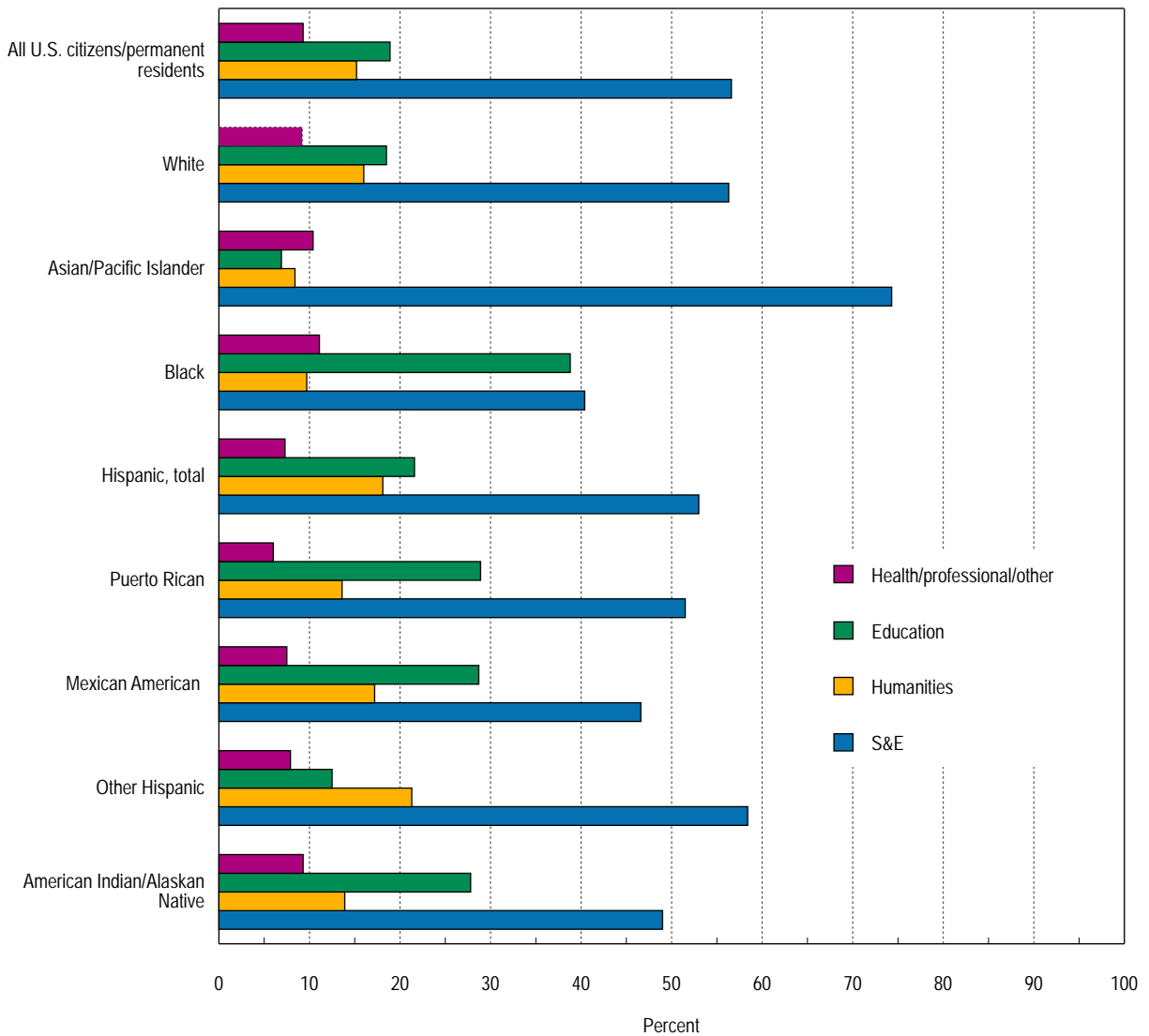


SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1966–2001.

Both the number of females earning doctoral degrees and their percentage of total awards in S&E and non-S&E fields rose between 1966 and 2001.

- ● By 2001, females earned 37 percent of S&E and 57 percent of non-S&E □
- □ doctoral degrees, up from 8 and 18 percent, respectively, in 1966.
- ● The number of males earning S&E doctoral degrees dropped between □
- □ 1996 and 2001.

**FIGURE F-2. Field distribution of S&E and non-S&E doctoral degrees awarded to U.S. citizens and permanent residents, by race/ethnicity: 2001**



NOTE: Hispanic total includes Puerto Rican, Mexican American, and other Hispanic.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2001.

The proportion of all doctorates earned in S&E fields varies considerably across racial/ethnic groups.

- More than half of all doctorates awarded to U.S. citizens and permanent residents were earned in S&E fields in 2001.
- However, among blacks, more than half of the doctorates earned in 2001 were in non-S&E fields, primarily education.
- In contrast, 78 percent of doctorates earned by Asians/Pacific Islanders were in S&E fields, and only 7 percent were in education in 2001.

TABLE E-1. Master's degrees, by field: 1994–2001

| Field                                       | 1994    | 1995    | 1996    | 1997    | 1998    | 2000    | 2001    |
|---|---------|---------|---------|---------|---------|---------|---------|
| All fields                                  | 389,008 | 399,428 | 408,932 | 420,954 | 431,871 | 456,260 | 466,645 |
| S&E   | 91,411  | 94,309  | 95,313  | 93,485  | 93,918  | 95,683  | 98,986  |
| Sciences                                    | 62,694  | 65,679  | 67,552  | 67,611  | 67,780  | 69,947  | 72,463  |
| Agricultural sciences                       | 3,410   | 3,574   | 4,021   | 3,927   | 3,862   | 3,858   | 3,752   |
| Biological sciences                         | 5,276   | 5,495   | 6,286   | 6,594   | 6,368   | 6,325   | 6,487   |
| Computer sciences                           | 10,546  | 10,563  | 10,613  | 10,489  | 11,752  | 14,529  | 16,341  |
| Earth, atmospheric, and ocean sciences      | 1,418   | 1,483   | 1,487   | 1,435   | 1,426   | 1,345   | 1,363   |
| Atmospheric                                 | 197     | 203     | 199     | 177     | 199     | 156     | 140     |
| Earth                                       | 1,073   | 1,142   | 1,146   | 1,145   | 1,105   | 1,104   | 1,121   |
| Ocean                                       | 148     | 138     | 142     | 113     | 122     | 85      | 102     |
| Mathematics and statistics                  | 3,804   | 3,932   | 3,742   | 3,599   | 3,525   | 3,295   | 3,280   |
| Physical sciences                           | 4,263   | 4,241   | 4,364   | 4,141   | 3,969   | 3,512   | 3,737   |
| Astronomy                                   | 129     | 119     | 115     | 93      | 101     | 102     | 93      |
| Chemistry                                   | 2,010   | 2,105   | 2,273   | 2,268   | 2,173   | 1,908   | 2,009   |
| Physics                                     | 1,952   | 1,826   | 1,686   | 1,497   | 1,401   | 1,244   | 1,376   |
| Other                                       | 172     | 191     | 290     | 283     | 294     | 258     | 259     |
| Psychology                                  | 11,572  | 13,132  | 13,043  | 13,633  | 13,146  | 13,708  | 14,335  |
| Social sciences                             | 22,405  | 23,259  | 23,996  | 23,793  | 23,732  | 23,375  | 23,168  |
| Anthropology                                | 989     | 1,053   | 1,051   | 1,111   | 1,098   | 950     | 1,092   |
| Area and ethnic studies                     | 1,597   | 1,584   | 1,657   | 1,587   | 1,550   | 1,529   | 1,515   |
| Economics                                   | 2,989   | 2,838   | 2,964   | 2,804   | 2,843   | 2,515   | 2,492   |
| History of science                          | 16      | 13      | 10      | 18      | 22      | 24      | 26      |
| Linguistics                                 | 650     | 603     | 601     | 642     | 568     | 553     | 552     |
| Political science and public administration | 12,041  | 12,802  | 13,370  | 13,368  | 13,151  | 13,035  | 12,929  |
| Sociology                                   | 1,675   | 1,790   | 1,822   | 1,752   | 1,774   | 2,036   | 1,901   |
| Other                                       | 2,448   | 2,576   | 2,521   | 2,511   | 2,726   | 2,733   | 2,661   |
| Engineering                                 | 28,717  | 28,630  | 27,761  | 25,874  | 26,138  | 25,736  | 26,523  |
| Aerospace                                   | 1,038   | 821     | 774     | 625     | 584     | 560     | 611     |
| Chemical                                    | 1,287   | 1,369   | 1,416   | 1,345   | 1,372   | 1,352   | 1,368   |
| Civil                                       | 4,918   | 5,168   | 5,002   | 4,880   | 4,736   | 4,140   | 4,013   |
| Electrical                                  | 8,870   | 8,743   | 8,156   | 7,341   | 7,971   | 8,339   | 8,630   |
| Mechanical                                  | 4,277   | 4,368   | 4,009   | 3,756   | 3,551   | 3,378   | 3,472   |
| Materials                                   | 910     | 852     | 774     | 724     | 698     | 759     | 709     |
| Industrial                                  | 2,882   | 2,873   | 3,027   | 2,935   | 3,109   | 3,048   | 3,401   |
| Other                                       | 4,535   | 4,436   | 4,603   | 4,268   | 4,117   | 4,160   | 4,319   |
| Non-S&E                                     | 297,597 | 305,119 | 313,619 | 327,469 | 337,953 | 360,577 | 367,659 |

NOTE: Data not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1994–2001.

TABLE E-2. Master's degrees awarded to women, by field: 1994–2001

| Field                                       | 1994    | 1995    | 1996    | 1997    | 1998    | 2000    | 2001    | 1994    | 2001 |
|---|---------|---------|---------|---------|---------|---------|---------|---------|------|
|   | Number  |         |         |         |         |         |         | Percent |      |
| All fields                                  | 212,246 | 220,230 | 228,572 | 239,497 | 246,810 | 265,026 | 273,639 | 54.6    | 58.6 |
| S&E   | 33,441  | 35,791  | 37,453  | 38,262  | 38,583  | 41,470  | 43,393  | 36.6    | 43.8 |
| Sciences                                    | 29,018  | 31,159  | 32,701  | 33,567  | 33,420  | 36,130  | 37,765  | 46.3    | 52.1 |
| Agricultural sciences                       | 1,391   | 1,471   | 1,707   | 1,695   | 1,709   | 1,819   | 1,837   | 40.8    | 49.0 |
| Biological sciences                         | 2,780   | 2,858   | 3,341   | 3,518   | 3,354   | 3,510   | 3,755   | 52.7    | 57.9 |
| Computer sciences                           | 2,729   | 2,786   | 2,850   | 2,979   | 3,414   | 4,868   | 5,508   | 25.9    | 33.7 |
| Earth, atmospheric, and ocean sciences      | 424     | 451     | 436     | 487     | 494     | 513     | 564     | 29.9    | 41.4 |
| Atmospheric                                 | 47      | 51      | 35      | 42      | 52      | 37      | 40      | 23.9    | 28.6 |
| Earth                                       | 328     | 353     | 347     | 393     | 397     | 434     | 472     | 30.6    | 42.1 |
| Ocean                                       | 49      | 47      | 54      | 52      | 45      | 42      | 52      | 33.1    | 51.0 |
| Mathematics and statistics                  | 1,493   | 1,579   | 1,506   | 1,489   | 1,470   | 1,498   | 1,389   | 39.2    | 42.3 |
| Physical sciences                           | 1,233   | 1,283   | 1,450   | 1,333   | 1,440   | 1,215   | 1,301   | 28.9    | 34.8 |
| Astronomy                                   | 31      | 31      | 27      | 32      | 30      | 25      | 36      | 24.0    | 38.7 |
| Chemistry                                   | 827     | 885     | 998     | 927     | 998     | 823     | 825     | 41.1    | 41.1 |
| Physics                                     | 297     | 291     | 301     | 255     | 255     | 244     | 286     | 15.2    | 20.8 |
| Other                                       | 78      | 76      | 124     | 119     | 157     | 123     | 154     | 45.3    | 59.5 |
| Psychology                                  | 8,285   | 9,397   | 9,373   | 9,918   | 9,540   | 10,293  | 10,858  | 71.6    | 75.7 |
| Social sciences                             | 10,683  | 11,334  | 12,038  | 12,148  | 11,999  | 12,414  | 12,553  | 47.7    | 54.2 |
| Anthropology                                | 610     | 668     | 631     | 712     | 686     | 587     | 689     | 61.7    | 63.1 |
| Area and ethnic studies                     | 819     | 818     | 856     | 845     | 842     | 879     | 896     | 51.3    | 59.1 |
| Economics                                   | 959     | 894     | 1,002   | 953     | 944     | 952     | 973     | 32.1    | 39.0 |
| History of science                          | 7       | 4       | 4       | 7       | 7       | 6       | 10      | 43.8    | 38.5 |
| Linguistics                                 | 418     | 416     | 393     | 418     | 389     | 407     | 380     | 64.3    | 68.8 |
| Political science and public administration | 5,624   | 6,124   | 6,654   | 6,691   | 6,566   | 6,720   | 6,841   | 46.7    | 52.9 |
| Sociology                                   | 1,023   | 1,112   | 1,180   | 1,142   | 1,118   | 1,387   | 1,258   | 61.1    | 66.2 |
| Other                                       | 1,223   | 1,298   | 1,318   | 1,380   | 1,447   | 1,476   | 1,506   | 50.0    | 56.6 |
| Engineering                                 | 4,423   | 4,632   | 4,752   | 4,695   | 5,163   | 5,340   | 5,628   | 15.4    | 21.2 |
| Aerospace                                   | 100     | 99      | 92      | 75      | 81      | 76      | 90      | 9.6     | 14.7 |
| Chemical                                    | 279     | 306     | 306     | 332     | 344     | 344     | 352     | 21.7    | 25.7 |
| Civil                                       | 953     | 1,045   | 1,064   | 1,099   | 1,154   | 1,075   | 1,061   | 19.4    | 26.4 |
| Electrical                                  | 1,149   | 1,204   | 1,196   | 1,144   | 1,376   | 1,558   | 1,673   | 13.0    | 19.4 |
| Mechanical                                  | 417     | 450     | 454     | 419     | 461     | 455     | 448     | 9.7     | 12.9 |
| Materials                                   | 187     | 184     | 175     | 174     | 170     | 201     | 173     | 20.5    | 24.4 |
| Industrial                                  | 536     | 512     | 624     | 604     | 676     | 648     | 789     | 18.6    | 23.2 |
| Other                                       | 802     | 832     | 841     | 848     | 901     | 983     | 1,042   | 17.7    | 24.1 |
| Non-S&E                                     | 178,805 | 184,439 | 191,119 | 201,235 | 208,227 | 223,556 | 230,246 | 60.1    | 62.6 |

NOTE: Data not available for 1999.

SOURCE: National Science Foundation, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1994–2001.

TABLE E-3. Master's degrees, by field, citizenship, and race/ethnicity: 1994–2001

Page 1 of 3

| Field, citizenship, and race/ethnicity | 1994    | 1995    | 1996    | 1997    | 1998    | 2000    | 2001    |
|--|---------|---------|---------|---------|---------|---------|---------|
| All fields                             | 389,008 | 399,428 | 408,932 | 420,954 | 431,871 | 456,260 | 466,645 |
| S&E                                    | 86,080  | 94,309  | 95,313  | 93,485  | 93,918  | 95,683  | 98,986  |
| Sciences                               | 57,373  | 65,679  | 67,552  | 67,611  | 67,780  | 69,947  | 72,463  |
| Agricultural sciences                  | 3,435   | 3,574   | 4,021   | 3,927   | 3,862   | 3,858   | 3,752   |
| Biological sciences                    | 5,217   | 5,495   | 6,286   | 6,594   | 6,368   | 6,325   | 6,487   |
| Computer sciences                      | 10,421  | 10,563  | 10,613  | 10,489  | 11,752  | 14,529  | 16,341  |
| Mathematics and statistics             | 4,108   | 3,932   | 3,742   | 3,599   | 3,525   | 3,295   | 3,280   |
| Physical sciences                      | 5,688   | 5,724   | 5,851   | 5,576   | 5,395   | 4,857   | 5,100   |
| Psychology                             | 12,274  | 13,132  | 13,043  | 13,633  | 13,146  | 13,708  | 14,335  |
| Social sciences                        | 16,230  | 23,259  | 23,996  | 23,793  | 23,732  | 23,375  | 23,168  |
| Engineering                            | 28,707  | 28,630  | 27,761  | 25,874  | 26,138  | 25,736  | 26,523  |
| Non-S&E                                | 302,928 | 305,119 | 313,619 | 327,469 | 337,953 | 360,577 | 367,659 |
| U.S. citizen/permanent resident        |         |         |         |         |         |         |         |
| All fields                             | 342,502 | 350,672 | 360,682 | 371,477 | 379,666 | 400,689 | 405,455 |
| S&E                                    | 65,201  | 72,092  | 73,635  | 72,220  | 71,295  | 70,933  | 71,564  |
| Sciences                               | 45,851  | 53,161  | 54,870  | 54,982  | 54,318  | 55,020  | 56,042  |
| Agricultural sciences                  | 2,727   | 2,921   | 3,363   | 3,269   | 3,264   | 3,342   | 3,281   |
| Biological sciences                    | 4,284   | 4,610   | 5,295   | 5,671   | 5,468   | 5,575   | 5,614   |
| Computer sciences                      | 6,509   | 6,667   | 6,712   | 6,516   | 6,957   | 7,966   | 8,596   |
| Mathematics and statistics             | 3,013   | 2,816   | 2,712   | 2,606   | 2,499   | 2,184   | 2,050   |
| Physical sciences                      | 3,918   | 3,972   | 4,117   | 3,932   | 3,898   | 3,522   | 3,689   |
| Psychology                             | 11,913  | 12,659  | 12,619  | 13,231  | 12,686  | 13,241  | 13,871  |
| Social sciences                        | 13,487  | 19,516  | 20,052  | 19,757  | 19,546  | 19,190  | 18,941  |
| Engineering                            | 19,350  | 18,931  | 18,765  | 17,238  | 16,977  | 15,913  | 15,522  |
| Non-S&E                                | 277,301 | 278,580 | 287,047 | 299,257 | 308,371 | 329,756 | 333,891 |
| White                                  |         |         |         |         |         |         |         |
| All fields                             | 273,913 | 277,437 | 282,713 | 288,353 | 291,962 | 297,226 | 293,390 |
| S&E                                    | 50,711  | 54,610  | 55,349  | 53,769  | 52,328  | 49,850  | 48,792  |
| Sciences                               | 36,242  | 40,779  | 41,773  | 41,277  | 40,243  | 38,830  | 38,326  |
| Agricultural sciences                  | 2,261   | 2,447   | 2,918   | 2,809   | 2,827   | 2,864   | 2,782   |
| Biological sciences                    | 3,453   | 3,642   | 4,131   | 4,395   | 4,212   | 4,179   | 4,124   |
| Computer sciences                      | 4,286   | 4,354   | 4,353   | 4,105   | 4,277   | 4,435   | 4,541   |
| Mathematics and statistics             | 2,379   | 2,222   | 2,083   | 2,005   | 1,895   | 1,655   | 1,515   |
| Physical sciences                      | 3,145   | 3,171   | 3,324   | 3,172   | 3,129   | 2,810   | 2,917   |
| Psychology                             | 9,960   | 10,367  | 10,071  | 10,444  | 9,820   | 9,646   | 9,798   |
| Social sciences                        | 10,758  | 14,576  | 14,893  | 14,347  | 14,083  | 13,241  | 12,649  |
| Engineering                            | 14,469  | 13,831  | 13,576  | 12,492  | 12,085  | 11,020  | 10,466  |
| Non-S&E                                | 223,202 | 222,827 | 227,364 | 234,584 | 239,634 | 247,376 | 244,598 |
| Asian/Pacific Islander                 |         |         |         |         |         |         |         |
| All fields                             | 14,559  | 15,906  | 17,281  | 17,912  | 19,936  | 21,412  | 21,946  |
| S&E                                    | 5,422   | 5,989   | 6,328   | 6,180   | 6,554   | 6,990   | 7,045   |
| Sciences                               | 2,979   | 3,417   | 3,707   | 3,861   | 4,103   | 4,611   | 4,631   |
| Agricultural sciences                  | 82      | 97      | 110     | 103     | 83      | 94      | 97      |
| Biological sciences                    | 332     | 426     | 528     | 575     | 591     | 595     | 540     |
| Computer sciences                      | 1,228   | 1,266   | 1,283   | 1,322   | 1,579   | 2,028   | 2,053   |
| Mathematics and statistics             | 233     | 228     | 220     | 238     | 216     | 180     | 205     |
| Physical sciences                      | 284     | 288     | 304     | 308     | 278     | 262     | 248     |
| Psychology                             | 270     | 289     | 322     | 364     | 379     | 472     | 498     |
| Social sciences                        | 550     | 823     | 940     | 951     | 977     | 980     | 990     |
| Engineering                            | 2,443   | 2,572   | 2,621   | 2,319   | 2,451   | 2,379   | 2,414   |
| Non-S&E                                | 9,137   | 9,917   | 10,953  | 11,732  | 13,382  | 14,422  | 14,901  |
| Black                                  |         |         |         |         |         |         |         |
| All fields                             | 20,936  | 22,954  | 24,588  | 26,948  | 28,616  | 33,305  | 35,059  |
| S&E                                    | 2,849   | 4,210   | 4,420   | 4,870   | 4,894   | 5,492   | 6,117   |

TABLE E-3. Master's degrees, by field, citizenship, and race/ethnicity: 1994–2001

Page 2 of 3

| Field, citizenship, and race/ethnicity | 1994   | 1995   | 1996   | 1997   | 1998   | 2000   | 2001   |
|--|--------|--------|--------|--------|--------|--------|--------|
| Sciences                               | 2,260  | 3,545  | 3,746  | 4,196  | 4,180  | 4,834  | 5,417  |
| Agricultural sciences                  | 78     | 74     | 88     | 96     | 95     | 84     | 96     |
| Biological sciences                    | 142    | 163    | 199    | 236    | 190    | 223    | 313    |
| Computer sciences                      | 365    | 373    | 435    | 411    | 424    | 580    | 654    |
| Mathematics and statistics             | 109    | 140    | 145    | 154    | 142    | 98     | 113    |
| Physical sciences                      | 127    | 147    | 116    | 144    | 146    | 124    | 151    |
| Psychology                             | 636    | 802    | 870    | 1,059  | 1,020  | 1,346  | 1,598  |
| Social sciences                        | 803    | 1,846  | 1,893  | 2,096  | 2,163  | 2,379  | 2,492  |
| Engineering                            | 589    | 665    | 674    | 674    | 714    | 658    | 700    |
| Non-S&E                                | 18,087 | 18,744 | 20,168 | 22,078 | 23,722 | 27,813 | 28,942 |
| Hispanic                               |        |        |        |        |        |        |        |
| All fields                             | 13,177 | 13,905 | 15,394 | 16,360 | 17,416 | 20,803 | 22,163 |
| S&E                                    | 2,514  | 2,945  | 3,090  | 3,220  | 3,462  | 3,746  | 4,077  |
| Sciences                               | 1,795  | 2,234  | 2,342  | 2,455  | 2,655  | 2,894  | 3,239  |
| Agricultural sciences                  | 184    | 96     | 95     | 105    | 116    | 133    | 123    |
| Biological sciences                    | 138    | 167    | 194    | 214    | 192    | 268    | 310    |
| Computer sciences                      | 169    | 210    | 188    | 211    | 219    | 288    | 440    |
| Mathematics and statistics             | 75     | 72     | 88     | 63     | 85     | 100    | 72     |
| Physical sciences                      | 114    | 129    | 127    | 139    | 149    | 126    | 147    |
| Psychology                             | 558    | 622    | 667    | 718    | 787    | 837    | 937    |
| Social sciences                        | 557    | 938    | 983    | 1,005  | 1,107  | 1,142  | 1,210  |
| Engineering                            | 719    | 711    | 748    | 765    | 807    | 852    | 838    |
| Non-S&E                                | 10,663 | 10,960 | 12,304 | 13,140 | 13,954 | 17,057 | 18,086 |
| American Indian/Alaskan Native         |        |        |        |        |        |        |        |
| All fields                             | 1,618  | 1,542  | 1,693  | 1,844  | 1,951  | 2,099  | 2,274  |
| S&E                                    | 273    | 307    | 321    | 370    | 372    | 383    | 472    |
| Sciences                               | 213    | 264    | 265    | 317    | 318    | 319    | 412    |
| Agricultural sciences                  | 11     | 13     | 14     | 18     | 23     | 23     | 18     |
| Biological sciences                    | 17     | 20     | 17     | 25     | 21     | 26     | 29     |
| Computer sciences                      | 18     | 16     | 26     | 25     | 15     | 32     | 68     |
| Mathematics and statistics             | 6      | 11     | 5      | 14     | 9      | 9      | 9      |
| Physical sciences                      | 16     | 19     | 10     | 16     | 24     | 18     | 20     |
| Psychology                             | 62     | 81     | 78     | 97     | 108    | 69     | 106    |
| Social sciences                        | 83     | 104    | 115    | 122    | 118    | 142    | 162    |
| Engineering                            | 60     | 43     | 56     | 53     | 54     | 64     | 60     |
| Non-S&E                                | 1,345  | 1,235  | 1,372  | 1,474  | 1,579  | 1,716  | 1,802  |
| Other or unknown race/ethnicity        |        |        |        |        |        |        |        |
| All fields                             | 18,299 | 18,928 | 19,013 | 20,060 | 19,785 | 25,844 | 30,623 |
| S&E                                    | 3,432  | 4,031  | 4,127  | 3,811  | 3,685  | 4,472  | 5,061  |
| Sciences                               | 2,362  | 2,922  | 3,037  | 2,876  | 2,819  | 3,532  | 4,017  |
| Agricultural sciences                  | 111    | 194    | 138    | 138    | 120    | 144    | 165    |
| Biological sciences                    | 202    | 192    | 226    | 226    | 262    | 284    | 298    |
| Computer sciences                      | 443    | 448    | 427    | 442    | 443    | 603    | 840    |
| Mathematics and statistics             | 211    | 143    | 171    | 132    | 152    | 142    | 136    |
| Physical sciences                      | 232    | 218    | 236    | 153    | 172    | 182    | 206    |
| Psychology                             | 427    | 498    | 611    | 549    | 572    | 871    | 934    |
| Social sciences                        | 736    | 1,229  | 1,228  | 1,236  | 1,098  | 1,306  | 1,438  |
| Engineering                            | 1,070  | 1,109  | 1,090  | 935    | 866    | 940    | 1,044  |
| Non-S&E                                | 14,867 | 14,897 | 14,886 | 16,249 | 16,100 | 21,372 | 25,562 |
| Temporary resident                     |        |        |        |        |        |        |        |
| All fields                             | 46,506 | 48,756 | 48,250 | 49,477 | 52,205 | 55,571 | 61,190 |
| S&E                                    | 20,879 | 22,217 | 21,678 | 21,265 | 22,623 | 24,750 | 27,422 |
| Sciences                               | 11,522 | 12,518 | 12,682 | 12,629 | 13,462 | 14,927 | 18,422 |
| Agricultural sciences                  | 708    | 653    | 658    | 658    | 598    | 516    | 471    |
| Biological sciences                    | 933    | 885    | 991    | 923    | 900    | 750    | 873    |
| Computer sciences                      | 3,912  | 3,896  | 3,901  | 3,973  | 4,795  | 6,563  | 7,745  |



TABLE E-3. Master's degrees, by field, citizenship, and race/ethnicity: 1994–2001

Page 3 of 3

| Field, citizenship, and race/ethnicity | 1994   | 1995   | 1996   | 1997   | 1998   | 2000   | 2001   |
|--|--------|--------|--------|--------|--------|--------|--------|
| Mathematics and statistics             | 1,095  | 1,116  | 1,030  | 993    | 1,026  | 1,111  | 1,230  |
| Physical sciences                      | 1,770  | 1,752  | 1,734  | 1,644  | 1,497  | 1,335  | 1,411  |
| Psychology                             | 361    | 473    | 424    | 402    | 460    | 467    | 464    |
| Social sciences                        | 2,743  | 3,743  | 3,944  | 4,036  | 4,186  | 4,185  | 4,227  |
| Engineering                            | 9,357  | 9,699  | 8,996  | 8,636  | 9,161  | 9,823  | 11,001 |
| Non-S&E                                | 25,627 | 26,539 | 26,572 | 28,212 | 29,582 | 30,821 | 33,768 |

NOTES: Physical sciences includes earth, atmospheric, and ocean sciences; physics; astronomy; and chemistry. Data on race/ethnicity were collected on broad fields of study only until 1994; therefore, 1994 data could not be adjusted to the exact field taxonomies used by the National Science Foundation (NSF). The primary difference between 1994 and later years is that history was included in social sciences in 1994 but is included in non-S&E from 1995 on. Temporary resident includes all racial/ethnic groups. Data are not available for 1999.

SOURCE: NSF, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1994–2001.

