

## NATIONAL ENDOWMENT FOR THE

 IIUMANTHES

## Survey of Earned Doctorates



SPONSORED BY THE NATIONAL SCIENCE FOUNDATION, THE NATIONAL INSTITUTES OF HEALTH, THE U.S. DEPARTMENT OF EDUCATION, THE NATIONAL ENDOWMENT FOR THE HUMANITIES, THE U.S. DEPARTMENT OF AGRICULTURE, AND THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

## HIGHLIGHTS

This report presents data on recipients of research doctorates awarded by U.S. universities from July 1, 1999, through June 30, 2000. This information is taken from the 2000 Survey of Earned Doctorates (SED), an annual census of new doctorate recipients.

- The 406 universities in the United States conferring research doctorates during the 1999-2000 academic year (the eligibility period for the 2000 SED) awarded a total of 41,368 doctorates. This compares to 41,060 doctorates awarded in 1999 (an increase of 0.8 percent), and marks the seventh consecutive year that the total number of new research doctorates has exceeded 41,000 .
- The number of doctorates awarded in 2000 was greatest in the life sciences, which conferred 8,529 Ph.D.s. The numbers in the other broad areas were 7,115 in social sciences; 6,420 in education; 6,077 in the physical sciences and mathematics (combined); 5,634 in the humanities; 5,330 in engineering; and 2,263 in business and other professional fields.
- Women received a total of 18,121 doctorates, or 43.8 percent of all doctorates granted in 2000. This is the highest percentage ever for women, continuing a 30-year upward trend. The proportions of doctorates earned by women in each of the broad fields of study increased to all-time highs. Women earned 46.9 percent of the doctorates granted in life sciences, 54.6 percent in social sciences, 50.3 percent in humanities, 64.9 percent in education, and 41.8 percent in business/other professional fields. In the physical sciences and engineering, they constituted 24.2 percent and 15.8 percent, respectively.
- Over 16 percent of all doctorates awarded to U.S. citizens in 2000 were earned by U.S. racial/ethnic minority groups. This is the largest percentage ever, and continues a steady upward trend. Among the 27,300 doctorates earned in 2000 by U.S. citizens who identified their race/ethnicity ( 97.9 percent of all U.S. citizen doctorates), 1,656 doctorates were earned by blacks, 1,157 were earned by Hispanics, 1,407 were earned by Asians, and 169 were earned by American Indians. The broad fields with the largest percentages of minorities were education, in which blacks were the predominant minority group, and engineering, in which Asians were predominant.
- Of the individuals who reported their citizenship status ( 95.4 percent of all doctorate recipients), U.S. citizens received 70.6 percent of all doctorates earned in 2000 . One half ( 49.4 percent) of the doctorates earned by U.S. citizens were awarded to women. The percentage of doctorates earned by U.S. citizens ranged from the lows of 44.1 percent in engineering and 56.2 percent in the physical sciences, to the highs of 89.3 percent in education and 81.7 percent in the humanities.
- A total of 11,597 doctorates (29.4 percent) were earned by non-U.S. citizens. The largest number of non-U.S. citizen doctorate recipients were from the People's Republic of China $(2,594)$, followed by Korea with 1,048, India with 985, Taiwan with 936, and Canada with 514.
- Median time to degree since receipt of the baccalaureate was 10.3 years in 2000 , slightly down from 1999 (10.4 years), 1998 (10.4 years), and 1997 (10.5 years). Median time to degree since first enrollment in any graduate program was 7.4 years in 2000, also slightly lower than 1999, 1998, and 1997 (7.3 years in all three years).
- Most of the 2000 doctorate recipients (61.1 percent) received the majority of their financial support for graduate education from such program- or institution-based sources as university fellowships or teaching and research assistantships. One-half (49.3 percent) of the 2000 doctorate recipients reported no educational indebtedness at completion of the Ph.D.; 15.1 percent reported cumulative education debt levels of $\$ 30,000$ or more.
- About 71 percent of the new Ph.D.s had definite postgraduation commitments for employment or continued study when they completed the SED questionnaire. Of those, 71.3 percent will work and 28.7 percent will continue their studies as postdoctorates. For U.S. citizens, 52.1 percent of those with firm employment commitments noted higher education as their intended work sector. About one-fifth (19.9 percent) indicated industry or self-employment; 8.6 percent said some level of government; the remaining 19.4 percent indicated various other types of employment.


# Doctorate Recipients from United States Universities: Summary Report 2000 

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## NOTICE

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NSF publications from the Survey of Earned Doctorates and the Doctorate Records File are available free on request (see inside back cover). Standardized tables on baccalaureate origins of Ph.D.s by major field of doctorate and trend tables on citizenship, race/ethnicity, and sex of Ph.D.s by fine field of doctorate are available for a fee. Customized tables can also be prepared at cost. For more information, please contact:

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This report is available on the NORC web-site: http://www.norc.uchicago.edu/issues/docdata.htm. Reports on science and engineering doctorates can be found on the National Science Foundation's web-site:
http://www.nsf.gov/sbe/srs/sengdr/start.htm.

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## *** IMPORTANT NOTICE ***

The estimates reported for the Survey of Earned Doctorates (SED) are simple tabulations of all available information, with no adjustment for nonresponse. Therefore, differences in response rates from year to year can produce numerical fluctuations that may not be related to real trends.

Although response to the SED has been as high as 95 to 98 percent over time, it declined to 92 percent during the 1980s. In an effort to improve the response rate, the survey methodology was modified in the years after 1989. Response rose, stabilizing around 95 percent from 1991 to 1995 . The rates have declined somewhat since then, to 92.8 percent in 1996; 91.4 percent in 1997; and 91.9 percent in 1998, 1999, and 2000. See appendix C for a table giving survey response rates from 1967 to 2000. (Note: These percentages represent self-report rates, that is, the proportion of questionnaires completed by research doctorate recipients. While survey forms containing partial information filled in by either the doctoral institution or the survey contractor are not included in these rates, tables in this report incorporate the available data from these sources.)

Item response rates have shown a pattern of improvement since 1990-a natural consequence of the increase in the overall self-report rate, as well as a result of format revisions to the questionnaire and follow-ups for missing information. In 1990, new follow-up procedures were implemented to increase coverage of several variables: birth year, sex, race/ethnicity, citizenship status, country of citizenship, baccalaureate year and institution, and postgraduation plans. Response rates for these variables have since improved-especially for citizenship and race/ethnicity, resulting in an increase in the reported numbers of minority Ph.D.s. Whether or not individuals completed the survey questionnaire, the following four data items are available for most all recipients: sex, Ph.D. institution, Ph.D. field of specialization, and Ph.D. year.

The data for a given year are updated the following year with any responses received after survey closure. Postsurvey adjustment was most significant for 1990 and 1991 Ph.D.s, with the largest impact on the number of blacks. For both of these years, the total number of black Ph.D.s increased by about 7.5 percent in the year after survey closure. The survey cycle was then extended to allow receipt of more follow-up information before closure, resulting in much smaller postsurvey adjustments after 1991. But some completed questionnaires and revised information on doctorate recipients typically are still received after the annual closure deadline, and universe counts and item response rates change accordingly. Adjustments to data are presented in reports subsequent to the initial report for a survey. For example, updates for 1999 appear in Summary Report 2000. Updates to 2000 data will be presented in next year's report.

# DOCTORATE RECIPIENTS FROM UNITED STATES UNIVERSITIES: SUMMARY REPORT 2000 

## Introduction

Doctorate Recipients from United States Universities: Summary Report 2000 is the thirty-fourth in a series of reports on research doctorates awarded by colleges and universities in the United States. ${ }^{1}$ The data presented in this report are from the annual Survey of Earned Doctorates (SED), a census of research doctorate recipients who earned their degrees between July 1, 1999, and June 30, 2000. This survey, conducted since 1958, is sponsored by six Federal agencies: the National Science Foundation, the National Institutes of Health, the U.S.
Department of Education, the National Endowment for the Humanities, the U.S. Department of Agriculture, and the National Aeronautics and Space Administration. All survey responses become part of the Doctorate Records File (DRF), a virtually complete database on research doctorate recipients from 1920 to 2000. The overall response rate for the 2000 survey was 92 percent. ${ }^{2}$

## Organization

Summary Report 2000 begins by reviewing overall trends in research doctorates awarded by U.S. universities and continues by discussing trends in the seven broad fields in which research doctorate recipients earn their degrees. Trends in doctorate awards by sex, race/ethnicity, citizenship, parental education, and time to degree are also described. The report concludes with a discussion of the sources of financial support during graduate school, and the postgraduation status and plans of doctorate recipients.

Figures displaying selected trend data accompany the brief narratives of key survey findings. The numbers and percentages from which the figures are drawn are contained in a set of tables following the main text. A reference at the bottom of each figure indicates the

[^0]corresponding table number. Basic tables of statistics for the 2000 research doctorate recipients are shown in appendix A, and trend tabulations for the previous ten-year period (1990 to 2000) are presented in appendix B. Appendix C provides technical notes, including response rates, and other information related to tables and figures in the report. Appendix D is the SED questionnaire for the 2000 academic year. Appendix E lists field of study classifications and research degree titles included in the SED.

## Related Publications

The methodology of the SED 2000 survey is described in detail in the annual Survey of Earned Doctorates Quality Profile Report: 2000. This report is posted on the National Science Foundation, Division of Science Resources Statistics (SRS) web site (http://www.nsf.gov/sbe/srs/ssed/sedmeth.htm). The NSF also publishes an annual volume of tabulations using the SED data, Science and Engineering Doctorate Awards: 2000 that is available from NSF-SRS in printed form or on the NSF-SRS web site. Copies of the annual Summary Report from previous years are available on both the NSF-SRS web site and the NORC web site (http://www.norc.uchicago.edu/issues/docdata.htm).

## Trends in Doctorate Recipients

The primary respondents to the Survey of Earned Doctorates are the actual research doctorate recipients ${ }^{3}$ from all U.S. universities. These individuals are identified each year by the universities and the information is transmitted to the SED data collection contractor (NORC at the University of Chicago has been the contractor since 1997). The lists of new doctorate recipients are carefully checked and edited by the data collection contractor working closely with the universities over the course of the SED eligibility year, and for a period of several months after the end of the eligibility period. The result of this process is a remarkably comprehensive picture of the universe of new doctorate recipients each year. Thus, these data provide a solid basis for charting trends in the numbers and characteristics of this important population.

## Overall Trends and Rates of Change

For the twelve-month period ending June 30, 2000, U.S. universities awarded 41,368 research doctorate degrees, compared with 41,060 for the previous year (see table 1). This was a percentage increase from 1999 to 2000 of 0.8 percent. For the last 40 years, the increase in the number of doctorates awarded by U.S. universities has averaged 3.8 percent per year.

Between 1961 - when the number of annual doctorates awarded exceeded 10,000 for the first time - and 1967, the annual growth rate was almost 12 percent, and the number of doctorates awarded virtually doubled $(20,403)$. Only four years later, in 1971, the annual total topped $30,000(31,867)$ for the first time. The number of doctorate degrees annually awarded during the decades of the 1970s and 1980s remained fairly stable at about 30,000 degrees awarded each year. In 1986 a second period of growth began that continued through the early 1990s. The total figure did not exceed 40,000 until 1994 (41,034), 23 years after it had reached the 30,000 mark. Over the past few years, the annual rates of increase have become smaller than they were in the first half of the decade of the 1990s, including gains of only 0.3 percent for 1997

[^1]and 0.2 for 1998. The total number of doctorates declined in 1999 from the previous year for the first time in fourteen years. The total rebounded somewhat in 2000, but was still at about the level of 1994. (See figures 1 and 2.)

Figure 1. Doctorates awarded by U.S. colleges and universities, 1957-2000


Figure 2. Annual growth or decline in doctorates awarded by U.S. colleges and universities, 1957-2000


See Table 1.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

## Doctorate-granting Institutions, Doctorate Recipients per Institution, and Geographical Distribution

The SED closely monitors the universe of doctorate-granting institutions and makes a strong effort to include all accredited institutions recognized by the U.S. Department of Education. Newly-identified institutions granting one or more of the doctorates listed in appendix E are contacted by the SED data collection contractor and included in the SED universe as soon as they award a recognized research doctorate. The full list of institutions granting doctorates in the 2000 academic year is included in appendix table A-7.

During the 2000 academic year, 406 universities in the United States and Puerto Rico awarded at least one research doctorate. This number is the highest number of institutions ever recorded in the SED, and reflects a trend of fairly steady increases in the number of doctorategranting institutions from the early 1960s (175 in 1962). (See table 2.)

The mean number of doctorates awarded per institution in 2000 was 102; the median was 40.5. (See table 2 for the mean and median numbers of doctorates awarded per institution from 1962 to 2000.) As the substantial difference between the mean and the median suggests, a relatively small number of institutions grant a disproportionately large number of doctorates. Just 48 institutions granted 50 percent of all doctoral degrees in 2000. Eighteen institutions accounted for 25 percent of all doctorate degrees granted; the second quartile contained 30 institutions, the third quartile included 55 universities; and the remaining 303 institutions together accounted for the final 25 percent of doctorates. ${ }^{4}$

The University of California-Berkeley granted the largest number of doctorates, 751, or 1.8 percent of all doctorates awarded, followed by the University of Wisconsin-Madison (728) and the University of Minnesota-Twin Cities (684). The fourth largest was the University of Texas-Austin (656), which was the largest U.S. doctorate-granting institution in 1999 with almost 100 more graduates than it had in 2000. In 1999 and 2000, the top 10 institutions granted 15.6 percent of all doctorates. (See table 3.)

California universities led the nation by awarding 4,706 doctorates, or 11.4 percent of all doctorates in 2000. New York institutions granted the next highest number of doctorates $(3,528)$, followed by institutions in Texas $(2,545)$, Illinois $(2,181)$, Massachusetts $(2,104)$,

[^2]Pennsylvania $(2,101)$, Florida $(1,889)$, and Ohio $(1,795)$. These eight states accounted for more than half - 56.8 percent - of all doctorates awarded in 2000. (See figure 3 and table 4.)

Figure 3. Top 20 doctorate granting states, 2000


See Table 4.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

## Doctorates by Broad Field

The SED classifies research doctorate degrees into approximately 290 fields of specialization (these are listed on pages 8 and 9 of the questionnaire included in appendix D). Since fields of specialization are dynamic entities which reflect the evolving programs of researchers and their constituencies, the SED list is reviewed each year to identify emerging fields and periodically revised to accommodate changes in the world of doctoral education. The SED is able to collect information on the specialization fields of virtually all the new doctorates each year; coverage in 2000 was attained for all but 5 of the 41,368 doctorate recipients.

For presentation purposes here, the fields of specialization are grouped into seven broad fields: physical sciences, ${ }^{5}$ engineering, life sciences, ${ }^{6}$ social sciences (including psychology),

[^3]humanities, education, and a heterogeneous group of professional and other fields (including business, communications, social work, and theological programs). The numbers of graduates in all fields are included in appendix tables A-1, A-2, and B-1.

The number of doctorates granted in 2000 for each of the seven broad fields, by the largest institutions, are shown in table 3. The University of California-Berkeley awarded the most doctorates (146) in the physical sciences. The Massachusetts Institute of Technology (MIT) granted the most engineering doctorates (198), while the University of WisconsinMadison led all universities in the life sciences (211) and the University of California-Berkeley topped the list for social science doctorates (128). Also, the University of California-Berkeley granted the largest number of doctorates in the humanities (140), while Nova Southeastern University had the highest total in both education (396) and the heterogeneous "professional/other" category (79).

The numbers of doctorates awarded by broad field were also concentrated in a relatively small number of institutions. While the top 10 degree-granting universities awarded 15.6 percent of all doctorates in 2000, the concentration was higher in six of the seven broad fields: 18.0 percent in the physical sciences, 28.0 percent in engineering, 17.8 percent in the life sciences, 21.3 percent in the humanities, 20.3 percent in education, and 18.9 percent in the professional/other category. Only in the social sciences was the concentration lower than the overall average ( 14.2 percent). (Derived from table 3.)

Turning to the trend data (see appendix table B-1), the overall increase of 0.8 percent in doctorates awarded between the 1999 and 2000 academic years was a result of increases in some fields offsetting the declines in others. The life sciences, humanities, and social sciences showed increases of 4.7, 2.9, and 1.1 percent, respectively. Physical sciences registered the largest percentage drop of 4.1 percent. Engineering, education, and professional/other saw smaller decreases. The life sciences, with 8,529 doctorates, remained the largest single broad field, as it has since 1988.

Compared with five years ago (1995), when the total number of doctorates awarded was approximately the same as it was in 2000, professional/other, engineering, and the physical sciences showed large decreases: 15.1 percent, 11.3 percent, and 10.7 percent lower in 2000 than in 1995, respectively. (See figure 4.) Humanities registered the largest percentage increase from 1995 to 2000, with 11.3 percent more degrees awarded in 2000 than five years earlier. The
life sciences ( +7.7 percent) and social sciences ( +7.2 percent) were also higher in 2000; education was 3.4 percent lower. (See table 5 and figures 4 and 5.)

Figure 4. Science and engineering doctorates awarded by broad field, 1970-2000


Figure 5. Humanities, education, and professional/ other fields doctorates awarded, 1970-2000


See Table 5.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

The four broad fields that together constitute "science and engineering" (S\&E) - physical sciences, life sciences, and social sciences, plus engineering - represented 65.4 percent of all doctorates awarded in 2000. Ten years ago (1990), they accounted for approximately the same percentage of all doctorates ( 65.0 percent), but compared with 25 years ago (1975), the S\&E fields represent a larger percentage of total degrees in 2000 than in 1975 ( 57.5 percent). (See table 5.) Less than half a percent change is seen in these combined S\&E fields between 1999 and 2000 or between 1995 and 2000.

Of the 25 subfields included in table 5, 14 experienced declines in the number of doctorates awarded between 1999 and 2000 (see appendix table B-1 for the 1999 totals). Subfields in the education category, teacher education (11.0 percent) and teaching fields (7.1 percent), saw larger declines, while smaller declines were seen in the physical sciences. The largest gains were within the S\&E category, in the subfields of sociology (+13.3 percent) and health sciences (+12.7 percent) between the 1999 and 2000 academic years. Comparing 1995 with 2000, 11 of the 25 subfields had larger absolute numbers of doctorates in 2000, and 14 had smaller numbers; within S\&E fields in these same two years, 7 subfields had larger totals in 2000 than in 1995, and 8 had smaller ones. For both the one-year and five-year comparisons within S\&E, the physical sciences and engineering categories displayed the largest declines, while the life sciences and social sciences showed the biggest gains. (See figure 6.)

Figure 6. Distribution of doctorate recipients by broad field, 1970 and 2000


See Table 5.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

## Doctorates by Sex

The aggregate increase in doctorates between 1999 and $2000-0.8$ percent - reflects a 1.0 percent decline for males and a 1.3 percent increase for females. The numbers of doctorates awarded to men in 2000 fell by 245, while 657 more women received doctorates in 2000 than in 1999. The net effect is that for 2000, females received 43.8 percent of all doctorates, up from 42.5 percent in 1999 , which had been the highest percentage ever for women. ${ }^{7}$ This marks the fifth consecutive year in which the representation of female doctorate recipients has exceeded 40 percent. Five years ago (1995), females constituted 39.3 percent of all doctorate recipients; 10 years ago (1990), that percentage was 36.3 and 25 years ago (1975), it was 21.9 percent. (See figure 7 and table 7.)