TABLE E-4. Racial/ethnic distribution of S&amp;E master's degrees awarded to U.S. citizens and permanent residents, by field: 1994–2001

| (Percent)                     |      |      |      |      |      |      | Page 1 of 2 |
|-------------------------------|------|------|------|------|------|------|-------------|
| Race/ethnicity and field      | 1994 | 1995 | 1996 | 1997 | 1998 | 2000 | 2001        |
| <b>White</b>                  |      |      |      |      |      |      |             |
| All fields                    | 80.0 | 79.1 | 78.4 | 77.6 | 76.9 | 74.2 | 71.8        |
| S&E                           | 77.8 | 75.8 | 75.2 | 74.5 | 73.4 | 70.3 | 68.2        |
| Sciences                      | 79.0 | 76.7 | 76.1 | 75.1 | 74.1 | 70.6 | 68.4        |
| Agricultural sciences         | 82.9 | 83.8 | 86.8 | 85.9 | 86.6 | 85.7 | 84.8        |
| Biological sciences           | 80.6 | 79.0 | 78.0 | 77.5 | 77.0 | 75.0 | 73.5        |
| Computer sciences             | 65.8 | 65.3 | 64.9 | 63.0 | 61.5 | 55.7 | 52.9        |
| Mathematics and statistics    | 79.0 | 78.9 | 76.8 | 76.9 | 75.8 | 75.8 | 73.9        |
| Physical sciences             | 80.3 | 79.8 | 80.7 | 80.7 | 80.3 | 79.8 | 79.1        |
| Psychology                    | 83.6 | 81.9 | 79.8 | 78.9 | 77.4 | 72.8 | 70.6        |
| Social sciences               | 79.8 | 74.7 | 74.3 | 72.6 | 72.1 | 69.0 | 66.8        |
| Engineering                   | 74.8 | 73.1 | 72.3 | 72.5 | 71.2 | 69.3 | 67.4        |
| Non-S&E                       | 80.5 | 80.0 | 79.2 | 78.4 | 77.7 | 75.0 | 72.7        |
| <b>Asian/Pacific Islander</b> |      |      |      |      |      |      |             |
| All fields                    | 4.3  | 4.5  | 4.8  | 4.8  | 5.3  | 5.3  | 5.5         |
| S&E                           | 8.3  | 8.3  | 8.6  | 8.6  | 9.2  | 9.9  | 9.8         |
| Sciences                      | 6.5  | 6.4  | 6.8  | 7.0  | 7.6  | 8.4  | 8.3         |
| Agricultural sciences         | 3.0  | 3.3  | 3.3  | 3.2  | 2.5  | 2.8  | 3.0         |
| Biological sciences           | 7.7  | 9.2  | 10.0 | 10.1 | 10.8 | 10.7 | 9.6         |
| Computer sciences             | 18.9 | 19.0 | 19.1 | 20.3 | 22.7 | 25.5 | 23.8        |
| Mathematics and statistics    | 7.7  | 8.1  | 8.1  | 9.1  | 8.6  | 8.2  | 10.1        |
| Physical sciences             | 7.2  | 7.3  | 7.4  | 7.8  | 7.1  | 7.4  | 6.7         |
| Psychology                    | 2.3  | 2.3  | 2.6  | 2.8  | 3.0  | 3.6  | 3.6         |
| Social sciences               | 4.1  | 4.2  | 4.7  | 4.8  | 5.0  | 5.1  | 5.2         |
| Engineering                   | 12.6 | 13.6 | 14.0 | 13.5 | 14.4 | 15.0 | 15.6        |
| Non-S&E                       | 3.3  | 3.6  | 3.8  | 3.9  | 4.3  | 4.4  | 4.5         |
| <b>Black</b>                  |      |      |      |      |      |      |             |
| All fields                    | 6.1  | 6.5  | 6.8  | 7.3  | 7.5  | 8.3  | 8.9         |
| S&E                           | 4.4  | 5.8  | 6.0  | 6.7  | 6.9  | 7.7  | 8.5         |
| Sciences                      | 4.9  | 6.7  | 6.8  | 7.6  | 7.7  | 8.8  | 9.7         |
| Agricultural sciences         | 2.9  | 2.5  | 2.6  | 2.9  | 2.9  | 2.5  | 2.9         |
| Biological sciences           | 3.3  | 3.5  | 3.8  | 4.2  | 3.5  | 4.0  | 5.6         |
| Computer sciences             | 5.6  | 5.6  | 6.5  | 6.3  | 6.1  | 7.3  | 7.6         |
| Mathematics and statistics    | 3.6  | 5.0  | 5.3  | 5.9  | 5.7  | 4.5  | 5.5         |
| Physical sciences             | 3.2  | 3.7  | 2.8  | 3.7  | 3.7  | 3.5  | 4.1         |
| Psychology                    | 5.3  | 6.3  | 6.9  | 8.0  | 8.0  | 10.2 | 11.5        |
| Social sciences               | 6.0  | 9.5  | 9.4  | 10.6 | 11.1 | 12.4 | 13.2        |
| Engineering                   | 3.0  | 3.5  | 3.6  | 3.9  | 4.2  | 4.1  | 4.5         |
| Non-S&E                       | 6.5  | 6.7  | 7.0  | 7.4  | 7.7  | 8.4  | 9.0         |
| <b>Hispanic</b>               |      |      |      |      |      |      |             |
| All fields                    | 3.8  | 4.0  | 4.3  | 4.4  | 4.6  | 5.2  | 5.7         |
| S&E                           | 3.9  | 4.1  | 4.2  | 4.5  | 4.9  | 5.3  | 5.7         |
| Sciences                      | 3.9  | 4.2  | 4.3  | 4.5  | 4.9  | 5.3  | 5.8         |
| Agricultural sciences         | 6.7  | 3.3  | 2.8  | 3.2  | 3.6  | 4.0  | 3.7         |
| Biological sciences           | 3.2  | 3.6  | 3.7  | 3.8  | 3.5  | 4.8  | 5.5         |
| Computer sciences             | 2.6  | 3.1  | 2.8  | 3.2  | 3.1  | 3.6  | 5.1         |
| Mathematics and statistics    | 2.5  | 2.6  | 3.2  | 2.4  | 3.4  | 4.6  | 3.5         |
| Physical sciences             | 2.9  | 3.2  | 3.1  | 3.5  | 3.8  | 3.6  | 4.0         |
| Psychology                    | 4.7  | 4.9  | 5.3  | 5.4  | 6.2  | 6.3  | 6.8         |
| Social sciences               | 4.1  | 4.8  | 4.9  | 5.1  | 5.7  | 6.0  | 6.4         |
| Engineering                   | 3.7  | 3.8  | 4.0  | 4.4  | 4.8  | 5.4  | 5.4         |
| Non-S&E                       | 3.8  | 3.9  | 4.3  | 4.4  | 4.5  | 5.2  | 5.7         |

Table E-4. Racial/ethnic distribution of S&amp;E master's degree awarded to U.S. citizens and permanent residents, by field: 1994–2001

(Percent) Page 2 of 2

| Race/ethnicity and field               | 1994 | 1995 | 1996 | 1997 | 1998 | 2000 | 2001 |
|--|------|------|------|------|------|------|------|
| <b>American Indian/Alaskan Native</b>  |      |      |      |      |      |      |      |
| All fields                             | 0.5  | 0.4  | 0.5  | 0.5  | 0.5  | 0.5  | 0.6  |
| S&E                                    | 0.4  | 0.4  | 0.4  | 0.5  | 0.5  | 0.5  | 0.7  |
| Sciences                               | 0.5  | 0.5  | 0.5  | 0.6  | 0.6  | 0.6  | 0.7  |
| Agricultural sciences                  | 0.4  | 0.4  | 0.4  | 0.6  | 0.7  | 0.7  | 0.5  |
| Biological sciences                    | 0.4  | 0.4  | 0.3  | 0.4  | 0.4  | 0.5  | 0.5  |
| Computer sciences                      | 0.3  | 0.2  | 0.4  | 0.4  | 0.2  | 0.4  | 0.8  |
| Mathematics and statistics             | 0.2  | 0.4  | 0.2  | 0.5  | 0.4  | 0.4  | 0.4  |
| Physical sciences                      | 0.4  | 0.5  | 0.2  | 0.4  | 0.6  | 0.5  | 0.5  |
| Psychology                             | 0.5  | 0.6  | 0.6  | 0.7  | 0.9  | 0.5  | 0.8  |
| Social sciences                        | 0.6  | 0.5  | 0.6  | 0.6  | 0.6  | 0.7  | 0.9  |
| Engineering                            | 0.3  | 0.2  | 0.3  | 0.3  | 0.3  | 0.4  | 0.4  |
| Non-S&E                                | 0.5  | 0.4  | 0.5  | 0.5  | 0.5  | 0.5  | 0.6  |
| <b>Other or unknown race/ethnicity</b> |      |      |      |      |      |      |      |
| All fields                             | 5.3  | 5.4  | 5.3  | 5.4  | 5.2  | 6.4  | 7.4  |
| S&E                                    | 5.3  | 5.6  | 5.6  | 5.3  | 5.2  | 6.3  | 7.1  |
| Sciences                               | 5.2  | 5.5  | 5.5  | 5.2  | 5.2  | 6.4  | 7.2  |
| Agricultural sciences                  | 4.1  | 6.6  | 4.1  | 4.2  | 3.7  | 4.3  | 5.0  |
| Biological sciences                    | 4.7  | 4.2  | 4.3  | 4.0  | 4.8  | 5.1  | 5.3  |
| Computer sciences                      | 6.8  | 6.7  | 6.4  | 6.8  | 6.4  | 7.6  | 9.8  |
| Mathematics and statistics             | 7.0  | 5.1  | 6.3  | 5.1  | 6.1  | 6.5  | 6.7  |
| Physical sciences                      | 5.9  | 5.5  | 5.7  | 3.9  | 4.4  | 5.2  | 5.6  |
| Psychology                             | 3.6  | 3.9  | 4.8  | 4.1  | 4.5  | 6.6  | 6.7  |
| Social sciences                        | 5.5  | 6.3  | 6.1  | 6.3  | 5.6  | 6.8  | 7.6  |
| Engineering                            | 5.5  | 5.9  | 5.8  | 5.4  | 5.1  | 5.9  | 6.7  |
| Non-S&E                                | 5.4  | 5.3  | 5.2  | 5.4  | 5.2  | 6.5  | 7.5  |

NOTES: Physical sciences include earth, atmospheric, and ocean sciences; physics: astronomy; and chemistry. Data on race/ethnicity were collected on broad fields of study only until 1994; therefore, 1994 data could not be adjusted to the exact field taxonomies used by the National Science Foundation (NSF). The primary difference between 1994 and later years is that history was included in social sciences in 1994 but is included in non-S&E from 1995 on. Data are not available for 1999.

SOURCE: NSF, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1994–2001.

TABLE E-5. Master's degrees awarded to females, by field, citizenship, and race/ethnicity: 1994–2001

Page 1 of 3

| Field, citizenship, and race/ethnicity | 1994    | 1995    | 1996    | 1997    | 1998    | 2000    | 2001    | 1994 2001 |         |
|--|---------|---------|---------|---------|---------|---------|---------|-----------|---------|
|  |         |         |         |         |         |         |         | Number    | Percent |
| All fields                             | 212,246 | 220,230 | 228,572 | 239,497 | 246,810 | 265,026 | 273,639 | 54.6      | 58.6    |
| S&E                                    | 30,619  | 35,791  | 37,453  | 38,262  | 38,583  | 41,470  | 43,393  | 35.6      | 43.8    |
| Sciences                               | 26,198  | 31,159  | 32,701  | 33,567  | 33,420  | 36,130  | 37,765  | 45.7      | 52.1    |
| Agricultural sciences                  | 1,395   | 1,471   | 1,707   | 1,695   | 1,709   | 1,819   | 1,837   | 40.6      | 49.0    |
| Biology sciences                       | 2,742   | 2,858   | 3,341   | 3,518   | 3,354   | 3,510   | 3,755   | 52.6      | 57.9    |
| Computer sciences                      | 2,694   | 2,786   | 2,850   | 2,979   | 3,414   | 4,868   | 5,508   | 25.9      | 33.7    |
| Mathematics/statistics                 | 1,567   | 1,579   | 1,506   | 1,489   | 1,470   | 1,498   | 1,389   | 38.1      | 42.3    |
| Physical sciences                      | 1,658   | 1,734   | 1,886   | 1,820   | 1,934   | 1,728   | 1,865   | 29.1      | 36.6    |
| Psychology                             | 8,857   | 9,397   | 9,373   | 9,918   | 9,540   | 10,293  | 10,858  | 72.2      | 75.7    |
| Social sciences                        | 7,285   | 11,334  | 12,038  | 12,148  | 11,999  | 12,414  | 12,553  | 44.9      | 54.2    |
| Engineering                            | 4,421   | 4,632   | 4,752   | 4,695   | 5,163   | 5,340   | 5,628   | 15.4      | 21.2    |
| Non-S&E                                | 181,627 | 184,439 | 191,119 | 201,235 | 208,227 | 223,556 | 230,246 | 60.0      | 62.6    |
| U.S. citizen/permanent resident        |         |         |         |         |         |         |         |           |         |
| All fields                             | 195,881 | 202,633 | 210,372 | 220,221 | 226,085 | 242,244 | 248,590 | 57.2      | 61.3    |
| S&E                                    | 25,501  | 30,119  | 31,300  | 31,983  | 31,669  | 33,169  | 34,334  | 39.1      | 48.0    |
| Sciences                               | 22,291  | 26,822  | 27,940  | 28,737  | 28,229  | 29,856  | 30,961  | 48.6      | 55.2    |
| Agricultural sciences                  | 1,131   | 1,239   | 1,447   | 1,448   | 1,466   | 1,601   | 1,611   | 41.5      | 49.1    |
| Biological sciences                    | 2,271   | 2,426   | 2,810   | 3,010   | 2,850   | 3,051   | 3,248   | 53.0      | 57.9    |
| Computer sciences                      | 1,730   | 1,807   | 1,853   | 1,867   | 2,020   | 2,546   | 2,774   | 26.6      | 32.3    |
| Mathematics/statistics                 | 1,210   | 1,205   | 1,147   | 1,142   | 1,100   | 1,011   | 888     | 40.2      | 43.3    |
| Physical sciences                      | 1,124   | 1,202   | 1,338   | 1,315   | 1,415   | 1,288   | 1,388   | 28.7      | 37.6    |
| Psychology                             | 8,626   | 9,069   | 9,070   | 9,641   | 9,193   | 9,947   | 10,521  | 72.4      | 75.8    |
| Social sciences                        | 6,199   | 9,874   | 10,275  | 10,314  | 10,185  | 10,412  | 10,531  | 46.0      | 55.6    |
| Engineering                            | 3,210   | 3,297   | 3,360   | 3,246   | 3,440   | 3,313   | 3,373   | 16.6      | 21.7    |
| Non-S&E                                | 170,380 | 172,514 | 179,072 | 188,238 | 194,416 | 209,075 | 214,256 | 61.4      | 64.2    |
| White                                  |         |         |         |         |         |         |         |           |         |
| All fields                             | 157,155 | 160,782 | 165,154 | 170,411 | 173,498 | 179,311 | 179,684 | 57.4      | 61.2    |
| S&E                                    | 19,865  | 22,680  | 23,175  | 23,213  | 22,717  | 22,749  | 22,792  | 39.2      | 46.7    |
| Sciences                               | 17,628  | 20,440  | 20,985  | 21,108  | 20,496  | 20,712  | 20,751  | 48.6      | 54.1    |
| Agricultural sciences                  | 921     | 1,017   | 1,238   | 1,211   | 1,251   | 1,350   | 1,328   | 40.7      | 47.7    |
| Biological sciences                    | 1,810   | 1,889   | 2,165   | 2,275   | 2,196   | 2,278   | 2,381   | 52.4      | 57.7    |
| Computer sciences                      | 977     | 1,033   | 1,015   | 965     | 1,027   | 1,162   | 1,163   | 22.8      | 25.6    |
| Mathematics/statistics                 | 959     | 942     | 864     | 860     | 815     | 753     | 652     | 40.3      | 43.0    |
| Physical sciences                      | 893     | 923     | 1,038   | 1,001   | 1,085   | 1,007   | 1,067   | 28.4      | 36.6    |
| Psychology                             | 7,190   | 7,405   | 7,181   | 7,557   | 7,049   | 7,240   | 7,343   | 72.2      | 74.9    |
| Social sciences                        | 4,878   | 7,231   | 7,484   | 7,239   | 7,073   | 6,922   | 6,817   | 45.3      | 53.9    |
| Engineering                            | 2,237   | 2,240   | 2,190   | 2,105   | 2,221   | 2,037   | 2,041   | 15.5      | 19.5    |
| Non-S&E                                | 137,290 | 138,102 | 141,979 | 147,198 | 150,781 | 156,562 | 156,892 | 61.5      | 64.1    |
| Asian/Pacific Islander                 |         |         |         |         |         |         |         |           |         |
| All fields                             | 6,768   | 7,521   | 8,404   | 9,327   | 10,298  | 11,307  | 11,802  | 46.5      | 53.8    |
| S&E                                    | 1,861   | 2,115   | 2,428   | 2,575   | 2,678   | 3,045   | 3,033   | 34.3      | 43.1    |
| Sciences                               | 1,350   | 1,566   | 1,807   | 2,014   | 2,050   | 2,385   | 2,406   | 45.3      | 52.0    |
| Agricultural sciences                  | 47      | 53      | 61      | 72      | 40      | 58      | 63      | 57.3      | 64.9    |
| Biological sciences                    | 181     | 210     | 286     | 324     | 294     | 304     | 305     | 54.5      | 56.5    |
| Computer sciences                      | 443     | 460     | 473     | 530     | 629     | 860     | 860     | 36.1      | 41.9    |
| Mathematics/statistics                 | 107     | 104     | 101     | 116     | 105     | 94      | 104     | 45.9      | 50.7    |
| Physical sciences                      | 102     | 101     | 136     | 140     | 128     | 108     | 106     | 35.9      | 42.7    |
| Psychology                             | 196     | 213     | 244     | 279     | 289     | 365     | 372     | 72.6      | 74.7    |
| Social sciences                        | 274     | 425     | 506     | 553     | 565     | 596     | 596     | 49.8      | 60.2    |
| Engineering                            | 511     | 549     | 621     | 561     | 628     | 660     | 627     | 20.9      | 26.0    |
| Non-S&E                                | 4,907   | 5,406   | 5,976   | 6,752   | 7,620   | 8,262   | 8,769   | 53.7      | 58.8    |
| Black                                  |         |         |         |         |         |         |         |           |         |
| All fields                             | 13,929  | 15,318  | 16,590  | 18,504  | 19,509  | 22,996  | 24,658  | 66.5      | 70.3    |
| S&E                                    | 1,473   | 2,319   | 2,520   | 2,887   | 2,828   | 3,294   | 3,855   | 51.7      | 63.0    |

TABLE E-5. Master's degrees awarded to females, by field, citizenship, and race/ethnicity: 1994–2001

Page 2 of 3

| Field, citizenship, and race/ethnicity | 1994   | 1995   | 1996   | 1997   | 1998   | 2000   | 2001   | 1994    | 2001 |
|--|--------|--------|--------|--------|--------|--------|--------|---------|------|
|  | Number |        |        |        |        |        |        | Percent |      |
| Sciences                               | 1,306  | 2,118  | 2,310  | 2,662  | 2,584  | 3,087  | 3,609  | 57.8    | 66.6 |
| Agricultural sciences                  | 32     | 39     | 39     | 40     | 59     | 47     | 51     | 41.0    | 53.1 |
| Biological sciences                    | 94     | 113    | 122    | 167    | 122    | 150    | 221    | 66.2    | 70.6 |
| Computer sciences                      | 160    | 159    | 201    | 182    | 162    | 255    | 309    | 43.8    | 47.2 |
| Mathematics/statistics                 | 47     | 82     | 71     | 79     | 77     | 52     | 48     | 43.1    | 42.5 |
| Physical sciences                      | 53     | 61     | 57     | 70     | 65     | 59     | 69     | 41.7    | 45.7 |
| Psychology                             | 475    | 598    | 647    | 814    | 766    | 1,035  | 1,297  | 74.7    | 81.2 |
| Social sciences                        | 445    | 1,066  | 1,173  | 1,310  | 1,333  | 1,489  | 1,614  | 55.4    | 64.8 |
| Engineering                            | 167    | 201    | 210    | 225    | 244    | 207    | 246    | 28.4    | 35.1 |
| Non-S&E                                | 12,456 | 12,999 | 14,070 | 15,617 | 16,681 | 19,702 | 20,803 | 68.9    | 71.9 |
| Hispanic                               |        |        |        |        |        |        |        |         |      |
| All fields                             | 7,694  | 8,180  | 9,322  | 9,894  | 10,568 | 12,799 | 13,925 | 58.4    | 62.8 |
| S&E                                    | 1,087  | 1,333  | 1,426  | 1,502  | 1,667  | 1,836  | 2,119  | 43.2    | 52.0 |
| Sciences                               | 950    | 1,200  | 1,258  | 1,326  | 1,489  | 1,635  | 1,898  | 52.9    | 58.6 |
| Agricultural sciences                  | 79     | 40     | 40     | 54     | 58     | 74     | 74     | 42.9    | 60.2 |
| Biological sciences                    | 73     | 92     | 109    | 104    | 95     | 146    | 168    | 52.9    | 54.2 |
| Computer sciences                      | 49     | 51     | 51     | 59     | 77     | 89     | 156    | 29.0    | 35.5 |
| Mathematics/statistics                 | 31     | 22     | 33     | 17     | 39     | 41     | 32     | 41.3    | 44.4 |
| Physical sciences                      | 34     | 41     | 47     | 53     | 62     | 49     | 57     | 29.8    | 38.8 |
| Psychology                             | 417    | 454    | 495    | 518    | 578    | 607    | 701    | 74.7    | 74.8 |
| Social sciences                        | 267    | 500    | 483    | 521    | 580    | 629    | 710    | 47.9    | 58.7 |
| Engineering                            | 137    | 133    | 168    | 176    | 178    | 201    | 221    | 19.1    | 26.4 |
| Non-S&E                                | 6,607  | 6,847  | 7,896  | 8,392  | 8,901  | 10,963 | 11,806 | 62.0    | 65.3 |
| American Indian/Alaskan Native         |        |        |        |        |        |        |        |         |      |
| All fields                             | 964    | 919    | 1,028  | 1,147  | 1,212  | 1,321  | 1,446  | 59.6    | 63.6 |
| S&E                                    | 112    | 150    | 154    | 174    | 190    | 190    | 255    | 41.0    | 54.0 |
| Sciences                               | 100    | 147    | 149    | 167    | 182    | 174    | 238    | 46.9    | 57.8 |
| Agricultural sciences                  | 3      | 3      | 8      | 8      | 8      | 5      | 7      | 27.3    | 38.9 |
| Biological sciences                    | 5      | 9      | 8      | 14     | 12     | 12     | 14     | 29.4    | 48.3 |
| Computer sciences                      | 6      | 5      | 7      | 9      | 3      | 10     | 29     | 33.3    | 42.6 |
| Mathematics/statistics                 | 1      | 6      | 1      | 6      | 6      | 4      | 3      | 16.7    | 33.3 |
| Physical sciences                      | 3      | 8      | 4      | 5      | 11     | 5      | 11     | 18.8    | 55.0 |
| Psychology                             | 43     | 51     | 56     | 63     | 76     | 54     | 77     | 69.4    | 72.6 |
| Social sciences                        | 39     | 65     | 65     | 62     | 66     | 84     | 97     | 47.0    | 59.9 |
| Engineering                            | 12     | 3      | 5      | 7      | 8      | 16     | 17     | 20.0    | 28.3 |
| Non-S&E                                | 852    | 769    | 874    | 973    | 1,022  | 1,131  | 1,191  | 63.3    | 66.1 |
| Other or unknown race/ethnicity        |        |        |        |        |        |        |        |         |      |
| All fields                             | 9,371  | 9,913  | 9,874  | 10,938 | 11,000 | 14,510 | 17,075 | 51.2    | 55.8 |
| S&E                                    | 1,103  | 1,522  | 1,597  | 1,632  | 1,589  | 2,055  | 2,280  | 32.1    | 45.1 |
| Sciences                               | 957    | 1,351  | 1,431  | 1,460  | 1,428  | 1,863  | 2,059  | 40.5    | 51.3 |
| Agricultural sciences                  | 49     | 87     | 61     | 63     | 50     | 67     | 88     | 44.1    | 53.3 |
| Biological sciences                    | 108    | 113    | 120    | 126    | 131    | 161    | 159    | 53.5    | 53.4 |
| Computer sciences                      | 95     | 99     | 106    | 122    | 122    | 170    | 257    | 21.4    | 30.6 |
| Mathematics/statistics                 | 65     | 49     | 77     | 64     | 58     | 67     | 49     | 30.8    | 36.0 |
| Physical sciences                      | 39     | 68     | 56     | 46     | 64     | 60     | 78     | 16.8    | 37.9 |
| Psychology                             | 305    | 348    | 447    | 410    | 435    | 646    | 731    | 71.4    | 78.3 |
| Social sciences                        | 296    | 587    | 564    | 629    | 568    | 692    | 697    | 40.2    | 48.5 |
| Engineering                            | 146    | 171    | 166    | 172    | 161    | 192    | 221    | 13.6    | 21.2 |
| Non-S&E                                | 8,268  | 8,391  | 8,277  | 9,306  | 9,411  | 12,455 | 14,795 | 55.6    | 57.9 |
| Temporary resident                     |        |        |        |        |        |        |        |         |      |
| All fields                             | 16,365 | 17,597 | 18,200 | 19,276 | 20,725 | 22,782 | 25,049 | 35.2    | 40.9 |
| S&E                                    | 5,118  | 5,672  | 6,153  | 6,279  | 6,914  | 8,301  | 9,059  | 24.5    | 33.0 |
| Sciences                               | 3,907  | 4,337  | 4,761  | 4,830  | 5,191  | 6,274  | 6,804  | 33.9    | 41.4 |

TABLE E-5. Master's degrees awarded to females, by field, citizenship, and race/ethnicity: 1994–2001

Page 3 of 3

| Field, citizenship, and race/ethnicity | 1994   | 1995   | 1996   | 1997   | 1998   | 2000   | 2001   | 1994    | 2001 |
|--|--------|--------|--------|--------|--------|--------|--------|---------|------|
|  | Number |        |        |        |        |        |        | Percent |      |
| Agricultural sciences                  | 264    | 232    | 260    | 247    | 243    | 218    | 226    | 37.3    | 48.0 |
| Biological sciences                    | 471    | 432    | 531    | 508    | 504    | 459    | 507    | 50.5    | 58.1 |
| Computer sciences                      | 964    | 979    | 997    | 1,112  | 1,394  | 2,322  | 2,734  | 24.6    | 35.3 |
| Mathematics/statistics                 | 357    | 374    | 359    | 347    | 370    | 487    | 501    | 32.6    | 40.7 |
| Physical sciences                      | 534    | 532    | 548    | 505    | 519    | 440    | 477    | 30.2    | 33.8 |
| Psychology                             | 231    | 328    | 303    | 277    | 347    | 346    | 337    | 64.0    | 72.6 |
| Social sciences                        | 1,086  | 1,460  | 1,763  | 1,834  | 1,814  | 2,002  | 2,022  | 39.6    | 47.8 |
| Engineering                            | 1,211  | 1,335  | 1,392  | 1,449  | 1,723  | 2,027  | 2,255  | 12.9    | 20.5 |
| Non-S&E                                | 11,247 | 11,925 | 12,047 | 12,997 | 13,811 | 14,481 | 15,990 | 43.9    | 47.4 |

NOTES: Physical sciences include earth, atmospheric, and ocean sciences; physics; astronomy; and chemistry. Data on race/ethnicity were collected on broad fields of study only until 1994; therefore, 1994 data could not be adjusted to exact field taxonomies used by the National Science Foundation (NSF). The primary difference between 1994 and later years is that history was included in social sciences in 1994 but is included in non-S&E from 1995 on. Racial/ethnic breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. Data are not available for 1999.

SOURCE: NSF, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1994–2001.