Figure 7. Doctorate recipients by sex, 1990-2000


See Appendix Tables B-2b and B-2c.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

With respect to the distribution of doctorates by sex across broad fields of study, women constituted 64.9 percent of all education doctorates for 2000, the majority in the social sciences

[^4]( 54.6 percent), and half in the humanities ( 50.3 percent). By contrast, the representation of females among doctorate recipients in the physical sciences and engineering for 2000 was only 24.2 percent and 15.8 percent, respectively (figure 8 ). However, even these still-low percentages have shown remarkable change over time: 25 years ago, when females were only 21.9 percent of all doctorate recipients, they constituted just 8.3 percent and 1.7 percent in the physical sciences and engineering, respectively. Similar long-term trends are discernible in other broad fields as well: in the life sciences, from 19.8 percent in 1975 to 46.9 percent in 2000; 25.1 percent to 54.6 percent in the social sciences over that same period; and from 33.4 percent in the humanities in 1975 to the current 50.3 percent. (See figure 8 and table 7.)

Figure 8. Percent of female doctorate recipients, by broad field, 1970, 1980, 1990, 2000


See Table 7.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

In 2000, females represented 37.7 percent of S\&E doctorate recipients and 55.5 percent of degrees in non-S\&E fields. With respect to finer field distinctions, of the 25 selected subfields listed in table 6 , women were the majority of doctorate recipients in seven fields and constituted at least 40 percent of the doctorate population in five more areas. In 10 of the 25 fields, the percentage increase in female doctorate recipients between 1990 and 2000 was over 40 percent.

## Doctorates by Race/Ethnicity

While the total number of doctorates rose between 1999 and 2000 by 0.8 percent, the aggregate number of minority doctorate recipients increased by 2.5 percent for U.S. citizens. Within minority race/ethnic categories, Asians and blacks showed the largest percentage gains, 6.4 percent and 3.9 percent, respectively; the corresponding figure for Hispanics was 0.5 percent. American Indians were the only minority group to register a decrease in the number of doctorates from 1999 to 2000, falling from 217 to 169 . By comparison, the number of white doctorate recipients remained almost unchanged. (See appendix table B-2a.)

A total of 4,389 doctorates were awarded to members of U.S. racial/ethnic minority groups in 2000. This figure is, as noted above, 2.5 percent higher than one year earlier; it is also 25.1 percent higher than the total five years earlier (1995) and nearly double the number for 1990 (86.0 percent higher). The figures in the first panel of table 8 generally indicate that doctorates awarded to U.S. minority groups increased much more in the 1990's than the 1980's. The twenty-year gains were greater for Asians (207 percent), Hispanics (177 percent), and American Indians (125 percent) than for blacks (61 percent). (See figures 9 and 10 and table 8.)

Figure 9: Doctorates awarded to minority U.S. citizens, by race/ethnicity, 1980-2000


[^5]Figure 10. Percentage of doctorates earned by minority U.S. citizens, 1980 and 2000


## See Table 8.

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates
U.S. minorities registered sizable gains from 1995 to 2000 in all seven broad fields, ranging from a 5.6 percent increase in engineering to a 46.3 percent increase in the humanities (table 8). Over that same period, the number of doctorates awarded to whites fell by 4.2 percent. Thus, the minority gains between 1995 and 2000 represent a growing minority share of the total number of doctorates awarded to U.S. citizens. (See figure 11 and table 9.)

Figure 11. Percentage of doctorates earned by minority U.S. citizens, by broad field, 2000


[^6]Within racial/ethnic groupings, the trends for the broad fields shown in table 8 indicate that the overall pattern for minorities generally holds for the separate minority groups within the seven broad fields. One exception is that the number of Asian doctorate recipients in engineering grew rapidly from 1980 to 1995 , but leveled off from 1995 to 2000. The general pattern, however, was one of relatively small increases from 1980 to 1990 followed by large increases from 1990 to 2000. (See table 8.)

The balance of male and female doctorate recipients differs between racial/ethnic groups. Among U.S. citizens, of doctorates earned by whites, 48.4 percent were awarded to women; for blacks, various Hispanic groups, and American Indians, women were in the majority, earning between 51.0 percent and 65.7 percent of doctorates received by persons of those races or ethnicities. Among Asian Americans, women were 45.9 percent of the total. (See figure 12 and appendix table A-4.)

Figure 12. Percentage of doctorates earned by minority U.S. citizens, by sex, 2000


See Appendix Tables B-2b and B-2c.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 10 lists the universities that awarded the largest number of doctorates to members in each of the four minority groups between 1996 and 2000, and the absolute number granted. Over that interval, three California institutions - Berkeley, UCLA, and Stanford - and two in

Massachusetts - Harvard and MIT - awarded more than 1,000 doctorates $(1,126)$ to Asian Americans, or 17.9 percent of all doctorates awarded by U.S. universities to Asian Americans. Nova Southeastern University and Howard University awarded, by far, the most doctorates to blacks (287 and 241, respectively), 7.1 percent of all the doctorates granted to this racial category. In general, the leading institutions awarding doctorates to Hispanics lie in the Southwest, including California, and in Puerto Rico. Lastly, Oklahoma State University and the University of Oklahoma grant the largest number of doctorates to American Indians.

The concentration of U.S. minority doctorate recipients among institutions is considerably greater than for the doctoral population as a whole. In 2000, for example, the leading 10 universities granted 15.6 percent of all doctorates. But over the 1996-2000 period, the 10 universities awarding the most degrees to minority students in each of the four groupings accounted for nearly 20 percent of those totals. The top 10 institutions that awarded doctorates to Asians in table 10 granted 27.5 percent of all Asian doctorates between 1996 and 2000; for blacks the corresponding figure is 19.7 percent; for Hispanics it was 23.1 percent, and for American Indians it was 19.6 percent. (See table 10.)

## Doctorates by Citizenship

The SED collects information on the citizenship status and country of citizenship of the new doctorate recipients each year. ${ }^{8}$ Of the 2000 doctorate recipients with known citizenship status ( 96.5 percent of the total), 70.6 percent were U.S. citizens, 5.0 percent were non-U.S. citizens permanent residents with visas for the United States, and 24.4 percent were non-U.S. citizens in the U.S. on temporary visas. (See table 11.)

With regard to broad field of study, of the doctoral population with known citizenship status, U.S. citizens earned more than 80 percent of the doctorates awarded in the social sciences, humanities, and education ( 80.8 percent, 81.7 percent, and 89.3 percent, respectively) in 2000. (See table 11.) In absolute numbers, U.S. citizens earned more doctorates in education than in

[^7]any of the other broad fields; permanent residents had their highest total in the life sciences, and for those in the United States on temporary visas, engineering was the most popular field.

The convergence of male and female representation in the doctoral cohorts is particularly striking for U.S. citizens. In 2000, 49.4 percent of all doctorates awarded to U.S. citizens went to women, up from 47.9 percent in 1999 and continuing a long-term trend of U.S. women approaching parity with their male counterparts. For example, in 1990, among U.S. citizens, women earned 43.1 percent of all doctorates. In the 1990s while the number of doctorates going to U.S. males was relatively level, the number earned by U.S. women increased every year except 1999. (See appendix tables A-4 and B-2.)

Among permanent residents earning doctorates in 2000, 41.6 percent were female, and among those doctorate recipients holding temporary visas, only 29.1 percent were female (appendix table A-4). Women holding temporary visas are more concentrated in the S\&E fields of study than women who are U.S. citizens. While women with temporary visas represented 15.5 percent of all female doctorates in 2000, they earned 30.1 percent of the doctorates granted to females in the physical sciences, 36.0 percent of the female-earned doctorates in engineering, and 21.0 percent of the doctorates earned by females in the life sciences (appendix table A-3c).

Citizens of the People's Republic of China (PRC) ${ }^{9}$ earned 2,594 doctorates in 2000, or 6.3 percent of the total 41,368 degrees awarded. (See table 12 for a listing of the top 30 countries of origin of non-U.S. citizen doctorate recipients.) The top 15 countries in terms of the number of doctorates awarded to its citizens in 1999 remained the same for 2000, although Korea moved from third to second on the list, changing places with India, and a few other nations changed modestly in the rankings as well. The leading five countries accounted for 14.7 percent of all doctorates awarded by U.S. universities in 2000. Only 5.3 percent of the total doctoral population are citizens of next 10 nations listed in table 12, and only 3.1 percent are citizens of the next 15 nations. Doctoral students who are citizens of one of the 30 nations shown in the table thus account for 23.1 percent of the 41,368 doctorates awarded in 2000.

Table 13 lists the institutions awarding the largest numbers of doctorates to non-U.S. citizens in 2000; table 14 provides a complementary ranking - those institutions awarding the largest percentage of doctorates relative to the total number of Ph.D.s they granted.

[^8]
## Doctorates by Parental Education Background

Since 1963, the SED has asked new doctorate recipients to report their fathers' and mothers' levels of educational attainment. For purposes here, the responses are grouped into three categories: high school diploma or less; some college, including earning the baccalaureate; and advanced degree, including the master's, doctorate, or a professional degree. While only the data for 2000 are described here, analysis of the historical record would be a useful subject for further research on the social origins of the doctorate population.

The 2000 data (see table 15) show that 30.9 percent of recipients' fathers had only earned a high school diploma or less; the corresponding figure for their mothers was 40.2 percent. Slightly over one-third ( 35.0 percent) of doctorate recipients had a father who had gone to college (but may not have earned a baccalaureate degree); 39.2 percent of the mothers of doctorate recipients in 2000 had some college background. Finally, for 34.1 percent of the doctorate recipients, the father held an advanced degree, compared with 20.6 percent whose mothers had an advanced degree.

Although similar in general, parental education backgrounds of male and female 2000 doctorate recipients differed with respect to mothers' education. Female doctorate recipients were more likely than their male counterparts to have a mother who attended college or who earned an advanced degree.

There is considerable variation in parental education attainment by race/ethnicity, citizenship status, and broad field of study. Compared with other racial/ethnic categories, Asian American doctorate recipients were more likely to come from families in which both the father and mother had advanced degrees; black, Hispanic and American Indian recipients' parents were the least likely to have gone beyond high school. U.S. citizen doctorate recipients were more likely than those with either permanent residency status or holding temporary visas to have parents with advanced degrees (and less likely than these two groups to have parents whose formal education did not extend beyond the high school level).

The distributions of parental education by the broad fields in table 15 reflect, in part, the different race/ethnic and citizenship compositions of the fields. Doctorate recipients in the humanities displayed the highest percentages of both fathers ( 42.2 percent) and mothers ( 25.3 percent) with advanced degrees. Education doctorate recipients had the lowest percentages of advanced degrees by fathers or mothers, 20.7 percent and 12.0 percent, respectively. These two
broad fields are also the least and most represented, respectively, with regard to the fraction of parents whose formal education stopped at high school or before.

## Time to Degree

The amount of time needed to complete a doctorate is a key concern not only for those pursuing the degree, but also for the faculties and administrations of the degree-granting institutions, as well as national public agencies and private organizations that support doctoral study. Time to degree is likely to be affected by individual preferences and economic constraints, as well as by the labor markets and cultures of the academic disciplines and institution-specific program characteristics.

The SED measures time to degree in three ways: (1) the total time elapsed from completion of the baccalaureate to completion of the doctorate, (2) the total time elapsed while actually registered in graduate school to completion of the doctorate, and (3) the simple age of the doctorate recipients at the time the doctorate is awarded. In this section, the 2000 data and the historical trends for each of these measures is reviewed for the whole population of doctorate recipients and, separately, by broad field and the background variables of sex, race/ethnicity, and citizenship.

The median total time span from baccalaureate to doctorate for the 2000 doctorate recipients was 10.3 years (table 16), nearly the same as in 1999. The total time span was shortest in the physical sciences ( 8.0 years) and longest in education (19.4 years). The latter broad field includes large numbers of individuals who have worked full-time before starting their graduate degree programs, and who even continue to work full-time while earning their doctorates.

The historical data in table 16 show that the 2000 median total time to degree was about 6 months shorter than in 1995. The long-term trend has been one of increases in length from 1975 to 1995 (see figure 13 and table 16). The broad fields of engineering, physical sciences, life sciences, social sciences, humanities, and education follow this overall pattern toward shorter times; but median time to degree for the professional/other fields increased from 1995 to 2000.

Figure 13. Median number of years to doctorate from baccalaureate award and age at doctorate, 1975-2000


See Table 16.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

The median duration of being registered in graduate school was 7.4 years for the 2000 doctorates (table 16), nearly identical to the number for 1999. Registered time to degree was shortest in the physical sciences and engineering ( 6.8 years), and longest in the humanities ( 8.8 years) (table 16). The trend for time registered is one of small but steady increases over the 25year span from 1975 to 2000 (see figure 13 and table 16) for all seven broad fields, with some flattening in the past five years.

The median time to degree indices vary somewhat by sex, citizenship, and race/ethnicity, but these differences are mainly reflections of the broad field differences reviewed above (table 17). Across the whole population of new doctorate recipients, females had longer total and registered times to degree than did males, but the sex differences disappear, or reverse, when males and females are compared within specific broad fields other than humanities and education. Similar patterns hold for comparisons of U.S. and non-U.S. citizens, and of the U.S. racial/ethnic groups (see table 17).

The third measure of time to degree compiled in the SED is age at doctorate. The median ages of the 2000 doctorate recipients are tabulated in appendix tables A-3 by major field of degree and A-4 by citizenship and race/ethnicity. Overall, the median age at receipt of the doctorate in 2000 was 33.6 years. Again, age at degree varies with field of study. Doctorate recipients in the S\&E fields typically earn their degrees in their early 30s; the median for all 2000 doctorate recipients in the S\&E fields was 31.9 years old. In contrast, age at doctorate was 34.8 years in the humanities, 44.4 years in education, and 37.8 years in the professional/other fields category. (See appendix table A-3a and table 18). The modal age spans evident in figure 14 and table 18 reflect this ordering.

Figure 14. Age distribution at doctorate by broad field of study, 2000


See Table 18.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

## Financial Resources in Support of Doctorate Recipients, Including Indebtedness

The SED asks two questions that, taken together, provide information on the financial sources of support utilized by the new doctorate recipients (for the exact formats and wordings, see the copy of the questionnaire in Appendix D). The first question is a checklist of 13 different potential sources of support, such as fellowships and scholarships, dissertation grants, teaching and research assistantships, and various personal arrangements. The second question asks which of the checked sources was the primary source of support and which was the second most important. For purposes here, respondents are grouped in terms of their primary sources of support. The 13 sources are combined into the seven categories that form the rows in table 19 .

Three in five -61.1 percent - of the 2000 doctorate recipients received the majority of their support for doctoral study from program- or institution-based sources, such as teaching assistantships, research assistantships/traineeships, and fellowships/dissertation grants. ${ }^{10}$ About one third ( 32.2 percent) of all 2000 doctorate recipients reported that their own resources (which include funds from loans, one's spouse, savings, and non-academic employment) were the primary sources they used to finance their doctoral studies. Foreign government, employer contributions, and "other" sources accounted for the remaining 6.6 percent of the cases. (See figure 15 and table 19.)

[^9]Figure 15. Primary sources of financial support for doctorate recipients, 2000


See Table 19.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Overall, women were more dependent upon personal resources than were men (40.5 percent versus 25.7 percent). The same was true for U.S. citizens ( 40.4 percent) compared to foreign citizens on permanent or temporary visas ( 22.7 percent and 10.2 percent, respectively). However, sources of support vary considerably by field of study. For example, within the physical sciences, a much higher than average percentage of new doctorate recipients reported program- or institution-based programs as primary sources of support ( 86.0 percent).

In engineering, 77.5 percent of the research doctorate recipients in 2000 listed teaching/research assistantships or fellowships as their principal form of support, as did 76.0 percent of those in the life sciences. In contrast, only 58.4 percent of doctorate recipients in the humanities, 52.9 percent of those in the social sciences, and 20.0 percent of those in education reported these categories as the primary sources of financial support for their doctoral program.

The gender differences and contrasts between U.S. and non-U.S. citizens reflect these differences among the broad fields. Nonetheless, in all the broad fields of study except engineering and humanities, new women doctorates were more likely to depend on their own resources than new men doctorates (table 19). Similarly, non-U.S. citizens tend to be more concentrated in fields where the majority of doctoral students receive institution- and/or
program-based support. Reflecting this concentration, non-U.S. citizens reported lower percentages of reliance on their own resources than did U.S. citizens. The differences were much smaller within the broad fields of study than overall, but U.S. citizens were still more likely to rely on their own resources than non-U.S. citizens (table 19).

Differences in the various modes of financial support are also apparent with regard to race/ethnicity. Black doctorate recipients indicated the greatest reliance on their own resources to finance their doctoral program ( 47.0 percent), followed by American Indians ( 44.7 percent), whites ( 40.4 percent), Hispanics ( 39.6 percent), and Asians ( 20.7 percent). Within most of the broad fields of study, the race/ethnicity differences in reliance on own resources diminish. Some large race/ethnic differences within fields are found, however, in terms of use of the different types of program- and institution-based supports. In the physical sciences and engineering, Asians and whites were more likely than blacks and Hispanics to rely on teaching and research assistantships and less likely to have fellowships or dissertation grants as their primary source of support.

The SED also asks the new doctorate recipients to indicate the amount of money they owe that is directly tied to their undergraduate or graduate education. This is defined as debt related to tuition and fees, living expenses and supplies, and transportation to and from school. The response categories begin with "none" and proceed upward in \$5,000 increments, with " $\$ 30,001$ or more" at the top. ${ }^{11}$ A total of 37,513 (91 percent) graduates responded to the question.

Almost half ( 49.3 percent) of the respondents in 2000 reported having no educationrelated debt, and another 22.6 percent reported cumulative debt of $\$ 15,000$ or less (table 20). However, a distinct bulge at the high end of the debt distribution is also evident, with 15.1 percent of all new doctorate recipients reporting debt over $\$ 30,000$.

Looking at the debt distributions within each of the seven broad fields, graduates in the physical sciences, engineering, education, and the life sciences are most likely to complete the doctorate with no education-related debt (table 20). Social scientists and humanities graduates are more likely to have debt. Debt levels in excess of $\$ 30,000$ or more are most common among

[^10]social scientists ( 27.2 percent), graduates in the professional/other fields areas ( 18.5 percent), and the humanities (17.9 percent).

The pattern of debt levels for the main demographic groups are shown in table 21. Particularly noteworthy in these tabulations is the much higher incidence of blacks, Hispanics, and American Indians incurring high levels of education-related debt. Three in ten (30.0 percent) of black doctorate recipients, 23.5 percent of American Indians, and 23.2 percent of Hispanics owed more than $\$ 30,000$; these figures compare to 11.1 percent of Asians and 16.6 percent of whites owing that much. At the other extreme, Asians and whites are much more likely than the other groups to have no education-related debt upon completion of the doctorate.

Slight differences are observed in the debt level pattern between the sexes. New female doctorates were more likely to have some debt than their male counterparts ( 51.9 percent vs. 49.8 percent). Among new doctorates, U.S. citizens were more likely to incur higher education related debt than graduates with permanent or temporary visas ( 57.7 percent, vs. 34.9 percent, and 33.3 percent, respectively).

## Postgraduate Plans, Employment, and Location

The SED questionnaire includes a number of questions about the graduates' immediate plans for work or further study. ${ }^{12}$ The responses provide a useful overview of the numbers planning to enter academic positions, government and industry, and postdoctoral programs of research and further study. Information is also collected on the main types of work activities research, teaching, administration, and professional services to individuals - that the graduates anticipate in their new positions.

Three aspects of postgraduation plans are examined in this report. The first is whether the new doctorate recipient has a definite commitment for employment or a postdoctoral position. These data are examined by broad field of study, sex, citizenship, and race/ethnicity (tables 22 and 23). The second aspect is the distribution of graduates with definite commitments for career employment versus postdoctorate research and study programs. This distribution is also examined separately by broad field of study, sex, citizenship, and race/ethnicity (tables 24 and 25), as well as by visa status and anticipated location (foreign versus U.S.) for non-U.S. citizens (tables 26 and 27). The third aspect is the distribution of graduates across employment sectors, broken down by sex, race/ethnicity, and citizenship status (table 28).

## Definite versus Indefinite Plans

Seven in ten ( 71.1 percent) of all doctorate recipients in 2000 reported having definite commitments for employment or postdoctoral study or research. This rate is consistent with those for recent years, but somewhat lower than the rates in the 1980s (table 22). With the notable exception of the humanities, the percentages with definite commitments in 2000 vary little by broad field. In the humanities, only 61.5 percent have a definite commitment.

The percentages with definite commitments also differed little among demographic groups (table 23). About three percent fewer women than men ( 69.4 versus 72.5 percent) had definite plans. U.S. citizens were more likely to have definite commitments ( 72.9 percent) than

[^11]individuals with permanent (62.1 percent) or temporary visas (67.7 percent). Among U.S. citizens and permanent residents, whites, American Indians, and Hispanics were more likely to have definite plans than blacks and Asians.

## Career Employment versus Postdoctorates

Among the doctoral recipients reporting definite plans, the majority (71.3 percent) indicated that they plan to enter career employment as opposed to pursuing further study within a postdoctoral research or teaching program (table 24). Postdoctorate study was more common among graduates in the life sciences ( 60.5 percent) and the physical sciences ( 45.3 percent) than in the other broad fields. Although percentages of new doctorate recipients entering postdoctorate study programs has increased in all of the broad fields since 1980, decreases are evident between 1995 and 2000 (table 24) in the life sciences, the physical sciences, and engineering.

Differences among demographic subgroups are shown in table 25 . Men were slightly more likely than women to have definite plans for postdoctorate study ( 30.4 versus 26.4 percent). Students with temporary visas were more likely than permanent residents and U.S. citizens to pursue postdoctorate studies (the student visa allows the student to remain in the U.S. for two years of additional training after completing the doctorate). Among U.S. citizens and permanent residents, Asian doctorate recipients were more likely than other race/ethnicity subgroups to plan postdoctorates followed by Hispanic and white recipients, respectively. Black and American Indian doctorate recipients were least likely to report postdoctorates. These differences among citizenship and race/ethnicity subgroups reflect the greater number of postdoctorates in the physical and life sciences, and the greater concentrations of non-U.S. citizens and Asian American students in those fields.

## Postdoctoral Location of Non-U.S. Citizens

As the number of international students earning research doctorates in the United States has steadily increased over the past two decades, so has the tendency for those students to remain in the United States following graduation. Table 26 shows that, among non-U.S. citizens with definite plans for work or study, 92.2 percent of all new doctorate recipients holding permanent visas and 69.9 percent of temporary visa holders indicated that they will remain in the United

States following graduation. The fields with the highest concentrations of new doctorate recipients with temporary visas staying in the United States were chemistry ( 85.7 percent), biology ( 85.4 percent), and computer science ( 84.6 percent); and the lowest concentrations were found in the fields of education ( 27.9 percent), humanities ( 48.7 percent) and social sciences ( 56.2 percent) (table 26). A similar pattern is observed among new doctorate recipients with permanent visa status staying in the United States. The fields with the highest concentrations of new doctorate recipients with permanent visas staying in the United States were mathematics (100 percent), biology ( 96.8 percent), and chemistry ( 96.2 percent) (table 26 ).

The trend shown in table 27 is one of increasing numbers and percentages of new doctorate recipients with temporary visas planning to stay in the United States after receiving their doctorate. In 1980, 39.4 percent of those with temporary visas had firm commitments to positions in the United States. A decade later, 53.9 percent of them had firm commitments to stay in the United States; in 2000, that number had further grown to 69.9 percent.

## Employment Sectors in the United States

Higher education remains the most common destination of the 2000 doctorates with definite commitments within the United States, identified by half ( 51.8 percent) of the 2000 respondent subpopulation (see table 28). The next largest group, 21.1 percent, had commitments to industry or some form of self-employment, and 8.4 percent planned to work for Federal, state, or local government. The historical trends show reductions in academic and in government employment, coupled with an increase in the industry/self-employment sector.

Among 2000 female doctorates, one in seven (14.5 percent) had commitments to industry or some form of self-employment, in comparison to one in four ( 27.5 percent) among their male counterparts. With regard to U.S. racial/ethnic groups, Asians were less likely than others to go immediately into higher education and were more likely than all others to go into industry or self-employment. Industry or self-employment was also the main destination of non-U.S. citizens with definite plans to remain in the United States after graduation.

## DATA TABLES

## 2000 SURVEY OF EARNED DOCTORATES

Table 1. Number of doctorates awarded and annual percentage change in doctorates awarded by U.S. colleges and universities, 1957-2000

| Year | Number of <br> Ph.D.s | Percent <br> Change $^{a}$ | Year | Number of <br> Ph.D.s | Percent <br> Change $^{a}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1957 | 8,611 | 1.1 | 1979 | 31,239 | 1.2 |
| 1958 | 8,773 | 1.9 | 1980 | 31,020 | -0.7 |
| 1959 | 9,213 | 5.0 | 1981 | 31,356 | 1.1 |
| 1960 | 9,733 | 5.6 | 1982 | 31,111 | -0.8 |
| 1961 | 10,413 | 7.0 | 1983 | 31,281 | 0.5 |
| 1962 | 11,500 | 10.4 | 1984 | 31,337 | 0.2 |
| 1963 | 12,728 | 10.7 | 1985 | 31,297 | -0.1 |
| 1964 | 14,325 | 12.5 | 1986 | 31,902 | 1.9 |
| 1965 | 16,340 | 14.1 | 1987 | 32,370 | 1.5 |
| 1966 | 17,949 | 9.8 | 1988 | 33,500 | 3.5 |
| 1967 | 20,403 | 13.7 | 1989 | 34,327 | 2.5 |
| 1968 | 22,937 | 12.4 | 1990 | 36,067 | 5.1 |
| 1969 | 25,743 | 12.2 | 1991 | 37,534 | 4.1 |
| 1970 | 29,498 | 14.6 | 1992 | 38,890 | 3.6 |
| 1971 | 31,867 | 8.0 | 1993 | 39,800 | 2.3 |
| 1972 | 33,041 | 3.7 | 1994 | 41,034 | 3.1 |
| 1973 | 33,755 | 2.2 | 1995 | 41,742 | 1.7 |
| 1974 | 33,047 | -2.1 | 1996 | 42,413 | 1.6 |
| 1975 | 32,952 | -0.3 | 1997 | 42,545 | 0.3 |
| 1976 | 32,946 | 0.0 | 1998 | 42,634 | 0.2 |
| 1977 | 31,716 | -3.7 | 1999 | 41,060 | -3.7 |
| 1978 | 30,875 | -2.7 | 2000 | 41,368 | 0.8 |

${ }^{\text {a }}$ From previous year.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 2. Number of doctorates awarded by U.S. colleges and universities and average doctorate recipients per institution, 1962-2000

| Year | Number of doctorate recipients | Number of institutions | Mean number of doctorate recipients per institution | Median number of doctorate recipients per institution |
| :---: | :---: | :---: | :---: | :---: |
| 1962 | 11,500 | 175 | 66 | 26.0 |
| 1963 | 12,728 | 186 | 68 | 27.0 |
| 1964 | 14,325 | 196 | 73 | 27.0 |
| 1965 | 16,340 | 206 | 79 | 33.0 |
| 1966 | 17,949 | 216 | 83 | 32.0 |
| 1967 | 20,403 | 220 | 93 | 39.0 |
| 1968 | 22,937 | 230 | 100 | 43.5 |
| 1969 | 25,743 | 232 | 111 | 51.0 |
| 1970 | 29,498 | 242 | 122 | 55.0 |
| 1971 | 31,867 | 264 | 121 | 45.0 |
| 1972 | 33,041 | 271 | 122 | 49.0 |
| 1973 | 33,755 | 290 | 116 | 42.0 |
| 1974 | 33,047 | 297 | 111 | 38.0 |
| 1975 | 32,952 | 297 | 111 | 43.0 |
| 1976 | 32,946 | 299 | 110 | 43.0 |
| 1977 | 31,716 | 309 | 103 | 39.0 |
| 1978 | 30,875 | 316 | 98 | 35.0 |
| 1979 | 31,239 | 316 | 99 | 38.5 |
| 1980 | 31,020 | 325 | 95 | 37.0 |
| 1981 | 31,356 | 328 | 96 | 40.0 |
| 1982 | 31,111 | 333 | 93 | 34.0 |
| 1983 | 31,281 | 337 | 93 | 35.0 |
| 1984 | 31,337 | 336 | 93 | 38.0 |
| 1985 | 31,297 | 342 | 92 | 35.5 |
| 1986 | 31,902 | 345 | 92 | 35.0 |
| 1987 | 32,370 | 353 | 92 | 37.0 |
| 1988 | 33,500 | 355 | 94 | 35.0 |
| 1989 | 34,327 | 360 | 95 | 36.0 |
| 1990 | 36,067 | 358 | 101 | 42.0 |
| 1991 | 37,534 | 367 | 102 | 38.0 |
| 1992 | 38,890 | 370 | 105 | 42.0 |
| 1993 | 39,800 | 375 | 106 | 42.0 |
| 1994 | 41,034 | 377 | 109 | 43.0 |
| 1995 | 41,742 | 384 | 109 | 42.5 |
| 1996 | 42,413 | 392 | 108 | 43.0 |
| 1997 | 42,545 | 383 | 111 | 45.0 |
| 1998 | 42,634 | 387 | 110 | 44.0 |
| 1999 | 41,060 | 395 | 104 | 42.0 |
| 2000 | 41,368 | 406 | 102 | 40.5 |

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 3. Top 20 doctorate-granting institutions, by broad field of doctorate, 2000

| Institution | Number of doctorates | Institution | Number of doctorates |
| :---: | :---: | :---: | :---: |
| All Fields |  | Physical Sciences ${ }^{\text {a }}$ |  |
| University of California-Berkeley | 751 | University of California-Berkeley | 146 |
| University of Wisconsin-Madison | 728 | Massachusetts Institute of Technology | 130 |
| University of Minnesota-Twin Cities | 684 | University of Michigan-Ann Arbor | 110 |
| The University of Texas at Austin | 656 | University of Wisconsin-Madison | 108 |
| University of Michigan-Ann Arbor | 653 | The University of Texas at Austin | 107 |
| Ohio State University-Main Campus | 609 | University of Illinois at Urbana | 102 |
| University of California-Los Angeles | 604 | Stanford University | 102 |
| University of Illinois at Urbana | 600 | University of California-Los Angeles | 100 |
| Nova Southeastern University | 590 | University of Minnesota-Twin Cities | 96 |
| Stanford University | 567 | University of Arizona | 95 |
| Harvard University | 547 | University of Washington | 94 |
| Pennsylvania State University-Main Campus | 541 | Purdue University-Main Campus | 91 |
| Texas A \& M University | 507 | University of Maryland-College Park | 88 |
| University of Washington | 486 | Columbia University in the City of New York | 87 |
| Purdue University-Main Campus | 470 | Texas A \& M University | 85 |
| University of Maryland-College Park | 460 | Ohio State University-Main Campus | 83 |
| Massachusetts Institute of Technology | 460 | University of Colorado at Boulder | 83 |
| Columbia University in the City of New York | 457 | Cornell University-Endowed Colleges | 80 |
| Cornell University-Endowed Colleges | 449 | University of California-San Diego | 78 |
| Indiana University-Bloomington | 440 | Harvard University | 77 |
| Engineering |  | Life Sciences |  |
| Massachusetts Institute of Technology | 198 | University of Wisconsin-Madison | 211 |
| Stanford University | 181 | Johns Hopkins University | 170 |
| University of Michigan-Ann Arbor | 179 | University of Minnesota-Twin Cities | 168 |
| Georgia Institute of Technology-Main Campus | 159 | University of California-Davis | 157 |
| University of Illinois at Urbana | 141 | Harvard University | 148 |
| University of California-Berkeley | 139 | Ohio State University-Main Campus | 147 |
| Texas A \& M University | 135 | University of North Carolina at Chapel Hill | 133 |
| The University of Texas at Austin | 131 | University of California-Berkeley | 131 |
| Purdue University-Main Campus | 122 | University of Washington | 129 |
| Pennsylvania State University-Main Campus | 110 | Cornell University-Endowed Colleges | 128 |
| University of Wisconsin-Madison | 104 | Texas A \& M University | 124 |
| University of Minnesota-Twin Cities | 91 | University of California-Los Angeles | 124 |
| Northwestern University | 91 | University of Florida | 122 |
| Virginia Polytechnic Institute and State Univ | 86 | Purdue University-Main Campus | 120 |
| Carnegie Mellon University | 82 | University of Michigan-Ann Arbor | 119 |
| University of Maryland-College Park | 81 | Pennsylvania State University-Main Campus | 115 |
| Ohio State University-Main Campus | 79 | Michigan State University | 113 |
| North Carolina State University at Raleigh | 79 | University of Illinois at Urbana | 107 |
| University of Southern California | 79 | University of Pennsylvania | 106 |
| Cornell University-Endowed Colleges | 78 | University of Arizona | 94 |

Table 3. Top 20 doctorate-granting institutions, by broad field of doctorate, 2000 (continued)

| Institution | Number of doctorates | Institution | Number of doctorates |
| :---: | :---: | :---: | :---: |
| Social Sciences ${ }^{\text {b }}$ |  | Humanities |  |
| University of California-Berkeley | 128 | University of California-Berkeley | 140 |
| Harvard University | 117 | Indiana University-Bloomington | 138 |
| University of Chicago | 116 | New York University | 133 |
| The University of Texas at Austin | 101 | University of Chicago | 121 |
| Columbia University in the City of New York | 98 | Columbia University in the City of New York | 114 |
| University of Michigan-Ann Arbor | 96 | Harvard University | 113 |
| Ohio State University-Main Campus | 91 | The University of Texas at Austin | 113 |
| University of Minnesota-Twin Cities | 89 | Yale University | 113 |
| University of California-Los Angeles | 87 | University of California-Los Angeles | 112 |
| Stanford University | 87 | University of Wisconsin-Madison | 106 |
| University of Maryland-College Park | 87 | University of Minnesota-Twin Cities | 104 |
| University of Wisconsin-Madison | 85 | University of Michigan-Ann Arbor | 102 |
| University of Illinois at Urbana | 83 | University of Washington | 95 |
| University of Pennsylvania | 79 | CUNY Graduate School and University Center | 88 |
| University of North Carolina at Chapel Hill | 78 | University of Maryland-College Park | 81 |
| Nova Southeastern University | 78 | University of lowa | 81 |
| University of Georgia | 74 | University of North Carolina at Chapel Hill | 77 |
| Pennsylvania State University-Main Campus | 73 | University of Southern California | 77 |
| Indiana University-Bloomington | 71 | Cornell University-Endowed Colleges | 77 |
| University of Southern California | 71 | University of Pennsylvania | 74 |
| The Fielding Institute | 71 |  |  |
| Education |  | Professional/Other Fields |  |
| Nova Southeastern University | 396 | Nova Southeastern University | 79 |
| Teachers College at Columbia University | 124 | The University of Texas at Austin | 46 |
| University of Sarasota | 112 | Michigan State University | 45 |
| Ohio State University-Main Campus | 105 | University of Wisconsin-Madison | 42 |
| The University of Texas at Austin | 103 | University of Pennsylvania | 39 |
| University of Georgia | 103 | University of Minnesota-Twin Cities | 37 |
| University of Minnesota-Twin Cities | 99 | New York University | 36 |
| Pennsylvania State University-Main Campus | 97 | Arizona State University-Main Campus | 35 |
| Loyola University of Chicago | 86 | Columbia University in the City of New York | 35 |
| University of California-Los Angeles | 82 | Massachusetts Institute of Technology | 35 |
| Temple University | 78 | University of Southern California | 33 |
| Indiana University-Bloomington | 73 | Ohio State University-Main Campus | 31 |
| University of Wisconsin-Madison | 72 | University of Illinois at Urbana | 31 |
| University of Illinois at Urbana | 71 | University of North Carolina at Chapel Hill | 30 |
| Virginia Polytechnic Institute and State Univ | 71 | Pennsylvania State University-Main Campus | 29 |
| University of San Francisco | 71 | Harvard University | 29 |
| Michigan State University | 69 | University of California-Berkeley | 29 |
| Texas A \& M University | 69 | Southwestern Baptist Theological Seminary | 29 |
| Northern Illinois University | 69 | Walden University | 28 |
| University of Virginia-Main Campus | 68 | University of Michigan-Ann Arbor | 28 |

[^12]Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 4. Number of doctorate recipients by state, including the District of Columbia and Puerto Rico, 2000

| Rank | State | Number of doctorates |
| :---: | :---: | :---: |
| 1. | California | 4,706 |
| 2. | New York | 3,528 |
| 3. | Texas | 2,545 |
| 4. | Illinois | 2,181 |
| 5. | Massachusetts | 2,104 |
| 6. | Pennsylvania | 2,101 |
| 7. | Florida | 1,889 |
| 8. | Ohio | 1,795 |
| 9. | Michigan | 1,482 |
| 10. | Indiana | 1,169 |
| 11. | North Carolina | 1,109 |
| 12. | Virginia | 1,039 |
| 13. | Maryland | 954 |
| 14. | Georgia | 936 |
| 15. | New Jersey | 883 |
| 16. | Wisconsin | 869 |
| 17. | Minnesota | 830 |
| 18. | Colorado | 744 |
| 19. | Arizona | 738 |
| 20. | Missouri | 722 |
| 21. | Tennessee | 681 |
| 22. | Washington | 634 |
| 23. | Connecticut | 618 |
| 24. | Louisiana | 609 |
| 25. | lowa | 566 |
| 26. | District of Columbia | 537 |
| 27. | Alabama | 518 |
| 28. | Kansas | 416 |
| 29. | South Carolina | 401 |
| 30. | Oklahoma | 382 |
| 30. | Oregon | 382 |
| 32. | Kentucky | 352 |
| 33. | Mississippi | 351 |
| 34. | Utah | 348 |
| 35. | Nebraska | 297 |
| 36. | New Mexico | 272 |
| 37. | Rhode Island | 242 |
| 38. | Delaware | 184 |
| 39. | Hawaii | 152 |
| 40. | West Virginia | 134 |
| 41. | Puerto Rico | 130 |
| 42. | Arkansas | 129 |
| 43. | Nevada | 115 |
| 44. | Idaho | 99 |
| 45. | New Hampshire | 87 |
| 46. | South Dakota | 79 |
| 47. | Wyoming | 72 |
| 48. | Montana | 65 |
| 48. | Vermont | 65 |
| 50. | North Dakota | 58 |
| 51. | Maine | 49 |
| 52. | Alaska | 20 |