TABLE E-6. Master's degrees awarded to males, by field, citizenship, and race/ethnicity: 1994–2001

Page 1 of 3

| Field, citizenship, and race/ethnicity | 1994    | 1995    | 1996    | 1997    | 1998    | 2000    | 2001    |
|--|---------|---------|---------|---------|---------|---------|---------|
| All fields                             | 176,762 | 179,198 | 180,360 | 181,457 | 185,061 | 191,234 | 193,006 |
| S&E                                    | 55,461  | 58,518  | 57,860  | 55,223  | 55,335  | 54,213  | 55,593  |
| Sciences                               | 31,175  | 34,520  | 34,851  | 34,044  | 34,360  | 33,817  | 34,698  |
| Agricultural sciences                  | 2,040   | 2,103   | 2,314   | 2,232   | 2,153   | 2,039   | 1,915   |
| Biology sciences                       | 2,475   | 2,637   | 2,945   | 3,076   | 3,014   | 2,815   | 2,732   |
| Computer sciences                      | 7,727   | 7,777   | 7,763   | 7,510   | 8,338   | 9,661   | 10,833  |
| Mathematics/statistics                 | 2,541   | 2,353   | 2,236   | 2,110   | 2,055   | 1,797   | 1,891   |
| Physical sciences                      | 4,030   | 3,990   | 3,965   | 3,756   | 3,461   | 3,129   | 3,235   |
| Psychology                             | 3,417   | 3,735   | 3,670   | 3,715   | 3,606   | 3,415   | 3,477   |
| Social sciences                        | 8,945   | 11,925  | 11,958  | 11,645  | 11,733  | 10,961  | 10,615  |
| Engineering                            | 24,286  | 23,998  | 23,009  | 21,179  | 20,975  | 20,396  | 20,895  |
| Non-S&E                                | 121,301 | 120,680 | 122,500 | 126,234 | 129,726 | 137,021 | 137,413 |
| U.S. citizen/permanent resident        |         |         |         |         |         |         |         |
| All fields                             | 146,621 | 148,039 | 150,310 | 151,256 | 153,581 | 158,445 | 156,865 |
| S&E                                    | 39,700  | 41,973  | 42,335  | 40,237  | 39,626  | 37,764  | 37,230  |
| Sciences                               | 23,560  | 26,339  | 26,930  | 26,245  | 26,089  | 25,164  | 25,081  |
| Agricultural sciences                  | 1,596   | 1,682   | 1,916   | 1,821   | 1,798   | 1,741   | 1,670   |
| Biological sciences                    | 2,013   | 2,184   | 2,485   | 2,661   | 2,618   | 2,524   | 2,366   |
| Computer sciences                      | 4,779   | 4,860   | 4,859   | 4,649   | 4,937   | 5,420   | 5,822   |
| Mathematics/statistics                 | 1,803   | 1,611   | 1,565   | 1,464   | 1,399   | 1,173   | 1,162   |
| Physical sciences                      | 2,794   | 2,770   | 2,779   | 2,617   | 2,483   | 2,234   | 2,301   |
| Psychology                             | 3,287   | 3,590   | 3,549   | 3,590   | 3,493   | 3,294   | 3,350   |
| Social sciences                        | 7,288   | 9,642   | 9,777   | 9,443   | 9,361   | 8,778   | 8,410   |
| Engineering                            | 16,140  | 15,634  | 15,405  | 13,992  | 13,537  | 12,600  | 12,149  |
| Non-S&E                                | 106,921 | 106,066 | 107,975 | 111,019 | 113,955 | 120,681 | 119,635 |
| White                                  |         |         |         |         |         |         |         |
| All fields                             | 116,758 | 116,655 | 117,559 | 117,942 | 118,464 | 117,915 | 113,706 |
| S&E                                    | 30,846  | 31,930  | 32,174  | 30,556  | 29,611  | 27,101  | 26,000  |
| Sciences                               | 18,614  | 20,339  | 20,788  | 20,169  | 19,747  | 18,118  | 17,575  |
| Agricultural sciences                  | 1,340   | 1,430   | 1,680   | 1,598   | 1,576   | 1,514   | 1,454   |
| Biological sciences                    | 1,643   | 1,753   | 1,966   | 2,120   | 2,016   | 1,901   | 1,743   |
| Computer sciences                      | 3,309   | 3,321   | 3,338   | 3,140   | 3,250   | 3,273   | 3,378   |
| Mathematics/statistics                 | 1,420   | 1,280   | 1,219   | 1,145   | 1,080   | 902     | 863     |
| Physical sciences                      | 2,252   | 2,248   | 2,286   | 2,171   | 2,044   | 1,803   | 1,850   |
| Psychology                             | 2,770   | 2,962   | 2,890   | 2,887   | 2,771   | 2,406   | 2,455   |
| Social sciences                        | 5,880   | 7,345   | 7,409   | 7,108   | 7,010   | 6,319   | 5,832   |
| Engineering                            | 12,232  | 11,591  | 11,386  | 10,387  | 9,864   | 8,983   | 8,425   |
| Non-S&E                                | 85,912  | 84,725  | 85,385  | 87,386  | 88,853  | 90,814  | 87,706  |
| Asian/Pacific Islander                 |         |         |         |         |         |         |         |
| All fields                             | 7,791   | 8,385   | 8,877   | 8,585   | 9,638   | 10,105  | 10,144  |
| S&E                                    | 3,561   | 3,874   | 3,900   | 3,605   | 3,876   | 3,945   | 4,012   |
| Sciences                               | 1,629   | 1,851   | 1,900   | 1,847   | 2,053   | 2,226   | 2,225   |
| Agricultural sciences                  | 35      | 44      | 49      | 31      | 43      | 36      | 34      |
| Biological sciences                    | 151     | 216     | 242     | 251     | 297     | 291     | 235     |
| Computer sciences                      | 785     | 806     | 810     | 792     | 950     | 1,168   | 1,193   |
| Mathematics/statistics                 | 126     | 124     | 119     | 122     | 111     | 86      | 101     |
| Physical sciences                      | 182     | 187     | 168     | 168     | 150     | 154     | 142     |
| Psychology                             | 74      | 76      | 78      | 85      | 90      | 107     | 126     |
| Social sciences                        | 276     | 398     | 434     | 398     | 412     | 384     | 394     |
| Engineering                            | 1,932   | 2,023   | 2,000   | 1,758   | 1,823   | 1,719   | 1,787   |
| Non-S&E                                | 4,230   | 4,511   | 4,977   | 4,980   | 5,762   | 6,160   | 6,132   |
| Black                                  |         |         |         |         |         |         |         |
| All fields                             | 7,007   | 7,636   | 7,998   | 8,444   | 9,107   | 10,309  | 10,401  |
| S&E                                    | 1,376   | 1,891   | 1,900   | 1,983   | 2,066   | 2,198   | 2,262   |
| Sciences                               | 954     | 1,427   | 1,436   | 1,534   | 1,596   | 1,747   | 1,808   |

TABLE E-6. Master's degrees awarded to males, by field, citizenship, and race/ethnicity: 1994–2001

Page 2 of 3

| Field, citizenship, and race/ethnicity | 1994   | 1995   | 1996   | 1997   | 1998   | 2000   | 2001   |
|--|--------|--------|--------|--------|--------|--------|--------|
| Agricultural sciences                  | 46     | 35     | 49     | 56     | 36     | 37     | 45     |
| Biological sciences                    | 48     | 50     | 77     | 69     | 68     | 73     | 92     |
| Computer sciences                      | 205    | 214    | 234    | 229    | 262    | 325    | 345    |
| Mathematics/statistics                 | 62     | 58     | 74     | 75     | 65     | 46     | 65     |
| Physical sciences                      | 74     | 86     | 59     | 74     | 81     | 65     | 82     |
| Psychology                             | 161    | 204    | 223    | 245    | 254    | 311    | 301    |
| Social sciences                        | 358    | 780    | 720    | 786    | 830    | 890    | 878    |
| Engineering                            | 422    | 464    | 464    | 449    | 470    | 451    | 454    |
| Non-S&E                                | 5,631  | 5,745  | 6,098  | 6,461  | 7,041  | 8,111  | 8,139  |
| Hispanic                               |        |        |        |        |        |        |        |
| All fields                             | 5,483  | 5,725  | 6,072  | 6,466  | 6,848  | 8,004  | 8,238  |
| S&E                                    | 1,427  | 1,612  | 1,664  | 1,718  | 1,795  | 1,910  | 1,958  |
| Sciences                               | 845    | 1,034  | 1,084  | 1,129  | 1,166  | 1,259  | 1,341  |
| Agricultural sciences                  | 105    | 56     | 55     | 51     | 58     | 59     | 49     |
| Biological sciences                    | 65     | 75     | 85     | 110    | 97     | 122    | 142    |
| Computer sciences                      | 120    | 159    | 137    | 152    | 142    | 199    | 284    |
| Mathematics/statistics                 | 44     | 50     | 55     | 46     | 46     | 59     | 40     |
| Physical sciences                      | 80     | 88     | 80     | 86     | 87     | 77     | 90     |
| Psychology                             | 141    | 168    | 172    | 200    | 209    | 230    | 236    |
| Social sciences                        | 290    | 438    | 500    | 484    | 527    | 513    | 500    |
| Engineering                            | 582    | 578    | 580    | 589    | 629    | 651    | 617    |
| Non-S&E                                | 4,056  | 4,113  | 4,408  | 4,748  | 5,053  | 6,094  | 6,280  |
| American Indian/Alaskan Native         |        |        |        |        |        |        |        |
| All fields                             | 654    | 623    | 665    | 697    | 739    | 778    | 828    |
| S&E                                    | 161    | 157    | 167    | 196    | 182    | 193    | 217    |
| Sciences                               | 113    | 117    | 116    | 150    | 136    | 145    | 174    |
| Agricultural sciences                  | 8      | 10     | 6      | 10     | 15     | 18     | 11     |
| Biological sciences                    | 12     | 11     | 9      | 11     | 9      | 14     | 15     |
| Computer sciences                      | 12     | 11     | 19     | 16     | 12     | 22     | 39     |
| Mathematics/statistics                 | 5      | 5      | 4      | 8      | 3      | 5      | 6      |
| Physical sciences                      | 13     | 11     | 6      | 11     | 13     | 13     | 9      |
| Psychology                             | 19     | 30     | 22     | 34     | 32     | 15     | 29     |
| Social sciences                        | 44     | 39     | 50     | 60     | 52     | 58     | 65     |
| Engineering                            | 48     | 40     | 51     | 46     | 46     | 48     | 43     |
| Non-S&E                                | 493    | 466    | 498    | 501    | 557    | 585    | 611    |
| Other or unknown race/ethnicity        |        |        |        |        |        |        |        |
| All fields                             | 8,928  | 9,015  | 9,139  | 9,122  | 8,785  | 11,334 | 13,548 |
| S&E                                    | 2,329  | 2,509  | 2,530  | 2,179  | 2,096  | 2,417  | 2,781  |
| Sciences                               | 1,405  | 1,571  | 1,606  | 1,416  | 1,391  | 1,669  | 1,958  |
| Agricultural sciences                  | 62     | 107    | 77     | 75     | 70     | 77     | 77     |
| Biological sciences                    | 94     | 79     | 106    | 100    | 131    | 123    | 139    |
| Computer sciences                      | 348    | 349    | 321    | 320    | 321    | 433    | 583    |
| Mathematics/statistics                 | 146    | 94     | 94     | 68     | 94     | 75     | 87     |
| Physical sciences                      | 193    | 150    | 180    | 107    | 108    | 122    | 128    |
| Psychology                             | 122    | 150    | 164    | 139    | 137    | 225    | 203    |
| Social sciences                        | 440    | 642    | 664    | 607    | 530    | 614    | 741    |
| Engineering                            | 924    | 938    | 924    | 763    | 705    | 748    | 823    |
| Non-S&E                                | 6,599  | 6,506  | 6,609  | 6,943  | 6,689  | 8,917  | 10,767 |
| Temporary resident                     |        |        |        |        |        |        |        |
| All fields                             | 30,141 | 31,159 | 30,050 | 30,201 | 31,480 | 32,789 | 36,141 |
| S&E                                    | 15,761 | 16,545 | 15,525 | 14,986 | 15,709 | 16,449 | 18,363 |
| Sciences                               | 7,615  | 8,181  | 7,921  | 7,799  | 8,271  | 8,653  | 9,617  |
| Agricultural sciences                  | 444    | 421    | 398    | 411    | 355    | 298    | 245    |
| Biological sciences                    | 462    | 453    | 460    | 415    | 396    | 291    | 366    |
| Computer sciences                      | 2,948  | 2,917  | 2,904  | 2,861  | 3,401  | 4,241  | 5,011  |



TABLE E-6. Master's degrees awarded to males, by field, citizenship, and race/ethnicity: 1994–2001

Page 3 of 3

| Field, citizenship, and race/ethnicity | 1994   | 1995   | 1996   | 1997   | 1998   | 2000   | 2001   |
|--|--------|--------|--------|--------|--------|--------|--------|
| Mathematics/statistics                 | 738    | 742    | 671    | 646    | 656    | 624    | 729    |
| Physical sciences                      | 1,236  | 1,220  | 1,186  | 1,139  | 978    | 895    | 934    |
| Psychology                             | 130    | 145    | 121    | 125    | 113    | 121    | 127    |
| Social sciences                        | 1,657  | 2,283  | 2,181  | 2,202  | 2,372  | 2,183  | 2,205  |
| Engineering                            | 8,146  | 8,364  | 7,604  | 7,187  | 7,438  | 7,796  | 8,746  |
| Non-S&E                                | 14,380 | 14,614 | 14,525 | 15,215 | 15,771 | 16,340 | 17,778 |

NOTES: Physical sciences include earth, atmospheric, and ocean sciences; physics; astronomy; and chemistry. Data on race/ethnicity were collected on broad fields of study only until 1994; therefore, 1994 data could not be adjusted to the exact field taxonomies used by the National Science Foundation (NSF). The primary difference between 1994 and later years is that history was included in social sciences in 1994 but is included in non-S&E from 1995 on. Racial/ethnic breakouts are for U.S. citizens and permanent residents only. Temporary resident includes all racial/ethnic groups. Data are not available for 1999.

SOURCE: NSF, Division of Science Resources Statistics, special tabulations of U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey, 1994–2001.

TABLE F-1. S&amp;E doctoral degrees awarded, by field: 1994–2001

| Field                                       | 1994   | 1995   | 1996   | 1997   | 1998   | 1999   | 2000   | 2001   |
|---|--------|--------|--------|--------|--------|--------|--------|--------|
| All S&E fields                              | 26,205 | 26,536 | 27,243 | 27,242 | 27,283 | 25,940 | 25,951 | 25,509 |
| Sciences                                    | 20,383 | 20,528 | 20,934 | 21,124 | 21,356 | 20,608 | 20,631 | 20,007 |
| Agricultural sciences                       | 1,078  | 1,036  | 1,036  | 982    | 1,037  | 966    | 942    | 848    |
| Biological sciences                         | 5,203  | 5,375  | 5,724  | 5,789  | 5,846  | 5,583  | 5,849  | 5,678  |
| Computer sciences                           | 903    | 997    | 920    | 909    | 927    | 855    | 859    | 826    |
| Earth, atmospheric, and ocean sciences      | 824    | 780    | 794    | 878    | 814    | 805    | 757    | 749    |
| Atmospheric                                 | 129    | 130    | 125    | 149    | 125    | 124    | 143    | 116    |
| Earth                                       | 509    | 454    | 452    | 489    | 504    | 452    | 386    | 394    |
| Oceanography                                | 125    | 115    | 134    | 144    | 112    | 130    | 134    | 119    |
| Other geosciences                           | 61     | 81     | 83     | 96     | 73     | 99     | 94     | 120    |
| Mathematics and statistics                  | 1,118  | 1,190  | 1,122  | 1,123  | 1,177  | 1,083  | 1,049  | 1,006  |
| Physical sciences                           | 3,977  | 3,841  | 3,838  | 3,769  | 3,825  | 3,579  | 3,408  | 3,389  |
| Astronomy                                   | 144    | 173    | 192    | 198    | 207    | 159    | 185    | 186    |
| Chemistry                                   | 2,257  | 2,162  | 2,148  | 2,148  | 2,216  | 2,132  | 1,989  | 1,979  |
| Physics                                     | 1,548  | 1,479  | 1,485  | 1,401  | 1,378  | 1,271  | 1,205  | 1,193  |
| Other                                       | 28     | 27     | 13     | 22     | 24     | 17     | 29     | 31     |
| Psychology                                  | 3,379  | 3,430  | 3,497  | 3,562  | 3,676  | 3,673  | 3,618  | 3,433  |
| Social sciences                             | 3,901  | 3,879  | 4,003  | 4,112  | 4,054  | 4,064  | 4,149  | 4,078  |
| Anthropology                                | 418    | 410    | 418    | 469    | 459    | 489    | 482    | 448    |
| Area and ethnic studies                     | 122    | 121    | 143    | 94     | 114    | 109    | 127    | 144    |
| Economics                                   | 1,101  | 1,152  | 1,177  | 1,163  | 1,156  | 1,075  | 1,085  | 1,084  |
| History of science                          | 27     | 41     | 37     | 36     | 43     | 50     | 42     | 40     |
| Linguistics                                 | 221    | 201    | 230    | 244    | 220    | 251    | 229    | 229    |
| Political science and public administration | 930    | 895    | 928    | 975    | 959    | 1,016  | 986    | 982    |
| Sociology                                   | 548    | 555    | 528    | 601    | 579    | 572    | 633    | 577    |
| Other                                       | 534    | 504    | 542    | 530    | 524    | 502    | 565    | 574    |
| Engineering                                 | 5,822  | 6,008  | 6,309  | 6,118  | 5,927  | 5,332  | 5,320  | 5,502  |
| Aerospace                                   | 230    | 252    | 287    | 273    | 242    | 207    | 215    | 203    |
| Chemical                                    | 725    | 708    | 798    | 767    | 776    | 674    | 725    | 726    |
| Civil                                       | 684    | 656    | 698    | 656    | 650    | 584    | 555    | 593    |
| Electrical                                  | 1,673  | 1,731  | 1,741  | 1,721  | 1,596  | 1,478  | 1,542  | 1,577  |
| Mechanical                                  | 1,015  | 1,025  | 1,052  | 1,023  | 1,023  | 855    | 863    | 953    |
| Materials                                   | 539    | 588    | 574    | 582    | 565    | 469    | 451    | 499    |
| Industrial                                  | 228    | 284    | 259    | 246    | 229    | 212    | 176    | 205    |
| Other                                       | 728    | 764    | 900    | 850    | 846    | 853    | 793    | 746    |

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1994–2001.

TABLE F-2. S&amp;E doctoral degrees awarded to women, by field: 1994–2001

| Field                                       | 1994   | 1995  | 1996  | 1997  | 1998  | 1999  | 2000  | 2001  | 1994    | 2001 |
|---|--------|-------|-------|-------|-------|-------|-------|-------|---------|------|
|   | Number |       |       |       |       |       |       |       | Percent |      |
| All S&E fields                              | 7,921  | 8,287 | 8,651 | 8,936 | 9,347 | 9,086 | 9,384 | 9,303 | 30.2    | 36.5 |
| Sciences                                    | 7,286  | 7,591 | 7,874 | 8,186 | 8,573 | 8,297 | 8,547 | 8,378 | 35.7    | 41.9 |
| Agricultural sciences                       | 249    | 228   | 282   | 260   | 298   | 280   | 274   | 288   | 23.1    | 34.0 |
| Biological sciences                         | 2,109  | 2,217 | 2,415 | 2,495 | 2,536 | 2,394 | 2,618 | 2,545 | 40.5    | 44.8 |
| Computer sciences                           | 137    | 186   | 139   | 150   | 159   | 156   | 141   | 155   | 15.2    | 18.8 |
| Earth, atmospheric, and ocean sciences      | 183    | 170   | 172   | 209   | 219   | 210   | 230   | 236   | 22.2    | 31.5 |
| Atmospheric                                 | 26     | 23    | 22    | 25    | 30    | 22    | 33    | 28    | 20.2    | 24.1 |
| Earth                                       | 95     | 91    | 88    | 119   | 127   | 112   | 109   | 115   | 18.7    | 29.2 |
| Oceanography                                | 38     | 28    | 39    | 38    | 32    | 45    | 46    | 45    | 30.4    | 37.8 |
| Other                                       | 24     | 28    | 23    | 27    | 30    | 31    | 42    | 48    | 39.3    | 40.0 |
| Mathematics and statistics                  | 236    | 265   | 231   | 263   | 297   | 277   | 258   | 276   | 21.1    | 27.4 |
| Physical sciences                           | 828    | 878   | 842   | 852   | 926   | 831   | 835   | 834   | 20.8    | 24.6 |
| Astronomy                                   | 25     | 30    | 41    | 37    | 45    | 33    | 40    | 41    | 17.4    | 22.0 |
| Chemistry                                   | 625    | 661   | 605   | 613   | 695   | 632   | 624   | 628   | 27.7    | 31.7 |
| Physics                                     | 175    | 182   | 193   | 193   | 177   | 160   | 163   | 155   | 11.3    | 13.0 |
| Other                                       | 3      | 5     | 3     | 9     | 9     | 6     | 8     | 10    | 10.7    | 32.3 |
| Psychology                                  | 2,101  | 2,181 | 2,331 | 2,365 | 2,455 | 2,453 | 2,410 | 2,296 | 62.2    | 66.9 |
| Social sciences                             | 1,443  | 1,466 | 1,462 | 1,592 | 1,683 | 1,696 | 1,781 | 1,748 | 37.0    | 42.9 |
| Anthropology                                | 225    | 237   | 225   | 261   | 262   | 275   | 276   | 262   | 53.8    | 58.5 |
| Area and ethnic studies                     | 65     | 65    | 76    | 52    | 63    | 59    | 67    | 95    | 53.3    | 66.0 |
| Economics                                   | 249    | 279   | 263   | 266   | 312   | 291   | 293   | 306   | 22.6    | 28.2 |
| History of science                          | 10     | 17    | 10    | 13    | 19    | 18    | 17    | 8     | 37.0    | 20.0 |
| Linguistics                                 | 134    | 102   | 113   | 135   | 123   | 148   | 134   | 136   | 60.6    | 59.4 |
| Political science and public administration | 282    | 266   | 305   | 298   | 364   | 356   | 365   | 328   | 30.3    | 33.4 |
| Sociology                                   | 283    | 294   | 276   | 334   | 317   | 342   | 374   | 337   | 51.6    | 58.4 |
| Other                                       | 195    | 206   | 194   | 233   | 223   | 207   | 255   | 276   | 36.5    | 48.1 |
| Engineering                                 | 635    | 696   | 777   | 750   | 774   | 789   | 837   | 925   | 10.9    | 16.8 |
| Aerospace                                   | 11     | 14    | 24    | 16    | 15    | 17    | 21    | 28    | 4.8     | 13.8 |
| Chemical                                    | 113    | 109   | 143   | 122   | 140   | 123   | 151   | 180   | 15.6    | 24.8 |
| Civil                                       | 80     | 76    | 79    | 80    | 100   | 89    | 88    | 111   | 11.7    | 18.7 |
| Electrical                                  | 147    | 173   | 169   | 150   | 156   | 155   | 195   | 203   | 8.8     | 12.9 |
| Mechanical                                  | 69     | 64    | 78    | 88    | 93    | 96    | 96    | 91    | 6.8     | 9.5  |
| Materials                                   | 83     | 95    | 84    | 106   | 84    | 88    | 83    | 105   | 15.4    | 21.0 |
| Industrial                                  | 33     | 50    | 51    | 40    | 40    | 43    | 35    | 44    | 14.5    | 21.5 |
| Other                                       | 99     | 115   | 149   | 148   | 146   | 178   | 168   | 163   | 13.6    | 21.8 |

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1994–2001.

TABLE F-3. S&amp;E doctoral degrees awarded to men, by field: 1994–2001

| Field                                       | 1994   | 1995   | 1996   | 1997   | 1998   | 1999   | 2000   | 2001   |
|---|--------|--------|--------|--------|--------|--------|--------|--------|
| All S&E fields                              | 18,165 | 18,117 | 18,454 | 18,089 | 17,816 | 16,737 | 16,512 | 16,162 |
| Sciences                                    | 13,015 | 12,847 | 12,966 | 12,770 | 12,702 | 12,232 | 12,057 | 11,598 |
| Agricultural sciences                       | 827    | 804    | 754    | 715    | 738    | 682    | 668    | 555    |
| Biological sciences                         | 3,076  | 3,131  | 3,287  | 3,262  | 3,295  | 3,171  | 3,225  | 3,125  |
| Computer sciences                           | 762    | 808    | 775    | 743    | 765    | 692    | 716    | 668    |
| Earth, atmospheric, and ocean sciences      | 635    | 608    | 614    | 663    | 592    | 591    | 522    | 512    |
| Atmospheric                                 | 101    | 106    | 100    | 124    | 93     | 101    | 108    | 87     |
| Earth                                       | 411    | 362    | 361    | 366    | 376    | 338    | 276    | 279    |
| Oceanography                                | 86     | 87     | 94     | 105    | 80     | 85     | 88     | 74     |
| Other                                       | 37     | 53     | 59     | 68     | 43     | 67     | 50     | 72     |
| Mathematics and statistics                  | 879    | 919    | 881    | 851    | 872    | 803    | 790    | 730    |
| Physical sciences                           | 3,128  | 2,944  | 2,969  | 2,893  | 2,880  | 2,733  | 2,568  | 2,550  |
| Astronomy                                   | 119    | 143    | 151    | 161    | 162    | 126    | 145    | 145    |
| Chemistry                                   | 1,621  | 1,488  | 1,525  | 1,523  | 1,509  | 1,493  | 1,361  | 1,348  |
| Physics                                     | 1,364  | 1,291  | 1,283  | 1,196  | 1,195  | 1,103  | 1,041  | 1,036  |
| Other                                       | 24     | 22     | 10     | 13     | 14     | 11     | 21     | 21     |
| Psychology                                  | 1,273  | 1,246  | 1,163  | 1,163  | 1,207  | 1,210  | 1,205  | 1,134  |
| Social sciences                             | 2,435  | 2,387  | 2,523  | 2,480  | 2,353  | 2,350  | 2,363  | 2,324  |
| Anthropology                                | 193    | 172    | 193    | 203    | 194    | 214    | 206    | 186    |
| Area and ethnic studies                     | 57     | 55     | 67     | 42     | 51     | 48     | 60     | 49     |
| Economics                                   | 845    | 864    | 905    | 876    | 840    | 781    | 790    | 776    |
| History of science                          | 17     | 24     | 27     | 22     | 24     | 32     | 25     | 32     |
| Linguistics                                 | 87     | 98     | 116    | 107    | 96     | 99     | 95     | 93     |
| Political science and public administration | 643    | 620    | 620    | 674    | 594    | 655    | 619    | 650    |
| Sociology                                   | 261    | 258    | 247    | 265    | 260    | 228    | 258    | 240    |
| Other                                       | 332    | 296    | 348    | 291    | 294    | 293    | 310    | 298    |
| Engineering                                 | 5,150  | 5,270  | 5,488  | 5,319  | 5,114  | 4,505  | 4,455  | 4,564  |
| Aerospace                                   | 219    | 237    | 262    | 254    | 226    | 189    | 192    | 174    |
| Chemical                                    | 609    | 597    | 653    | 641    | 630    | 550    | 571    | 544    |
| Civil                                       | 598    | 575    | 616    | 572    | 544    | 495    | 465    | 481    |
| Electrical                                  | 1,516  | 1,545  | 1,556  | 1,561  | 1,429  | 1,310  | 1,335  | 1,372  |
| Mechanical                                  | 940    | 954    | 963    | 929    | 923    | 751    | 766    | 859    |
| Materials                                   | 452    | 489    | 483    | 470    | 477    | 376    | 367    | 393    |
| Industrial                                  | 195    | 231    | 208    | 205    | 188    | 169    | 140    | 160    |
| Other                                       | 621    | 642    | 747    | 687    | 697    | 665    | 619    | 581    |

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1994–2001.

TABLE F-4. Top 50 baccalaureate institutions of S&amp;E doctorate recipients, by sex: 1997–2001

| Academic institution                                | Doctorates | Academic institution                                | Doctorates |
|---|------------|---|------------|
| Female, all institutions                            | 46,056     | Male, all institutions                              | 85,316     |
| Foreign   | 9,712      | Foreign   | 28,866     |
| Unknown   | 4,629      | Unknown   | 9,115      |
| Top 50 U.S.   | 11,302     | Top 50 U.S.   | 19,394     |
| University of California, Berkeley                  | 567        | University of California, Berkeley                  | 1,045      |
| Cornell University                                  | 482        | Cornell University                                  | 799        |
| University of Michigan–Ann Arbor                    | 447        | University of Illinois at Urbana-Champaign          | 772        |
| University of California, Los Angeles               | 336        | Massachusetts Institute of Technology               | 706        |
| Harvard University                                  | 321        | University of Michigan–Ann Arbor                    | 632        |
| University of Illinois at Urbana-Champaign          | 318        | Pennsylvania State University, main campus          | 612        |
| University of Wisconsin–Madison                     | 313        | University of Wisconsin–Madison                     | 590        |
| University of California, Davis                     | 303        | Harvard University                                  | 535        |
| University of Texas at Austin                       | 303        | University of Texas at Austin                       | 507        |
| Pennsylvania State University, main campus          | 278        | Brigham Young University                            | 504        |
| Stanford University                                 | 269        | Purdue University                                   | 477        |
| Massachusetts Institute of Technology               | 266        | University of California, Davis                     | 465        |
| University of Pennsylvania                          | 256        | University of California, Los Angeles               | 458        |
| University of California, San Diego                 | 249        | Texas A&M University, main campus                   | 457        |
| Texas A&M University, main campus                   | 244        | Virginia Polytechnic Institute and State University | 423        |
| Yale University                                     | 240        | Stanford University                                 | 420        |
| University of Virginia, main campus                 | 234        | University of Minnesota, Twin Cities                | 417        |
| Michigan State University                           | 233        | University of Florida                               | 387        |
| Brown University                                    | 225        | Princeton University                                | 373        |
| University of Minnesota, Twin Cities                | 222        | University of California, San Diego                 | 371        |
| Duke University                                     | 220        | Michigan State University                           | 363        |
| University of Washington–Seattle                    | 214        | University of Washington–Seattle                    | 357        |
| Rutgers, the State Univ of New Jersey–New Brunswick | 207        | University of Virginia, main campus                 | 352        |
| University of Florida                               | 204        | University of Colorado at Boulder                   | 343        |
| University of North Carolina at Chapel Hill         | 203        | Ohio State University, main campus                  | 342        |
| University of California, Irvine                    | 202        | Yale University                                     | 335        |
| University of Colorado at Boulder                   | 195        | Rutgers, the State Univ of New Jersey–New Brunswick | 332        |
| Wellesley College                                   | 195        | University of Maryland, College Park                | 320        |
| Purdue University, main campus                      | 191        | University of Pennsylvania                          | 313        |
| Ohio State University, main campus                  | 185        | California Institute of Technology                  | 297        |
| Princeton University                                | 183        | Brown University                                    | 294        |
| University of Maryland, College Park                | 182        | Georgia Institute of Technology, main campus        | 294        |
| Northwestern University                             | 179        | North Carolina State University at Raleigh          | 294        |
| University of California, Santa Cruz                | 174        | Rensselaer Polytechnic Institute                    | 286        |
| University of Arizona                               | 172        | Duke University                                     | 283        |
| Smith College                                       | 171        | Iowa State University                               | 283        |
| Virginia Polytechnic Institute and State University | 171        | University of Arizona                               | 282        |
| University of Puerto Rico, Rio Piedras campus       | 169        | University of Chicago                               | 281        |
| University of California, Santa Barbara             | 167        | Carnegie Mellon University                          | 252        |
| University of Chicago                               | 166        | University of California, Santa Cruz                | 252        |
| University of Massachusetts, Amherst                | 166        | University of Massachusetts, Amherst                | 242        |
| Indiana University, Bloomington                     | 158        | State University of New York at Buffalo             | 241        |
| College of William and Mary                         | 157        | University of Notre Dame                            | 241        |
| Boston University                                   | 149        | University of California, Santa Barbara             | 237        |
| Washington University                               | 146        | Rice University                                     | 227        |
| Bryn Mawr College                                   | 143        | University of North Carolina at Chapel Hill         | 223        |
| Tufts University                                    | 134        | University of California, Irvine                    | 222        |
| State University of New York at Binghamton          | 132        | Johns Hopkins University                            | 219        |
| University of Iowa                                  | 131        | Northwestern University                             | 219        |
| Dartmouth College                                   | 130        | Washington University                               | 218        |
| Other U.S.  | 20,413     | Other U.S.  | 27,941     |

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1997–2001.