Table 5. Major field of doctorate recipients for selected years, 1970-2000

| Field | 1970 | 1975 | 1980 | 1985 | 1990 | 1995 | 2000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| All Fields | 29,498 | 32,952 | 31,020 | 31,297 | 36,067 | 41,742 | 41,368 |
| Physical Sciences ${ }^{\text {a }}$ | 5,628 | 4,857 | 4,111 | 4,531 | 5,859 | 6,808 | 6,077 |
| Engineering | 3,434 | 3,002 | 2,479 | 3,166 | 4,894 | 6,008 | 5,330 |
| Life Sciences | 4,693 | 5,026 | 5,461 | 5,780 | 6,605 | 7,917 | 8,529 |
| Social Sciences | 4,566 | 6,066 | 5,855 | 5,765 | 6,093 | 6,635 | 7,115 |
| Humanities | 4,278 | 5,046 | 3,872 | 3,429 | 3,822 | 5,061 | 5,634 |
| Education | 5,857 | 7,360 | 7,586 | 6,733 | 6,510 | 6,649 | 6,420 |
| Professional/Other Fields | 1,042 | 1,595 | 1,656 | 1,893 | 2,284 | 2,664 | 2,263 ${ }^{\text {c }}$ |
| Physical Sciences |  |  |  |  |  |  |  |
| Physics \& Astronomy | 1,655 | 1,300 | 983 | 1,080 | 1,393 | 1,652 | 1,392 |
| Chemistry | 2,238 | 1,776 | 1,538 | 1,836 | 2,100 | 2,162 | 1,990 |
| Earth, Atmos., \& Marine Science | 510 | 634 | 628 | 617 | 769 | 807 | 786 |
| Mathematics | 1,225 | 1,147 | 744 | 688 | 892 | 1,190 | 1,048 |
| Computer Sciences ${ }^{\text {b }}$ | - | - | 218 | 310 | 705 | 997 | 861 |
| Engineering | 3,434 | 3,002 | 2,479 | 3,166 | 4,894 | 6,008 | 5,330 |
| Life Sciences |  |  |  |  |  |  |  |
| Biological Sciences | 3,361 | 3,497 | 3,803 | 3,793 | 4,328 | 5,375 | 5,855 |
| Health Sciences | 414 | 462 | 586 | 729 | 956 | 1,330 | 1,589 |
| Agricultural Sciences | 918 | 1,067 | 1,072 | 1,258 | 1,321 | 1,212 | 1,085 |
| Social Sciences |  |  |  |  |  |  |  |
| Psychology | 1,890 | 2,751 | 3,098 | 3,118 | 3,281 | 3,429 | 3,623 |
| Anthropology | 217 | 386 | 370 | 353 | 324 | 375 | 446 |
| Economics | 853 | 895 | 767 | 811 | 862 | 979 | 948 |
| Political Sci./International Rel. | 636 | 862 | 585 | 484 | 559 | 673 | 747 |
| Sociology | 505 | 680 | 600 | 461 | 428 | 540 | 615 |
| Other Social Sciences | 465 | 492 | 435 | 538 | 639 | 639 | 736 |
| Humanities |  |  |  |  |  |  |  |
| History | 1,091 | 1,183 | 745 | 543 | 612 | 889 | 1,060 |
| Amer. \& Eng. Lang. \& Lit. | 1,098 | 1,290 | 952 | 729 | 796 | 1,079 | 1,070 |
| Foreign Lang. \& Lit. | 647 | 826 | 535 | 435 | 512 | 639 | 641 |
| Other Humanities | 1,442 | 1,747 | 1,640 | 1,722 | 1,902 | 2,454 | 2,863 |
| Education |  |  |  |  |  |  |  |
| Teacher Education | 563 | 570 | 639 | 463 | 419 | 390 | 260 |
| Teaching Fields | 1,384 | 1,417 | 1,471 | 1,118 | 922 | 924 | 828 |
| Other Education | 3,910 | 5,373 | 5,476 | 5,152 | 5,169 | 5,335 | 5,332 |
| Professional/Other Fields |  |  |  |  |  |  |  |
| Business \& Management | 584 | 787 | 640 | 790 | 1,036 | 1,327 | 1,071 |
| Communications | 27 | 264 | 270 | 266 | 323 | 380 | 389 |
| Other Professional Fields | 277 | 524 | 724 | 812 | 858 | 931 | 797 |
| Other Fields | 154 | 20 | 22 | 25 | 67 | 26 | 1 |

${ }^{\text {a }}$ Includes mathematics and computer sciences.
${ }^{\mathrm{b}}$ Computer sciences first appeared on the survey form in 1978.
${ }^{\text {c }}$ Includes 5 persons for whom field was unknown.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 6. Doctorate recipients and percent earned by females, by selected subfields, 1990 and 2000

| Subfield | 1990 |  | 2000 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Number of doctorate recipients | Percent doctorate recipients to females | Number of doctorate recipients | Percent doctorate recipients to females |
| All Fields | 36,067 | 36.3 | 41,368 | 43.8 |
| Physical Sciences | 5,859 | 18.3 | 6,077 | 24.1 |
| Physics \& Astronomy | 1,393 | 10.8 | 1,392 | 14.7 |
| Chemistry | 2,100 | 24.0 | 1,990 | 31.4 |
| Earth, Atmos. \& Marine Sci. | 769 | 19.4 | 786 | 30.3 |
| Mathematics | 892 | 17.7 | 1,048 | 24.6 |
| Computer Science | 705 | 15.6 | 861 | 16.5 |
| Engineering | 4,894 | 8.5 | 5,330 | 15.7 |
| Life Sciences | 6,605 | 37.6 | 8,529 | 46.9 |
| Biological Sciences | 4,328 | 37.3 | 5,855 | 44.8 |
| Health Sciences | 956 | 61.9 | 1,589 | 66.9 |
| Agricultural Sciences | 1,321 | 20.7 | 1,085 | 28.8 |
| Social Sciences | 6,093 | 46.4 | 7,115 | 54.5 |
| Psychology | 3,281 | 58.3 | 3,623 | 66.6 |
| Anthropology | 324 | 53.4 | 446 | 56.5 |
| Economics | 862 | 20.1 | 948 | 26.9 |
| Political Sciences \& International Rel. | 559 | 22.0 | 747 | 35.1 |
| Sociology | 428 | 48.4 | 615 | 59.5 |
| Other Social Sciences | 639 | 37.2 | 736 | 44.8 |
| Humanities | 3,822 | 45.7 | 5,634 | 50.2 |
| History | 612 | 33.0 | 1,060 | 38.3 |
| Amer. \& Eng. Lang. \& Lit. | 796 | 55.8 | 1,070 | 58.1 |
| For. Lang. \& Lit. | 512 | 59.4 | 641 | 61.5 |
| Other Humanities | 1,902 | 42.0 | 2,863 | 49.2 |
| Education | 6,510 | 57.6 | 6,420 | 64.9 |
| Teacher Education | 419 | 69.9 | 260 | 72.7 |
| Teaching Fields | 922 | 52.7 | 828 | 60.3 |
| Other Education | 5,169 | 57.5 | 5,332 | 65.2 |
| Professional/Other Fields | 2,284 | 35.6 | 2,263 | 41.7 |
| Business \& Management | 1,036 | 25.6 | 1,071 | 31.7 |
| Communications | 323 | 44.6 | 389 | 53.5 |
| Other Professional Fields | 858 | 42.7 | 797 | 49.3 |
| Other Fields | 67 | 56.7 | 6 | 33.3 |

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 7. Number and percent of doctorate recipients, by sex within broad field for selected years, 1970-2000

| Fields |  | 1970 |  | 1975 |  | 1980 |  | 1985 |  | 1990 |  | 1995 |  | 2000 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | N | \% | N | \% | N | \% | N | \% | N | \% | N | \% | N | \% |
| All Fields | Group Total | 29,498 | 100.0 | 32,952 | 100.0 | 31,020 | 100.0 | 31,297 | 100.0 | 36,067 ${ }^{\text {a }}$ | 100.0 | 41,742 ${ }^{\text {b }}$ | 100.0 | 41,368 ${ }^{\text {c }}$ | 100.0 |
|  | Male | 25,527 | 86.5 | 25,751 | 78.1 | 21,612 | 69.7 | 20,553 | 65.7 | 22,960 | 63.7 | 25,158 | 60.3 | 23,173 | 56.0 |
|  | Female | 3,971 | 13.5 | 7,201 | 21.9 | 9,408 | 30.3 | 10,744 | 34.3 | 13,106 | 36.3 | 16,414 | 39.3 | 18,121 | 43.8 |
| Physical Sciences ${ }^{\text {d }}$ | Group Total | 5,628 | 100.0 | 4,857 | 100.0 | 4,111 | 100.0 | 4,531 | 100.0 | 5,859 | 100.0 | 6,778 | 100.0 | 6,062 | 100.0 |
|  | Male | 5,308 | 94.3 | 4,454 | 91.7 | 3,609 | 87.8 | 3,817 | 84.2 | 4,789 | 81.7 | 5,279 | 77.9 | 4,596 | 75.8 |
|  | Female | 320 | 5.7 | 403 | 8.3 | 502 | 12.2 | 714 | 15.8 | 1,070 | 18.3 | 1,499 | 22.1 | 1,466 | 24.2 |
| Engineering | Group Total | 3,434 | 100.0 | 3,002 | 100.0 | 2,479 | 100.0 | 3,166 | 100.0 | 4,894 | 100.0 | 5,966 | 100.0 | 5,302 | 100.0 |
|  | Male | 3,419 | 99.6 | 2,950 | 98.3 | 2,389 | 96.4 | 2,968 | 93.7 | 4,479 | 91.5 | 5,270 | 88.3 | 4,463 | 84.2 |
|  | Female | 15 | 0.4 | 52 | 1.7 | 90 | 3.6 | 198 | 6.3 | 415 | 8.5 | 696 | 11.7 | 839 | 15.8 |
| Life Sciences | Group Total | 4,693 | 100.0 | 5,026 | 100.0 | 5,461 | 100.0 | 5,780 | 100.0 | 6,605 | 100.0 | 7,875 | 100.0 | 8,521 | 100.0 |
|  | Male | 4,084 | 87.0 | 4,031 | 80.2 | 4,047 | 74.1 | 3,910 | 67.6 | 4,124 | 62.4 | 4,545 | 57.7 | 4,524 | 53.1 |
|  | Female | 609 | 13.0 | 995 | 19.8 | 1,414 | 25.9 | 1,870 | 32.4 | 2,481 | 37.6 | 3,330 | 42.3 | 3,997 | 46.9 |
| Social Sciences | Group Total | 4,566 | 100.0 | 6,066 | 100.0 | 5,855 | 100.0 | 5,765 | 100.0 | 6,093 | 100.0 | 6,613 | 100.0 | 7,106 | 100.0 |
|  | Male | 3,829 | 83.9 | 4,544 | 74.9 | 3,810 | 65.1 | 3,388 | 58.8 | 3,266 | 53.6 | 3,242 | 49.0 | 3,227 | 45.4 |
|  | Female | 737 | 16.1 | 1,522 | 25.1 | 2,045 | 34.9 | 2,377 | 41.2 | 2,827 | 46.4 | 3,371 | 51.0 | 3,879 | 54.6 |
| Humanities | Group Total | 4,278 | 100.0 | 5,046 | 100.0 | 3,872 | 100.0 | 3,429 | 100.0 | 3,822 | 100.0 | 5,053 | 100.0 | 5,629 | 100.0 |
|  | Male | 3,296 | 77.0 | 3,359 | 66.6 | 2,339 | 60.4 | 1,940 | 56.6 | 2,074 | 54.3 | 2,607 | 51.6 | 2,799 | 49.7 |
|  | Female | 982 | 23.0 | 1,687 | 33.4 | 1,533 | 39.6 | 1,489 | 43.4 | 1,748 | 45.7 | 2,446 | 48.4 | 2,830 | 50.3 |
| Education | Group Total | 5,857 | 100.0 | 7,360 | 100.0 | 7,586 | 100.0 | 6,733 | 100.0 | 6,510 | 100.0 | 6,639 | 100.0 | 6,417 | 100.0 |
|  | Male | 4,671 | 79.8 | 5,065 | 68.8 | 4,203 | 55.4 | 3,242 | 48.2 | 2,758 | 42.4 | 2,547 | 38.4 | 2,250 | 35.1 |
|  | Female | 1,186 | 20.2 | 2,295 | 31.2 | 3,383 | 44.6 | 3,491 | 51.8 | 3,752 | 57.6 | 4,092 | 61.6 | 4,167 | 64.9 |
| Professional/Other | Group Total | 1,042 | 100.0 | 1,595 | 100.0 | 1,656 | 100.0 | 1,893 | 100.0 | 2,283 | 100.0 | 2,648 | 100.0 | 2,257 | 100.0 |
|  | Male | 920 | 88.3 | 1,348 | 84.5 | 1,215 | 73.4 | 1,288 | 68.0 | 1,470 | 64.4 | 1,668 | 63.0 | 1,314 | 58.2 |
|  | Female | 122 | 11.7 | 247 | 15.5 | 441 | 26.6 | 605 | 32.0 | 813 | 35.6 | 980 | 37.0 | 943 | 41.8 |

[^13]${ }^{\mathrm{d}}$ Includes mathematics and computer sciences.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 8. Number of U.S. citizen doctorate recipients, by race/ethnicity within broad field for selected years, 1980-2000

| Fields | Race/Ethnicity | 1980 | 1985 | 1990 | 1995 | 2000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| All Fields | Group Total | 25,225 | 23,377 | 24,905 | 27,740 | 27,888 |
|  | Known Race/Ethnicity | 23,977 | 22,865 | 24,531 | 27,433 | 27,300 |
|  | Asian ${ }^{\text {b }}$ | 458 | 517 | 641 | 1,141 | 1,407 |
|  | Black | 1,031 | 912 | 901 | 1,307 | 1,656 |
|  | Hispanic | 417 | 561 | 721 | 912 | 1,157 |
|  | American Indian ${ }^{\text {c }}$ | 75 | 96 | 97 | 148 | 169 |
|  | White | 21,996 | 20,779 | 22,171 | 23,925 | 22,911 |
| Physical Sciences ${ }^{\text {a }}$ | Group Total | 3,072 | 3,051 | 3,408 | 3,653 | 3,260 |
|  | Known Race/Ethnicity | 2,847 | 2,949 | 3,326 | 3,595 | 3,183 |
|  | Asian ${ }^{\text {b }}$ | 75 | 100 | 111 | 223 | 200 |
|  | Black | 25 | 30 | 27 | 52 | 86 |
|  | Hispanic | 27 | 42 | 85 | 86 | 113 |
|  | American Indian ${ }^{\text {c }}$ | 5 | 4 | 5 | 9 | 17 |
|  | White | 2,715 | 2,773 | 3,098 | 3,225 | 2,767 |
| Engineering | Group Total | 1,255 | 1,279 | 1,957 | 2,386 | 2,206 |
|  | Known Race/Ethnicity | 1,173 | 1,224 | 1,918 | 2,337 | 2,153 |
|  | Asian ${ }^{\text {b }}$ | 73 | 90 | 157 | 255 | 247 |
|  | Black | 11 | 19 | 28 | 54 | 76 |
|  | Hispanic | 18 | 16 | 39 | 60 | 68 |
|  | American Indian ${ }^{\text {c }}$ | 3 | 1 | 4 | 9 | 8 |
|  | White | 1,068 | 1,098 | 1,690 | 1,959 | 1,754 |
| Life Sciences | Group Total | 4,416 | 4,467 | 4,609 | 5,001 | 5,508 |
|  | Known Race/Ethnicity | 4,169 | 4,378 | 4,543 | 4,947 | 5,393 |
|  | Asian ${ }^{\text {b }}$ | 102 | 129 | 154 | 264 | 402 |
|  | Black | 65 | 70 | 74 | 158 | 194 |
|  | Hispanic | 36 | 75 | 104 | 143 | 208 |
|  | American Indian ${ }^{\text {c }}$ | 7 | 19 | 9 | 27 | 26 |
|  | White | 3,959 | 4,085 | 4,202 | 4,355 | 4,563 |
| Social Sciences | Group Total | 4,993 | 4,580 | 4,666 | 5,052 | 5,437 |
|  | Known Race/Ethnicity | 4,770 | 4,475 | 4,595 | 5,008 | 5,309 |
|  | Asian ${ }^{\text {b }}$ | 79 | 62 | 86 | 168 | 219 |
|  | Black | 180 | 174 | 182 | 242 | 346 |
|  | Hispanic | 95 | 121 | 171 | 209 | 260 |
|  | American Indian ${ }^{\text {c }}$ | 13 | 18 | 24 | 31 | 40 |
|  | White | 4,403 | 4,100 | 4,132 | 4,358 | 4,444 |
| Humanities | Group Total | $3,396$ | 2,860 | 3,093 | 3,981 | 4,421 |
|  | Known Race/Ethnicity | 3,240 | 2,796 | 3,047 | 3,926 | 4,319 |
|  | Asian ${ }^{\text {b }}$ | 40 | 44 | 35 | 92 | 141 |
|  | Black | 96 | 67 | 72 | 106 | 160 |
|  | Hispanic | 80 | 97 | 112 | 131 | 187 |
|  | American Indian ${ }^{\text {c }}$ | 3 | 8 | 8 | 19 | 21 |
|  | White | 3,021 | 2,580 | 2,820 | 3,578 | 3,810 |
| Education | Group Total | 6,749 | 5,778 | 5,634 | 5,777 | 5,532 |
|  | Known Race/Ethnicity | 6,496 | 5,703 | 5,581 | 5,744 | 5,441 |
|  | Asian ${ }^{\text {b }}$ | 65 | 69 | 67 | 84 | 127 |
|  | Black | 591 | 477 | 456 | 583 | 680 |
|  | Hispanic | 145 | 181 | 179 | 235 | 271 |
|  | American Indian ${ }^{\text {c }}$ | 43 | 40 | 37 | 41 | 51 |
|  | White | 5,652 | 4,936 | 4,842 | 4,801 | 4,312 |
| Professional/Other | Group Total | 1,344 | 1,362 | 1,538 | 1,890 | 1,524 |
|  | Known Race/Ethnicity | 1,282 | 1,340 | 1,521 | 1,876 | 1,502 |
|  | Asian ${ }^{\text {b }}$ | 24 | 23 | 31 | 55 | 71 |
|  | Black | 63 | 75 | 62 | 112 | 114 |
|  | Hispanic | 16 | 29 | 31 | 48 | 50 |
|  | American Indian ${ }^{\text {c }}$ | 1 | 6 | 10 | 12 | 6 |
|  | White | 1,178 | 1,207 | 1,387 | 1,649 | 1,261 |