TABLE F-5. Field distribution of doctorate recipients, by race/ethnicity and citizenship: 2001

| Race/ethnicity and citizenship | All fields           | All S&E | Sciences | Agricultural sciences | Biological sciences | Computer sciences | Earth, atmospheric, and ocean sciences | Mathematics and statistics | Physical sciences | Psychology | Social sciences | Engineering | Non-S&E |        |
|--------------------------------|----------------------|---------|----------|-----------------------|---------------------|-------------------|--|----------------------------|-------------------|------------|-----------------|-------------|---------|--------|
|                                |                      |         |          |                       |                     |                   |  |                            |                   |            |                 |             |         | Number |
| All races/ethnicities          | 40,744               | 25,509  | 20,007   | 848                   | 5,678               | 826               | 749                                    | 1,006                      | 3,389             | 3,433      | 4,078           | 5,502       | 15,235  |        |
| U.S. citizen                   | 26,907               | 14,999  | 12,860   | 401                   | 3,876               | 365               | 428                                    | 468                        | 1,860             | 2,938      | 2,524           | 2,139       | 11,908  |        |
| Permanent resident             | 1,822                | 1,263   | 967      | 28                    | 340                 | 55                | 36                                     | 54                         | 183               | 75         | 196             | 296         | 559     |        |
| Temporary resident             | 9,780                | 7,925   | 5,153    | 358                   | 1,239               | 356               | 252                                    | 435                        | 1,213             | 152        | 1,148           | 2,772       | 1,855   |        |
| White                          | 25,354               | 14,905  | 12,506   | 455                   | 3,499               | 409               | 488                                    | 600                        | 2,013             | 2,535      | 2,507           | 2,399       | 10,449  |        |
| U.S. citizen                   | 21,842               | 12,211  | 10,566   | 361                   | 3,124               | 298               | 383                                    | 395                        | 1,556             | 2,400      | 2,049           | 1,645       | 9,631   |        |
| Permanent resident             | 745                  | 497     | 396      | 10                    | 116                 | 21                | 11                                     | 32                         | 91                | 38         | 77              | 101         | 248     |        |
| Temporary resident             | 2,634                | 2,097   | 1,480    | 83                    | 250                 | 89                | 92                                     | 173                        | 355               | 73         | 365             | 617         | 537     |        |
| Asian/Pacific Islander         | 8,140                | 6,540   | 4,179    | 205                   | 1,394               | 291               | 159                                    | 267                        | 951               | 188        | 724             | 2,361       | 1,600   |        |
| U.S. citizen                   | 1,428                | 1,058   | 797      | 7                     | 365                 | 34                | 15                                     | 30                         | 125               | 106        | 115             | 261         | 370     |        |
| Permanent resident             | 773                  | 578     | 417      | 9                     | 187                 | 27                | 20                                     | 18                         | 77                | 14         | 65              | 161         | 195     |        |
| Temporary resident             | 5,899                | 4,870   | 2,951    | 186                   | 840                 | 229               | 124                                    | 219                        | 745               | 65         | 543             | 1,919       | 1,029   |        |
| Black                          | 2,000                | 864     | 738      | 22                    | 162                 | 16                | 8                                      | 26                         | 81                | 177        | 246             | 126         | 1,136   |        |
| U.S. citizen                   | 1,604                | 625     | 543      | 8                     | 121                 | 13                | 5                                      | 17                         | 45                | 169        | 165             | 82          | 979     |        |
| Permanent resident             | 117                  | 71      | 61       | 4                     | 15                  | 2                 | 0                                      | 2                          | 9                 | 5          | 24              | 10          | 46      |        |
| Temporary resident             | 265                  | 164     | 131      | 10                    | 25                  | 1                 | 3                                      | 7                          | 26                | 2          | 57              | 33          | 101     |        |
| Hispanic                       | 1,888                | 1,181   | 973      | 91                    | 247                 | 29                | 41                                     | 35                         | 107               | 187        | 236             | 208         | 707     |        |
| U.S. citizen                   | 1,119                | 581     | 508      | 14                    | 149                 | 6                 | 11                                     | 14                         | 61                | 159        | 94              | 73          | 538     |        |
| Permanent resident             | 143                  | 88      | 70       | 5                     | 15                  | 2                 | 4                                      | 1                          | 4                 | 15         | 24              | 18          | 55      |        |
| Temporary resident             | 613                  | 503     | 386      | 71                    | 82                  | 21                | 26                                     | 20                         | 41                | 7          | 118             | 117         | 110     |        |
| American Indian/Alaskan Native | 164                  | 84      | 70       | 0                     | 15                  | 1                 | 0                                      | 2                          | 12                | 19         | 21              | 14          | 80      |        |
| U.S. citizen                   | 149                  | 72      | 65       | 0                     | 15                  | 0                 | 0                                      | 1                          | 12                | 17         | 20              | 7           | 77      |        |
| Permanent resident             | 2                    | 2       | 2        | 0                     | 0                   | 1                 | 0                                      | 1                          | 0                 | 0          | 0               | 0           | 0       |        |
| Temporary resident             | 12                   | 9       | 2        | 0                     | 0                   | 0                 | 0                                      | 0                          | 0                 | 2          | 0               | 7           | 3       |        |
| Other/unknown race/ethnicity   | 3,198                | 1,935   | 1,541    | 75                    | 361                 | 80                | 53                                     | 76                         | 225               | 327        | 344             | 394         | 1,263   |        |
| U.S. citizen                   | 765                  | 452     | 381      | 11                    | 102                 | 14                | 14                                     | 11                         | 61                | 87         | 81              | 71          | 313     |        |
| Permanent resident             | 42                   | 27      | 21       | 0                     | 7                   | 2                 | 1                                      | 0                          | 2                 | 3          | 6               | 6           | 15      |        |
| Temporary resident             | 357                  | 282     | 203      | 8                     | 42                  | 16                | 7                                      | 16                         | 46                | 3          | 65              | 79          | 75      |        |
|                                | Percent distribution |         |          |                       |                     |                   |  |                            |                   |            |                 |             |         |        |
| All doctorate recipients       | 100.0                | 62.6    | 13.5     | 2.1                   | 13.9                | 2.0               | 1.8                                    | 2.5                        | 8.3               | 8.4        | 10.0            | 13.5        | 37.4    |        |
| U.S. citizen                   | 100.0                | 55.7    | 7.9      | 1.5                   | 14.4                | 1.4               | 1.6                                    | 1.7                        | 6.9               | 10.9       | 9.4             | 7.9         | 44.3    |        |
| Permanent resident             | 100.0                | 69.3    | 16.2     | 1.5                   | 18.7                | 3.0               | 2.0                                    | 3.0                        | 10.0              | 4.1        | 10.8            | 16.2        | 30.7    |        |
| Temporary resident             | 100.0                | 81.0    | 28.3     | 3.7                   | 12.7                | 3.6               | 2.6                                    | 4.4                        | 12.4              | 1.6        | 11.7            | 28.3        | 19.0    |        |
| White                          | 100.0                | 58.8    | 9.5      | 1.8                   | 13.8                | 1.6               | 1.9                                    | 2.4                        | 7.9               | 10.0       | 9.9             | 9.5         | 41.2    |        |
| U.S. citizen                   | 100.0                | 55.9    | 7.5      | 1.7                   | 14.3                | 1.4               | 1.8                                    | 1.8                        | 7.1               | 11.0       | 9.4             | 7.5         | 44.1    |        |
| Permanent resident             | 100.0                | 66.7    | 13.6     | 1.3                   | 15.6                | 2.8               | 1.5                                    | 4.3                        | 12.2              | 5.1        | 10.3            | 13.6        | 33.3    |        |
| Temporary resident             | 100.0                | 79.6    | 23.4     | 3.2                   | 9.5                 | 3.4               | 3.5                                    | 6.6                        | 13.5              | 2.8        | 13.9            | 23.4        | 20.4    |        |

TABLE F-5. Field distribution of doctorate recipients, by race/ethnicity and citizenship: 2001

| Race/ethnicity and citizenship | All fields | All S&E | Sciences | Agric-<br>ultural<br>sciences | Bio-<br>logical<br>sciences | Computer<br>sciences | Earth, atmo-<br>spheric,<br>and ocean<br>sciences | Mathe-<br>matics<br>and<br>statistics | Physical<br>sciences | Psych-<br>ology | Social<br>sciences | Engi-<br>neering | Non-<br>S&E |
|--------------------------------|------------|---------|----------|-------------------------------|-----------------------------|----------------------|---|---------------------------------------|----------------------|-----------------|--------------------|------------------|-------------|
| Asian/Pacific Islander         | 100.0      | 80.3    | 29.0     | 2.5                           | 17.1                        | 3.6                  | 2.0   | 3.3                                   | 11.7                 | 2.3             | 8.9                | 29.0             | 19.7        |
| U.S. citizen                   | 100.0      | 74.1    | 18.3     | 0.5                           | 25.6                        | 2.4                  | 1.1   | 2.1                                   | 8.8                  | 7.4             | 8.1                | 18.3             | 25.9        |
| Permanent resident             | 100.0      | 74.8    | 20.8     | 1.2                           | 24.2                        | 3.5                  | 2.6   | 2.3                                   | 10.0                 | 1.8             | 8.4                | 20.8             | 25.2        |
| Temporary resident             | 100.0      | 82.6    | 32.5     | 3.2                           | 14.2                        | 3.9                  | 2.1   | 3.7                                   | 12.6                 | 1.1             | 9.2                | 32.5             | 17.4        |
| Black                          | 100.0      | 43.2    | 6.3      | 1.1                           | 8.1                         | 0.8                  | 0.4   | 1.3                                   | 4.1                  | 8.9             | 12.3               | 6.3              | 56.8        |
| U.S. citizen                   | 100.0      | 39.0    | 5.1      | 0.5                           | 7.5                         | 0.8                  | 0.3   | 1.1                                   | 2.8                  | 10.5            | 10.3               | 5.1              | 61.0        |
| Permanent resident             | 100.0      | 60.7    | 8.5      | 3.4                           | 12.8                        | 1.7                  | 0.0   | 1.7                                   | 7.7                  | 4.3             | 20.5               | 8.5              | 39.3        |
| Temporary resident             | 100.0      | 61.9    | 12.5     | 3.8                           | 9.4                         | 0.4                  | 1.1   | 2.6                                   | 9.8                  | 0.8             | 21.5               | 12.5             | 38.1        |
| Hispanic                       | 100.0      | 62.6    | 11.0     | 4.8                           | 13.1                        | 1.5                  | 2.2   | 1.9                                   | 5.7                  | 9.9             | 12.5               | 11.0             | 37.4        |
| U.S. citizen                   | 100.0      | 51.9    | 6.5      | 1.3                           | 13.3                        | 0.5                  | 1.0   | 1.3                                   | 5.5                  | 14.2            | 8.4                | 6.5              | 48.1        |
| Permanent resident             | 100.0      | 61.5    | 12.6     | 3.5                           | 10.5                        | 1.4                  | 2.8   | 0.7                                   | 2.8                  | 10.5            | 16.8               | 12.6             | 38.5        |
| Temporary resident             | 100.0      | 82.1    | 19.1     | 11.6                          | 13.4                        | 3.4                  | 4.2   | 3.3                                   | 6.7                  | 1.1             | 19.2               | 19.1             | 17.9        |
| American Indian/Alaskan Native | 100.0      | 51.2    | 8.5      | 0.0                           | 9.1                         | 0.6                  | 0.0   | 1.2                                   | 7.3                  | 11.6            | 12.8               | 8.5              | 48.8        |
| U.S. citizen                   | 100.0      | 48.3    | 4.7      | 0.0                           | 10.1                        | 0.0                  | 0.0   | 0.7                                   | 8.1                  | 11.4            | 13.4               | 4.7              | 51.7        |
| Permanent resident             | 100.0      | 100.0   | 0.0      | 0.0                           | 0.0                         | 50.0                 | 0.0   | 50.0                                  | 0.0                  | 0.0             | 0.0                | 0.0              | 0.0         |
| Temporary resident             | 100.0      | 75.0    | 58.3     | 0.0                           | 0.0                         | 0.0                  | 0.0   | 0.0                                   | 0.0                  | 16.7            | 0.0                | 58.3             | 25.0        |
| Other/unknown race/ethnicity   | 100.0      | 60.5    | 12.3     | 2.3                           | 11.3                        | 2.5                  | 1.7   | 2.4                                   | 7.0                  | 10.2            | 10.8               | 12.3             | 39.5        |
| U.S. citizen                   | 100.0      | 59.1    | 9.3      | 1.4                           | 13.3                        | 1.8                  | 1.8   | 1.4                                   | 8.0                  | 11.4            | 10.6               | 9.3              | 40.9        |
| Permanent resident             | 100.0      | 64.3    | 14.3     | 0.0                           | 16.7                        | 4.8                  | 2.4   | 0.0                                   | 4.8                  | 7.1             | 14.3               | 14.3             | 35.7        |
| Temporary resident             | 100.0      | 79.0    | 22.1     | 2.2                           | 11.8                        | 4.5                  | 2.0   | 4.5                                   | 12.9                 | 0.8             | 18.2               | 22.1             | 21.0        |

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2001.

TABLE F-6. S&amp;E doctorates awarded to U.S. citizens and permanent residents, by field and race/ethnicity: 1994–2001

| Field and race/ethnicity           | 1994   | 1995   | 1996   | 1997   | 1998   | 1999   | 2000   | 2001   |
|------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| All S&E fields                     | 18,187 | 18,997 | 18,650 | 18,398 | 18,257 | 17,565 | 17,106 | 16,262 |
| White                              | 13,882 | 13,889 | 13,997 | 13,827 | 14,001 | 13,717 | 13,431 | 12,708 |
| Asian/Pacific Islander             | 2,981  | 3,659  | 3,079  | 2,530  | 2,135  | 1,936  | 1,705  | 1,636  |
| Black                              | 499    | 550    | 573    | 615    | 646    | 714    | 711    | 696    |
| Hispanic                           | 548    | 573    | 626    | 659    | 754    | 721    | 728    | 669    |
| American Indian/Alaskan Native     | 64     | 67     | 96     | 79     | 97     | 114    | 88     | 74     |
| Other or unknown race/ethnicity    | 213    | 259    | 279    | 688    | 624    | 363    | 443    | 479    |
| Sciences                           | 15,134 | 15,655 | 15,261 | 15,066 | 15,211 | 14,677 | 14,537 | 13,827 |
| White                              | 11,862 | 11,797 | 11,734 | 11,540 | 11,831 | 11,607 | 11,545 | 10,962 |
| Asian/Pacific Islander             | 2,116  | 2,627  | 2,183  | 1,823  | 1,581  | 1,424  | 1,266  | 1,214  |
| Black                              | 445    | 480    | 499    | 517    | 563    | 616    | 630    | 604    |
| Hispanic                           | 482    | 496    | 527    | 562    | 644    | 639    | 646    | 578    |
| American Indian/Alaskan Native     | 58     | 58     | 82     | 62     | 84     | 102    | 80     | 67     |
| Other/unknown                      | 171    | 197    | 236    | 562    | 508    | 289    | 370    | 402    |
| Agricultural sciences              | 616    | 598    | 576    | 550    | 543    | 494    | 502    | 429    |
| White                              | 487    | 473    | 443    | 411    | 417    | 398    | 414    | 371    |
| Asian/Pacific Islander             | 72     | 78     | 80     | 63     | 47     | 46     | 30     | 16     |
| Black                              | 22     | 17     | 24     | 24     | 19     | 24     | 18     | 12     |
| Hispanic                           | 25     | 21     | 13     | 26     | 35     | 15     | 26     | 19     |
| American Indian/Alaskan Native     | 1      | 2      | 6      | 5      | 9      | 1      | 4      | 0      |
| Other or unknown race/ethnicity    | 9      | 7      | 10     | 21     | 16     | 10     | 10     | 11     |
| Biological sciences                | 4,088  | 4,329  | 4,365  | 4,256  | 4,308  | 4,124  | 4,265  | 4,216  |
| White                              | 3,105  | 3,115  | 3,171  | 3,158  | 3,246  | 3,128  | 3,306  | 3,240  |
| Asian/Pacific Islander             | 719    | 920    | 885    | 721    | 657    | 609    | 538    | 552    |
| Black                              | 78     | 107    | 98     | 112    | 111    | 116    | 118    | 136    |
| Hispanic                           | 131    | 127    | 131    | 146    | 168    | 175    | 173    | 164    |
| American Indian/Alaskan Native     | 16     | 15     | 20     | 7      | 12     | 20     | 17     | 15     |
| Other or unknown race/ethnicity    | 39     | 45     | 60     | 112    | 114    | 76     | 113    | 109    |
| Computer sciences                  | 543    | 616    | 514    | 520    | 561    | 492    | 457    | 420    |
| White                              | 401    | 450    | 356    | 361    | 412    | 356    | 335    | 319    |
| Asian/Pacific Islander             | 116    | 137    | 111    | 107    | 90     | 87     | 76     | 61     |
| Black                              | 10     | 11     | 12     | 4      | 14     | 18     | 18     | 15     |
| Hispanic                           | 7      | 6      | 16     | 16     | 15     | 14     | 14     | 8      |
| American Indian/Alaskan Native     | 1      | 0      | 4      | 1      | 4      | 1      | 1      | 1      |
| Other or unknown race/ethnicity    | 8      | 12     | 15     | 31     | 26     | 16     | 13     | 16     |
| Earth, atmospheric, ocean sciences | 613    | 594    | 558    | 607    | 562    | 525    | 508    | 464    |
| White                              | 504    | 464    | 449    | 487    | 464    | 433    | 430    | 394    |
| Asian/Pacific Islander             | 89     | 104    | 77     | 71     | 51     | 39     | 27     | 35     |
| Black                              | 6      | 3      | 4      | 8      | 8      | 14     | 7      | 5      |
| Hispanic                           | 8      | 13     | 19     | 16     | 16     | 21     | 18     | 15     |
| American Indian/Alaskan Native     | 1      | 0      | 2      | 2      | 3      | 6      | 5      | 0      |
| Other or unknown race/ethnicity    | 5      | 10     | 7      | 23     | 20     | 12     | 21     | 15     |
| Atmospheric sciences               | 91     | 93     | 83     | 102    | 85     | 76     | 86     | 61     |
| White                              | 65     | 64     | 61     | 79     | 69     | 62     | 73     | 51     |
| Asian/Pacific Islander             | 25     | 28     | 19     | 19     | 9      | 9      | 6      | 5      |
| Black                              | 1      | 0      | 0      | 0      | 2      | 2      | 1      | 0      |
| Hispanic                           | 0      | 0      | 1      | 1      | 1      | 3      | 2      | 1      |
| American Indian/Alaskan Native     | 0      | 0      | 1      | 0      | 0      | 0      | 0      | 0      |
| Other/unknown                      | 0      | 1      | 1      | 3      | 4      | 0      | 4      | 4      |
| Earth sciences                     | 396    | 348    | 330    | 349    | 348    | 295    | 269    | 259    |
| White                              | 324    | 278    | 274    | 286    | 291    | 242    | 234    | 223    |
| Asian/Pacific Islander             | 54     | 56     | 37     | 34     | 29     | 20     | 12     | 19     |
| Black                              | 4      | 0      | 2      | 5      | 3      | 6      | 1      | 2      |
| Hispanic                           | 8      | 7      | 12     | 10     | 9      | 11     | 8      | 7      |
| American Indian/Alaskan Native     | 1      | 0      | 0      | 0      | 3      | 6      | 4      | 0      |



TABLE F-6. S&E doctorates awarded to U.S. citizens and permanent residents, by field and race/ethnicity: 1994–2001

| Field and race/ethnicity        | 1994  | 1995  | 1996  | 1997  | 1998  | 1999  | 2000  | 2001  |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Other/unknown                   | 5     | 7     | 5     | 14    | 13    | 10    | 10    | 8     |
| Oceanography                    | 82    | 85    | 92    | 87    | 81    | 87    | 97    | 73    |
| White                           | 74    | 67    | 71    | 68    | 67    | 71    | 86    | 62    |
| Asian/Pacific Islander          | 8     | 14    | 14    | 8     | 6     | 6     | 3     | 4     |
| Black                           | 0     | 1     | 0     | 1     | 0     | 3     | 1     | 3     |
| Hispanic                        | 0     | 3     | 6     | 4     | 6     | 6     | 5     | 1     |
| American Indian/Alaskan Native  | 0     | 0     | 0     | 2     | 0     | 0     | 0     | 0     |
| Other or unknown race/ethnicity | 0     | 0     | 1     | 4     | 2     | 1     | 2     | 3     |
| Other                           | 44    | 68    | 53    | 69    | 48    | 67    | 56    | 71    |
| White                           | 41    | 55    | 43    | 54    | 37    | 58    | 37    | 58    |
| Asian/Pacific Islander          | 2     | 6     | 7     | 10    | 7     | 4     | 6     | 7     |
| Black                           | 1     | 2     | 2     | 2     | 3     | 3     | 4     | 0     |
| Hispanic                        | 0     | 3     | 0     | 1     | 0     | 1     | 3     | 6     |
| American Indian/Alaskan Native  | 0     | 0     | 1     | 0     | 0     | 0     | 1     | 0     |
| Other or unknown race/ethnicity | 0     | 2     | 0     | 2     | 1     | 1     | 5     | 0     |
| Mathematics and statistics      | 657   | 771   | 648   | 629   | 669   | 605   | 573   | 522   |
| White                           | 479   | 535   | 478   | 479   | 526   | 505   | 463   | 427   |
| Asian/Pacific Islander          | 142   | 207   | 140   | 97    | 71    | 57    | 70    | 48    |
| Black                           | 11    | 5     | 8     | 7     | 16    | 12    | 14    | 19    |
| Hispanic                        | 13    | 15    | 11    | 20    | 27    | 15    | 15    | 15    |
| American Indian/Alaskan Native  | 2     | 2     | 1     | 1     | 3     | 1     | 2     | 2     |
| Other or unknown race/ethnicity | 10    | 7     | 10    | 25    | 26    | 15    | 9     | 11    |
| Physical sciences               | 2,789 | 2,841 | 2,570 | 2,497 | 2,455 | 2,277 | 2,092 | 2,043 |
| White                           | 2,024 | 1,924 | 1,884 | 1,883 | 1,915 | 1,839 | 1,691 | 1,647 |
| Asian/Pacific Islander          | 598   | 749   | 501   | 400   | 331   | 253   | 203   | 202   |
| Black                           | 46    | 42    | 60    | 52    | 56    | 66    | 62    | 54    |
| Hispanic                        | 90    | 73    | 67    | 69    | 54    | 63    | 78    | 65    |
| American Indian/Alaskan Native  | 6     | 7     | 6     | 10    | 10    | 9     | 9     | 12    |
| Other or unknown race/ethnicity | 25    | 46    | 52    | 83    | 89    | 47    | 49    | 63    |
| Astronomy                       | 112   | 141   | 149   | 158   | 147   | 117   | 139   | 123   |
| White                           | 97    | 111   | 131   | 132   | 120   | 109   | 115   | 103   |
| Asian/Pacific Islander          | 10    | 22    | 12    | 8     | 13    | 3     | 13    | 6     |
| Black                           | 0     | 1     | 0     | 2     | 1     | 2     | 1     | 1     |
| Hispanic                        | 2     | 4     | 2     | 3     | 2     | 1     | 3     | 7     |
| American Indian/Alaskan Native  | 0     | 0     | 0     | 1     | 1     | 1     | 1     | 1     |
| Other or unknown race/ethnicity | 3     | 3     | 4     | 12    | 10    | 1     | 6     | 5     |
| Chemistry                       | 1,616 | 1,624 | 1,462 | 1,439 | 1,467 | 1,406 | 1,241 | 1,229 |
| White                           | 1,179 | 1,112 | 1,061 | 1,078 | 1,129 | 1,090 | 988   | 974   |
| Asian/Pacific Islander          | 331   | 415   | 295   | 234   | 206   | 183   | 121   | 125   |
| Black                           | 34    | 33    | 45    | 35    | 45    | 56    | 44    | 42    |
| Hispanic                        | 59    | 43    | 36    | 44    | 34    | 46    | 51    | 43    |
| American Indian/Alaskan Native  | 4     | 5     | 4     | 6     | 7     | 5     | 7     | 11    |
| Other or unknown race/ethnicity | 9     | 16    | 21    | 42    | 46    | 26    | 30    | 34    |
| Physics                         | 1,044 | 1,059 | 949   | 883   | 823   | 742   | 692   | 676   |
| White                           | 735   | 687   | 683   | 658   | 650   | 629   | 571   | 555   |
| Asian/Pacific Islander          | 254   | 311   | 193   | 157   | 111   | 67    | 68    | 71    |
| Black                           | 11    | 8     | 15    | 15    | 10    | 8     | 16    | 11    |
| Hispanic                        | 29    | 26    | 29    | 22    | 18    | 16    | 23    | 15    |
| American Indian/Alaskan Native  | 2     | 2     | 2     | 2     | 2     | 3     | 1     | 0     |
| Other or unknown race/ethnicity | 13    | 25    | 27    | 29    | 32    | 19    | 13    | 24    |
| Other                           | 17    | 17    | 10    | 17    | 18    | 12    | 20    | 15    |
| White                           | 13    | 14    | 9     | 15    | 16    | 11    | 17    | 15    |
| Asian/Pacific Islander          | 3     | 1     | 1     | 1     | 1     | 0     | 1     | 0     |
| Black                           | 1     | 0     | 0     | 0     | 0     | 0     | 1     | 0     |
| Hispanic                        | 0     | 0     | 0     | 0     | 0     | 0     | 1     | 0     |
| American Indian/Alaskan Native  | 0     | 0     | 0     | 1     | 0     | 0     | 0     | 0     |