${ }^{\text {a }}$ Includes mathematics and computer sciences.
${ }^{\mathrm{b}}$ Includes Pacific Islander.
${ }^{\text {c }}$ Includes Alaskan Native.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 9. Major field of U.S. citizen doctorate recipients, by race/ethnicity, 2000

| Field | Total U.S. Citizen Ph.D.s | Number with Known Race/ Ethnicity | U.S. Citizens |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Asian ${ }^{\text {a }}$ | Black | Hispanic | American Indian ${ }^{\text {b }}$ | White |
| All Fields | 27,888 | 27,300 | 1,407 | 1,656 | 1,157 | 169 | 22,911 |
| Physical Sciences | 3,260 | 3,183 | 200 | 86 | 113 | 17 | 2,767 |
| Physics \& Astronomy | 750 | 734 | 54 | 16 | 22 | 2 | 640 |
| Chemistry | 1,116 | 1,089 | 48 | 36 | 48 | 7 | 950 |
| Earth, Atmos., \& Marine Sci. | 494 | 478 | 12 | 7 | 19 | 5 | 435 |
| Mathematics | 513 | 506 | 44 | 14 | 13 | 2 | 433 |
| Computer Sciences | 387 | 376 | 42 | 13 | 11 | 1 | 309 |
| Engineering | 2,206 | 2,153 | 247 | 76 | 68 | 8 | 1,754 |
| Life Sciences | 5,508 | 5,393 | 402 | 194 | 208 | 26 | 4,563 |
| Biological Sciences | 3,895 | 3,809 | 330 | 115 | 154 | 17 | 3,193 |
| Health Sciences | 1,113 | 1,093 | 55 | 67 | 33 | 4 | 934 |
| Agricultural Sciences | 500 | 491 | 17 | 12 | 21 | 5 | 436 |
| Social Sciences | 5,437 | 5,309 | 219 | 346 | 260 | 40 | 4,444 |
| Psychology | 3,146 | 3,085 | 124 | 188 | 187 | 22 | 2,564 |
| Anthropology | 359 | 343 | 9 | 19 | 9 | 5 | 301 |
| Economics | 393 | 384 | 24 | 11 | 12 | - | 337 |
| Political Sci./International Rel. | 577 | 555 | 23 | 38 | 20 | 2 | 472 |
| Sociology | 468 | 460 | 19 | 52 | 23 | 6 | 360 |
| Other Social Sciences | 494 | 482 | 20 | 38 | 9 | 5 | 410 |
| Humanities | 4,421 | 4,319 | 141 | 160 | 187 | 21 | 3,810 |
| History | 910 | 883 | 23 | 37 | 36 | 10 | 777 |
| Amer. \& Eng. Lang. \& Lit. | 952 | 936 | 31 | 44 | 28 | 2 | 831 |
| Foreign Lang. \& Lit. | 434 | 426 | 19 | 5 | 62 | 1 | 339 |
| Other Humanities | 2,125 | 2,074 | 68 | 74 | 61 | 8 | 1,863 |
| Education | 5,532 | 5,441 | 127 | 680 | 271 | 51 | 4,312 |
| Teacher Education | 206 | 204 | 3 | 19 | 10 | 4 | 168 |
| Teaching Fields | 664 | 655 | 27 | 56 | 21 | 5 | 546 |
| Other Education | 4,662 | 4,582 | 97 | 605 | 240 | 42 | 3,598 |
| Professional/Other | 1,524 | 1,502 | 71 | 114 | 50 | 6 | 1,261 |
| Business \& Management | 669 | 657 | 43 | 37 | 19 | 4 | 554 |
| Communications | 286 | 283 | 4 | 20 | 9 | 1 | 249 |
| Other Professional Fields | 568 | 561 | 23 | 57 | 22 | 1 | 458 |
| Other Fields | 1 | 1 | 1 | - | - | - | - |

NOTE: See technical notes in Appendix C for the rate of nonresponse to the survey question on race/ethnicity.
${ }^{\text {a }}$ Includes Pacific Islander.
${ }^{\mathrm{b}}$ Includes Alaskan Native.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 10. Leading doctorate-granting institutions of U.S. minority doctorate recipients, by racial/ethnic group, 1996-2000

| Institution | Number of doctorate recipients | Institution | Number of doctorate recipients |
| :---: | :---: | :---: | :---: |
| Asian ${ }^{\text {a }}$ |  | Black |  |
| University of California-Berkeley | 330 | Nova Southeastern University | 287 |
| University of California-Los Angeles | 311 | Howard University | 241 |
| Stanford University | 197 | University of Michigan-Ann Arbor | 144 |
| Harvard University | 144 | Ohio State University | 139 |
| Massachusetts Institute of Technology | 144 | University of Maryland-College Park | 116 |
| University of Michigan-Ann Arbor | 137 | Virginia Polytechnic Institute and State Univ | 116 |
| University of California-Davis | 125 | Wayne State University | 111 |
| University of Illinois at Urbana-Champaign | 121 | Florida State University | 101 |
| Columbia University in the City of New York | 117 | Temple University | 101 |
| University of Washington-Seattle Campus | 108 | University of Illinois at Urbana-Champaign | 97 |
| University of Southern California | 107 | University of North Carolina-Chapel Hill | 94 |
| Purdue University-Main Campus | 101 | Teachers College at Columbia Univ | 93 |
| University of California-Irvine | 90 | North Carolina State Univ-Raleigh | 93 |
| New York University | 87 | The University of Texas at Austin | 88 |
| University of Pennsylvania | 85 | University of California-Los Angeles | 86 |
| Johns Hopkins University | 84 | Michigan State University | 86 |
| University of Wisconsin-Madison | 83 | Clark Atlanta University | 85 |
| University of Hawaii at Manoa | 82 | Univ of South Carolina-Columbia | 82 |
| Northwestern University | 80 | Harvard University | 81 |
| University of Maryland-College Park | 78 | University of Pennsylvania | 79 |
| Top 20 Institutions | 2,611 | Top 20 Institutions | 2,320 |
| Total Institutions Reported (320) | 6,297 | Total Institutions Reported (327) | 7,394 |
| Hispanic |  | American Indian ${ }^{\text {b }}$ |  |
| The University of Texas at Austin | 202 | Oklahoma State University | 32 |
| University of Puerto Rico-Rio Piedras Campus | 193 | University of Oklahoma | 22 |
| Carlos Albizu University-Puerto Rico | 160 | The University of Texas at Austin | 19 |
| University of California-Berkeley | 146 | University of Washington-Seattle Campus | 19 |
| University of California-Los Angeles | 122 | University of California-Los Angeles | 17 |
| Texas A \& M University | 112 | Nova Southeastern University | 15 |
| Harvard University | 89 | University of Michigan-Ann Arbor | 15 |
| University of New Mexico | 84 | Pennsylvania State University-Main Campus | 15 |
| Stanford University | 84 | Univ of Arkansas Main Campus | 14 |
| University of Michigan-Ann Arbor | 83 | University of Minnesota-Twin Cities | 14 |
| University of Arizona | 80 | University of Georgia | 13 |
| Arizona State University-Main Campus | 79 | University of Wisconsin-Madison | 13 |
| University of Wisconsin-Madison | 79 | Stanford University | 13 |
| Inter American Univ of Puerto Rico-Metro | 76 | University of California-Berkeley | 12 |
| University of California-Davis | 74 | University of Maryland-College Park | 12 |
| Pennsylvania State University-Main Campus | 70 | University of New Mexico | 12 |
| University of Miami | 68 | North Carolina State Univ-Raleigh | 11 |
| University of Southern California | 64 | University of North Dakota | 11 |
| New York University | 63 | Northern Arizona University | 10 |
| University of California-Santa Barbara | 61 | Montana State University-Bozeman Ohio State University | 10 10 |
| Top 20 Institutions | 1,989 | Top 20 Institutions | 309 |
| Total Institutions Reported (318) | 5,513 | Total Institutions Reported (230) | 928 |

[^14]Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 11. Citizenship status of doctorate recipients, by broad field for selected years, 1970-2000

| Field/Citizenship | 1970 | 1975 | 1980 | 1985 | 1990 | 1995 | 2000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total | 29,498 | 32,952 | 31,020 | 31,297 | 36,067 | 41,742 | 41,368 |
| All Fields |  |  |  |  |  |  |  |
| U.S. Citizen | 24,917 | 27,106 | 25,225 | 23,377 | 24,905 | 27,740 | 27,888 |
| Non-U.S., Permanent Visa | 1,576 | 1,713 | 1,290 | 1,324 | 1,698 | 4,318 | 1,949 |
| Non-U.S., Temporary Visa | 2,572 | 3,536 | 3,644 | 5,227 | 8,093 | 8,810 | 9,648 |
| Unknown | 433 | 597 | 861 | 1,369 | 1,371 | 874 | 1,883 |
| Physical Sciences ${ }^{\text {a }}$ |  |  |  |  |  |  |  |
| U.S. Citizen | 4,631 | 3,662 | 3,072 | 3,051 | 3,408 | 3,653 | 3,260 |
| Non-U.S., Permanent Visa | 354 | 349 | 252 | 233 | 293 | 1,169 | 359 |
| Non-U.S., Temporary Visa | 568 | 750 | 688 | 1,066 | 1,939 | 1,850 | 2,161 |
| Unknown | 75 | 96 | 99 | 181 | 219 | 136 | 297 |
| Engineering |  |  |  |  |  |  |  |
| U.S. Citizen | 2,514 | 1,717 | 1,255 | 1,279 | 1,957 | 2,386 | 2,206 |
| Non-U.S., Permanent Visa | 430 | 418 | 299 | 315 | 389 | 956 | 350 |
| Non-U.S., Temporary Visa | 471 | 815 | 851 | 1,419 | 2,277 | 2,524 | 2,444 |
| Unknown | 19 | 52 | 74 | 153 | 271 | 142 | 330 |
| Life Sciences |  |  |  |  |  |  |  |
| U.S. Citizen | 3,766 | 3,925 | 4,416 | 4,467 | 4,609 | 5,001 | 5,508 |
| Non-U.S., Permanent Visa | 242 | 312 | 229 | 190 | 287 | 1,061 | 503 |
| Non-U.S., Temporary Visa | 650 | 689 | 714 | 925 | 1,526 | 1,725 | 2,189 |
| Unknown | 35 | 100 | 102 | 198 | 183 | 130 | 329 |
| Social Sciences |  |  |  |  |  |  |  |
| U.S. Citizen | 3,886 | 5,186 | 4,993 | 4,580 | 4,666 | 5,052 | 5,437 |
| Non-U.S., Permanent Visa | 224 | 214 | 195 | 210 | 245 | 400 | 251 |
| Non-U.S., Temporary Visa | 399 | 546 | 486 | 666 | 911 | 1,023 | 1,039 |
| Unknown | 57 | 120 | 181 | 309 | 271 | 160 | 388 |
| Humanities |  |  |  |  |  |  |  |
| U.S. Citizen | 3,835 | 4,497 | 3,396 | 2,860 | 3,093 | 3,981 | 4,421 |
| Non-U.S., Permanent Visa | 202 | 222 | 136 | 150 | 196 | 336 | 252 |
| Non-U.S., Temporary Visa | 162 | 225 | 206 | 264 | 420 | 648 | 740 |
| Unknown | 79 | 102 | 134 | 155 | 113 | 96 | 221 |
| Education |  |  |  |  |  |  |  |
| U.S. Citizen | 5,540 | 6,807 | 6,749 | 5,778 | 5,634 | 5,777 | 5,532 |
| Non-U.S., Permanent Visa | 72 | 118 | 112 | 130 | 153 | 218 | 124 |
| Non-U.S., Temporary Visa | 201 | 347 | 507 | 570 | 501 | 502 | 541 |
| Unknown | 44 | 88 | 218 | 255 | 222 | 152 | 223 |
| Professional/Other Fields |  |  |  |  |  |  |  |
| U.S. Citizen | 745 | 1,312 | 1,344 | 1,362 | 1,538 | 1,890 | 1,524 |
| Non-U.S., Permanent Visa | 52 | 80 | 67 | 96 | 135 | 178 | 110 |
| Non-U.S., Temporary Visa | 121 | 164 | 192 | 317 | 519 | 538 | 534 |
| Unknown | 124 | 39 | 53 | 118 | 92 | 58 | 95 |

[^15]Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 12. Top 30 countries of origin of non-U.S. citizens earning doctorates at U.S. colleges and universities (ranked by number of doctorate recipients), 2000

| Rank | Country | Number of doctorate recipients | Rank | Country | Number of doctorate recipients |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1. | China, People's Republic of ${ }^{\text {a }}$ | 2,594 | 16. | Italy | 111 |
| 2. | Korea | 1,048 | 17. | Spain | 108 |
| 3. | India | 985 | 18. | Greece | 100 |
| 4. | China, Republic of (Taiwan) | 936 | 19. | Argentina | 95 |
| 5. | Canada | 514 | 20. | Iran | 88 |
| 6. | Turkey | 320 | 20. | Venezuela | 88 |
| 7. | Japan | 297 | L 20. | Egypt | 88 |
| 8. | Germany | 288 | 23. | Saudi Arabia | 84 |
| 9. | Mexico | 248 | 24. | Jordan | 82 |
| 10. | Russia | 235 | 25. | Yugoslavia | 81 |
| 11. | Thailand | 223 | 26. | Indonesia | 74 |
| 12. | Great Britain, UK | 181 | 27. | Malaysia | 73 |
| 13. | Brazil | 171 | 28. | Australia | 71 |
| 14. | France | 121 | 29. | Colombia | 70 |
| 15. | Romania | 118 | 30. | Israel | 65 |

${ }^{\text {a }}$ Includes Hong Kong
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 13. Top 20 institutions in the number of doctorate recipients who were non-U.S. citizens, 2000

|  | Number <br> of doctorate <br> recipients |  | Number <br> of doctorate <br> recipients |
| :--- | :---: | :--- | ---: |
| Institution | 269 | Institution | University of California-Berkeley |
| Ohio State University | 242 | 176 |  |
| University of Illinois at Urbana-Champaign | 223 | University of California-Los Angeles | 176 |
| The University of Texas at Austin | Stanford University | 174 |  |
| University of Minnesota-Twin Cities | 217 | Michigan State University | 174 |
| Purdue University-Main Campus | 215 | Harvard University | 157 |
| Texas A \& M University | 214 | University of Florida | 150 |
| University of Wisconsin-Madison | 208 | 148 |  |
| University of Michigan-Ann Arbor | 200 | University of Maryland-College Park | 148 |
| Cornell University-Endowed Colleges | 199 | Univers University-New Brunswick of Southern California | 147 |
| Pennsylvania State University-Main Campus | 194 | Top 20 institutions | 139 |
|  |  | Total institutions reported (334) | 3,770 |
|  |  |  | 11,597 |

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 14. Top 20 institutions in the percentage of doctorate recipients who were non-U.S. citizens, 2000

| Institution $^{\text {a }}$ | Percent $^{\text {b }}$ | Institution $^{\text {a }}$ | Percent $^{\text {b }}$ |
| :--- | :---: | :--- | ---: |
| New Jersey Institute of Technology |  |  |  |
| Polytechnic University | 82.2 | Rockefeller University | 52.6 |
| Clarkson University | 79.4 | Carnegie Mellon University | 51.9 |
| Illinois Institute of Technology | 78.9 | Mount Sinai School of Medicine | 51.9 |
| Medical College of Ohio | 73.1 | Michigan Technological University | 48.8 |
| Stevens Institute of Tech | 70.8 | lowa State University | 48.7 |
| Worcester Polytechnic Institute | 68.0 | Drexel University | 48.6 |
| University of Missouri-Rolla | 64.7 | Loma Linda University | 46.2 |
| Northeastern University | 64.4 | The University of Texas Health Science Center | 46.0 |
| Rutgers University-Newark | 60.6 | Purdue University-Main Campus | 45.7 |
|  | 56.1 | University of Central Florida | 45.5 |

[^16]Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 15. Parental educational attainment of doctorate recipients, 2000

|  | Percent High School or Less | Percent College | Percent Advanced Degree | Total Percent | Total Number |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Total |  |  |  |  |  |
| Father's Education | 30.9 | 35.0 | 34.1 | 100.0 | 37,405 |
| Mother's Education | 40.2 | 39.2 | 20.6 | 100.0 | 37,506 |
| Sex |  |  |  |  |  |
| Male |  |  |  |  |  |
| Father's Education | 31.5 | 34.7 | 33.8 | 100.0 | 20,980 |
| Mother's Education | 42.1 | 38.0 | 19.8 | 100.0 | 21,028 |
| Female |  |  |  |  |  |
| Father's Education | 30.2 | 35.4 | 34.4 | 100.0 | 16,425 |
| Mother's Education | 37.6 | 40.8 | 21.6 | 100.0 | 16,478 |
| Race/Ethnicity (U.S. citizens only) |  |  |  |  |  |
| Asian ${ }^{2}$ |  |  |  |  |  |
| Father's Education | 23.2 | 30.1 | 46.7 | 100.0 | 1,338 |
| Mother's Education | 36.2 | 37.5 | 26.3 | 100.0 | 1,343 |
| Black 100.0 |  |  |  |  |  |
| Father's Education | 56.0 | 26.1 | 17.9 | 100.0 | 1,506 |
| Mother's Education | 48.5 | 33.4 | 18.1 | 100.0 | 1,538 |
| Hispanic |  |  |  |  |  |
| Father's Education | 43.0 | 29.8 | 27.2 | 100.0 | 1,096 |
| Mother's Education | 49.5 | 34.9 | 15.6 | 100.0 | 1,104 |
| American Indian ${ }^{\text {b }}$ |  |  |  |  |  |
| Father's Education | 47.1 | 31.0 | 21.9 | 100.0 | 155 |
| Mother's Education | 53.8 | 31.6 | 14.6 | 100.0 | 158 |
| White |  |  |  |  |  |
| Father's Education | 26.4 | 34.9 | 38.7 | 100.0 | 22,022 |
| Mother's Education | 33.1 | 43.1 | 23.8 | 100.0 | 22,052 |
| Citizenship |  |  |  |  |  |
| U.S. Citizen |  |  |  |  |  |
| Father's Education | 28.6 | 33.9 | 37.5 | 100.0 | 26,455 |
| Mother's Education | 34.9 | 41.8 | 23.3 | 100.0 | 26,535 |
| Non-U.S., Permanent Visa |  |  |  |  |  |
| Father's Education | 33.0 | 35.5 | 31.4 | 100.0 | 1,837 |
| Mother's Education | 48.1 | 33.4 | 18.5 | 100.0 | 1,844 |
| Non-U.S., Temporary Visa |  |  |  |  |  |
| Father's Education | 37.2 | 38.1 | 24.7 | 100.0 | 9,093 |
| Mother's Education | 53.9 | 32.9 | 13.2 | 100.0 | 9,106 |
| Broad Field of Study |  |  |  |  |  |
| Physical Sciences ${ }^{\text {c }}$ |  |  |  |  |  |
| Father's Education | 26.7 | 35.8 | 37.5 | 100.0 | 5,510 |
| Mother's Education | 36.3 | 40.2 | 23.5 | 100.0 | 5,518 |
| Engineering |  |  |  |  |  |
| Father's Education | 27.3 | 40.0 | 32.7 | 100.0 | 4,792 |
| Mother's Education | 41.9 | 40.2 | 17.9 | 100.0 | 4,799 |
| Life Sciences |  |  |  |  |  |
| Father's Education | 28.5 | 36.6 | 35.0 | 100.0 | 7,858 |
| Mother's Education | 38.6 | 40.3 | 21.1 | 100.0 | 7,882 |
| Social Sciences |  |  |  |  |  |
| Father's Education | 27.5 | 34.6 | 37.9 | 100.0 | 6,346 |
| Mother's Education | 34.3 | 40.8 | 24.8 | 100.0 | 6,365 |
| Humanities |  |  |  |  |  |
| Father's Education | 25.5 | 32.3 | 42.2 | 100.0 | 5,148 |
| Mother's Education | 34.3 | 40.4 | 25.3 | 100.0 | 5,163 |
| Education 20.750 .0 |  |  |  |  |  |
| Father's Education | 48.7 | 30.6 | 20.7 | 100.0 | 5,731 |
| Mother's Education | 54.2 | 33.7 | 12.0 | 100.0 | 5,753 |
| Professional/Other Fields |  |  |  |  |  |
| Father's Education | 35.0 | 35.2 | 29.8 | 100.0 | 2,020 |
| Mother's Education | 45.7 | 38.0 | 16.3 | 100.0 | 2,026 |

NOTE: Details may not add to the total due to rounding.
${ }^{a}$ Includes Pacific Islander.
${ }^{\mathrm{b}}$ Includes Alaskan Native.
${ }^{\text {c }}$ Includes mathematics and computer sciences.

Table 16. Median number of years from baccalaureate to doctorate award, by broad field for selected years, 19752000

|  | 1975 | 1980 | 1985 | 1990 | 1995 | 2000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ALL FIELDS |  |  |  |  |  |  |
| Total | 8.7 | 9.3 | 10.3 | 10.6 | 10.9 | 10.3 |
| Registered | 6.0 | 6.3 | 6.9 | 7.0 | 7.2 | 7.4 |
| PHYSICAL SCIENCES ${ }^{\text {a }}$ |  |  |  |  |  |  |
| Total | 6.9 | 7.0 | 7.3 | 7.8 | 8.4 | 8.0 |
| Registered | 5.7 | 5.9 | 6.1 | 6.3 | 6.9 | 6.8 |
| ENGINEERING |  |  |  |  |  |  |
| Total | 7.6 | 7.7 | 8.2 | 8.3 | 9.1 | 8.7 |
| Registered | 5.6 | 5.7 | 6.0 | 6.1 | 6.4 | 6.8 |
| LIFE SCIENCES |  |  |  |  |  |  |
| Total | 7.2 | 7.4 | 8.5 | 9.1 | 9.5 | 9.0 |
| Registered | 5.8 | 6.0 | 6.4 | 6.8 | 7.0 | 7.0 |
| SOCIAL SCIENCES |  |  |  |  |  |  |
| Total | 7.9 | 8.7 | 10.0 | 10.6 | 10.5 | 9.8 |
| Registered | 5.8 | 6.5 | 7.2 | 7.7 | 7.5 | 7.5 |
| HUMANITIES |  |  |  |  |  |  |
| Total | 9.8 | 10.8 | 11.9 | 12.2 | 12.0 | 11.4 |
| Registered | 6.9 | 7.9 | 8.4 | 8.3 | 8.4 | 8.8 |
| EDUCATION |  |  |  |  |  |  |
| Total | 12.6 | 13.2 | 15.2 | 18.0 | 20.0 | 19.4 |
| Registered | 6.5 | 7.0 | 7.7 | 8.0 | 8.2 | 8.1 |
| PROFESSIONAL/OTHER FIELDS |  |  |  |  |  |  |
| Total | 10.4 | 11.0 | 13.0 | 13.3 | 13.5 | 14.0 |
| Registered | 6.2 | 6.5 | 7.3 | 7.6 | 7.6 | 8.0 |

${ }^{\text {a }}$ Includes mathematics and computer sciences.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 17. Median number of years from baccalaureate to doctorate award, by demographic group and broad field, 2000

|  | All Fields | Physical Sciences ${ }^{\text {a }}$ | Engineering | Life Sciences | Social Sciences | Humanities | Education | Prof./ Other |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ELAPSED TIME FROM BACCALAUREATE (YEARS) |  |  |  |  |  |  |  |  |
| Total | 10.3 | 8.0 | 8.7 | 9.0 | 9.8 | 11.4 | 19.4 | 14.0 |
| Sex |  |  |  |  |  |  |  |  |
| Male | 9.9 | 8.0 | 8.8 | 8.9 | 10.0 | 11.6 | 18.6 | 13.7 |
| Female | 11.0 | 7.8 | 8.2 | 9.3 | 9.6 | 11.3 | 20.0 | 14.4 |
| Citizenship |  |  |  |  |  |  |  |  |
| U.S. Citizen | 10.6 | 7.3 | 7.9 | 8.5 | 9.6 | 11.5 | 20.5 | 15.4 |
| Non-U.S., Permanent Visa | 11.0 | 10.1 | 10.1 | 11.0 | 11.4 | 11.8 | 15.0 | 12.5 |
| Non-U.S., Temporary Visa | 9.8 | 8.8 | 9.0 | 10.0 | 10.0 | 11.0 | 12.3 | 11.2 |
| Race/Ethnicity (U.S. citizens only) |  |  |  |  |  |  |  |  |
| Asian ${ }^{\text {b }}$ | 8.5 | 7.6 | 7.1 | 7.9 | 9.1 | 9.9 | 15.1 | 14.4 |
| Black | 13.5 | 7.9 | 8.0 | 9.1 | 10.0 | 10.6 | 21.0 | 15.0 |
| Hispanic | 10.4 | 8.0 | 8.6 | 8.9 | 9.0 | 11.0 | 17.7 | 13.0 |
| American Indian ${ }^{\text {c }}$ | 12.0 | 6.5 | 11.1 | 9.8 | 10.8 | 14.5 | 21.1 | 19.0 |
| White | 10.6 | 7.3 | 8.0 | 8.6 | 9.7 | 11.6 | 20.7 | 15.6 |
| REGISTERED TIME FROM BACCALAUREATE (YEARS) |  |  |  |  |  |  |  |  |
| Total | 7.4 | 6.8 | 6.8 | 7.0 | 7.5 | 8.8 | 8.1 | 8.0 |
| Sex |  |  |  |  |  |  |  |  |
| Male | 7.3 | 6.8 | 6.8 | 6.9 | 7.5 | 8.6 | 8.0 | 8.0 |
| Female | 7.6 | 6.6 | 6.7 | 7.0 | 7.6 | 8.9 | 8.2 | 8.0 |
| Citizenship |  |  |  |  |  |  |  |  |
| U.S. Citizen | 7.5 | 6.5 | 6.6 | 7.0 | 7.5 | 8.8 | 8.3 | 8.1 |
| Non-U.S., Permanent Visa | 7.9 | 7.8 | 7.3 | 7.7 | 8.5 | 9.3 | 8.8 | 8.8 |
| Non-U.S., Temporary Visa | 7.1 | 7.0 | 6.8 | 7.1 | 7.4 | 8.4 | 6.7 | 7.6 |
| Race/Ethnicity (U.S. citizens only) |  |  |  |  |  |  |  |  |
| Asian ${ }^{\text {b }}$ | 7.1 | 7.0 | 6.5 | 6.9 | 7.3 | 8.3 | 7.7 | 8.6 |
| Black | 7.8 | 6.8 | 7.0 | 7.6 | 7.6 | 8.5 | 8.0 | 7.9 |
| Hispanic | 7.7 | 7.1 | 7.1 | 7.1 | 7.6 | 8.6 | 8.0 | 8.0 |
| American Indian ${ }^{\text {c }}$ | 8.0 | 6.6 | 8.3 | 7.0 | 7.3 | 10.6 | 9.0 | 6.4 |
| White | 7.5 | 6.5 | 6.5 | 6.9 | 7.5 | 8.9 | 8.3 | 8.2 |

${ }^{\text {a }}$ Includes mathematics and computer sciences.
${ }^{\mathrm{b}}$ Includes Pacific Islander.
${ }^{\text {c }}$ Includes Alaskan Native.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 18. Distribution of doctorate recipients, by age at doctorate, 2000

| Field of Study | Median age at doctorate | Age Grouping |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 21-25 | 26-30 | 31-35 | 36-40 | 41-45 | Over 45 |
| All Fields | 33.6 | 243 | $12,665{ }^{\text {a }}$ | 11,359 | 5,823 | 3,618 | 5,601 |
| Broad Field |  |  |  |  |  |  |  |
| Physical Sciences ${ }^{\text {b }}$ | 30.8 | 66 | 2,936 | 1,714 | 632 | 217 | 189 |
| Engineering | 31.4 | 65 | 2,244 | 1,665 | 672 | 211 | 126 |
| Life Sciences | 32.1 | 44 | 3,263 | 2,487 | 1,176 | 627 | 576 |
| Social Sciences | 33.0 | 41 | 2,284 | 2,096 | 951 | 614 | 732 |
| Humanities | 34.8 | 8 | 1,142 | 1,877 | 981 | 609 | 763 |
| Education | 44.4 | 11 | 472 | 962 | 959 | 1,034 | 2,717 |
| Professional/Other Fields | 37.8 | 8 | 324 | 558 | 452 | 306 | 498 |
| Sex |  |  |  |  |  |  |  |
| Male | 33.0 | 144 | 7,519 | 6,925 | 3,457 | 1,779 | 2,192 |
| Female | 34.5 | 99 | 5,145 | 4,434 | 2,366 | 1,839 | 3,409 |
| Citizenship |  |  |  |  |  |  |  |
| U.S. Citizen | 34.0 | 153 | 8,917 | 6,837 | 3,770 | 2,807 | 5,114 |
| Permanent Visa | 34.6 | 9 | 435 | 705 | 413 | 211 | 135 |
| Temporary Visa | 32.6 | 79 | 3,244 | 3,759 | 1,599 | 573 | 307 |
| Unknown | 35.0 | 2 | 69 | 58 | 41 | 27 | 45 |
| Race/Ethnicity (U.S. citizens only) |  |  |  |  |  |  |  |
| Asian ${ }^{\text {c }}$ | 31.3 | 20 | 639 | 380 | 146 | 86 | 121 |
| Black | 38.4 | 6 | 379 | 301 | 247 | 217 | 491 |
| Hispanic | 34.6 | 7 | 321 | 321 | 182 | 123 | 194 |
| American Indian ${ }^{\text {d }}$ | 40.0 | 1 | 34 | 26 | 28 | 32 | 45 |
| White | 33.9 | 115 | 7,403 | 5,697 | 3,098 | 2,279 | 4,185 |

${ }^{\text {a }}$ Includes 1 individual whose sex was not reported.
${ }^{\mathrm{b}}$ Includes mathematics and computer sciences.
${ }^{\text {c }}$ Includes Pacific Islander.
${ }^{\text {d }}$ Includes Alaskan Native.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 19. Primary sources of financial support for doctorate recipients, by broad field and demographic group, 2000 (includes only doctorate recipients who reported primary source of support)

| Primary Source of Support | Total |  | Sex |  | Citizenship |  |  | U.S. Citizens and Permanent Residents |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Men | Women | $\begin{gathered} \hline \text { U.S. } \\ \text { Citizen } \end{gathered}$ | Perm Resident | $\begin{gathered} \hline \text { Temp } \\ \text { Resident } \\ \hline \end{gathered}$ | Asian ${ }^{\text {a }}$ | Black | Hispanic | American Indian ${ }^{\text {b }}$ | White |
| ALL FIELDS | N | 41,368 | 23,173 | 18,121 | 27,888 | 1,949 | 9,648 | 2,315 | 1,775 | 1,279 | 169 | 23,651 |
| Teaching assistantships | \% | 17.4 | 18.2 | 16.3 | 16.3 | 19.8 | 20.0 | 16.5 | 8.4 | 15.0 | 10.6 | 17.3 |
| Research assistantships/Traineeships | \% | 24.9 | 29.9 | 18.6 | 18.9 | 33.6 | 40.7 | 34.8 | 9.4 | 12.5 | 10.6 | 19.6 |
| Fellowships/Dissertation grants | \% | 18.8 | 18.5 | 19.2 | 19.3 | 18.8 | 17.4 | 23.6 | 30.2 | 28.4 | 24.8 | 17.5 |
| Own resources | \% | 32.2 | 25.7 | 40.5 | 40.4 | 22.7 | 10.2 | 20.7 | 47.0 | 39.6 | 44.7 | 40.4 |
| Foreign government | \% | 2.7 | 3.6 | 1.7 | 0.1 | 2.8 | 10.4 | 1.0 | 0.2 | 0.8 | 1.2 | 0.2 |
| Employer | \% | 3.6 | 3.8 | 3.4 | 4.6 | 2.1 | 1.0 | 3.0 | 4.4 | 3.2 | 6.2 | 4.7 |
| Other | \% | 0.3 | 0.3 | 0.4 | 0.4 | 0.2 | 0.2 | 0.4 | 0.4 | 0.5 | 1.9 | 0.3 |
| PHYSICAL SCIENCES ${ }^{\text {c }}$ | N | 5,498 | 4,162 | 1,336 | 3,118 | 345 | 2,019 | 363 | 92 | 117 | 16 | 2,818 |
| Teaching assistantships | \% | 27.6 | 27.4 | 28.1 | 24.3 | 31.6 | 31.9 | 28.4 | 20.7 | 19.7 | 12.5 | 25.4 |
| Research assistantships/Traineeships | \% | 43.0 | 43.8 | 40.4 | 40.3 | 42.9 | 47.1 | 42.7 | 17.4 | 34.2 | 43.8 | 41.1 |
| Fellowships/Dissertation grants | \% | 15.4 | 14.4 | 18.6 | 18.9 | 11.6 | 10.6 | 13.5 | 44.6 | 28.2 | 31.3 | 17.1 |
| Own resources | \% | 9.4 | 9.0 | 10.5 | 13.0 | 11.0 | 3.5 | 11.6 | 15.2 | 12.8 | 12.5 | 13.0 |
| Foreign government | \% | 2.3 | 2.7 | 1.2 | 0.1 | 1.4 | 6.0 | 0.6 | 1.1 | 0.9 | 0.0 | 0.1 |
| Employer | \% | 2.2 | 2.5 | 1.1 | 3.2 | 1.4 | 0.6 | 3.0 | 1.1 | 4.3 | 0.0 | 3.1 |
| Other | \% | 0.2 | 0.2 | 0.1 | 0.2 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 | 0.2 |
| ENGINEERING | N | 4,788 | 4,035 | 753 | 2,136 | 328 | 2,313 | 427 | 83 | 80 | 8 | 1,825 |
| Teaching assistantships | \% | 8.4 | 8.5 | 8.0 | 5.9 | 10.4 | 10.3 | 8.2 | 6.0 | 8.8 | 0.0 | 6.1 |
| Research assistantships/Traineeships | \% | 53.5 | 54.4 | 48.6 | 43.2 | 59.5 | 62.2 | 57.8 | 19.3 | 32.5 | 25.0 | 44.4 |
| Fellowships/Dissertation grants | \% | 15.6 | 13.6 | 26.4 | 23.9 | 9.8 | 8.8 | 14.1 | 56.6 | 32.5 | 37.5 | 21.8 |
| Own resources | \% | 12.3 | 12.6 | 10.4 | 18.1 | 13.7 | 6.7 | 13.8 | 14.5 | 12.5 | 25.0 | 18.7 |
| Foreign government | \% | 5.6 | 6.0 | 3.7 | 0.1 | 3.4 | 11.1 | 0.5 | 0.0 | 5.0 | 0.0 | 0.4 |
| Employer | \% | 4.5 | 4.8 | 2.8 | 8.5 | 3.4 | 0.9 | 5.6 | 3.6 | 8.8 | 12.5 | 8.3 |
| Other | \% | 0.1 | 0.1 | 0.1 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 |
| LIFE SCIENCES | N | 7,822 | 4,148 | 3,674 | 5,292 | 469 | 2,056 | 649 | 207 | 232 | 23 | 4,563 |
| Teaching assistantships | \% | 10.8 | 11.4 | 10.1 | 10.6 | 10.7 | 11.2 | 9.7 | 6.8 | 9.1 | 13.0 | 10.9 |
| Research assistantships/Traineeships | \% | 36.9 | 39.0 | 34.6 | 32.0 | 45.8 | 47.5 | 43.5 | 23.2 | 21.1 | 8.7 | 32.9 |
| Fellowships/Dissertation grants | \% | 28.3 | 29.1 | 27.4 | 30.2 | 26.9 | 23.7 | 33.4 | 44.4 | 46.1 | 39.1 | 27.9 |
| Own resources | \% | 18.1 | 14.5 | 22.2 | 23.3 | 13.2 | 6.0 | 9.9 | 23.7 | 20.7 | 30.4 | 24.3 |
| Foreign government | \% | 3.0 | 3.6 | 2.2 | 0.1 | 2.1 | 10.4 | 0.9 | 0.0 | 0.9 | 0.0 | 0.2 |
| Employer | \% | 2.6 | 2.1 | 3.1 | 3.3 | 1.3 | 1.1 | 2.3 | 1.4 | 2.2 | 8.7 | 3.3 |
| Other | \% | 0.3 | 0.3 | 0.4 | 0.4 | 0.0 | 0.2 | 0.3 | 0.5 | 0.0 | 0.0 | 0.4 |
| SOCIAL SCIENCES | N | 6,303 | 2,880 | 3,423 | 5,106 | 231 | 964 | 293 | 343 | 257 | 38 | 4,332 |
| Teaching assistantships | \% | 19.8 | 22.8 | 17.3 | 18.1 | 20.8 | 28.8 | 20.8 | 10.2 | 13.6 | 5.3 | 19.2 |
| Research assistantships/Traineeships | \% | 13.6 | 12.3 | 14.7 | 13.8 | 11.7 | 13.2 | 14.3 | 9.9 | 5.8 | 10.5 | 14.5 |
| Fellowships/Dissertation grants | \% | 19.5 | 20.8 | 18.5 | 17.7 | 23.8 | 28.3 | 28.3 | 38.2 | 24.5 | 39.5 | 15.0 |
| Own resources | \% | 42.7 | 38.3 | 46.4 | 47.9 | 38.5 | 16.2 | 33.1 | 39.1 | 52.9 | 39.5 | 48.8 |
| Foreign government | \% | 2.1 | 3.2 | 1.1 | 0.1 | 3.5 | 12.1 | 1.4 | 0.0 | 0.8 | 2.6 | 0.1 |
| Employer | \% | 2.0 | 2.2 | 1.8 | 2.1 | 1.3 | 1.1 | 1.7 | 2.3 | 1.9 | 2.6 | 2.1 |
| Other | \% | 0.3 | 0.4 | 0.2 | 0.3 | 0.4 | 0.2 | 0.3 | 0.3 | 0.4 | 0.0 | 0.3 |
| HUMANITIES | N | 5,120 | 2,536 | 2,584 | 4,215 | 230 | 670 | 189 | 162 | 213 | 21 | 3,780 |
| Teaching assistantships | \% | 33.2 | 32.0 | 34.4 | 33.0 | 35.7 | 34.0 | 33.9 | 15.4 | 33.8 | 33.3 | 34.1 |
| Research assistantships/Traineeships | \% | 1.4 | 1.2 | 1.5 | 1.2 | 1.3 | 2.2 | 1.1 | 4.3 | 1.9 | 0.0 | 1.0 |
| Fellowships/Dissertation grants | \% | 23.8 | 23.3 | 24.3 | 22.8 | 23.9 | 30.1 | 33.3 | 43.2 | 26.8 | 14.3 | 21.2 |
| Own resources | \% | 38.3 | 39.9 | 36.7 | 41.1 | 34.8 | 21.6 | 30.2 | 33.3 | 36.2 | 47.6 | 41.6 |
| Foreign government | \% | 1.7 | 1.7 | 1.7 | 0.2 | 3.0 | 11.2 | 1.1 | 0.6 | 0.0 | 0.0 | 0.3 |
| Employer | \% | 1.4 | 1.7 | 1.0 | 1.5 | 1.3 | 0.4 | 0.5 | 1.2 | 1.4 | 0.0 | 1.6 |
| Other | \% | 0.2 | 0.1 | 0.3 | 0.2 | 0.0 | 0.3 | 0.0 | 1.9 | 0.0 | 4.8 | 0.1 |
| EDUCATION | N | 5,669 | 1,993 | 3,676 | 5,085 | 111 | 470 | 155 | 624 | 253 | 50 | 4,074 |
| Teaching assistantships | \% | 6.5 | 6.6 | 6.4 | 5.8 | 13.5 | 11.9 | 9.0 | 3.2 | 6.3 | 4.0 | 6.4 |
| Research assistantships/Traineeships | \% | 5.5 | 5.2 | 5.7 | 4.7 | 6.3 | 14.3 | 8.4 | 4.0 | 5.1 | 2.0 | 4.8 |
| Fellowships/Dissertation grants | \% | 8.0 | 7.9 | 8.1 | 6.8 | 12.6 | 19.4 | 18.1 | 12.8 | 18.6 | 10.0 | 4.9 |
| Own resources | \% | 68.8 | 65.0 | 70.8 | 72.3 | 58.6 | 33.2 | 58.7 | 72.4 | 63.2 | 66.0 | 72.9 |
| Foreign government | \% | 1.6 | 2.6 | 1.0 | 0.1 | 3.6 | 17.2 | 0.6 | 0.2 | 0.4 | 2.0 | 0.1 |
| Employer | \% | 9.0 | 12.0 | 7.3 | 9.6 | 3.6 | 3.2 | 3.9 | 7.1 | 4.3 | 12.0 | 10.4 |
| Other | \% | 0.7 | 0.7 | 0.7 | 0.6 | 1.8 | 0.9 | 1.3 | 0.3 | 2.0 | 4.0 | 0.6 |
| PROF/OTHER FIELDS | N | 2,015 | 1,161 | 854 | 1,417 | 103 | 494 | 103 | 120 | 54 | 5 | 1,215 |
| Teaching assistantships | \% | 19.4 | 21.4 | 16.7 | 17.1 | 21.4 | 25.5 | 19.4 | 15.8 | 13.0 | 20.0 | 17.8 |
| Research assistantships/Traineeships | \% | 10.8 | 10.9 | 10.8 | 8.6 | 14.6 | 16.4 | 16.5 | 5.8 | 7.4 | 20.0 | 8.7 |
| Fellowships/Dissertation grants | \% | 14.4 | 14.5 | 14.4 | 12.6 | 18.4 | 18.8 | 13.6 | 26.7 | 16.7 | 0.0 | 11.7 |
| Own resources | \% | 45.1 | 41.4 | 50.1 | 54.1 | 33.0 | 21.9 | 39.8 | 42.5 | 59.3 | 60.0 | 54.0 |
| Foreign government | \% | 4.1 | 5.1 | 2.7 | 0.1 | 4.9 | 15.2 | 4.9 | 0.0 | 0.0 | 0.0 | 0.1 |
| Employer | \% | 5.8 | 6.3 | 5.0 | 7.1 | 6.8 | 1.8 | 3.9 | 9.2 | 3.7 | 0.0 | 7.4 |
| Other | \% | 0.4 | 0.5 | 0.2 | 0.4 | 1.0 | 0.4 | 1.9 | 0.0 | 0.0 | 0.0 | 0.3 |