TABLE F-6. S&E doctorates awarded to U.S. citizens and permanent residents, by field and race/ethnicity: 1994–2001

| Field and race/ethnicity                    | 1994  | 1995  | 1996  | 1997  | 1998  | 1999  | 2000  | 2001  |
|---|-------|-------|-------|-------|-------|-------|-------|-------|
| Other or unknown race/ethnicity             | 0     | 2     | 0     | 0     | 1     | 1     | 0     | 0     |
| Psychology                                  | 3,136 | 3,185 | 3,235 | 3,130 | 3,274 | 3,293 | 3,230 | 3,013 |
| White                                       | 2,729 | 2,723 | 2,745 | 2,525 | 2,645 | 2,702 | 2,603 | 2,438 |
| Asian/Pacific Islander                      | 108   | 121   | 121   | 126   | 113   | 132   | 146   | 120   |
| Black                                       | 124   | 149   | 152   | 151   | 158   | 172   | 190   | 174   |
| Hispanic                                    | 133   | 146   | 173   | 171   | 208   | 215   | 211   | 174   |
| American Indian/Alaskan Native              | 12    | 14    | 18    | 18    | 31    | 35    | 22    | 17    |
| Other or unknown race/ethnicity             | 30    | 32    | 26    | 139   | 119   | 37    | 58    | 90    |
| Social sciences                             | 2,692 | 2,721 | 2,795 | 2,877 | 2,839 | 2,867 | 2,910 | 2,720 |
| White                                       | 2,133 | 2,113 | 2,208 | 2,236 | 2,206 | 2,246 | 2,303 | 2,126 |
| Asian/Pacific Islander                      | 272   | 311   | 268   | 238   | 221   | 201   | 176   | 180   |
| Black                                       | 148   | 146   | 141   | 159   | 181   | 194   | 203   | 189   |
| Hispanic                                    | 75    | 95    | 97    | 98    | 121   | 121   | 111   | 118   |
| American Indian/Alaskan Native              | 19    | 18    | 25    | 18    | 12    | 29    | 20    | 20    |
| Other or unknown race/ethnicity             | 45    | 38    | 56    | 128   | 98    | 76    | 97    | 87    |
| Anthropology                                | 359   | 358   | 341   | 376   | 380   | 401   | 411   | 367   |
| White                                       | 309   | 298   | 289   | 299   | 298   | 330   | 337   | 289   |
| Asian/Pacific Islander                      | 18    | 21    | 15    | 14    | 18    | 19    | 19    | 19    |
| Black                                       | 13    | 6     | 6     | 12    | 10    | 15    | 21    | 13    |
| Hispanic                                    | 7     | 19    | 13    | 16    | 21    | 12    | 13    | 20    |
| American Indian/Alaskan Native              | 6     | 5     | 5     | 3     | 5     | 8     | 5     | 8     |
| Other or unknown race/ethnicity             | 6     | 9     | 13    | 32    | 28    | 17    | 16    | 18    |
| Area and ethnic studies                     | 99    | 106   | 123   | 88    | 104   | 94    | 118   | 130   |
| White                                       | 73    | 79    | 95    | 70    | 79    | 69    | 93    | 98    |
| Asian/Pacific Islander                      | 7     | 8     | 8     | 3     | 2     | 4     | 5     | 4     |
| Black                                       | 10    | 11    | 9     | 9     | 17    | 13    | 11    | 17    |
| Hispanic                                    | 3     | 2     | 3     | 1     | 4     | 3     | 5     | 5     |
| American Indian/Alaskan Native              | 3     | 1     | 2     | 4     | 1     | 3     | 1     | 2     |
| Other or unknown race/ethnicity             | 3     | 5     | 6     | 1     | 1     | 2     | 3     | 4     |
| Economics                                   | 566   | 626   | 608   | 590   | 578   | 543   | 503   | 459   |
| White                                       | 430   | 459   | 450   | 431   | 428   | 417   | 397   | 358   |
| Asian/Pacific Islander                      | 93    | 120   | 103   | 89    | 85    | 65    | 48    | 56    |
| Black                                       | 23    | 25    | 22    | 22    | 23    | 28    | 22    | 12    |
| Hispanic                                    | 15    | 14    | 20    | 25    | 26    | 21    | 22    | 18    |
| American Indian/Alaskan Native              | 1     | 2     | 1     | 1     | 0     | 1     | 1     | 2     |
| Other or unknown race/ethnicity             | 4     | 6     | 12    | 22    | 16    | 11    | 13    | 13    |
| History of science                          | 26    | 33    | 29    | 33    | 35    | 42    | 35    | 39    |
| White                                       | 23    | 30    | 27    | 25    | 31    | 36    | 32    | 31    |
| Asian/Pacific Islander                      | 2     | 2     | 0     | 2     | 0     | 3     | 0     | 3     |
| Black                                       | 1     | 0     | 1     | 3     | 0     | 1     | 1     | 1     |
| Hispanic                                    | 0     | 1     | 1     | 0     | 1     | 0     | 1     | 2     |
| American Indian/Alaskan Native              | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Other or unknown race/ethnicity             | 0     | 0     | 0     | 3     | 3     | 2     | 1     | 2     |
| Linguistics                                 | 131   | 118   | 118   | 159   | 136   | 156   | 118   | 123   |
| White                                       | 96    | 95    | 88    | 117   | 103   | 123   | 98    | 97    |
| Asian/Pacific Islander                      | 27    | 16    | 20    | 25    | 22    | 13    | 11    | 9     |
| Black                                       | 0     | 1     | 4     | 3     | 4     | 4     | 1     | 6     |
| Hispanic                                    | 8     | 5     | 4     | 7     | 6     | 13    | 4     | 4     |
| American Indian/Alaskan Native              | 0     | 0     | 1     | 1     | 0     | 1     | 0     | 0     |
| Other or unknown race/ethnicity             | 0     | 1     | 1     | 6     | 1     | 2     | 4     | 7     |
| Political science and public administration | 715   | 689   | 743   | 789   | 791   | 805   | 803   | 747   |
| White                                       | 570   | 560   | 592   | 655   | 633   | 640   | 637   | 586   |
| Asian/Pacific Islander                      | 48    | 51    | 46    | 45    | 42    | 46    | 38    | 36    |
| Black                                       | 52    | 49    | 59    | 37    | 55    | 59    | 61    | 71    |
| Hispanic                                    | 24    | 21    | 29    | 19    | 35    | 31    | 28    | 21    |
| American Indian/Alaskan Native              | 4     | 2     | 4     | 4     | 3     | 7     | 4     | 5     |

TABLE F-6. S&E doctorates awarded to U.S. citizens and permanent residents, by field and race/ethnicity: 1994–2001

| Field and race/ethnicity        | 1994  | 1995  | 1996  | 1997  | 1998  | 1999  | 2000  | 2001  |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Other or unknown race/ethnicity | 17    | 6     | 13    | 29    | 23    | 22    | 35    | 28    |
| Sociology                       | 420   | 429   | 424   | 461   | 442   | 459   | 514   | 469   |
| White                           | 332   | 328   | 328   | 346   | 345   | 346   | 382   | 349   |
| Asian/Pacific Islander          | 38    | 50    | 44    | 29    | 23    | 30    | 32    | 30    |
| Black                           | 26    | 29    | 25    | 42    | 40    | 45    | 57    | 44    |
| Hispanic                        | 12    | 16    | 13    | 19    | 15    | 26    | 26    | 38    |
| American Indian/Alaskan Native  | 4     | 1     | 7     | 4     | 3     | 4     | 6     | 2     |
| Other or unknown race/ethnicity | 8     | 5     | 7     | 21    | 16    | 8     | 11    | 6     |
| Other                           | 376   | 362   | 409   | 381   | 373   | 367   | 408   | 386   |
| White                           | 300   | 264   | 339   | 293   | 289   | 285   | 327   | 318   |
| Asian/Pacific Islander          | 39    | 43    | 32    | 31    | 29    | 21    | 23    | 23    |
| Black                           | 23    | 25    | 15    | 31    | 32    | 29    | 29    | 25    |
| Hispanic                        | 6     | 17    | 14    | 11    | 13    | 15    | 12    | 10    |
| American Indian/Alaskan Native  | 1     | 7     | 5     | 1     | 0     | 5     | 3     | 1     |
| Other or unknown race/ethnicity | 7     | 6     | 4     | 14    | 10    | 12    | 14    | 9     |
| Engineering                     | 3,053 | 3,342 | 3,389 | 3,332 | 3,046 | 2,888 | 2,569 | 2,435 |
| White                           | 2,020 | 2,092 | 2,263 | 2,287 | 2,170 | 2,110 | 1,886 | 1,746 |
| Asian/Pacific Islander          | 865   | 1,032 | 896   | 707   | 554   | 512   | 439   | 422   |
| Black                           | 54    | 70    | 74    | 98    | 83    | 98    | 81    | 92    |
| Hispanic                        | 66    | 77    | 99    | 97    | 110   | 82    | 82    | 91    |
| American Indian/Alaskan Native  | 6     | 9     | 14    | 17    | 13    | 12    | 8     | 7     |
| Other or unknown race/ethnicity | 42    | 62    | 43    | 126   | 116   | 74    | 73    | 77    |
| Aerospace                       | 130   | 153   | 184   | 168   | 152   | 112   | 127   | 102   |
| White                           | 100   | 119   | 149   | 137   | 126   | 97    | 107   | 79    |
| Asian/Pacific Islander          | 23    | 24    | 28    | 16    | 12    | 13    | 11    | 12    |
| Black                           | 1     | 1     | 5     | 3     | 1     | 1     | 4     | 1     |
| Hispanic                        | 3     | 7     | 2     | 4     | 5     | 0     | 3     | 5     |
| American Indian/Alaskan Native  | 1     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Other or unknown race/ethnicity | 2     | 2     | 0     | 8     | 8     | 1     | 2     | 5     |
| Chemical                        | 380   | 381   | 391   | 409   | 374   | 371   | 382   | 355   |
| White                           | 259   | 256   | 274   | 293   | 275   | 286   | 280   | 268   |
| Asian/Pacific Islander          | 96    | 101   | 80    | 73    | 65    | 58    | 69    | 52    |
| Black                           | 8     | 3     | 12    | 16    | 3     | 11    | 8     | 17    |
| Hispanic                        | 7     | 13    | 19    | 7     | 13    | 7     | 18    | 7     |
| American Indian/Alaskan Native  | 1     | 2     | 1     | 4     | 3     | 2     | 1     | 1     |
| Other or unknown race/ethnicity | 9     | 6     | 5     | 16    | 15    | 7     | 6     | 10    |
| Civil                           | 292   | 309   | 305   | 327   | 297   | 312   | 260   | 269   |
| White                           | 199   | 194   | 199   | 220   | 216   | 241   | 193   | 194   |
| Asian/Pacific Islander          | 69    | 91    | 89    | 72    | 38    | 46    | 43    | 37    |
| Black                           | 8     | 11    | 8     | 10    | 10    | 6     | 6     | 11    |
| Hispanic                        | 14    | 11    | 6     | 12    | 16    | 12    | 9     | 9     |
| American Indian/Alaskan Native  | 0     | 0     | 2     | 2     | 0     | 2     | 1     | 0     |
| Other or unknown race/ethnicity | 2     | 2     | 1     | 11    | 17    | 5     | 8     | 18    |
| Electrical                      | 899   | 971   | 929   | 940   | 804   | 765   | 647   | 561   |
| White                           | 548   | 590   | 589   | 579   | 523   | 510   | 442   | 370   |
| Asian/Pacific Islander          | 303   | 322   | 276   | 256   | 205   | 172   | 141   | 133   |
| Black                           | 17    | 24    | 22    | 31    | 23    | 30    | 21    | 22    |
| Hispanic                        | 21    | 15    | 27    | 26    | 31    | 29    | 22    | 22    |
| American Indian/Alaskan Native  | 1     | 1     | 2     | 5     | 3     | 1     | 0     | 1     |
| Other or unknown race/ethnicity | 9     | 19    | 13    | 43    | 19    | 23    | 21    | 13    |
| Industrial                      | 119   | 149   | 136   | 119   | 101   | 100   | 77    | 88    |
| White                           | 83    | 93    | 94    | 80    | 72    | 81    | 59    | 53    |
| Asian/Pacific Islander          | 28    | 41    | 28    | 22    | 11    | 07    | 11    | 22    |
| Black                           | 6     | 8     | 3     | 9     | 8     | 7     | 4     | 6     |
| Hispanic                        | 1     | 4     | 6     | 5     | 7     | 4     | 0     | 3     |
| American Indian/Alaskan Native  | 0     | 1     | 3     | 0     | 0     | 0     | 0     | 1     |

TABLE F-6. S&amp;E doctorates awarded to U.S. citizens and permanent residents, by field and race/ethnicity: 1994–2001

| Field and race/ethnicity        | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 |
|---------------------------------|------|------|------|------|------|------|------|------|
| Other or unknown race/ethnicity | 1    | 2    | 2    | 3    | 3    | 1    | 3    | 3    |
| Materials                       | 297  | 352  | 337  | 315  | 313  | 260  | 244  | 225  |
| White                           | 202  | 194  | 217  | 234  | 225  | 184  | 190  | 165  |
| Asian/Pacific Islander          | 82   | 136  | 102  | 59   | 55   | 52   | 34   | 38   |
| Black                           | 3    | 6    | 3    | 4    | 10   | 7    | 5    | 6    |
| Hispanic                        | 4    | 7    | 6    | 10   | 8    | 8    | 8    | 9    |
| American Indian/Alaskan Native  | 1    | 0    | 2    | 0    | 2    | 2    | 0    | 1    |
| Other or unknown race/ethnicity | 5    | 9    | 7    | 8    | 13   | 7    | 7    | 6    |
| Mechanical                      | 538  | 563  | 588  | 538  | 516  | 463  | 397  | 427  |
| White                           | 337  | 339  | 392  | 376  | 371  | 335  | 279  | 300  |
| Asian/Pacific Islander          | 179  | 188  | 166  | 113  | 89   | 88   | 72   | 76   |
| Black                           | 7    | 13   | 10   | 12   | 14   | 12   | 18   | 17   |
| Hispanic                        | 8    | 8    | 13   | 15   | 19   | 9    | 12   | 21   |
| American Indian/Alaskan Native  | 0    | 2    | 3    | 6    | 2    | 2    | 3    | 1    |
| Other or unknown race/ethnicity | 7    | 13   | 4    | 16   | 21   | 17   | 13   | 12   |
| Other                           | 398  | 464  | 519  | 516  | 489  | 505  | 435  | 408  |
| White                           | 292  | 307  | 349  | 368  | 362  | 376  | 336  | 317  |
| Asian/Pacific Islander          | 85   | 129  | 127  | 96   | 79   | 76   | 58   | 52   |
| Black                           | 4    | 4    | 11   | 13   | 14   | 24   | 15   | 12   |
| Hispanic                        | 8    | 12   | 20   | 18   | 11   | 13   | 10   | 15   |
| American Indian/Alaskan Native  | 2    | 3    | 1    | 0    | 3    | 3    | 3    | 2    |
| Other/unknown                   | 7    | 9    | 11   | 21   | 20   | 13   | 13   | 10   |

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1994–2001.

TABLE F-7. Top baccalaureate institutions of black S&amp;E doctorate recipients: 1997–2001

| Academic institution                                       | Doctorates |
|--|------------|
| All institutions   | 4,367      |
| Foreign  | 981        |
| Unknown  | 253        |
| Top 51 U.S.  | 1,325      |
| Howard University  | 110        |
| Spelman College  | 68         |
| Hampton University   | 54         |
| Morehouse College  | 48         |
| Massachusetts Institute of Technology                      | 39         |
| Harvard University   | 37         |
| North Carolina Agricultural and Technical State University | 37         |
| Southern University and A&M College                        | 36         |
| University of California, Berkeley                         | 30         |
| University of Maryland, College Park                       | 30         |
| University of Michigan–Ann Arbor                           | 30         |
| Stanford University  | 29         |
| Xavier University of Louisiana                             | 29         |
| Jackson State University                                   | 28         |
| North Carolina State University at Raleigh                 | 28         |
| Cornell University   | 27         |
| University of Virginia, main campus                        | 27         |
| Tuskegee University  | 26         |
| University of California, Los Angeles                      | 26         |
| Brown University   | 25         |
| Florida Agricultural and Mechanical University             | 23         |
| Alabama A&M University                                     | 22         |
| City University of New York City College                   | 22         |
| Rutgers, the State University of New Jersey–New Brunswick  | 22         |
| Temple University  | 22         |
| Clark Atlanta University                                   | 21         |
| North Carolina Central University                          | 21         |
| Princeton University                                       | 21         |
| University of North Carolina at Chapel Hill                | 21         |
| Wayne State University                                     | 21         |
| Prairie View A&M University                                | 20         |
| Yale University  | 20         |
| Tougaloo College   | 19         |
| University of Illinois at Urbana-Champaign                 | 19         |
| Fisk University  | 18         |
| Morgan State University                                    | 18         |
| Northwestern University                                    | 18         |
| University of South Carolina, Columbia                     | 18         |
| Michigan State University                                  | 17         |
| University of Pennsylvania                                 | 16         |
| University of Tennessee at Knoxville                       | 16         |
| Georgia Institute of Technology, main campus               | 15         |
| Norfolk State University                                   | 15         |
| Ohio State University, main campus                         | 15         |
| Tennessee State University                                 | 15         |
| University of Georgia                                      | 15         |
| University of Texas at Austin                              | 15         |
| Florida State University                                   | 14         |
| State University of New York at Buffalo                    | 14         |
| Texas A&M University, main campus                          | 14         |
| University of California–Davis                             | 14         |
| Other U.S.   | 3,133      |

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1997–2001.

TABLE F-8. Top baccalaureate institutions of Hispanic S&amp;E doctorate recipients: 1997–2001

| Academic institution                                      | Doctorates |
|---|------------|
| All institutions  | 5,827      |
| Foreign   | 2,118      |
| Unknown   | 662        |
| Top 52 U.S.   | 1,704      |
| University of Puerto Rico Rio, Piedras campus             | 270        |
| University of Puerto Rico, Mayaguez campus                | 127        |
| University of Texas at Austin                             | 74         |
| University of California, Berkeley                        | 73         |
| Massachusetts Institute of Technology                     | 53         |
| University of California, Los Angeles                     | 52         |
| Florida International University                          | 50         |
| Texas A&M University, main campus                         | 50         |
| University of Florida                                     | 50         |
| Cornell University  | 45         |
| Stanford University                                       | 42         |
| University of Texas at El Paso                            | 41         |
| University of California, Irvine                          | 39         |
| University of Miami                                       | 38         |
| University of California, Davis                           | 37         |
| University of California, San Diego                       | 36         |
| University of New Mexico                                  | 36         |
| New Mexico State University                               | 28         |
| Rutgers, the State University of New Jersey–New Brunswick | 27         |
| University of California, Santa Cruz                      | 25         |
| University of Arizona                                     | 22         |
| University of Illinois at Urbana-Champaign                | 22         |
| Yale University   | 22         |
| California State University, Los Angeles                  | 21         |
| University of California, Santa Barbara                   | 20         |
| University of Michigan–Ann Arbor                          | 19         |
| California State University, Long Beach                   | 18         |
| California State University, Northridge                   | 18         |
| Harvard University  | 18         |
| San Diego State University                                | 18         |
| University of Maryland, College Park                      | 17         |
| University of Puerto Rico, Cayey University College       | 17         |
| University of South Florida                               | 17         |
| University of Washington, Seattle campus                  | 17         |
| St. Mary's University                                     | 16         |
| Trinity University  | 16         |
| Brown University  | 15         |
| Columbia University in the City of New York               | 14         |
| University of Colorado at Boulder                         | 14         |
| University of Houston                                     | 14         |
| Brigham Young University, main campus                     | 13         |
| California Institute of Technology                        | 13         |
| California State Polytechnic University, San Luis Obispo  | 13         |
| California State Polytechnic University, Pomona           | 13         |
| City University of New York, City College                 | 13         |
| Duke University   | 13         |
| Georgia Institute of Technology, main campus              | 13         |
| Princeton University                                      | 13         |
| Purdue University, main campus                            | 13         |
| Rensselaer Polytechnic Institute                          | 13         |
| Swarthmore College  | 13         |
| University of Pennsylvania                                | 13         |
| Other U.S.  | 1,343      |

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1997–2001.

TABLE F-9. Top baccalaureate institutions of American Indian/Alaskan Native S&amp;E doctorate recipients: 1997–2001

| Academic institution                       | Doctorates |
|--|------------|
| All institutions                           | 463        |
| Foreign                                    | 39         |
| Unknown                                    | 23         |
| Top 32 U.S.                                | 134        |
| University of California, Berkeley         | 12         |
| University of Oklahoma, Norman campus      | 12         |
| Cornell University                         | 5          |
| Oklahoma State University                  | 5          |
| University of Missouri–Columbia            | 5          |
| University of Washington, Seattle campus   | 5          |
| Brigham Young University, main campus      | 4          |
| Massachusetts Institute of Technology      | 4          |
| Northern Arizona University                | 4          |
| San Jose State University                  | 4          |
| Southwest Missouri State University        | 4          |
| University of California, Davis            | 4          |
| University of California, Irvine           | 4          |
| University of Central Oklahoma             | 4          |
| University of Florida                      | 4          |
| University of Michigan–Ann Arbor           | 4          |
| University of New Mexico                   | 4          |
| University of Texas at Austin              | 4          |
| California State University, Fresno        | 3          |
| Colorado College                           | 3          |
| Dartmouth College                          | 3          |
| Louisiana State University and A&M College | 3          |
| New Mexico State University                | 3          |
| Purdue University, main campus             | 3          |
| University of Alaska                       | 3          |
| University of California, San Diego        | 3          |
| University of Maryland, College Park       | 3          |
| University of Massachusetts, Amherst       | 3          |
| University of North Dakota                 | 3          |
| University of Portland                     | 3          |
| University of Tulsa                        | 3          |
| University of West Florida                 | 3          |
| Other U.S.                                 | 267        |

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1997–2001.

TABLE F-10. Top baccalaureate institutions of Asian/Pacific Islander S&amp;E doctorate recipients: 1997–2001

| Academic institution                                      | Doctorates |
|---|------------|
| All institutions  | 33,987     |
| Foreign   | 25,899     |
| Unknown   | 2,352      |
| Top 50 U.S.   | 3,449      |
| University of California, Berkeley                        | 463        |
| Massachusetts Institute of Technology                     | 195        |
| University of California, Los Angeles                     | 184        |
| Harvard University  | 162        |
| Cornell University  | 160        |
| University of California, Davis                           | 117        |
| University of California, Irvine                          | 112        |
| Stanford University                                       | 108        |
| California Institute of Technology                        | 99         |
| University of Michigan–Ann Arbor                          | 95         |
| University of Illinois at Urbana–Champaign                | 91         |
| University of Texas at Austin                             | 91         |
| University of California, San Diego                       | 83         |
| University of Washington, Seattle campus                  | 76         |
| Princeton University                                      | 73         |
| Yale University   | 73         |
| University of Pennsylvania                                | 65         |
| University of Chicago                                     | 62         |
| University of Wisconsin–Madison                           | 60         |
| University of Minnesota, Twin Cities                      | 58         |
| University of Maryland, College Park                      | 56         |
| University of Hawaii at Manoa                             | 51         |
| Boston University   | 49         |
| Purdue University, main campus                            | 49         |
| Brown University  | 48         |
| Rutgers, the State University of New Jersey–New Brunswick | 44         |
| Northwestern University                                   | 42         |
| University of Southern California                         | 40         |
| Iowa State University                                     | 38         |
| University of Virginia, main campus                       | 37         |
| Johns Hopkins University                                  | 36         |
| University of Rochester                                   | 36         |
| Carnegie Mellon University                                | 35         |
| Columbia University in the City of New York               | 35         |
| Washington University                                     | 34         |
| Texas A&M University, main campus                         | 33         |
| University of Arizona                                     | 31         |
| Pennsylvania State University, main campus                | 30         |
| Rice University   | 29         |
| Ohio State University, main campus                        | 27         |
| University of California, Santa Barbara                   | 26         |
| Duke University   | 25         |
| Georgia Institute of Technology, main campus              | 25         |
| Harvey Mudd College                                       | 25         |
| Mount Holyoke College                                     | 25         |
| Rensselaer Polytechnic Institute                          | 25         |
| State University of New York at Stony Brook, all campuses | 25         |
| Michigan State University                                 | 22         |
| New York University                                       | 22         |
| University of Colorado at Boulder                         | 22         |
| Other U.S.  | 2,287      |

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1997–2001.



TABLE F-11. S&amp;E doctorates awarded to U.S. citizens and permanent residents, by field, sex, and race/ethnicity: 1994–2001

Page 1 of 5

| Field, sex, and race/ethnicity  | 1994   | 1995   | 1996   | 1997   | 1998   | 1999   | 2000   | 2001   |
|---------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| All S&E fields                  | 18,187 | 18,997 | 18,650 | 18,398 | 18,257 | 17,565 | 17,106 | 16,262 |
| Female                          | 6,494  | 6,913  | 6,967  | 6,990  | 7,170  | 7,071  | 7,123  | 6,867  |
| Male                            | 11,692 | 12,082 | 11,683 | 11,392 | 11,069 | 10,494 | 9,981  | 9,395  |
| Unknown                         | 1      | 2      | 0      | 16     | 18     | 0      | 2      | 0      |
| White                           | 13,882 | 13,889 | 13,997 | 13,827 | 14,001 | 13,717 | 13,431 | 12,708 |
| Female                          | 5,154  | 5,215  | 5,351  | 5,268  | 5,492  | 5,456  | 5,503  | 5,257  |
| Male                            | 8,728  | 8,674  | 8,646  | 8,557  | 8,509  | 8,261  | 7,928  | 7,451  |
| Unknown                         | 0      | 0      | 0      | 2      | 0      | 0      | 0      | 0      |
| Asian/Pacific Islander          | 2,981  | 3,659  | 3,079  | 2,530  | 2,135  | 1,936  | 1,705  | 1,636  |
| Female                          | 817    | 1,111  | 974    | 889    | 760    | 717    | 678    | 686    |
| Male                            | 2,163  | 2,548  | 2,105  | 1,640  | 1,369  | 1,219  | 1,027  | 950    |
| Unknown                         | 1      | 0      | 0      | 1      | 6      | 0      | 0      | 0      |
| Black                           | 499    | 550    | 573    | 615    | 646    | 714    | 711    | 696    |
| Female                          | 216    | 263    | 251    | 285    | 351    | 367    | 392    | 373    |
| Male                            | 283    | 287    | 322    | 330    | 295    | 347    | 319    | 323    |
| Hispanic                        | 548    | 573    | 626    | 659    | 754    | 721    | 728    | 669    |
| Female                          | 230    | 232    | 273    | 266    | 326    | 362    | 348    | 332    |
| Male                            | 318    | 341    | 353    | 393    | 428    | 359    | 379    | 337    |
| Unknown                         | 0      | 0      | 0      | 0      | 0      | 0      | 1      | 0      |
| American Indian/Alaskan Native  | 64     | 67     | 96     | 79     | 97     | 114    | 88     | 74     |
| Female                          | 24     | 25     | 35     | 34     | 42     | 55     | 45     | 32     |
| Male                            | 40     | 42     | 61     | 45     | 55     | 59     | 43     | 42     |
| Other or unknown race/ethnicity | 213    | 259    | 279    | 688    | 624    | 363    | 443    | 479    |
| Female                          | 53     | 67     | 83     | 248    | 199    | 114    | 157    | 187    |
| Male                            | 160    | 190    | 196    | 427    | 413    | 249    | 285    | 292    |
| Unknown                         | 0      | 2      | 0      | 13     | 12     | 0      | 1      | 0      |
| Sciences                        | 15,134 | 15,655 | 15,261 | 15,066 | 15,211 | 14,677 | 14,537 | 13,827 |
| Female                          | 6,046  | 6,393  | 6,441  | 6,478  | 6,718  | 6,579  | 6,633  | 6,393  |
| Male                            | 9,088  | 9,260  | 8,820  | 8,573  | 8,481  | 8,098  | 7,902  | 7,434  |
| Unknown                         | 0      | 2      | 0      | 15     | 12     | 0      | 2      | 0      |
| White                           | 11,862 | 11,797 | 11,734 | 11,540 | 11,831 | 11,607 | 11,545 | 10,962 |
| Female                          | 4,849  | 4,894  | 5,003  | 4,936  | 5,185  | 5,104  | 5,170  | 4,940  |
| Male                            | 7,013  | 6,903  | 6,731  | 6,602  | 6,646  | 6,503  | 6,375  | 6,022  |
| Unknown                         | 0      | 0      | 0      | 2      | 0      | 0      | 0      | 0      |
| Asian/Pacific Islander          | 2,116  | 2,627  | 2,183  | 1,823  | 1,581  | 1,424  | 1,266  | 1,214  |
| Female                          | 698    | 941    | 840    | 770    | 663    | 633    | 569    | 590    |
| Male                            | 1,418  | 1,686  | 1,343  | 1,052  | 915    | 791    | 697    | 624    |
| Unknown                         | 0      | 0      | 0      | 1      | 3      | 0      | 0      | 0      |
| Black                           | 445    | 480    | 499    | 517    | 563    | 616    | 630    | 604    |
| Female                          | 203    | 248    | 232    | 262    | 329    | 343    | 368    | 348    |
| Male                            | 242    | 232    | 267    | 255    | 234    | 273    | 262    | 256    |
| Hispanic                        | 482    | 496    | 527    | 562    | 644    | 639    | 646    | 578    |
| Female                          | 224    | 221    | 258    | 243    | 313    | 339    | 335    | 310    |
| Male                            | 258    | 275    | 269    | 319    | 331    | 300    | 310    | 268    |
| Unknown                         | 0      | 0      | 0      | 0      | 0      | 0      | 1      | 0      |
| American Indian/Alaskan Native  | 58     | 58     | 82     | 62     | 84     | 102    | 80     | 67     |
| Female                          | 22     | 25     | 33     | 31     | 38     | 53     | 41     | 30     |
| Male                            | 36     | 33     | 49     | 31     | 46     | 49     | 39     | 37     |
| Other or unknown race/ethnicity | 171    | 197    | 236    | 562    | 508    | 289    | 370    | 402    |
| Female                          | 50     | 64     | 75     | 236    | 190    | 107    | 150    | 175    |
| Male                            | 121    | 131    | 161    | 314    | 309    | 182    | 219    | 227    |
| Unknown                         | 0      | 2      | 0      | 12     | 9      | 0      | 1      | 0      |
| Agricultural sciences           | 616    | 598    | 576    | 550    | 543    | 494    | 502    | 429    |
| Female                          | 160    | 135    | 175    | 155    | 183    | 161    | 166    | 164    |
| Male                            | 456    | 463    | 401    | 394    | 360    | 333    | 336    | 265    |

TABLE F-11. S&amp;E doctorates awarded to U.S. citizens and permanent residents, by field, sex, and race/ethnicity: 1994–2001