${ }^{\text {a }}$ Includes Pacific Islander.
${ }^{\mathrm{b}}$ Includes Alaskan Native.
${ }^{\text {c }}$ Includes mathematics and computer sciences.
Source: NSF/NIH/NEH/USED/USDA/NASA, Survey of Earned Doctorates

Table 20. Cumulative debt related to the education of the doctorate recipients, by broad field, 2000

| Cumulative Debt | Total |  | Physical Sciences ${ }^{\text {a }}$ |  | Engineering |  | Life Sciences |  | Social Sciences |  | Humanities |  | Education |  | Prof/Other Fields |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | N | \% | N | \% | N | \% | N | \% | N | \% | N | \% | N | \% | N | \% |
| \$5,000 or less | 3,284 | 8.8 | 538 | 9.7 | 415 | 8.6 | 746 | 9.5 | 460 | 7.2 | 472 | 9.1 | 478 | 8.3 | 175 | 8.7 |
| \$5,001-\$10,000 | 2,859 | 7.6 | 467 | 8.4 | 319 | 6.6 | 674 | 8.6 | 469 | 7.4 | 443 | 8.6 | 364 | 6.3 | 123 | 6.1 |
| \$10,001-\$15,000 | 2,309 | 6.2 | 350 | 6.3 | 255 | 5.3 | 559 | 7.1 | 396 | 6.2 | 379 | 7.3 | 256 | 4.5 | 114 | 5.6 |
| \$15,001-\$20,000 | 2,025 | 5.4 | 253 | 4.6 | 179 | 3.7 | 470 | 6.0 | 392 | 6.2 | 349 | 6.8 | 264 | 4.6 | 118 | 5.8 |
| \$20,001-\$25,000 | 1,543 | 4.1 | 189 | 3.4 | 137 | 2.9 | 306 | 3.9 | 311 | 4.9 | 265 | 5.1 | 239 | 4.2 | 96 | 4.8 |
| \$25,001-\$30,000 | 1,364 | 3.6 | 122 | 2.2 | 111 | 2.3 | 246 | 3.1 | 355 | 5.6 | 243 | 4.7 | 211 | 3.7 | 76 | 3.8 |
| \$30,000+ | 5,647 | 15.1 | 423 | 7.6 | 427 | 8.9 | 881 | 11.2 | 1,726 | 27.2 | 924 | 17.9 | 893 | 15.5 | 373 | 18.5 |
| No debt | 18,482 | 49.3 | 3,197 | 57.7 | 2,962 | 61.6 | 4,001 | 50.8 | 2,247 | 35.4 | 2,085 | 40.4 | 3,044 | 52.9 | 946 | 46.8 |
| Total | 37,513 | 100.0 | 5,539 | 100.0 | 4,805 | 100.0 | 7,883 | 100.0 | 6,356 | 100.0 | 5,160 | 100.0 | 5,749 | 100.0 | 2,021 | 100.0 |

${ }^{\text {a }}$ Includes mathematics and computer sciences.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 21. Cumulative debt related to the education of the doctorate recipients, by demographic group, 2000

| Cumulative Debt | Sex |  |  |  | Citizenship |  |  |  |  |  | Race/Ethnicity (U.S. citizens and Permanent Residents) |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Male |  | Female |  | U.S. citizen |  | Perm Visa |  | Temp Visa |  | Asian ${ }^{\text {a }}$ |  | Black |  | Hispanic |  | Amer Indian ${ }^{\text {b }}$ |  | White |  |
|  | N | \% | N | \% | N | \% | N | \% | N | \% | N | \% | N | \% | N | \% | N | \% | N | \% |
| \$5,000 or less | 1,918 | 9.1 | 1,366 | 8.3 | 2,258 | 8.5 | 127 | 6.9 | 896 | 9.9 | 156 | 7.1 | 162 | 9.7 | 107 | 8.8 | 10 | 6.2 | 1,924 | 8.4 |
| \$5,001-\$10,000 | 1,645 | 7.8 | 1,214 | 7.4 | 2,236 | 8.4 | 103 | 5.6 | 518 | 5.7 | 173 | 7.9 | 135 | 8.1 | 104 | 8.6 | 14 | 8.6 | 1,882 | 8.3 |
| \$10,001-\$15,000 | 1,303 | 6.2 | 1,006 | 6.1 | 1,876 | 7.1 | 95 | 5.2 | 334 | 3.7 | 148 | 6.7 | 122 | 7.3 | 75 | 6.2 | 4 | 2.5 | 1,591 | 7.0 |
| \$15,001-\$20,000 | 1,117 | 5.3 | 908 | 5.5 | 1,730 | 6.5 | 69 | 3.8 | 222 | 2.5 | 115 | 5.2 | 112 | 6.7 | 76 | 6.3 | 14 | 8.6 | 1,460 | 6.4 |
| \$20,001-\$25,000 | 840 | 4.0 | 703 | 4.3 | 1,325 | 5.0 | 43 | 2.3 | 174 | 1.9 | 85 | 3.9 | 79 | 4.8 | 87 | 7.2 | 11 | 6.8 | 1,099 | 4.8 |
| \$25,001-\$30,000 | 722 | 3.4 | 642 | 3.9 | 1,180 | 4.4 | 43 | 2.3 | 139 | 1.5 | 55 | 2.5 | 124 | 7.5 | 75 | 6.2 | 8 | 4.9 | 942 | 4.1 |
| \$30,000+ | 2,945 | 14.0 | 2,702 | 16.4 | 4,750 | 17.9 | 159 | 8.7 | 732 | 8.1 | 244 | 11.1 | 499 | 30.0 | 282 | 23.2 | 38 | 23.5 | 3,785 | 16.6 |
| No debt | 10,569 | 50.2 | 7,912 | 48.1 | 11,234 | 42.3 | 1,192 | 65.1 | 6,031 | 66.7 | 1,223 | 55.6 | 430 | 25.9 | 409 | 33.7 | 63 | 38.9 | 10,097 | 44.3 |
| Total | 21,059 | 100.0 | 16,453 | 100.0 | 26,589 | 100.0 | 1,831 | 100.0 | 9,046 | 100.0 | 2,199 | 100.0 | 1,663 | 100.0 | 1,215 | 100.0 | 162 | 100.0 | 22,780 | 100.0 |

a Includes Pacific Islander
${ }^{\text {b }}$ Includes Alaskan Native
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 22. Postgraduation status of doctorate recipients, by broad field for selected years, 1980-2000

|  |  | All Fields | Physical Sciences ${ }^{\text {a }}$ | Engineering | Life Sciences | Social Sciences | Humanities | Education | Prof/Other Fields |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total |  |  |  |  |  |  |  |  |  |
| 1980 | N | 31,020 | 4,111 | 2,479 | 5,461 | 5,855 | 3,872 | 7,586 | 1,656 |
| 1985 | N | 31,297 | 4,531 | 3,166 | 5,780 | 5,765 | 3,429 | 6,733 | 1,893 |
| 1990 | N | 36,067 | 5,859 | 4,894 | 6,605 | 6,093 | 3,822 | 6,510 | 2,284 |
| 1995 | N | 41,742 | 6,808 | 6,008 | 7,917 | 6,635 | 5,061 | 6,649 | 2,664 |
| 2000 | N | 41,368 | 6,077 | 5,330 | 8,529 | 7,115 | 5,634 | 6,420 | 2,263 ${ }^{\text {b }}$ |
| Total Responses to Postgraduation Status |  |  |  |  |  |  |  |  |  |
| 1980 | N | 28,748 | 3,837 | 2,262 | 5,099 | 5,418 | 3,542 | 7,050 | 1,540 |
| 1985 | N | 28,384 | 4,096 | 2,741 | 5,316 | 5,181 | 3,140 | 6,210 | 1,700 |
| 1990 | N | 32,709 | 5,275 | 4,304 | 6,076 | 5,497 | 3,488 | 5,993 | 2,076 |
| 1995 | N | 37,971 | 6,231 | 5,385 | 7,237 | 6,025 | 4,677 | 5,999 | 2,417 |
| 2000 | N | 37,551 | 5,527 | 4,796 | 7,916 | 6,370 | 5,159 | 5,747 | 2,036 |
| Definite Commitments for Employment or Study |  |  |  |  |  |  |  |  |  |
| 1980 | \% | 76.2 | 80.3 | 81.1 | 79.0 | 73.7 | 64.8 | 76.2 | 85.2 |
| 1985 | \% | 73.8 | 77.9 | 72.3 | 75.6 | 70.6 | 64.7 | 75.1 | 82.6 |
| 1990 | \% | 71.6 | 72.9 | 65.9 | 74.6 | 69.1 | 66.0 | 74.6 | 78.3 |
| 1995 | \% | 65.8 | 64.3 | 57.0 | 70.4 | 65.3 | 58.1 | 72.9 | 73.3 |
| 2000 | \% | 71.1 | 74.1 | 69.7 | 72.5 | 69.9 | 61.5 | 75.2 | 78.1 |
| Seeking Employment or Study |  |  |  |  |  |  |  |  |  |
| 1980 | \% | 23.8 | 19.7 | 18.9 | 21.0 | 26.3 | 35.2 | 23.8 | 14.8 |
| 1985 | \% | 26.2 | 22.1 | 27.7 | 24.4 | 29.4 | 35.3 | 24.9 | 17.4 |
| 1990 | \% | 28.4 | 27.1 | 34.1 | 25.4 | 30.9 | 34.0 | 25.4 | 21.7 |
| 1995 | \% | 34.2 | 35.7 | 43.0 | 29.6 | 34.7 | 41.9 | 27.1 | 26.7 |
| 2000 | \% | 28.9 | 25.9 | 30.3 | 27.5 | 30.1 | 38.5 | 24.8 | 21.9 |

${ }^{\text {a }}$ Includes mathematics and computer sciences.
${ }^{\mathrm{b}}$ Includes 5 persons for whom field is unknown.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 23. Postgraduation status of doctorate recipients, by demographic group for selected years, 1980-2000

${ }^{\text {a }}$ Includes Pacific Islander.
${ }^{\mathrm{b}}$ Includes Alaskan Native.
Source: NSF/NIH/NEH/USED/USDA/NASA, Survey of Earned Doctorates

Table 24. Postgraduation commitments of doctorate recipients, by type of plans and broad field for selected years, 1980-2000

|  |  | All Fields | Physical Sciences ${ }^{\text {a }}$ | Engineering | Life Sciences | Social Sciences | Humanities | Education | Prof/Other Fields |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| All Definite Commitments |  |  |  |  |  |  |  |  |  |
| 1980 | N | 21,920 | 3,083 | 1,834 | 4,030 | 3,994 | 2,296 | 5,371 | 1,312 |
| 1985 | N | 20,952 | 3,190 | 1,983 | 4,018 | 3,660 | 2,031 | 4,665 | 1,405 |
| 1990 | N | 23,413 | 3,846 | 2,835 | 4,534 | 3,800 | 2,303 | 4,470 | 1,625 |
| 1995 | N | 24,972 | 4,007 | 3,068 | 5,094 | 3,937 | 2,719 | 4,375 | 1,772 |
| 2000 | N | 26,711 | 4,094 | 3,342 | 5,740 | 4,454 | 3,171 | 4,319 | 1,591 |
| Definite Commitments with Responses to Type of Plans |  |  |  |  |  |  |  |  |  |
| 1980 | N | 21,824 | 3,078 | 1,827 | 4,009 | 3,983 | 2,281 | 5,338 | 1,308 |
| 1985 | N | 20,868 | 3,180 | 1,977 | 4,012 | 3,644 | 2,022 | 4,639 | 1,394 |
| 1990 | N | 23,299 | 3,842 | 2,822 | 4,525 | 3,780 | 2,281 | 4,428 | 1,621 |
| 1995 | N | 24,816 | 3,988 | 3,060 | 5,079 | 3,907 | 2,690 | 4,329 | 1,763 |
| 2000 | N | 26,589 | 4,078 | 3,326 | 5,708 | 4,439 | 3,160 | 4,293 | 1,585 |
| Employment |  |  |  |  |  |  |  |  |  |
| 1980 | \% | 80.3 | 64.0 | 87.7 | 45.7 | 86.9 | 94.9 | 97.7 | 97.7 |
| 1985 | \% | 77.7 | 59.1 | 85.1 | 44.7 | 85.2 | 94.1 | 96.9 | 97.6 |
| 1990 | \% | 73.6 | 53.3 | 80.7 | 37.1 | 84.2 | 93.6 | 96.0 | 96.6 |
| 1995 | \% | 70.3 | 48.5 | 75.1 | 35.3 | 78.6 | 92.0 | 96.1 | 96.7 |
| 2000 | \% | 71.3 | 54.7 | 78.8 | 39.5 | 75.8 | 91.5 | 95.2 | 95.3 |
| Study |  |  |  |  |  |  |  |  |  |
| 1980 | \% | 19.7 | 36.0 | 12.3 | 54.3 | 13.1 | 5.1 | 2.3 | 2.3 |
| 1985 | \% | 22.3 | 40.9 | 14.9 | 55.3 | 14.8 | 5.9 | 3.1 | 2.4 |
| 1990 | \% | 26.4 | 46.7 | 19.3 | 62.9 | 15.8 | 6.4 | 4.0 | 3.4 |
| 1995 | \% | 29.7 | 51.5 | 24.9 | 64.7 | 21.4 | 8.0 | 3.9 | 3.3 |
| 2000 | \% | 28.7 | 45.3 | 21.2 | 60.5 | 24.2 | 8.5 | 4.8 | 4.7 |

[^17]Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 25. Postgraduation commitments of doctorate recipients, by type of plans and demographic group for selected years, 1980-2000