Page 2 of 5

| Field, sex, and race/ethnicity  | 1994  | 1995  | 1996  | 1997  | 1998  | 1999  | 2000  | 2001  |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Unknown                         | 0     | 0     | 0     | 1     | 0     | 0     | 0     | 0     |
| White                           | 487   | 473   | 443   | 411   | 417   | 398   | 414   | 371   |
| Female                          | 120   | 104   | 136   | 118   | 140   | 125   | 136   | 135   |
| Male                            | 367   | 369   | 307   | 293   | 277   | 273   | 278   | 236   |
| Asian/Pacific Islander          | 72    | 78    | 80    | 63    | 47    | 46    | 30    | 16    |
| Female                          | 20    | 16    | 29    | 18    | 18    | 18    | 9     | 9     |
| Male                            | 52    | 62    | 51    | 45    | 29    | 28    | 21    | 7     |
| Black                           | 22    | 17    | 24    | 24    | 19    | 24    | 18    | 12    |
| Female                          | 6     | 6     | 0     | 6     | 4     | 8     | 8     | 6     |
| Male                            | 16    | 11    | 24    | 18    | 15    | 16    | 10    | 6     |
| Hispanic                        | 25    | 21    | 13    | 26    | 35    | 15    | 26    | 19    |
| Female                          | 12    | 5     | 4     | 7     | 13    | 7     | 11    | 9     |
| Male                            | 13    | 16    | 9     | 19    | 22    | 8     | 15    | 10    |
| American Indian/Alaskan Native  | 1     | 2     | 6     | 5     | 9     | 1     | 4     | 0     |
| Female                          | 0     | 0     | 4     | 0     | 2     | 0     | 1     | 0     |
| Male                            | 1     | 2     | 2     | 5     | 7     | 1     | 3     | 0     |
| Other or unknown race/ethnicity | 9     | 7     | 10    | 21    | 16    | 10    | 10    | 11    |
| Female                          | 2     | 4     | 2     | 6     | 6     | 3     | 1     | 5     |
| Male                            | 7     | 3     | 8     | 14    | 10    | 7     | 9     | 6     |
| Unknown                         | 0     | 0     | 0     | 1     | 0     | 0     | 0     | 0     |
| Biological sciences             | 4,088 | 4,329 | 4,365 | 4,256 | 4,308 | 4,124 | 4,265 | 4,216 |
| Female                          | 1,743 | 1,859 | 1,941 | 1,920 | 1,921 | 1,864 | 1,984 | 1,958 |
| Male                            | 2,345 | 2,469 | 2,424 | 2,333 | 2,385 | 2,260 | 2,281 | 2,258 |
| Unknown                         | 0     | 1     | 0     | 3     | 2     | 0     | 0     | 0     |
| White                           | 3,105 | 3,115 | 3,171 | 3,158 | 3,246 | 3,128 | 3,306 | 3,240 |
| Female                          | 1,347 | 1,345 | 1,399 | 1,398 | 1,436 | 1,402 | 1,508 | 1,480 |
| Male                            | 1,758 | 1,770 | 1,772 | 1,759 | 1,810 | 1,726 | 1,798 | 1,760 |
| Unknown                         | 0     | 0     | 0     | 1     | 0     | 0     | 0     | 0     |
| Asian/Pacific Islander          | 719   | 920   | 885   | 721   | 657   | 609   | 538   | 552   |
| Female                          | 268   | 409   | 403   | 348   | 291   | 277   | 262   | 269   |
| Male                            | 451   | 511   | 482   | 373   | 365   | 332   | 276   | 283   |
| Unknown                         | 0     | 0     | 0     | 0     | 1     | 0     | 0     | 0     |
| Black                           | 78    | 107   | 98    | 112   | 111   | 116   | 118   | 136   |
| Female                          | 45    | 43    | 40    | 60    | 70    | 66    | 74    | 82    |
| Male                            | 33    | 64    | 58    | 52    | 41    | 50    | 44    | 54    |
| Hispanic                        | 131   | 127   | 131   | 146   | 168   | 175   | 173   | 164   |
| Female                          | 62    | 47    | 66    | 63    | 79    | 76    | 91    | 76    |
| Male                            | 69    | 80    | 65    | 83    | 89    | 99    | 82    | 88    |
| American Indian/Alaskan Native  | 16    | 15    | 20    | 7     | 12    | 20    | 17    | 15    |
| Female                          | 5     | 5     | 9     | 3     | 6     | 10    | 7     | 7     |
| Male                            | 11    | 10    | 11    | 4     | 6     | 10    | 10    | 8     |
| Other or unknown race/ethnicity | 39    | 45    | 60    | 112   | 114   | 76    | 113   | 109   |
| Female                          | 16    | 10    | 24    | 48    | 39    | 33    | 42    | 44    |
| Male                            | 23    | 34    | 36    | 62    | 74    | 43    | 71    | 65    |
| Unknown                         | 0     | 1     | 0     | 2     | 1     | 0     | 0     | 0     |
| Computer sciences               | 543   | 616   | 514   | 520   | 561   | 492   | 457   | 420   |
| Female                          | 94    | 143   | 91    | 100   | 123   | 105   | 86    | 98    |
| Male                            | 449   | 473   | 423   | 419   | 437   | 387   | 371   | 322   |
| Unknown                         | 0     | 0     | 0     | 1     | 1     | 0     | 0     | 0     |
| White                           | 401   | 450   | 356   | 361   | 412   | 356   | 335   | 319   |
| Female                          | 75    | 103   | 61    | 66    | 84    | 71    | 62    | 60    |
| Male                            | 326   | 347   | 295   | 295   | 328   | 285   | 273   | 259   |
| Asian/Pacific Islander          | 116   | 137   | 111   | 107   | 90    | 87    | 76    | 61    |
| Female                          | 16    | 30    | 16    | 26    | 23    | 19    | 15    | 20    |
| Male                            | 100   | 107   | 95    | 81    | 67    | 68    | 61    | 41    |
| Black                           | 10    | 11    | 12    | 4     | 14    | 18    | 18    | 15    |

TABLE F-11. S&amp;E doctorates awarded to U.S. citizens and permanent residents, by field, sex, and race/ethnicity: 1994–2001

Page 3 of 5

| Field, sex, and race/ethnicity         | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 |
|--|------|------|------|------|------|------|------|------|
| Female                                 | 2    | 4    | 3    | 1    | 8    | 9    | 5    | 10   |
| Male                                   | 8    | 7    | 9    | 3    | 6    | 9    | 13   | 5    |
| Hispanic                               | 7    | 6    | 16   | 16   | 15   | 14   | 14   | 8    |
| Female                                 | 0    | 4    | 7    | 2    | 1    | 3    | 3    | 4    |
| Male                                   | 7    | 2    | 9    | 14   | 14   | 11   | 11   | 4    |
| American Indian/Alaskan Native         | 1    | 0    | 4    | 1    | 4    | 1    | 1    | 1    |
| Female                                 | 1    | 0    | 2    | 1    | 0    | 1    | 0    | 0    |
| Male                                   | 0    | 0    | 2    | 0    | 4    | 0    | 1    | 1    |
| Other or unknown race/ethnicity        | 8    | 12   | 15   | 31   | 26   | 16   | 13   | 16   |
| Female                                 | 0    | 2    | 2    | 4    | 7    | 2    | 1    | 4    |
| Male                                   | 8    | 10   | 13   | 26   | 18   | 14   | 12   | 12   |
| Unknown                                | 0    | 0    | 0    | 1    | 1    | 0    | 0    | 0    |
| Earth, atmospheric, and ocean sciences | 613  | 594  | 558  | 607  | 562  | 525  | 508  | 464  |
| Female                                 | 144  | 144  | 130  | 164  | 171  | 152  | 167  | 162  |
| Male                                   | 469  | 450  | 428  | 442  | 391  | 373  | 341  | 302  |
| Unknown                                | 0    | 0    | 0    | 1    | 0    | 0    | 0    | 0    |
| White                                  | 504  | 464  | 449  | 487  | 464  | 433  | 430  | 394  |
| Female                                 | 123  | 108  | 109  | 129  | 140  | 126  | 140  | 139  |
| Male                                   | 381  | 356  | 340  | 357  | 324  | 307  | 290  | 255  |
| Unknown                                | 0    | 0    | 0    | 1    | 0    | 0    | 0    | 0    |
| Asian/Pacific Islander                 | 89   | 104  | 77   | 71   | 51   | 39   | 27   | 35   |
| Female                                 | 17   | 28   | 12   | 19   | 19   | 11   | 11   | 10   |
| Male                                   | 72   | 76   | 65   | 52   | 32   | 28   | 16   | 25   |
| Black                                  | 6    | 3    | 4    | 8    | 8    | 14   | 7    | 5    |
| Female                                 | 1    | 0    | 2    | 1    | 2    | 5    | 4    | 2    |
| Male                                   | 5    | 3    | 2    | 7    | 6    | 9    | 3    | 3    |
| Hispanic                               | 8    | 13   | 19   | 16   | 16   | 21   | 18   | 15   |
| Female                                 | 2    | 6    | 6    | 5    | 6    | 4    | 3    | 9    |
| Male                                   | 6    | 7    | 13   | 11   | 10   | 17   | 15   | 6    |
| American Indian/Alaskan Native         | 1    | 0    | 2    | 2    | 3    | 6    | 5    | 0    |
| Female                                 | 0    | 0    | 0    | 1    | 1    | 3    | 1    | 0    |
| Male                                   | 1    | 0    | 2    | 1    | 2    | 3    | 4    | 0    |
| Other or unknown race/ethnicity        | 5    | 10   | 7    | 23   | 20   | 12   | 21   | 15   |
| Female                                 | 1    | 2    | 1    | 9    | 3    | 3    | 8    | 2    |
| Male                                   | 4    | 8    | 6    | 14   | 17   | 9    | 13   | 13   |
| Mathematics and statistics             | 657  | 771  | 648  | 629  | 669  | 605  | 573  | 522  |
| Female                                 | 151  | 183  | 145  | 177  | 198  | 192  | 163  | 153  |
| Male                                   | 506  | 588  | 503  | 452  | 470  | 413  | 409  | 369  |
| Unknown                                | 0    | 0    | 0    | 0    | 1    | 0    | 1    | 0    |
| White                                  | 479  | 535  | 478  | 479  | 526  | 505  | 463  | 427  |
| Female                                 | 118  | 126  | 105  | 135  | 150  | 158  | 125  | 119  |
| Male                                   | 361  | 409  | 373  | 344  | 376  | 347  | 338  | 308  |
| Asian/Pacific Islander                 | 142  | 207  | 140  | 97   | 71   | 57   | 70   | 48   |
| Female                                 | 26   | 49   | 36   | 28   | 27   | 21   | 21   | 16   |
| Male                                   | 116  | 158  | 104  | 69   | 44   | 36   | 49   | 32   |
| Black                                  | 11   | 5    | 8    | 7    | 16   | 12   | 14   | 19   |
| Female                                 | 3    | 1    | 2    | 2    | 7    | 6    | 7    | 7    |
| Male                                   | 8    | 4    | 6    | 5    | 9    | 6    | 7    | 12   |
| Hispanic                               | 13   | 15   | 11   | 20   | 27   | 15   | 15   | 15   |
| Female                                 | 3    | 4    | 0    | 6    | 7    | 5    | 7    | 5    |
| Male                                   | 10   | 11   | 11   | 14   | 20   | 10   | 8    | 10   |
| American Indian/Alaskan Native         | 2    | 2    | 1    | 1    | 3    | 1    | 2    | 2    |
| Female                                 | 0    | 1    | 0    | 0    | 2    | 0    | 1    | 1    |
| Male                                   | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| Other or unknown race/ethnicity        | 10   | 7    | 10   | 25   | 26   | 15   | 9    | 11   |
| Female                                 | 1    | 2    | 2    | 6    | 5    | 2    | 2    | 5    |

TABLE F-11. S&amp;E doctorates awarded to U.S. citizens and permanent residents, by field, sex, and race/ethnicity: 1994–2001

Page 4 of 5

| Field, sex, and race/ethnicity  | 1994  | 1995  | 1996  | 1997  | 1998  | 1999  | 2000  | 2001  |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Male                            | 9     | 5     | 8     | 19    | 20    | 13    | 6     | 6     |
| Unknown                         | 0     | 0     | 0     | 0     | 1     | 0     | 1     | 0     |
| Physical sciences               | 2,789 | 2,841 | 2,570 | 2,497 | 2,455 | 2,277 | 2,092 | 2,043 |
| Female                          | 625   | 708   | 610   | 587   | 604   | 553   | 546   | 526   |
| Male                            | 2,164 | 2,132 | 1,960 | 1,909 | 1,849 | 1,724 | 1,546 | 1,517 |
| Unknown                         | 0     | 1     | 0     | 1     | 2     | 0     | 0     | 0     |
| White                           | 2,024 | 1,924 | 1,884 | 1,883 | 1,915 | 1,839 | 1,691 | 1,647 |
| Female                          | 408   | 448   | 430   | 412   | 449   | 396   | 419   | 394   |
| Male                            | 1,616 | 1,476 | 1,454 | 1,471 | 1,466 | 1,443 | 1,272 | 1,253 |
| Asian/Pacific Islander          | 598   | 749   | 501   | 400   | 331   | 253   | 203   | 202   |
| Female                          | 177   | 210   | 145   | 132   | 101   | 93    | 71    | 74    |
| Male                            | 421   | 539   | 356   | 267   | 228   | 160   | 132   | 128   |
| Unknown                         | 0     | 0     | 0     | 1     | 2     | 0     | 0     | 0     |
| Black                           | 46    | 42    | 60    | 52    | 56    | 66    | 62    | 54    |
| Female                          | 13    | 18    | 13    | 11    | 31    | 29    | 21    | 20    |
| Male                            | 33    | 24    | 47    | 41    | 25    | 37    | 41    | 34    |
| Hispanic                        | 90    | 73    | 67    | 69    | 54    | 63    | 78    | 65    |
| Female                          | 21    | 21    | 12    | 15    | 11    | 22    | 25    | 22    |
| Male                            | 69    | 52    | 55    | 54    | 43    | 41    | 53    | 43    |
| American Indian/Alaskan Native  | 6     | 7     | 6     | 10    | 10    | 9     | 9     | 12    |
| Female                          | 1     | 2     | 1     | 0     | 1     | 3     | 2     | 2     |
| Male                            | 5     | 5     | 5     | 10    | 9     | 6     | 7     | 10    |
| Other or unknown race/ethnicity | 25    | 46    | 52    | 83    | 89    | 47    | 49    | 63    |
| Female                          | 5     | 9     | 9     | 17    | 11    | 10    | 8     | 14    |
| Male                            | 20    | 36    | 43    | 66    | 78    | 37    | 41    | 49    |
| Unknown                         | 0     | 1     | 0     | 0     | 0     | 0     | 0     | 0     |
| Psychology                      | 3,136 | 3,185 | 3,235 | 3,130 | 3,274 | 3,293 | 3,230 | 3,013 |
| Female                          | 1,967 | 2,057 | 2,186 | 2,108 | 2,211 | 2,229 | 2,177 | 2,035 |
| Male                            | 1,169 | 1,128 | 1,049 | 1,015 | 1,058 | 1,064 | 1,052 | 978   |
| Unknown                         | 0     | 0     | 0     | 7     | 5     | 0     | 1     | 0     |
| White                           | 2,729 | 2,723 | 2,745 | 2,525 | 2,645 | 2,702 | 2,603 | 2,438 |
| Female                          | 1,701 | 1,742 | 1,836 | 1,692 | 1,763 | 1,789 | 1,723 | 1,617 |
| Male                            | 1,028 | 981   | 909   | 833   | 882   | 913   | 880   | 821   |
| Asian/Pacific Islander          | 108   | 121   | 121   | 126   | 113   | 132   | 146   | 120   |
| Female                          | 76    | 78    | 90    | 95    | 84    | 98    | 99    | 91    |
| Male                            | 32    | 43    | 31    | 31    | 29    | 34    | 47    | 29    |
| Black                           | 124   | 149   | 152   | 151   | 158   | 172   | 190   | 174   |
| Female                          | 78    | 110   | 114   | 110   | 115   | 135   | 145   | 124   |
| Male                            | 46    | 39    | 38    | 41    | 43    | 37    | 45    | 50    |
| Hispanic                        | 133   | 146   | 173   | 171   | 208   | 215   | 211   | 174   |
| Female                          | 90    | 97    | 120   | 107   | 152   | 158   | 151   | 128   |
| Male                            | 43    | 49    | 53    | 64    | 56    | 57    | 59    | 46    |
| Unknown                         | 0     | 0     | 0     | 0     | 0     | 0     | 1     | 0     |
| American Indian/Alaskan Native  | 12    | 14    | 18    | 18    | 31    | 35    | 22    | 17    |
| Female                          | 7     | 8     | 9     | 12    | 18    | 23    | 19    | 12    |
| Male                            | 5     | 6     | 9     | 6     | 13    | 12    | 3     | 5     |
| Other or unknown race/ethnicity | 30    | 32    | 26    | 139   | 119   | 37    | 58    | 90    |
| Female                          | 15    | 22    | 17    | 92    | 79    | 26    | 40    | 63    |
| Male                            | 15    | 10    | 9     | 40    | 35    | 11    | 18    | 27    |
| Unknown                         | 0     | 0     | 0     | 7     | 5     | 0     | 0     | 0     |
| Social sciences                 | 2,692 | 2,721 | 2,795 | 2,877 | 2,839 | 2,867 | 2,910 | 2,720 |
| Female                          | 1,162 | 1,164 | 1,163 | 1,267 | 1,307 | 1,323 | 1,344 | 1,297 |
| Male                            | 1,530 | 1,557 | 1,632 | 1,609 | 1,531 | 1,544 | 1,566 | 1,423 |
| Unknown                         | 0     | 0     | 0     | 1     | 1     | 0     | 0     | 0     |
| White                           | 2,133 | 2,113 | 2,208 | 2,236 | 2,206 | 2,246 | 2,303 | 2,126 |
| Female                          | 957   | 918   | 927   | 986   | 1,023 | 1,037 | 1,057 | 996   |

TABLE F-11. S&amp;E doctorates awarded to U.S. citizens and permanent residents, by field, sex, and race/ethnicity: 1994–2001

Page 5 of 5

| Field, sex, and race/ethnicity  | 1994  | 1995  | 1996  | 1997  | 1998  | 1999  | 2000  | 2001  |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Male                            | 1,176 | 1,195 | 1,281 | 1,250 | 1,183 | 1,209 | 1,246 | 1,130 |
| Asian/Pacific Islander          | 272   | 311   | 268   | 238   | 221   | 201   | 176   | 180   |
| Female                          | 98    | 121   | 109   | 104   | 100   | 96    | 81    | 101   |
| Male                            | 174   | 190   | 159   | 134   | 121   | 105   | 95    | 79    |
| Black                           | 148   | 146   | 141   | 159   | 181   | 194   | 203   | 189   |
| Female                          | 55    | 66    | 58    | 71    | 92    | 85    | 104   | 97    |
| Male                            | 93    | 80    | 83    | 88    | 89    | 109   | 99    | 92    |
| Hispanic                        | 75    | 95    | 97    | 98    | 121   | 121   | 111   | 118   |
| Female                          | 34    | 37    | 43    | 38    | 44    | 64    | 44    | 57    |
| Male                            | 41    | 58    | 54    | 60    | 77    | 57    | 67    | 61    |
| American Indian/Alaskan Native  | 19    | 18    | 25    | 18    | 12    | 29    | 20    | 20    |
| Female                          | 8     | 9     | 8     | 14    | 8     | 13    | 10    | 8     |
| Male                            | 11    | 9     | 17    | 4     | 4     | 16    | 10    | 12    |
| Other or unknown race/ethnicity | 45    | 38    | 56    | 128   | 98    | 76    | 97    | 87    |
| Female                          | 10    | 13    | 18    | 54    | 40    | 28    | 48    | 38    |
| Male                            | 35    | 25    | 38    | 73    | 57    | 48    | 49    | 49    |
| Unknown                         | 0     | 0     | 0     | 1     | 1     | 0     | 0     | 0     |
| Engineering                     | 3,053 | 3,342 | 3,389 | 3,332 | 3,046 | 2,888 | 2,569 | 2,435 |
| Female                          | 448   | 520   | 526   | 512   | 452   | 492   | 490   | 474   |
| Male                            | 2,604 | 2,822 | 2,863 | 2,819 | 2,588 | 2,396 | 2,079 | 1,961 |
| Unknown                         | 1     | 0     | 0     | 1     | 6     | 0     | 0     | 0     |
| White                           | 2,020 | 2,092 | 2,263 | 2,287 | 2,170 | 2,110 | 1,886 | 1,746 |
| Female                          | 305   | 321   | 348   | 332   | 307   | 352   | 333   | 317   |
| Male                            | 1,715 | 1,771 | 1,915 | 1,955 | 1,863 | 1,758 | 1,553 | 1,429 |
| Asian/Pacific Islander          | 865   | 1,032 | 896   | 707   | 554   | 512   | 439   | 422   |
| Female                          | 119   | 170   | 134   | 119   | 97    | 84    | 109   | 96    |
| Male                            | 745   | 862   | 762   | 588   | 454   | 428   | 330   | 326   |
| Unknown                         | 1     | 0     | 0     | 0     | 3     | 0     | 0     | 0     |
| Black                           | 54    | 70    | 74    | 98    | 83    | 98    | 81    | 92    |
| Female                          | 13    | 15    | 19    | 23    | 22    | 24    | 24    | 25    |
| Male                            | 41    | 55    | 55    | 75    | 61    | 74    | 57    | 67    |
| Hispanic                        | 66    | 77    | 99    | 97    | 110   | 82    | 82    | 91    |
| Female                          | 6     | 11    | 15    | 23    | 13    | 23    | 13    | 22    |
| Male                            | 60    | 66    | 84    | 74    | 97    | 59    | 69    | 69    |
| American Indian/Alaskan Native  | 6     | 9     | 14    | 17    | 13    | 12    | 8     | 7     |
| Female                          | 2     | 0     | 2     | 3     | 4     | 2     | 4     | 2     |
| Male                            | 4     | 9     | 12    | 14    | 9     | 10    | 4     | 5     |
| Other or unknown race/ethnicity | 42    | 62    | 43    | 126   | 116   | 74    | 73    | 77    |
| Female                          | 3     | 3     | 8     | 12    | 9     | 7     | 7     | 12    |
| Male                            | 39    | 59    | 35    | 113   | 104   | 67    | 66    | 65    |
| Unknown                         | 0     | 0     | 0     | 1     | 3     | 0     | 0     | 0     |

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1994–2001.

TABLE F-12. S&E doctorates awarded to U.S. citizens and permanent residents, by sex, race/ethnicity, and field: 2001  
(Percent distribution)

Page 1 of 2

| Sex, race/ethnicity, and field          | All U.S.<br>citizen/<br>permanent<br>resident | White | Asian/<br>Pacific<br>Islander | Black | Hispanic | American<br>Indian/<br>Alaskan<br>Native | Other or<br>unknown<br>race/ethnicity |
|---|---|-------|-------------------------------|-------|----------|--|---------------------------------------|
|   | Female (number)                               | 6,867 | 5,257                         | 686   | 373      | 332                                      | 32                                    |
| S&E                                     | 100.0   | 100.0 | 100.0                         | 100.0 | 100.0    | 100.0                                    | 100.0                                 |
| Sciences                                |   |       |                               |       |          |  |                                       |
| Agricultural sciences                   | 2.4   | 2.6   | 1.3                           | 1.6   | 2.7      | 0.0                                      | 2.7                                   |
| Biological sciences                     | 28.5  | 28.2  | 39.2                          | 22.0  | 22.9     | 21.9                                     | 23.5                                  |
| Computer sciences                       | 1.4   | 1.1   | 2.9                           | 2.7   | 1.2      | 0.0                                      | 2.1                                   |
| Earth, atmospheric, and ocean sciences  | 2.4   | 2.6   | 1.5                           | 0.5   | 2.7      | 0.0                                      | 1.1                                   |
| Atmospheric                             | 0.2   | 0.2   | 0.3                           | 0.0   | 0.0      | 0.0                                      | 0.0                                   |
| Earth                                   | 1.3   | 1.5   | 0.6                           | 0.0   | 1.2      | 0.0                                      | 0.5                                   |
| Ocean                                   | 0.4   | 0.5   | 0.1                           | 0.5   | 0.3      | 0.0                                      | 0.5                                   |
| Other                                   | 0.4   | 0.4   | 0.4                           | 0.0   | 1.2      | 0.0                                      | 0.0                                   |
| Mathematics/statistics                  | 2.2   | 2.3   | 2.3                           | 1.9   | 1.5      | 3.1                                      | 2.7                                   |
| Physical sciences                       | 7.7   | 7.5   | 10.8                          | 5.4   | 6.6      | 6.3                                      | 7.5                                   |
| Astronomy                               | 0.4   | 0.5   | 0.0                           | 0.0   | 0.3      | 0.0                                      | 0.5                                   |
| Chemistry                               | 5.9   | 5.6   | 8.9                           | 5.1   | 5.1      | 6.3                                      | 6.4                                   |
| Physics                                 | 1.3   | 1.3   | 1.9                           | 0.3   | 1.2      | 0.0                                      | 0.5                                   |
| Other                                   | 0.0   | 0.1   | 0.0                           | 0.0   | 0.0      | 0.0                                      | 0.0                                   |
| Psychology                              | 29.6  | 30.8  | 13.3                          | 33.2  | 38.6     | 37.5                                     | 33.7                                  |
| Social sciences                         | 18.9  | 18.9  | 14.7                          | 26.0  | 17.2     | 25.0                                     | 20.3                                  |
| Anthropology                            | 3.2   | 3.2   | 2.2                           | 2.4   | 4.2      | 6.3                                      | 5.9                                   |
| Area/ethnic studies                     | 1.2   | 1.2   | 0.3                           | 3.5   | 1.2      | 3.1                                      | 2.1                                   |
| Economics                               | 2.2   | 2.2   | 3.8                           | 0.5   | 1.5      | 3.1                                      | 3.2                                   |
| History of science                      | 0.1   | 0.1   | 0.1                           | 0.0   | 0.0      | 0.0                                      | 0.0                                   |
| Linguistics                             | 1.1   | 1.1   | 0.9                           | 1.3   | 0.9      | 0.0                                      | 2.7                                   |
| Political science/public administration | 4.0   | 4.0   | 3.1                           | 7.5   | 2.1      | 6.3                                      | 3.2                                   |
| Sociology                               | 4.2   | 4.2   | 2.6                           | 7.0   | 5.7      | 3.1                                      | 1.1                                   |
| Other                                   | 2.9   | 3.0   | 1.7                           | 3.8   | 1.5      | 3.1                                      | 2.1                                   |
| Engineering                             | 6.9   | 6.0   | 14.0                          | 6.7   | 6.6      | 6.3                                      | 6.4                                   |
| Aerospace                               | 0.3   | 0.3   | 0.6                           | 0.0   | 0.0      | 0.0                                      | 0.5                                   |
| Chemical                                | 1.3   | 1.1   | 2.8                           | 2.7   | 1.5      | 0.0                                      | 0.0                                   |
| Civil                                   | 1.0   | 1.0   | 1.3                           | 0.0   | 0.6      | 0.0                                      | 2.1                                   |
| Electrical                              | 1.0   | 0.7   | 4.1                           | 0.3   | 0.9      | 0.0                                      | 0.0                                   |
| Industrial                              | 0.4   | 0.3   | 0.9                           | 0.8   | 0.6      | 0.0                                      | 0.0                                   |
| Materials                               | 0.8   | 0.7   | 1.3                           | 1.1   | 1.5      | 0.0                                      | 0.5                                   |
| Mechanical                              | 0.6   | 0.5   | 1.2                           | 0.3   | 0.0      | 0.0                                      | 1.1                                   |
| Other                                   | 1.6   | 1.5   | 1.9                           | 1.6   | 1.5      | 6.3                                      | 2.1                                   |
| Male (number)                           | 9,395   | 7,451 | 950                           | 323   | 337      | 42                                       | 292                                   |
| S&E                                     | 100.0   | 100.0 | 100.0                         | 100.0 | 100.0    | 100.0                                    | 100.0                                 |
| Sciences                                |   |       |                               |       |          |  |                                       |
| Agricultural sciences                   | 2.8   | 3.2   | 0.7                           | 1.9   | 3.0      | 0.0                                      | 2.1                                   |
| Biological sciences                     | 24.0  | 23.6  | 29.8                          | 16.7  | 26.1     | 19.0                                     | 22.3                                  |
| Computer sciences                       | 3.4   | 3.5   | 4.3                           | 1.5   | 1.2      | 2.4                                      | 4.1                                   |
| Earth, atmospheric, and ocean sciences  | 3.2   | 3.4   | 2.6                           | 0.9   | 1.8      | 0.0                                      | 4.5                                   |
| Atmospheric                             | 0.5   | 0.5   | 0.3                           | 0.0   | 0.3      | 0.0                                      | 1.4                                   |
| Earth                                   | 1.8   | 1.9   | 1.6                           | 0.6   | 0.9      | 0.0                                      | 2.4                                   |
| Ocean                                   | 0.5   | 0.5   | 0.3                           | 0.3   | 0.0      | 0.0                                      | 0.7                                   |
| Other                                   | 0.5   | 0.5   | 0.4                           | 0.0   | 0.6      | 0.0                                      | 0.0                                   |
| Mathematics/statistics                  | 3.9   | 4.1   | 3.4                           | 3.7   | 3.0      | 2.4                                      | 2.1                                   |
| Physical sciences                       | 16.1  | 16.8  | 13.5                          | 10.5  | 12.8     | 23.8                                     | 16.8                                  |
| Astronomy                               | 1.0   | 1.0   | 0.6                           | 0.3   | 1.8      | 2.4                                      | 1.4                                   |
| Chemistry                               | 8.7   | 9.1   | 6.7                           | 7.1   | 7.7      | 21.4                                     | 7.5                                   |
| Physics                                 | 6.3   | 6.5   | 6.1                           | 3.1   | 3.3      | 0.0                                      | 7.9                                   |

TABLE F-12. S&E doctorates awarded to U.S. citizens and permanent residents, by sex, race/ethnicity, and field: 2001  
(Percent distribution)

| Sex, race/ethnicity, and field          | All U.S.<br>citizen/<br>permanent<br>resident | White | Asian/<br>Pacific<br>Islander | Black | Hispanic | American<br>Indian/<br>Alaskan<br>Native | Other or<br>unknown<br>race/ethnicity |
|---|---|-------|-------------------------------|-------|----------|--|---------------------------------------|
|   | Other   | 0.1   | 0.2                           | 0.0   | 0.0      | 0.0                                      | 0.0                                   |
| Psychology                              | 10.4  | 11.0  | 3.1                           | 15.5  | 13.6     | 11.9                                     | 9.2                                   |
| Social sciences                         | 15.1  | 15.2  | 8.3                           | 28.5  | 18.1     | 28.6                                     | 16.8                                  |
| Anthropology                            | 1.6   | 1.7   | 0.4                           | 1.2   | 1.8      | 14.3                                     | 2.4                                   |
| Area/ethnic studies                     | 0.5   | 0.5   | 0.2                           | 1.2   | 0.3      | 2.4                                      | 0.0                                   |
| Economics                               | 3.2   | 3.3   | 3.2                           | 3.1   | 3.9      | 2.4                                      | 2.4                                   |
| History of science                      | 0.3   | 0.3   | 0.2                           | 0.3   | 0.6      | 0.0                                      | 0.7                                   |
| Linguistics                             | 0.5   | 0.6   | 0.3                           | 0.3   | 0.3      | 0.0                                      | 0.7                                   |
| Political science/public administration | 5.0   | 5.0   | 1.6                           | 13.3  | 4.2      | 7.1                                      | 7.5                                   |
| Sociology                               | 1.9   | 1.7   | 1.3                           | 5.6   | 5.6      | 2.4                                      | 1.4                                   |
| Other                                   | 2.0   | 2.1   | 1.2                           | 3.4   | 1.5      | 0.0                                      | 1.7                                   |
| Engineering                             | 20.9  | 19.2  | 34.3                          | 20.7  | 20.5     | 11.9                                     | 22.3                                  |
| Aerospace                               | 0.9   | 0.9   | 0.8                           | 0.3   | 1.5      | 0.0                                      | 1.4                                   |
| Chemical                                | 2.8   | 2.8   | 3.5                           | 2.2   | 0.6      | 2.4                                      | 3.4                                   |
| Civil                                   | 2.2   | 1.9   | 2.9                           | 3.4   | 2.1      | 0.0                                      | 4.8                                   |
| Electrical                              | 5.3   | 4.5   | 11.1                          | 6.5   | 5.6      | 2.4                                      | 4.5                                   |
| Industrial                              | 0.6   | 0.5   | 1.7                           | 0.9   | 0.3      | 2.4                                      | 1.0                                   |
| Materials                               | 1.8   | 1.7   | 3.1                           | 0.6   | 1.2      | 2.4                                      | 1.7                                   |
| Mechanical                              | 4.1   | 3.7   | 7.2                           | 5.0   | 6.2      | 2.4                                      | 3.4                                   |
| Other                                   | 3.2   | 3.2   | 4.1                           | 1.9   | 3.0      | 0.0                                      | 2.1                                   |

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2001.

TABLE F-13. S&amp;E doctorate recipients, by disability status: 1994–2001

| Disability status            | 1994   | 1995   | 1996   | 1997   | 1998   | 1999   | 2000   | 2001   |
|------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| All S&E doctorate recipients | 26,205 | 26,536 | 27,243 | 27,242 | 27,283 | 25,940 | 25,951 | 25,509 |
| No disability                | 25,832 | 26,179 | 26,959 | 26,922 | 26,961 | 25,603 | 25,623 | 25,172 |
| With disability              | 373    | 357    | 284    | 320    | 322    | 337    | 328    | 337    |
| Auditory                     | 62     | 45     | 41     | 45     | 36     | 40     | 38     | 48     |
| Learning <sup>a</sup>        | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 84     |
| Orthopedic                   | 88     | 96     | 81     | 104    | 92     | 96     | 94     | 98     |
| Visual                       | 98     | 97     | 46     | 39     | 55     | 54     | 49     | 38     |
| Vocal                        | 13     | 5      | 7      | 7      | 11     | 6      | 6      | 8      |
| Other/more than one          | 74     | 87     | 97     | 98     | 96     | 110    | 110    | 56     |
| Unspecified                  | 38     | 27     | 12     | 27     | 32     | 31     | 31     | 5      |

<sup>a</sup>Not included in survey before 2001.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1994–2001.



TABLE F-14. Top baccalaureate institutions of S&amp;E doctorate recipients with disabilities, by disability type: 1997–2001

Page 1 of 2

| Academic institution                                      | All disabilities | Auditory | Learning <sup>a</sup> | Orthopedic | Visual | Vocal | Other/more than 1 | Unspecified |
|---|------------------|----------|-----------------------|------------|--------|-------|-------------------|-------------|
| All institutions  | 1,644            | 207      | 84                    | 484        | 235    | 38    | 470               | 126         |
| Foreign   | 228              | 32       | 0                     | 75         | 48     | 8     | 22                | 43          |
| Unknown   | 78               | 9        | 1                     | 22         | 13     | 1     | 23                | 9           |
| Top 67 U.S.   | 552              | 81       | 41                    | 151        | 66     | 15    | 167               | 31          |
| University of California, Berkeley                        | 33               | 4        | 3                     | 6          | 4      | 3     | 11                | 2           |
| University of Wisconsin–Madison                           | 21               | 0        | 0                     | 5          | 2      | 2     | 10                | 2           |
| Cornell University, all campuses                          | 15               | 0        | 1                     | 6          | 2      | 2     | 3                 | 1           |
| University of California, Los Angeles                     | 15               | 3        | 1                     | 3          | 3      | 0     | 4                 | 1           |
| University of Illinois at Urbana-Champaign                | 15               | 2        | 2                     | 4          | 2      | 0     | 3                 | 2           |
| Texas A&M University, main campus                         | 14               | 5        | 0                     | 2          | 0      | 0     | 6                 | 1           |
| University of Minnesota, Twin Cities                      | 14               | 1        | 2                     | 6          | 2      | 0     | 2                 | 1           |
| Pennsylvania State University, main campus                | 13               | 3        | 1                     | 3          | 2      | 0     | 4                 | 0           |
| University of California, Davis                           | 12               | 3        | 3                     | 2          | 2      | 0     | 1                 | 1           |
| University of Colorado at Boulder                         | 11               | 0        | 1                     | 3          | 2      | 0     | 4                 | 1           |
| University of Maryland at College Park                    | 11               | 2        | 0                     | 1          | 1      | 1     | 4                 | 2           |
| University of Michigan–Ann Arbor                          | 11               | 3        | 0                     | 2          | 1      | 0     | 4                 | 1           |
| Brigham Young University, main campus                     | 10               | 1        | 2                     | 3          | 0      | 0     | 2                 | 2           |
| Brown University  | 10               | 1        | 1                     | 1          | 2      | 0     | 4                 | 1           |
| Ohio State University, main campus                        | 10               | 0        | 1                     | 2          | 3      | 1     | 3                 | 0           |
| Purdue University, main campus                            | 10               | 1        | 0                     | 2          | 0      | 1     | 6                 | 0           |
| University of California, San Diego                       | 10               | 3        | 0                     | 5          | 0      | 0     | 2                 | 0           |
| University of California, Santa Cruz                      | 10               | 3        | 2                     | 3          | 0      | 0     | 2                 | 0           |
| University of Washington, Seattle campus                  | 10               | 0        | 0                     | 5          | 1      | 0     | 4                 | 0           |
| Harvard University  | 9                | 0        | 0                     | 5          | 0      | 0     | 4                 | 0           |
| University of Kansas, main campus                         | 9                | 1        | 0                     | 1          | 1      | 0     | 5                 | 1           |
| University of Pittsburgh, main campus                     | 9                | 1        | 1                     | 3          | 2      | 0     | 2                 | 0           |
| University of Texas at Austin                             | 9                | 1        | 0                     | 3          | 0      | 1     | 3                 | 1           |
| Duke University   | 8                | 0        | 1                     | 3          | 1      | 0     | 2                 | 1           |
| Indiana University, Bloomington                           | 8                | 1        | 2                     | 0          | 1      | 1     | 3                 | 0           |
| Massachusetts Institute of Technology                     | 8                | 0        | 0                     | 3          | 0      | 0     | 4                 | 1           |
| Rensselaer Polytechnic Institute                          | 8                | 1        | 0                     | 1          | 1      | 1     | 3                 | 1           |
| Florida State University                                  | 7                | 1        | 0                     | 2          | 1      | 0     | 3                 | 0           |
| Mount Holyoke College                                     | 7                | 1        | 0                     | 2          | 1      | 0     | 3                 | 0           |
| Rutgers, the State University of New Jersey–New Brunswick | 7                | 0        | 1                     | 2          | 1      | 0     | 3                 | 0           |
| Stanford University                                       | 7                | 1        | 0                     | 1          | 1      | 0     | 4                 | 0           |
| University of Delaware                                    | 7                | 0        | 0                     | 4          | 2      | 0     | 1                 | 0           |
| University of Nebraska–Lincoln                            | 7                | 0        | 0                     | 3          | 1      | 0     | 2                 | 1           |
| University of Virginia, main campus                       | 7                | 2        | 1                     | 3          | 1      | 0     | 0                 | 0           |
| Washington University                                     | 7                | 2        | 0                     | 0          | 0      | 0     | 2                 | 3           |
| California State University, Fresno                       | 6                | 1        | 1                     | 2          | 1      | 0     | 1                 | 0           |
| Dartmouth College   | 6                | 2        | 0                     | 1          | 0      | 0     | 3                 | 0           |
| Michigan State University                                 | 6                | 0        | 0                     | 1          | 2      | 0     | 2                 | 1           |
| Princeton University                                      | 6                | 2        | 1                     | 3          | 0      | 0     | 0                 | 0           |
| San Francisco State University                            | 6                | 1        | 1                     | 1          | 1      | 0     | 2                 | 0           |
| San Jose State University                                 | 6                | 2        | 1                     | 2          | 0      | 0     | 1                 | 0           |
| Syracuse University, main campus                          | 6                | 1        | 1                     | 4          | 0      | 0     | 0                 | 0           |
| Tulane University   | 6                | 1        | 1                     | 1          | 0      | 0     | 3                 | 0           |
| University of California, Irvine                          | 6                | 1        | 0                     | 3          | 1      | 0     | 1                 | 0           |
| University of California, Santa Barbara                   | 6                | 1        | 1                     | 1          | 1      | 0     | 2                 | 0           |
| University of Missouri–Columbia                           | 6                | 2        | 0                     | 3          | 1      | 0     | 0                 | 0           |
| University of Oklahoma, Norman Campus                     | 6                | 0        | 1                     | 3          | 0      | 0     | 2                 | 0           |
| Washington State University                               | 6                | 1        | 0                     | 2          | 2      | 0     | 1                 | 0           |
| Arizona State University, main campus                     | 5                | 1        | 0                     | 2          | 1      | 0     | 1                 | 0           |
| Bowling Green State University                            | 5                | 2        | 0                     | 1          | 0      | 0     | 2                 | 0           |
| Brandeis University                                       | 5                | 2        | 0                     | 0          | 0      | 0     | 3                 | 0           |

TABLE F-14. Top baccalaureate institutions of S&amp;E doctorate recipients with disabilities, by disability type: 1997–2001

Page 2 of 2

| Academic institution                                | All          |          |                       |            |        |       | Other/more |             |
|---|--------------|----------|-----------------------|------------|--------|-------|------------|-------------|
|   | disabilities | Auditory | Learning <sup>a</sup> | Orthopedic | Visual | Vocal | than 1     | Unspecified |
| California State University, Sacramento             | 5            | 1        | 1                     | 3          | 0      | 0     | 0          | 0           |
| Colorado State University                           | 5            | 1        | 0                     | 4          | 0      | 0     | 0          | 0           |
| City University of New York, Hunter College         | 5            | 0        | 0                     | 0          | 2      | 0     | 3          | 0           |
| Oberlin College                                     | 5            | 0        | 0                     | 1          | 2      | 0     | 2          | 0           |
| Ohio University                                     | 5            | 1        | 0                     | 1          | 2      | 0     | 1          | 0           |
| Rochester Institute of Technology                   | 5            | 2        | 1                     | 0          | 0      | 0     | 1          | 1           |
| State University of New York at Albany              | 5            | 0        | 1                     | 1          | 2      | 0     | 1          | 0           |
| Tufts University                                    | 5            | 0        | 0                     | 2          | 0      | 1     | 2          | 0           |
| University of Arizona                               | 5            | 1        | 1                     | 1          | 1      | 0     | 1          | 0           |
| University of California, Riverside                 | 5            | 1        | 0                     | 2          | 1      | 0     | 1          | 0           |
| University of Cincinnati                            | 5            | 1        | 0                     | 0          | 0      | 1     | 3          | 0           |
| University of Florida                               | 5            | 2        | 0                     | 1          | 0      | 0     | 2          | 0           |
| University of Massachusetts Amherst                 | 5            | 1        | 1                     | 2          | 0      | 0     | 1          | 0           |
| University of Pennsylvania                          | 5            | 1        | 1                     | 1          | 1      | 0     | 1          | 0           |
| Virginia Polytechnic Institute and State University | 5            | 1        | 1                     | 0          | 1      | 0     | 0          | 2           |
| Yale University                                     | 5            | 1        | 0                     | 2          | 1      | 0     | 1          | 0           |
| Other U.S.  | 786          | 85       | 42                    | 236        | 108    | 14    | 258        | 43          |

<sup>a</sup>Not included in survey before 2001.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1997–2001.

TABLE F-15. S&amp;E doctorate recipients, by field and disability status: 2001

| Field                                  | All recipients | No disability |         | With disability |         |
|--|----------------|---------------|---------|-----------------|---------|
|  |                | Number        | Percent | Number          | Percent |
| S&E                                    | 25,509         | 25,172        | 100.0   | 337             | 100.0   |
| Sciences                               | 20,007         | 19,708        | 78.3    | 299             | 88.7    |
| Agricultural sciences                  | 848            | 838           | 3.3     | 10              | 3.0     |
| Biological sciences                    | 5,678          | 5,617         | 22.3    | 61              | 18.1    |
| Computer sciences                      | 826            | 817           | 3.2     | 9               | 2.7     |
| Earth, atmospheric, and ocean sciences | 749            | 731           | 2.9     | 18              | 5.3     |
| Atmospheric                            | 116            | 112           | 0.4     | 4               | 1.2     |
| Earth                                  | 394            | 385           | 1.5     | 9               | 2.7     |
| Ocean                                  | 119            | 117           | 0.5     | 2               | 0.6     |
| Other                                  | 120            | 117           | 0.5     | 3               | 0.9     |
| Mathematics/statistics                 | 1,006          | 993           | 3.9     | 13              | 3.9     |
| Physical sciences                      | 3,389          | 3,361         | 13.4    | 28              | 8.3     |
| Astronomy                              | 186            | 185           | 0.7     | 1               | 0.3     |
| Chemistry                              | 1,979          | 1,960         | 7.8     | 19              | 5.6     |
| Physics                                | 1,193          | 1,185         | 4.7     | 8               | 2.4     |
| Other                                  | 31             | 31            | 0.1     | 0               | 0.0     |
| Social sciences                        | 7,511          | 7,351         | 29.2    | 160             | 47.5    |
| Anthropology                           | 448            | 437           | 1.7     | 11              | 3.3     |
| Area/ethnic studies                    | 144            | 139           | 0.6     | 5               | 1.5     |
| Economics                              | 1,084          | 1,069         | 4.2     | 15              | 4.5     |
| History of science                     | 40             | 39            | 0.2     | 1               | 0.3     |
| Linguistics                            | 229            | 225           | 0.9     | 4               | 1.2     |
| Political science                      | 982            | 956           | 3.8     | 26              | 7.7     |
| Psychology                             | 3,433          | 3,356         | 13.3    | 77              | 22.8    |
| Sociology                              | 577            | 565           | 2.2     | 12              | 3.6     |
| Other                                  | 574            | 565           | 2.2     | 9               | 2.7     |
| Engineering                            | 5,502          | 5,464         | 21.7    | 38              | 11.3    |
| Aerospace                              | 203            | 203           | 0.8     | 0               | 0.0     |
| Chemical                               | 726            | 721           | 2.9     | 5               | 1.5     |
| Civil                                  | 593            | 588           | 2.3     | 5               | 1.5     |
| Electrical                             | 1,577          | 1,567         | 6.2     | 10              | 3.0     |
| Industrial                             | 205            | 203           | 0.8     | 2               | 0.6     |
| Materials and metallurgy               | 499            | 496           | 2.0     | 3               | 0.9     |
| Mechanical                             | 953            | 950           | 3.8     | 3               | 0.9     |
| Other                                  | 746            | 736           | 2.9     | 10              | 3.0     |

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2001.

TABLE F-16. Primary source of support for U.S.-citizen and permanent-resident S&E doctorate recipients, by sex and doctorate field: 1997–2001  
(Percent)

| Sex and primary source of support                   | All S&E | Sciences | Agricultural sciences | Biological sciences | Computer sciences | Earth, atmospheric, and ocean sciences | Mathematics | Physical sciences | Psychology | Social sciences | Engineering |
|---|---------|----------|-----------------------|---------------------|-------------------|--|-------------|-------------------|------------|-----------------|-------------|
| All recipients (number)                             | 87,588  | 73,318   | 2,518                 | 21,169              | 2,450             | 2,666                                  | 2,998       | 11,364            | 15,940     | 14,213          | 14,270      |
| Personal/family funds                               | 24.5    | 26.2     | 23.9                  | 13.4                | 26.2              | 16.8                                   | 14.0        | 8.8               | 50.9       | 36.0            | 16.0        |
| Loans   | 6.2     | 7.1      | 3.6                   | 2.1                 | 1.9               | 1.9                                    | 1.4         | 1.1               | 20.4       | 8.0             | 1.6         |
| Savings   | 1.4     | 1.5      | 1.7                   | 0.6                 | 2.7               | 1.4                                    | 0.7         | 0.4               | 2.3        | 2.7             | 1.3         |
| Other earnings in graduate school                   | 8.8     | 8.9      | 10.9                  | 4.4                 | 14.4              | 8.4                                    | 5.7         | 2.9               | 13.4       | 15.1            | 8.1         |
| Other family earnings or savings                    | 8.1     | 8.7      | 7.7                   | 6.4                 | 7.3               | 5.2                                    | 6.3         | 4.4               | 14.9       | 10.3            | 5.1         |
| Teaching assistantship                              | 15.2    | 16.8     | 6.4                   | 11.3                | 10.5              | 13.4                                   | 51.8        | 20.4              | 13.1       | 22.4            | 7.0         |
| Research assistantship, traineeship, and internship | 31.3    | 28.7     | 46.4                  | 38.9                | 31.9              | 41.2                                   | 10.8        | 49.2              | 14.4       | 11.2            | 44.5        |
| Research assistantship                              | 28.5    | 25.7     | 46.0                  | 32.3                | 31.0              | 40.0                                   | 9.9         | 47.8              | 11.7       | 10.3            | 42.9        |
| Traineeship   | 2.6     | 2.8      | 0.3                   | 6.4                 | 0.7               | 1.0                                    | 0.9         | 1.3               | 2.1        | 0.9             | 1.4         |
| Internship or residency                             | 0.2     | 0.2      | 0.1                   | 0.2                 | 0.2               | 0.2                                    | 0.1         | 0.1               | 0.6        | 0.1             | 0.2         |
| Fellowship/scholarship and dissertation grant       | 19.3    | 19.4     | 11.5                  | 29.0                | 14.9              | 20.7                                   | 16.7        | 14.0              | 10.6       | 21.7            | 18.6        |
| Fellowship/scholarship                              | 18.5    | 18.6     | 10.5                  | 27.6                | 14.5              | 19.1                                   | 16.5        | 13.7              | 10.5       | 21.0            | 17.9        |
| Dissertation grant                                  | 0.7     | 0.7      | 1.0                   | 1.3                 | 0.4               | 1.6                                    | 0.2         | 0.4               | 0.1        | 0.8             | 0.7         |
| Employer reimbursement or assistance                | 2.9     | 2.0      | 4.2                   | 1.5                 | 8.4               | 2.3                                    | 1.4         | 1.8               | 1.5        | 2.2             | 7.2         |
| Foreign   | 0.3     | 0.2      | 1.1                   | 0.2                 | 0.5               | 0.3                                    | 0.2         | 0.1               | 0.1        | 0.4             | 0.7         |
| Other   | 0.8     | 0.8      | 0.6                   | 1.0                 | 1.0               | 0.8                                    | 0.5         | 0.6               | 0.8        | 0.8             | 1.1         |
| Unknown   | 5.7     | 5.9      | 5.9                   | 4.7                 | 6.7               | 4.5                                    | 4.5         | 5.1               | 8.6        | 5.4             | 4.9         |
| Female (number)                                     | 35,221  | 32,801   | 829                   | 9,647               | 512               | 816                                    | 883         | 2,816             | 10,760     | 6,538           | 2,420       |
| Personal/family funds                               | 29.8    | 31.1     | 21.0                  | 13.7                | 32.6              | 13.5                                   | 15.9        | 8.8               | 52.0       | 37.2            | 12.4        |
| Loans   | 8.6     | 9.2      | 3.6                   | 1.9                 | 2.5               | 1.6                                    | 1.1         | 1.0               | 20.5       | 8.1             | 1.2         |
| Savings   | 1.4     | 1.5      | 1.3                   | 0.5                 | 1.4               | 1.1                                    | 0.2         | 0.4               | 2.2        | 2.5             | 0.5         |
| Other earnings in graduate school                   | 9.0     | 9.2      | 7.8                   | 4.3                 | 16.0              | 6.6                                    | 4.6         | 2.3               | 12.3       | 15.1            | 5.2         |
| Other family earnings or savings                    | 10.8    | 11.1     | 8.2                   | 7.0                 | 12.7              | 4.2                                    | 9.9         | 5.2               | 17.0       | 11.5            | 5.6         |
| Teaching assistantship                              | 14.5    | 15.1     | 7.1                   | 10.5                | 11.3              | 14.0                                   | 48.8        | 21.1              | 12.3       | 20.9            | 6.4         |
| Research assistantship, traineeship, and internship | 26.4    | 25.1     | 45.6                  | 38.6                | 21.3              | 41.1                                   | 11.3        | 46.4              | 14.3       | 11.3            | 44.0        |
| Research assistantship                              | 22.9    | 21.6     | 44.8                  | 31.3                | 20.3              | 38.8                                   | 10.5        | 44.1              | 11.8       | 10.2            | 40.5        |
| Traineeship   | 3.3     | 3.3      | 0.8                   | 7.1                 | 0.8               | 2.0                                    | 0.7         | 2.2               | 2.1        | 1.0             | 3.2         |
| Internship or residency                             | 0.2     | 0.2      | 0.0                   | 0.1                 | 0.2               | 0.2                                    | 0.1         | 0.0               | 0.5        | 0.1             | 0.2         |
| Fellowship/scholarship and dissertation grant       | 20.6    | 20.1     | 14.7                  | 30.2                | 19.3              | 25.4                                   | 18.0        | 17.1              | 10.5       | 22.4            | 28.2        |
| Fellowship/scholarship                              | 19.8    | 19.2     | 13.6                  | 28.6                | 18.9              | 23.4                                   | 17.8        | 16.7              | 10.3       | 21.5            | 27.0        |
| Dissertation grant                                  | 0.9     | 0.8      | 1.1                   | 1.6                 | 0.4               | 2.0                                    | 0.2         | 0.5               | 0.1        | 0.9             | 1.2         |
| Employer reimbursement or assistance                | 1.7     | 1.5      | 4.7                   | 1.3                 | 6.4               | 1.5                                    | 0.7         | 0.9               | 1.3        | 1.9             | 3.8         |
| Foreign   | 0.2     | 0.2      | 0.6                   | 0.2                 | 0.2               | 0.2                                    | 0.2         | 0.1               | 0.1        | 0.4             | 0.6         |
| Other   | 0.8     | 0.8      | 0.2                   | 1.1                 | 0.8               | 0.4                                    | 0.7         | 0.6               | 0.7        | 0.7             | 0.7         |
| Unknown   | 6.0     | 6.1      | 6.0                   | 4.4                 | 8.0               | 4.0                                    | 4.4         | 5.0               | 8.8        | 5.1             | 4.0         |

TABLE F-16. Primary source of support for U.S.-citizen and permanent-resident S&E doctorate recipients, by sex and doctorate field: 1997–2001  
(Percent)

Page 2 of 2

| Sex and primary source of support                   | All S&E | Sciences | Agricultural sciences | Biological sciences | Computer sciences | Earth, atmospheric, and ocean sciences | Mathematics | Physical sciences | Psychology | Social sciences | Engineering |
|---|---------|----------|-----------------------|---------------------|-------------------|--|-------------|-------------------|------------|-----------------|-------------|
| Male (number)                                       | 52,331  | 40,488   | 1,688                 | 11,517              | 1,936             | 1,849                                  | 2,113       | 8,545             | 5,167      | 7,673           | 11,843      |
| Personal/family funds                               | 21.0    | 22.2     | 25.4                  | 13.2                | 24.5              | 18.3                                   | 13.3        | 8.7               | 48.8       | 35.0            | 16.8        |
| Loans   | 4.5     | 5.3      | 3.6                   | 2.2                 | 1.7               | 2.0                                    | 1.5         | 1.1               | 20.3       | 7.9             | 1.7         |
| Savings   | 1.5     | 1.5      | 1.8                   | 0.7                 | 3.0               | 1.5                                    | 0.9         | 0.4               | 2.6        | 2.9             | 1.4         |
| Other earnings in graduate school                   | 8.7     | 8.7      | 12.4                  | 4.5                 | 13.9              | 9.2                                    | 6.1         | 3.1               | 15.6       | 15.1            | 8.7         |
| Other family earnings or savings                    | 6.3     | 6.7      | 7.5                   | 5.8                 | 5.8               | 5.6                                    | 4.9         | 4.1               | 10.4       | 9.2             | 5.0         |
| Teaching assistantship                              | 15.6    | 18.2     | 6.1                   | 12.1                | 10.3              | 13.1                                   | 53.1        | 20.1              | 14.9       | 23.6            | 7.1         |
| Research assistantship, traineeship, and internship | 34.6    | 31.7     | 46.8                  | 39.2                | 34.8              | 41.3                                   | 10.6        | 50.1              | 14.4       | 11.1            | 44.6        |
| Research assistantship                              | 32.3    | 29.1     | 46.6                  | 33.1                | 33.9              | 40.6                                   | 9.7         | 49.0              | 11.6       | 10.3            | 43.4        |
| Traineeship   | 2.1     | 2.4      | 0.1                   | 5.8                 | 0.7               | 0.6                                    | 0.9         | 1.0               | 2.1        | 0.7             | 1.1         |
| Internship or residency                             | 0.2     | 0.2      | 0.1                   | 0.2                 | 0.2               | 0.2                                    | 0.0         | 0.1               | 0.7        | 0.1             | 0.2         |
| Fellowship/scholarship and dissertation grant       | 18.3    | 18.8     | 9.9                   | 27.9                | 13.7              | 18.7                                   | 16.2        | 13.0              | 10.8       | 21.1            | 16.6        |
| Fellowship/scholarship                              | 17.7    | 18.2     | 9.0                   | 26.8                | 13.4              | 17.3                                   | 16.0        | 12.7              | 10.7       | 20.5            | 16.1        |
| Dissertation grant                                  | 0.6     | 0.7      | 0.9                   | 1.1                 | 0.4               | 1.5                                    | 0.2         | 0.4               | 0.1        | 0.6             | 0.6         |
| Employer reimbursement or assistance                | 3.7     | 2.4      | 3.9                   | 1.6                 | 8.9               | 2.7                                    | 1.7         | 2.1               | 2.1        | 2.4             | 7.9         |
| Foreign   | 0.4     | 0.3      | 1.4                   | 0.1                 | 0.6               | 0.3                                    | 0.2         | 0.1               | 0.0        | 0.4             | 0.7         |
| Other   | 0.9     | 0.8      | 0.7                   | 0.9                 | 1.1               | 1.0                                    | 0.4         | 0.6               | 1.0        | 0.8             | 1.2         |
| Unknown   | 5.5     | 5.6      | 5.9                   | 5.0                 | 6.2               | 4.7                                    | 4.5         | 5.2               | 8.0        | 5.6             | 5.1         |

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1997–2001.

TABLE F-17. Primary source of support for U.S.-citizen and permanent-resident S&E doctorate recipients, by race/ethnicity and doctorate field: 1997–2001  
(Percent)

| Race/ethnicity and primary source of support        | All S&E | Sciences | Agricultural sciences | Biological sciences | Computer sciences | Earth, atmospheric, and ocean sciences | Mathematics | Physical sciences | Psychology | Social sciences | Engineering |
|---|---------|----------|-----------------------|---------------------|-------------------|--|-------------|-------------------|------------|-----------------|-------------|
| All recipients (number)                             | 87,588  | 73,318   | 2,518                 | 21,169              | 2,450             | 2,666                                  | 2,998       | 11,364            | 15,940     | 14,213          | 14,270      |
| Personal/family funds                               | 24.5    | 26.2     | 23.9                  | 13.4                | 26.2              | 16.8                                   | 14.0        | 8.8               | 50.9       | 36.0            | 16.0        |
| Loans   | 6.2     | 7.1      | 3.6                   | 2.1                 | 1.9               | 1.9                                    | 1.4         | 1.1               | 20.4       | 8.0             | 1.6         |
| Savings   | 1.4     | 1.5      | 1.7                   | 0.6                 | 2.7               | 1.4                                    | 0.7         | 0.4               | 2.3        | 2.7             | 1.3         |
| Other earnings in graduate school                   | 8.8     | 8.9      | 10.9                  | 4.4                 | 14.4              | 8.4                                    | 5.7         | 2.9               | 13.4       | 15.1            | 8.1         |
| Other family earnings or savings                    | 8.1     | 8.7      | 7.7                   | 6.4                 | 7.3               | 5.2                                    | 6.3         | 4.4               | 14.9       | 10.3            | 5.1         |
| Teaching assistantship                              | 15.2    | 16.8     | 6.4                   | 11.3                | 10.5              | 13.4                                   | 51.8        | 20.4              | 13.1       | 22.4            | 7.0         |
| Research assistantship, traineeship, and internship | 31.3    | 28.7     | 46.4                  | 38.9                | 31.9              | 41.2                                   | 10.8        | 49.2              | 14.4       | 11.2            | 44.5        |
| Research assistantship                              | 28.5    | 25.7     | 46.0                  | 32.3                | 31.0              | 40.0                                   | 9.9         | 47.8              | 11.7       | 10.3            | 42.9        |
| Traineeship   | 2.6     | 2.8      | 0.3                   | 6.4                 | 0.7               | 1.0                                    | 0.9         | 1.3               | 2.1        | 0.9             | 1.4         |
| Internship or residency                             | 0.2     | 0.2      | 0.1                   | 0.2                 | 0.2               | 0.2                                    | 0.1         | 0.1               | 0.6        | 0.1             | 0.2         |
| Fellowship/scholarship or dissertation grant        | 19.3    | 19.4     | 11.5                  | 29.0                | 14.9              | 20.7                                   | 16.7        | 14.0              | 10.6       | 21.7            | 18.6        |
| Fellowship/scholarship                              | 18.5    | 18.6     | 10.5                  | 27.6                | 14.5              | 19.1                                   | 16.5        | 13.7              | 10.5       | 21.0            | 17.9        |
| Dissertation grant                                  | 0.7     | 0.7      | 1.0                   | 1.3                 | 0.4               | 1.6                                    | 0.2         | 0.4               | 0.1        | 0.8             | 0.7         |
| Employer reimbursement or assistance                | 2.9     | 2.0      | 4.2                   | 1.5                 | 8.4               | 2.3                                    | 1.4         | 1.8               | 1.5        | 2.2             | 7.2         |
| Foreign   | 0.3     | 0.2      | 1.1                   | 0.2                 | 0.5               | 0.3                                    | 0.2         | 0.1               | 0.1        | 0.4             | 0.7         |
| Other   | 0.8     | 0.8      | 0.6                   | 1.0                 | 1.0               | 0.8                                    | 0.5         | 0.6               | 0.8        | 0.8             | 1.1         |
| Unknown   | 5.7     | 5.9      | 5.9                   | 4.7                 | 6.7               | 4.5                                    | 4.5         | 5.1               | 8.6        | 5.4             | 4.9         |
| White (number)                                      | 67,684  | 57,485   | 2,011                 | 16,078              | 1,783             | 2,208                                  | 2,400       | 8,975             | 12,913     | 11,117          | 10,199      |
| Personal/family funds                               | 26.2    | 27.8     | 25.8                  | 14.7                | 27.9              | 17.9                                   | 14.3        | 9.4               | 53.3       | 37.1            | 17.1        |
| Loans   | 6.4     | 7.2      | 3.9                   | 2.2                 | 1.5               | 1.6                                    | 1.1         | 1.1               | 20.6       | 7.8             | 1.6         |
| Savings   | 1.5     | 1.5      | 1.4                   | 0.6                 | 2.6               | 1.4                                    | 0.7         | 0.4               | 2.5        | 2.7             | 1.3         |
| Other earnings in graduate school                   | 9.5     | 9.5      | 11.7                  | 4.8                 | 16.1              | 9.0                                    | 6.0         | 3.1               | 14.1       | 15.7            | 9.0         |
| Other family earnings or savings                    | 8.9     | 9.5      | 8.7                   | 7.1                 | 7.7               | 5.9                                    | 6.5         | 4.9               | 16.1       | 11.0            | 5.3         |
| Teaching assistantship                              | 16.0    | 17.7     | 6.8                   | 12.2                | 9.9               | 14.0                                   | 53.4        | 20.4              | 14.2       | 23.5            | 6.5         |
| Research assistantship, traineeship, and internship | 31.3    | 29.1     | 46.4                  | 39.0                | 31.0              | 40.3                                   | 11.2        | 50.3              | 15.3       | 11.7            | 44.0        |
| Research assistantship                              | 28.4    | 25.9     | 46.1                  | 32.0                | 30.0              | 39.1                                   | 10.1        | 48.8              | 12.5       | 10.7            | 42.2        |
| Traineeship   | 2.7     | 2.9      | 0.2                   | 6.7                 | 0.8               | 1.1                                    | 1.0         | 1.4               | 2.2        | 1.0             | 1.5         |
| Internship or residency                             | 0.2     | 0.3      | 0.0                   | 0.2                 | 0.2               | 0.1                                    | 0.1         | 0.1               | 0.6        | 0.1             | 0.2         |
| Fellowship/scholarship or dissertation grant        | 18.0    | 17.8     | 10.8                  | 27.5                | 15.4              | 20.9                                   | 15.6        | 13.4              | 8.3        | 20.0            | 19.0        |
| Fellowship/scholarship                              | 17.3    | 17.1     | 9.8                   | 26.2                | 15.0              | 19.2                                   | 15.4        | 13.0              | 8.2        | 19.2            | 18.2        |
| Dissertation grant                                  | 0.7     | 0.7      | 1.0                   | 1.3                 | 0.4               | 1.8                                    | 0.3         | 0.4               | 0.1        | 0.8             | 0.7         |
| Employer reimbursement or assistance                | 3.0     | 2.1      | 4.5                   | 1.6                 | 9.1               | 2.4                                    | 1.5         | 1.8               | 1.5        | 2.3             | 8.0         |
| Foreign   | 0.2     | 0.1      | 0.5                   | 0.1                 | 0.2               | 0.2                                    | 0.2         | 0.1               | 0.0        | 0.3             | 0.4         |
| Other   | 0.8     | 0.8      | 0.4                   | 1.0                 | 1.0               | 0.7                                    | 0.4         | 0.5               | 0.8        | 0.8             | 1.1         |
| Unknown   | 4.5     | 4.6      | 4.8                   | 3.8                 | 5.6               | 3.4                                    | 3.3         | 4.0               | 6.6        | 4.3             | 3.8         |

TABLE F-17. Primary source of support for U.S.-citizen and permanent-resident S&E doctorate recipients, by race/ethnicity and doctorate field: 1997–2001  
(Percent)

Page 2 of 4

| Race/ethnicity and primary source of support        | All S&E | Sciences | Agricultural sciences | Biological sciences | Computer sciences | Earth, atmospheric, and ocean sciences | Mathematics | Physical sciences | Psychology | Social sciences | Engineering |
|---|---------|----------|-----------------------|---------------------|-------------------|--|-------------|-------------------|------------|-----------------|-------------|
| Asian/Pacific Islander (number)                     | 9,942   | 7,308    | 202                   | 3,077               | 421               | 223                                    | 343         | 1,389             | 637        | 1,016           | 2,634       |
| Personal/family funds                               | 13.5    | 13.7     | 12.9                  | 7.1                 | 18.3              | 7.2                                    | 14.6        | 4.9               | 40.2       | 28.2            | 12.9        |
| Loans   | 2.2     | 2.6      | 1.0                   | 0.6                 | 0.5               | 1.3                                    | 1.7         | 0.3               | 18.4       | 3.9             | 1.0         |
| Savings   | 1.1     | 1.0      | 2.5                   | 0.6                 | 2.6               | 0.4                                    | 0.6         | 0.5               | 0.8        | 2.8             | 1.2         |
| Other earnings in graduate school                   | 4.8     | 4.5      | 5.4                   | 2.2                 | 9.3               | 3.1                                    | 5.0         | 1.9               | 8.0        | 10.5            | 5.7         |
| Other family earnings or savings                    | 5.4     | 5.6      | 4.0                   | 3.8                 | 5.9               | 2.2                                    | 7.3         | 2.2               | 13.0       | 11.0            | 5.0         |
| Teaching assistantship                              | 14.9    | 17.0     | 5.4                   | 9.2                 | 15.4              | 8.5                                    | 55.7        | 23.7              | 15.1       | 24.5            | 9.0         |
| Research assistantship, traineeship, and internship | 43.4    | 39.5     | 60.9                  | 46.4                | 43.0              | 65.9                                   | 11.4        | 52.4              | 16.2       | 13.6            | 54.1        |
| Research assistantship                              | 40.9    | 36.5     | 60.4                  | 40.7                | 42.3              | 64.6                                   | 10.8        | 51.4              | 13.2       | 13.4            | 53.0        |
| Traineeship   | 2.3     | 2.8      | 0.5                   | 5.6                 | 0.2               | 0.4                                    | 0.6         | 0.9               | 2.7        | 0.1             | 0.9         |
| Internship or residency                             | 0.2     | 0.2      | 0.0                   | 0.1                 | 0.5               | 0.9                                    | 0.0         | 0.1               | 0.3        | 0.1             | 0.2         |
| Fellowship/scholarship or dissertation grant        | 18.5    | 20.9     | 8.4                   | 29.4                | 9.3               | 10.3                                   | 11.7        | 9.6               | 17.4       | 25.2            | 11.8        |
| Fellowship/scholarship                              | 17.9    | 20.2     | 7.4                   | 28.4                | 8.8               | 9.4                                    | 11.4        | 9.5               | 17.3       | 24.4            | 11.5        |
| Dissertation grant                                  | 0.6     | 0.7      | 1.0                   | 1.1                 | 0.5               | 0.9                                    | 0.3         | 0.1               | 0.2        | 0.8             | 0.3         |
| Employer reimbursement or assistance                | 2.2     | 1.4      | 2.0                   | 1.0                 | 6.2               | 0.9                                    | 0.9         | 1.4               | 0.9        | 1.3             | 4.4         |
| Foreign   | 0.7     | 0.4      | 3.0                   | 0.1                 | 1.2               | 0.4                                    | 0.0         | 0.1               | 0.3        | 1.1             | 1.3         |
| Other   | 1.0     | 0.9      | 1.0                   | 1.1                 | 1.0               | 1.3                                    | 0.6         | 1.1               | 0.5        | 0.3             | 1.1         |
| Unknown   | 6.0     | 6.2      | 6.4                   | 5.6                 | 5.7               | 5.4                                    | 5.2         | 6.8               | 9.4        | 5.8             | 5.4         |
| Black (number)                                      | 3,382   | 2,930    | 97                    | 593                 | 69                | 42                                     | 68          | 290               | 845        | 926             | 452         |
| Personal/family funds                               | 26.4    | 28.4     | 17.5                  | 12.0                | 33.3              | 16.7                                   | 11.8        | 8.3               | 40.6       | 36.5            | 13.5        |
| Loans   | 11.8    | 12.9     | 5.2                   | 4.0                 | 15.9              | 9.5                                    | 7.4         | 3.4               | 21.4       | 14.9            | 4.4         |
| Savings   | 1.6     | 1.7      | 1.0                   | 0.5                 | 2.9               | 0.0                                    | 0.0         | 0.0               | 2.1        | 2.8             | 0.9         |
| Other earnings in graduate school                   | 8.8     | 9.4      | 9.3                   | 4.6                 | 10.1              | 7.1                                    | 1.5         | 3.1               | 11.1       | 13.6            | 4.4         |
| Other family earnings or savings                    | 4.3     | 4.3      | 2.1                   | 2.9                 | 4.3               | 0.0                                    | 2.9         | 1.7               | 5.9        | 5.2             | 3.8         |
| Teaching assistantship                              | 9.4     | 10.0     | 6.2                   | 7.1                 | 4.3               | 11.9                                   | 27.9        | 16.9              | 6.3        | 12.5            | 5.8         |
| Research assistantship, traineeship, and internship | 16.5    | 15.4     | 38.1                  | 24.5                | 8.7               | 23.8                                   | 2.9         | 28.3              | 11.6       | 7.7             | 23.9        |
| Research assistantship                              | 14.3    | 13.3     | 37.1                  | 18.5                | 8.7               | 23.8                                   | 2.9         | 27.6              | 9.8        | 6.8             | 21.0        |
| Traineeship   | 2.1     | 2.0      | 1.0                   | 5.9                 | 0.0               | 0.0                                    | 0.0         | 0.7               | 1.7        | 0.8             | 2.7         |
| Internship or residency                             | 0.1     | 0.1      | 0.0                   | 0.0                 | 0.0               | 0.0                                    | 0.0         | 0.0               | 0.1        | 0.1             | 0.2         |
| Fellowship/scholarship or dissertation grant        | 36.8    | 35.7     | 21.6                  | 47.9                | 34.8              | 33.3                                   | 50.0        | 37.9              | 30.9       | 32.2            | 44.2        |
| Fellowship/scholarship                              | 36.0    | 34.9     | 21.6                  | 45.2                | 34.8              | 33.3                                   | 50.0        | 36.6              | 30.8       | 31.9            | 43.6        |
| Dissertation grant                                  | 0.8     | 0.8      | 0.0                   | 2.7                 | 0.0               | 0.0                                    | 0.0         | 1.4               | 0.1        | 0.3             | 0.7         |
| Employer reimbursement or assistance                | 2.6     | 2.3      | 2.1                   | 1.0                 | 5.8               | 7.1                                    | 1.5         | 1.4               | 2.6        | 2.7             | 4.9         |
| Foreign   | 0.3     | 0.2      | 3.1                   | 0.3                 | 1.4               | 0.0                                    | 0.0         | 0.0               | 0.0        | 0.1             | 0.4         |
| Other   | 0.9     | 0.8      | 1.0                   | 0.8                 | 1.4               | 2.4                                    | 0.0         | 1.4               | 0.6        | 0.8             | 1.3         |
| Unknown   | 7.0     | 7.2      | 10.3                  | 6.4                 | 10.1              | 4.8                                    | 5.9         | 5.9               | 7.5        | 7.6             | 6.0         |

TABLE F-17. Primary source of support for U.S.-citizen and permanent-resident S&E doctorate recipients, by race/ethnicity and doctorate field: 1997–2001  
(Percent)

| Race/ethnicity and primary source of support        | All S&E | Sciences | Agricultural sciences | Biological sciences | Computer sciences | Earth, atmospheric, and ocean sciences | Mathematics | Physical sciences | Psychology | Social sciences | Engineering |
|---|---------|----------|-----------------------|---------------------|-------------------|--|-------------|-------------------|------------|-----------------|-------------|
| Hispanic (number)                                   | 3,531   | 3,069    | 121                   | 826                 | 67                | 86                                     | 92          | 329               | 979        | 569             | 462         |
| Personal/family funds                               | 25.9    | 27.6     | 21.5                  | 13.2                | 29.9              | 19.8                                   | 9.8         | 9.7               | 46.2       | 31.8            | 15.2        |
| Loans   | 9.5     | 10.4     | 4.1                   | 3.3                 | 4.5               | 7.0                                    | 2.2         | 2.1               | 22.3       | 8.8             | 3.5         |
| Savings   | 1.3     | 1.4      | 4.1                   | 0.2                 | 3.0               | 2.3                                    | 1.1         | 0.3               | 1.5        | 2.5             | 0.9         |
| Other earnings in graduate school                   | 8.2     | 8.4      | 8.3                   | 4.1                 | 11.9              | 8.1                                    | 2.2         | 4.0               | 11.2       | 13.2            | 6.3         |
| Other family earnings or savings                    | 7.0     | 7.4      | 5.0                   | 5.6                 | 10.4              | 2.3                                    | 4.3         | 3.3               | 11.1       | 7.4             | 4.5         |
| Teaching assistantship                              | 10.9    | 11.6     | 2.5                   | 8.0                 | 11.9              | 11.6                                   | 32.6        | 16.1              | 7.4        | 19.9            | 6.7         |
| Research assistantship, traineeship, and internship | 19.7    | 17.9     | 40.5                  | 27.0                | 25.4              | 20.9                                   | 6.5         | 35.3              | 7.9        | 7.4             | 32.0        |
| Research assistantship                              | 17.6    | 15.8     | 39.7                  | 23.1                | 23.9              | 18.6                                   | 6.5         | 33.4              | 5.8        | 7.0             | 29.9        |
| Traineeship   | 1.9     | 1.9      | 0.0                   | 3.9                 | 1.5               | 2.3                                    | 0.0         | 1.8               | 1.6        | 0.2             | 2.2         |
| Internship or residency                             | 0.2     | 0.2      | 0.8                   | 0.0                 | 0.0               | 0.0                                    | 0.0         | 0.0               | 0.4        | 0.2             | 0.0         |
| Fellowship/scholarship or dissertation grant        | 28.8    | 29.0     | 15.7                  | 42.0                | 11.9              | 34.9                                   | 38.0        | 28.0              | 18.6       | 31.3            | 27.3        |
| Fellowship/scholarship                              | 28.0    | 28.3     | 14.9                  | 40.3                | 11.9              | 34.9                                   | 38.0        | 27.7              | 18.4       | 30.4            | 26.2        |
| Dissertation grant                                  | 0.8     | 0.7      | 0.8                   | 1.7                 | 0.0               | 0.0                                    | 0.0         | 0.3               | 0.2        | 0.9             | 1.1         |
| Employer reimbursement or assistance                | 2.7     | 2.0      | 3.3                   | 1.3                 | 9.0               | 2.3                                    | 2.2         | 3.0               | 2.0        | 0.9             | 7.4         |
| Foreign   | 1.6     | 1.3      | 6.6                   | 1.2                 | 3.0               | 2.3                                    | 1.1         | 1.2               | 0.3        | 1.9             | 3.7         |
| Other   | 1.0     | 0.9      | 2.5                   | 1.0                 | 1.5               | 1.2                                    | 0.0         | 0.3               | 0.9        | 1.1             | 1.5         |
| Unknown   | 9.3     | 9.7      | 7.4                   | 6.3                 | 7.5               | 7.0                                    | 9.8         | 6.4               | 16.8       | 5.8             | 6.3         |
| American Indian/Alaskan Native (number)             | 452     | 395      | 19                    | 71                  | 8                 | 16                                     | 9           | 50                | 123        | 99              | 57          |
| Personal/family funds                               | 28.5    | 28.4     | 0.0                   | 15.5                | 25.0              | 18.8                                   | 11.1        | 18.0              | 40.7       | 36.4            | 29.8        |
| Loans   | 7.7     | 8.1      | 0.0                   | 7.0                 | 12.5              | 0.0                                    | 0.0         | 2.0               | 17.1       | 4.0             | 5.3         |
| Savings   | 2.4     | 2.5      | 0.0                   | 1.4                 | 0.0               | 6.3                                    | 0.0         | 4.0               | 1.6        | 4.0             | 1.8         |
| Other earnings in graduate school                   | 10.6    | 10.4     | 0.0                   | 4.2                 | 12.5              | 12.5                                   | 11.1        | 4.0               | 8.1        | 22.2            | 12.3        |
| Other family earnings or savings                    | 7.7     | 7.3      | 0.0                   | 2.8                 | 0.0               | 0.0                                    | 0.0         | 8.0               | 13.8       | 6.1             | 10.5        |
| Teaching assistantship                              | 8.8     | 10.1     | 10.5                  | 7.0                 | 12.5              | 12.5                                   | 55.6        | 10.0              | 7.3        | 11.1            | 0.0         |
| Research assistantship, traineeship, and internship | 20.6    | 19.7     | 31.6                  | 32.4                | 37.5              | 37.5                                   | 33.3        | 40.0              | 7.3        | 8.1             | 26.3        |
| Research assistantship                              | 18.8    | 18.0     | 31.6                  | 26.8                | 25.0              | 37.5                                   | 33.3        | 38.0              | 6.5        | 8.1             | 24.6        |
| Traineeship   | 1.5     | 1.5      | 0.0                   | 5.6                 | 12.5              | 0.0                                    | 0.0         | 2.0               | 0.0        | 0.0             | 1.8         |
| Internship or residency                             | 0.2     | 0.3      | 0.0                   | 0.0                 | 0.0               | 0.0                                    | 0.0         | 0.0               | 0.8        | 0.0             | 0.0         |
| Fellowship/scholarship or dissertation grant        | 28.1    | 28.9     | 21.1                  | 40.8                | 25.0              | 31.3                                   | 0.0         | 16.0              | 27.6       | 32.3            | 22.8        |
| Fellowship/scholarship                              | 27.4    | 28.4     | 21.1                  | 39.4                | 25.0              | 31.3                                   | 0.0         | 16.0              | 26.8       | 32.3            | 21.1        |
| Dissertation grant                                  | 0.7     | 0.5      | 0.0                   | 1.4                 | 0.0               | 0.0                                    | 0.0         | 0.0               | 0.8        | 0.0             | 1.8         |
| Employer reimbursement or assistance                | 2.9     | 1.8      | 15.8                  | 0.0                 | 0.0               | 0.0                                    | 0.0         | 0.0               | 1.6        | 2.0             | 10.5        |
| Foreign   | 1.5     | 1.3      | 5.3                   | 1.4                 | 0.0               | 0.0                                    | 0.0         | 0.0               | 1.6        | 1.0             | 3.5         |
| Other   | 0.4     | 0.5      | 0.0                   | 0.0                 | 0.0               | 0.0                                    | 0.0         | 0.0               | 1.6        | 0.0             | 0.0         |
| Unknown   | 9.1     | 9.4      | 15.8                  | 2.8                 | 0.0               | 0.0                                    | 0.0         | 16.0              | 12.2       | 9.1             | 7.0         |



TABLE F-17. Primary source of support for U.S.-citizen and permanent-resident S&E doctorate recipients, by race/ethnicity and doctorate field: 1997–2001  
(Percent)

Page 4 of 4

| Race/ethnicity and primary source of support        | All S&E | Sciences | Agricultural sciences | Biological sciences | Computer sciences | Earth, atmospheric, and ocean sciences | Mathematics | Physical sciences | Psychology | Social sciences | Engineering |
|---|---------|----------|-----------------------|---------------------|-------------------|--|-------------|-------------------|------------|-----------------|-------------|
| Other or unknown race/ethnicity (number)            | 2,597   | 2,131    | 68                    | 524                 | 102               | 91                                     | 86          | 331               | 443        | 486             | 466         |
| Personal/family funds                               | 18.3    | 19.8     | 22.1                  | 12.8                | 21.6              | 9.9                                    | 10.5        | 4.5               | 30.0       | 31.3            | 11.6        |
| Loans   | 4.4     | 5.2      | 1.5                   | 1.5                 | 2.9               | 2.2                                    | 1.2         | 0.3               | 13.5       | 7.0             | 0.6         |
| Savings   | 1.3     | 1.2      | 2.9                   | 0.6                 | 3.9               | 0.0                                    | 0.0         | 0.3               | 1.1        | 2.3             | 1.7         |
| Other earnings in graduate school                   | 7.9     | 8.4      | 13.2                  | 5.9                 | 9.8               | 7.7                                    | 5.8         | 1.5               | 8.6        | 15.0            | 6.0         |
| Other family earnings or savings                    | 4.7     | 5.1      | 4.4                   | 4.8                 | 4.9               | 0.0                                    | 3.5         | 2.4               | 6.8        | 7.0             | 3.2         |
| Teaching assistantship                              | 10.1    | 10.7     | 4.4                   | 7.1                 | 3.9               | 11.0                                   | 29.1        | 14.2              | 6.3        | 15.4            | 6.9         |
| Research assistantship, traineeship, and internship | 21.9    | 19.0     | 27.9                  | 27.1                | 22.5              | 30.8                                   | 7.0         | 38.7              | 6.8        | 5.8             | 35.6        |
| Research assistantship                              | 20.3    | 17.0     | 26.5                  | 21.9                | 22.5              | 29.7                                   | 7.0         | 38.4              | 5.0        | 5.1             | 35.0        |
| Traineeship   | 1.5     | 1.7      | 1.5                   | 5.2                 | 0.0               | 0.0                                    | 0.0         | 0.3               | 0.9        | 0.6             | 0.4         |
| Internship or residency                             | 0.2     | 0.2      | 0.0                   | 0.0                 | 0.0               | 1.1                                    | 0.0         | 0.0               | 0.9        | 0.0             | 0.2         |
| Fellowship/scholarship or dissertation grant        | 17.1    | 17.6     | 14.7                  | 26.0                | 17.6              | 20.9                                   | 20.9        | 13.6              | 6.5        | 20.8            | 14.6        |
| Fellowship/scholarship                              | 16.6    | 17.1     | 13.2                  | 25.2                | 17.6              | 18.7                                   | 20.9        | 13.3              | 6.5        | 20.0            | 14.2        |
| Dissertation grant                                  | 0.5     | 0.6      | 1.5                   | 0.8                 | 0.0               | 2.2                                    | 0.0         | 0.3               | 0.0        | 0.8             | 0.4         |
| Employer reimbursement or assistance                | 2.2     | 1.5      | 2.9                   | 1.1                 | 6.9               | 0.0                                    | 0.0         | 1.2               | 0.7        | 2.1             | 5.2         |
| Foreign   | 0.4     | 0.3      | 0.0                   | 0.2                 | 0.0               | 0.0                                    | 1.2         | 0.0               | 0.2        | 0.6             | 1.1         |
| Other   | 1.0     | 1.0      | 1.5                   | 1.1                 | 1.0               | 1.1                                    | 2.3         | 1.2               | 0.5        | 0.8             | 1.3         |
| Unknown   | 29.0    | 30.1     | 26.5                  | 24.6                | 26.5              | 26.4                                   | 29.1        | 26.6              | 49.0       | 23.3            | 23.8        |

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1997–2001.

TABLE F-18. Primary source of support for U.S.-citizen and permanent-resident S&amp;E doctorate recipients, by disability status: 1997–2001

(Percent)

| Primary source of support                           | All recipients | No disability | With disability |
|---|----------------|---------------|-----------------|
| All recipients (number)                             | 87,588         | 86,175        | 1,413           |
| Personal/family funds                               | 24.5           | 24.2          | 40.8            |
| Loans   | 6.2            | 6.1           | 11.4            |
| Savings   | 1.4            | 1.4           | 3.9             |
| Other earnings in graduate school                   | 8.8            | 8.7           | 14.7            |
| Other family earnings or savings                    | 8.1            | 8.1           | 10.8            |
| Teaching assistantship                              | 15.2           | 15.2          | 13.7            |
| Research assistantship, traineeship, and internship | 31.3           | 31.5          | 20.0            |
| Research assistantship                              | 28.5           | 28.7          | 17.6            |
| Traineeship   | 2.6            | 2.6           | 1.9             |
| Internship or residency                             | 0.2            | 0.2           | 0.4             |
| Fellowship/scholarship and dissertation grant       | 19.3           | 19.3          | 17.1            |
| Fellowship/scholarship                              | 18.5           | 18.6          | 16.4            |
| Dissertation grant                                  | 0.7            | 0.7           | 0.6             |
| Business or employer funds                          | 2.9            | 2.9           | 3.3             |
| Foreign   | 0.3            | 0.3           | 0.1             |
| Other   | 1.4            | 1.4           | 3.4             |
| Unknown   | 5.7            | 5.7           | 2.4             |

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 1997–2001.

TABLE F-19. Location and type of postgraduate activity for U.S.-citizen and permanent-resident S&E doctorate recipients with definite postgraduate plans, by sex: 2001

(Percent distribution)

| Location and type of postgraduate activity | Both sexes | Female | Male  |
|--|------------|--------|-------|
| All recipients (number)                    | 11,601     | 4,684  | 6,917 |
| United States                              | 96.4       | 96.8   | 96.0  |
| Academic employment                        | 22.3       | 25.0   | 20.5  |
| Postdoctoral study                         | 39.3       | 42.6   | 37.1  |
| Industry employment                        | 22.1       | 15.5   | 26.6  |
| Other <sup>a</sup>                         | 12.7       | 13.7   | 11.9  |
| Abroad                                     | 3.3        | 2.8    | 3.6   |
| Location unknown                           | 0.3        | 0.3    | 0.3   |

<sup>a</sup>Includes government, nonprofit, and other or unknown.

SOURCE: National Science Foundation, Division of Science Resources Statistics, Survey of Earned Doctorates, 2001.