${ }^{\text {a }}$ Includes Pacific Islander.
${ }^{\mathrm{b}}$ Includes Alaskan Native.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 26. Postdoctoral location of non-U.S. citizen doctorate recipients with postgraduation commitments, by major field and visa status, 2000

| Field | Permanent Visa |  |  |  |  | Temporary Visa |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Resp. to location/ type of plans | U.S. Location |  | Foreign Location |  | Resp. to location/ type of plans | U.S. Location |  | Foreign Location |  |
|  |  | Employ (\%) | Study (\%) | $\begin{gathered} \text { Employ } \\ (\%) \\ \hline \end{gathered}$ | Study (\%) |  | $\begin{gathered} \text { Employ } \\ (\%) \\ \hline \end{gathered}$ | Study (\%) | Employ (\%) | Study (\%) |
| All Fields | 1,123 | 62.6 | 29.6 | 6.3 | 1.5 | 6,067 | 39.1 | 30.8 | 24.2 | 5.9 |
| Physical Sciences ${ }^{\text {a }}$ | 232 | 64.7 | 31.0 | 3.0 | 1.3 | 1,414 | 38.9 | 42.8 | 10.6 | 7.7 |
| Physics \& Astronomy | 48 | 52.1 | 43.8 | 2.1 | 2.1 | 318 | 33.0 | 50.6 | 6.3 | 10.1 |
| Chemistry | 78 | 57.7 | 38.5 | 3.8 | 0.0 | 428 | 24.5 | 61.2 | 8.4 | 5.8 |
| Earth, Atmos., \& Marine Sci. | 20 | 45.0 | 50.0 | 0.0 | 5.0 | 123 | 21.1 | 43.9 | 22.8 | 12.2 |
| Mathematics | 33 | 78.8 | 21.2 | 0.0 | 0.0 | 298 | 43.0 | 35.2 | 10.7 | 11.1 |
| Computer Sciences | 53 | 84.9 | 7.5 | 5.7 | 1.9 | 247 | 75.3 | 9.3 | 13.8 | 1.6 |
| Engineering | 222 | 79.7 | 16.2 | 2.7 | 1.4 | 1,502 | 58.1 | 20.1 | 18.6 | 3.2 |
| Life Sciences | 290 | 31.7 | 61.7 | 5.5 | 1.0 | 1,449 | 14.8 | 58.3 | 20.4 | 6.5 |
| Biological Sciences | 215 | 20.5 | 76.3 | 1.9 | 1.4 | 939 | 9.3 | 76.1 | 9.3 | 5.3 |
| Health Sciences | 43 | 76.7 | 11.6 | 11.6 | 0.0 | 219 | 35.2 | 18.3 | 41.6 | 5.0 |
| Agricultural Sciences | 32 | 46.9 | 31.3 | 21.9 | 0.0 | 291 | 17.5 | 30.9 | 40.2 | 11.3 |
| Social Sciences | 124 | 62.9 | 21.8 | 13.7 | 1.6 | 685 | 45.8 | 10.4 | 39.0 | 4.8 |
| Psychology | 37 | 51.4 | 35.1 | 10.8 | 2.7 | 99 | 39.4 | 32.3 | 18.2 | 10.1 |
| Anthropology | 8 | 37.5 | 37.5 | 25.0 | 0.0 | 31 | 29.0 | 9.7 | 45.2 | 16.1 |
| Economics | 30 | 70.0 | 10.0 | 20.0 | 0.0 | 345 | 51.3 | 4.1 | 42.3 | 2.3 |
| Political Sci./Int'I Relations | 10 | 60.0 | 20.0 | 20.0 | 0.0 | 57 | 36.8 | 5.3 | 54.4 | 3.5 |
| Sociology | 16 | 75.0 | 12.5 | 12.5 | 0.0 | 54 | 37.0 | 7.4 | 46.3 | 9.3 |
| Other Social Sciences | 23 | 73.9 | 17.4 | 4.3 | 4.3 | 99 | 48.5 | 15.2 | 33.3 | 3.0 |
| Humanities | 124 | 86.3 | 1.6 | 9.7 | 2.4 | 378 | 42.6 | 6.1 | 43.9 | 7.4 |
| History | 13 | 61.5 | 0.0 | 30.8 | 7.7 | 40 | 30.0 | 12.5 | 37.5 | 20.0 |
| English Language \& Lit | 13 | 92.3 | 0.0 | 0.0 | 7.7 | 32 | 31.3 | 3.1 | 62.5 | 3.1 |
| Foreign Language \& Lit | 35 | 94.3 | 5.7 | 0.0 | 0.0 | 78 | 70.5 | 7.7 | 17.9 | 3.8 |
| Other Humanities | 63 | 85.7 | 0.0 | 12.7 | 1.6 | 228 | 36.8 | 4.8 | 51.3 | 7.0 |
| Education | 67 | 77.6 | 11.9 | 7.5 | 3.0 | 283 | 23.0 | 4.9 | 59.7 | 12.4 |
| Teacher Education | 5 | 100.0 | 0.0 | 0.0 | 0.0 | 17 | 11.8 | 0.0 | 70.6 | 17.6 |
| Teaching Fields | 10 | 80.0 | 0.0 | 20.0 | 0.0 | 71 | 23.9 | 4.2 | 52.1 | 19.7 |
| Other Education | 52 | 75.0 | 15.4 | 5.8 | 3.8 | 195 | 23.6 | 5.6 | 61.5 | 9.2 |
| Professional/Other | 64 | 73.4 | 12.5 | 12.5 | 1.6 | 356 | 54.5 | 3.1 | 39.6 | 2.8 |
| Business \& Management | 37 | 70.3 | 10.8 | 18.9 | 0.0 | 230 | 61.7 | 1.7 | 34.8 | 1.7 |
| Communications | 7 | 100.0 | 0.0 | 0.0 | 0.0 | 43 | 48.8 | 4.7 | 44.2 | 2.3 |
| Other Professional Fields | 20 | 70.0 | 20.0 | 5.0 | 5.0 | 83 | 37.3 | 6.0 | 50.6 | 6.0 |

NOTE: Only non-U.S. citizen doctorate recipients with definite commitments are included. Percentages are based on the number of doctorate recipients who reported a definite commitment and a location. See technical notes in Appendix C for rates of nonresponse to the applicable survey questions and for further explanation of postgraduation plans.
${ }^{\text {a }}$ Includes mathematics and computer sciences.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 27. Postdoctoral location of non-U.S. citizen doctorate recipients with postgraduation commitments, by visa status for selected years, 1980-2000

|  |  | All <br> Non-U.S. Citizens | $\begin{aligned} & \text { Permanent } \\ & \text { Visa } \end{aligned}$ | Temporary Visa |
| :---: | :---: | :---: | :---: | :---: |
| All Definite Commitments |  |  |  |  |
| 1980 | N | 3,264 | 815 | 2,449 |
| 1985 | N | 4,052 | 763 | 3,289 |
| 1990 | N | 5,586 | 916 | 4,670 |
| 1995 | N | 6,783 | 2,082 | 4,701 |
| 2000 | N | 7,272 | 1,136 | 6,136 |
| Definite Commitments with Responses to Location |  |  |  |  |
| 1980 | N | 3,059 | 762 | 2,297 |
| 1985 | N | 3,712 | 706 | 3,006 |
| 1990 | N | 5,133 | 823 | 4,310 |
| 1995 | N | 6,731 | 2,065 | 4,666 |
| 2000 | N | 7,235 | 1,130 | 6,105 |
| U.S. Location |  |  |  |  |
| 1980 | \% | 52.9 | 93.3 | 39.4 |
| 1985 | \% | 54.6 | 89.7 | 46.4 |
| 1990 | \% | 59.0 | 86.1 | 53.9 |
| 1995 | \% | 65.1 | 91.6 | 53.4 |
| 2000 | \% | 73.3 | 92.0 | 69.9 |
| Foreign Location |  |  |  |  |
| 1980 | \% | 47.1 | 6.7 | 60.6 |
| 1985 | \% | 45.4 | 10.3 | 53.6 |
| 1990 | \% | 41.0 | 13.9 | 46.1 |
| 1995 | \% | 34.9 | 8.4 | 46.6 |
| 2000 | \% | 26.7 | 8.0 | 30.1 |

NOTE: Only non-U.S. citizen doctorate recipients with definite commitments are included. "All Definite Commitments" includes recipients who reported definite commitments, but not location (U.S. or foreign). Percentages are based on the number of doctorate recipients who reported a definite commitment and a location (U.S. versus foreign).

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Table 28. Employment sector of doctorate recipients with postgraduation commitments in the United States, by demographic group for selected years, 1980-2000

|  |  | Total ${ }^{\text {a }}$ | Male | Female | U.S. <br> Citizen | Perm Visa | Temp Visa | U.S. Citizens \& Permanent Residents |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  | Asian ${ }^{\text {b }}$ | Black | Hispanic | American Indian ${ }^{\text {c }}$ | White |
| All Employment Commitments |  |  |  |  |  |  |  |  |  |  |  |  |
| 1980 | N | 14,558 | 10,053 | 4,505 | 14,010 | 548 | 470 | 481 | 628 | 257 | 41 | 12,674 |
| 1985 | N | 12,652 | 7,931 | 4,721 | 12,162 | 490 | 759 | 412 | 512 | 314 | 51 | 11,223 |
| 1990 | N | 13,396 | 7,603 | 5,793 | 12,899 | 497 | 1,205 | 416 | 536 | 382 | 50 | 11,891 |
| 1995 | N | 14,036 | 7,429 | 6,606 | 13,074 | 962 | 1,231 | 1,032 | 714 | 441 | 67 | 11,691 |
| 2000 | N | 14,752 | 7,505 | 7,247 | 14,049 | 703 | 2,371 | 854 | 897 | 594 | 87 | 12,139 |
| Employment Commitments with Responses to Sector |  |  |  |  |  |  |  |  |  |  |  |  |
| 1980 | N | 14,540 | 10,042 | 4,498 | 13,994 | 546 | 470 | 481 | 626 | 256 | 41 | 12,659 |
| 1985 | N | 12,643 | 7,928 | 4,715 | 12,156 | 487 | 752 | 411 | 510 | 314 | 51 | 11,217 |
| 1990 | N | 13,283 | 7,559 | 5,724 | 12,789 | 494 | 1,200 | 415 | 530 | 378 | 49 | 11,791 |
| 1995 | N | 13,795 | 7,313 | 6,481 | 12,861 | 934 | 1,214 | 1,003 | 690 | 432 | 66 | 11,515 |
| 2000 | N | 14,550 | 7,407 | 7,143 | 13,858 | 692 | 2,324 | 831 | 884 | 581 | 85 | 11,992 |
| Academe |  |  |  |  |  |  |  |  |  |  |  |  |
| 1980 | \% | 52.8 | 49.0 | 61.3 | 53.3 | 41.4 | 48.3 | 30.4 | 60.1 | 59.0 | 51.2 | 53.3 |
| 1985 | \% | 50.0 | 46.6 | 55.7 | 49.8 | 54.4 | 61.4 | 38.2 | 52.4 | 60.2 | 54.9 | 50.0 |
| 1990 | \% | 52.0 | 47.9 | 57.3 | 51.8 | 57.1 | 55.9 | 40.2 | 56.8 | 57.9 | 65.3 | 51.9 |
| 1995 | \% | 54.0 | 48.7 | 59.9 | 54.8 | 41.9 | 46.7 | 38.1 | 60.4 | 60.4 | 63.6 | 54.7 |
| 2000 | \% | 51.8 | 48.4 | 55.4 | 52.1 | 45.1 | 34.3 | 36.0 | 52.9 | 57.5 | 63.5 | 52.4 |
| Industry/Self-Employed |  |  |  |  |  |  |  |  |  |  |  |  |
| 1980 | \% | 17.0 | 20.5 | 9.4 | 15.8 | 47.8 | 41.5 | 53.2 | 4.3 | 9.8 | 9.8 | 16.3 |
| 1985 | \% | 19.4 | 24.3 | 11.1 | 18.6 | 39.2 | 31.5 | 47.9 | 7.5 | 11.8 | 15.7 | 19.1 |
| 1990 | \% | 20.4 | 25.8 | 13.2 | 19.9 | 31.6 | 39.0 | 43.9 | 5.3 | 12.7 | 14.3 | 20.4 |
| 1995 | \% | 19.9 | 26.4 | 12.5 | 17.9 | 47.9 | 46.4 | 50.1 | 7.2 | 15.5 | 15.2 | 18.2 |
| 2000 | \% | 21.1 | 27.5 | 14.5 | 19.9 | 45.7 | 59.6 | 49.1 | 12.4 | 17.6 | 8.2 | 20.1 |
| Government |  |  |  |  |  |  |  |  |  |  |  |  |
| 1980 | \% | 12.6 | 14.2 | 9.3 | 13.0 | 3.8 | 4.5 | 8.1 | 14.2 | 12.9 | 17.1 | 12.7 |
| 1985 | \% | 11.9 | 12.1 | 11.5 | 12.3 | 2.3 | 2.0 | 7.3 | 14.5 | 10.5 | 7.8 | 12.0 |
| 1990 | \% | 9.6 | 10.9 | 7.9 | 9.8 | 3.8 | 1.8 | 8.7 | 10.2 | 10.8 | 4.1 | 9.6 |
| 1995 | \% | 8.8 | 9.9 | 7.6 | 9.2 | 3.1 | 1.8 | 5.6 | 7.2 | 9.3 | 6.1 | 9.2 |
| 2000 | \% | 8.4 | 9.8 | 6.9 | 8.6 | 3.8 | 1.7 | 6.5 | 9.0 | 9.1 | 11.8 | 8.3 |
| Other |  |  |  |  |  |  |  |  |  |  |  |  |
| 1980 | \% | 17.5 | 16.4 | 20.0 | 17.9 | 7.0 | 5.7 | 8.3 | 21.4 | 18.4 | 22.0 | 17.7 |
| 1985 | \% | 18.7 | 17.0 | 21.7 | 19.3 | 4.1 | 5.1 | 6.6 | 25.7 | 17.5 | 21.6 | 19.0 |
| 1990 | \% | 18.1 | 15.4 | 21.6 | 18.5 | 7.5 | 3.3 | 7.2 | 27.7 | 18.5 | 16.3 | 18.1 |
| 1995 | \% | 17.3 | 14.9 | 20.0 | 18.0 | 7.2 | 5.1 | 6.2 | 25.1 | 14.8 | 15.2 | 18.0 |
| 2000 | \% | 18.7 | 14.3 | 23.3 | 19.4 | 5.5 | 4.4 | 8.4 | 25.6 | 15.8 | 16.5 | 19.2 |

${ }^{\text {a }}$ Includes U.S. citizens and non-U.S. citizens with permanent visas for whom sex is reported.
${ }^{\mathrm{b}}$ Includes Pacific Islander.
${ }^{〔}$ Includes Alaskan Native.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

## APPENDICES

## APPENDIX A: The Eight Basic Tables, 2000

Appendix A includes the following eight tables:
A-1 Number of Doctorate Recipients, by Sex and Subfield, 2000
A-2 Number of Doctorate Recipients, by Citizenship, Race/Ethnicity, and Subfield, 2000

A-3 Statistical Profile of Doctorate Recipients, by Major Field, 2000
A-4 Statistical Profile of Doctorate Recipients, by Race/Ethnicity and Citizenship, 2000

A-5 Sources of Graduate School Support for Doctorate Recipients, by Broad Field and Sex, 2000

A-6 State of Doctoral Institution of Doctorate Recipients, by Broad Field and Sex, 2000

A-7 Institutions Granting Doctorates, by Major Field, 2000
A-8 Top 50 Doctorate Granting Institutions, 2000

TABLE A-1 and TABLE A-2: Tables A-1 and A-2 display data for the most recent year by subfield of doctorate. Field groupings may differ from those in reports published by Federal sponsors of the Survey of Earned Doctorates (SED). The "general" field categories-e.g., "chemistry, general"-include individuals who either received the doctorate in the general subject area or did not indicate a particular specialty field. The "other" field categories-e.g., "chemistry, other"-include individuals whose specified doctoral discipline was not among the specialty fields listed.

Table A-1 presents data by doctoral specialty and sex. Table A-2 displays doctoral specialty by citizenship and race/ethnicity. For a detailed description of the racial/ethnic variable, see the explanatory note for Table A-4.

TABLE A-3: Table A-3 is composed of three 2-page tables. The first table (A-3a) includes data on all research doctorate recipients from the most recent year; the other two tables (A-3b and A-3c) present the same data by sex. Field groupings may differ from those in reports published by Federal sponsors of the SED. Terms requiring definition are as follows:

- Percentage with Master's: The percentage of doctorate recipients in a field who received a master ₹ degree in any field before earning the doctorate.
- Median Age at Doctorate: One-half received the doctorate at or before this age. A recipient's age is obtained by subtracting the month/year of birth from the month/year of doctorate (see note on next page).
— Median Time Lapse: "Total Time" refers to the total calendar time elapsed between the month/year of baccalaureate and the month/year of doctorate. "Registered Time" refers to the actual time in attendance at colleges and universities between receipt of the baccalaureate and the doctorate.
- Postgraduation Plans: Each year₹ doctorate recipients provide information on postgraduation employment or study plans in response to items B1 through B9 on the survey form. Since the questionnaire is filled out around the time the doctorate is awarded, a recipient $\mp$ plans are subject to change. However, comparisons with the longitudinal Survey of Doctorate Recipients (SDR) have shown SED data to be a reasonable indicator of actual employment status in the year following the doctorate, although results vary by sector. (The SDR is a follow-up employment survey of a sample of doctorate recipients in science, engineering, and, until 1995, humanities fields.)

In Table A-3 the postgraduation plans of doctorate recipients are grouped as follows: "Postdoctoral Study Plans" (fellowship, research internship, traineeship, other), "Planned Employment after Doctorate" (educational institution, industry, etc.), and "Postdoctoral Plans Unknown." These categories include recipients who were still negotiating or seeking positions at the time of survey completion, as well as those whose plans were definite. The sum of these lines equals 100 percent for each column, with allowance for rounding: for example, 33.5 percent of all agricultural sciences doctorate recipients had postdoctoral study plans, 59.0 percent planned to be employed, and 7.6 percent did not report their post-graduation plans, totaling 100.1 percent. The additional . 1 percent is due to the fact that the exact figure for each type of postdoctoral plans is not exact, but has been rounded (e.g. the actual figure for employment plans is 58.98618 which rounds to 59.0). The postdoctoral study row is further subdivided by type of study or appointment (fellowships, research associateships, traineeships, and other study). The percentages in these subdivisions sum to the percent of respondents in the given column who reported plans for postdoctoral study. The employment row is similarly subdivided by type of employer. The percentages for these rows add to percentage of respondents in the given column who planned employment. The category for educational institutions includes elementary and secondary schools as well as colleges and universities, and the category for government includes military service.

The four lines of data beginning with "Definite Postdoctoral Study" distinguish between individuals who had definite postgraduation plans at the time of survey completion (item B1: "Am returning to, or continuing in, predoctoral employment" or "Have signed contract or made definite commitment") and those who were still seeking employment or postdoctoral study (item B1: "Am negotiating with one or more specific organizations, """ Am seeking position but have no specific prospects," or "Other"). These four lines, when added to the prior line, "Postdoctoral Plans Unknown," total 100 percent with allowance for rounding. The two lines "Definite Postdoctoral Study" and "Seeking Postdoctoral Study" add to give the percentage for "Postdoctoral Study Plans"; the two lines "Definite Employment" and "Seeking Employment" add to give the percentage for "Planned Employment After Doctorate."

Percentages showing the distribution of doctorate recipients by postdoctoral work activity and region of employment are based only on the number of recipients who had definite employment commitments at the time they completed the questionnaire. These percentages exclude recipients who planned postdoctoral study (as described above) and recipients who were still seeking employment at the time they completed the questionnaire. (Note that the rows on specific postdoctoral study and employment plans discussed earlier include individuals whose plans were not definite.)

The U.S. regions of employment shown in Table A-3 include the following states and territories:

| New England: | Connecticut, Maine, Massachusetts, New Hampshire, <br> Rhode Island, Vermont |
| :--- | :--- |
| Middle Atlantic: | New Jersey, New York, Pennsylvania |
| East North Central: | Illinois, Indiana, Michigan, Ohio, Wisconsin |
| West North Central: | Iowa, Kansas, Minnesota, Missouri, Nebraska, North <br> Dakota, South Dakota |
| South Atlantic: | Delaware, District of Columbia, Florida, Georgia, <br> Maryland, North Carolina, South Carolina, Virginia, West |
|  | Virginia |
| East South Central: | Alabama, Kentucky, Mississippi, Tennessee |
| West South Central: | Arkansas, Louisiana, Oklahoma, Tex as |
| Mountain: | Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, |
| Pacific \& Insular: | Utah, Wyoming |
|  | Alaska, California, Hawaii, Oregon, Washington, American |
| Samoa, Guam, Puerto Rico, Trust Territory, Virgin Islands |  |

TABLE A-4: Table A-4 contains data by race/ethnicity and citizenship for selected variables included in Tables A-3 and A-5. Field groupings may differ from those in reports published by Federal sponsors of the SED.

The racial/ethnic question has undergone several revisions over the years. In 1977 it was modified to correspond to a standard question format recommended by the Federal Interagency Committee on Education and adopted by the Office of Management and Budget (OMB) for use in Federally sponsored surveys; an explanation of the effect of these changes is detailed on page 13 of Summary Report 1977. (Note: Changes in the OMB guidelines prompted the reclassification of persons having origins in the Indian subcontinent from the white category to the Asian category.) In 1980 the item was further revised in two ways: (1) the Hispanic category was subdivided into Puerto Rican, Mexican American, and other Hispanic to provide more detail for users of the racial/ethnic data; and (2) respondents were asked to check only one racial
category. (Before 1980, doctorate recipients could check more than one category to indicate their race.)

The item was modified again in 1982 to separate the questions on race and ethnicity. Since then respondents have been asked to first indicate whether or not they are Hispanic, and then check one of the four racial group categories (American Indian, Asian, black, or white). In Table A-4, doctorate recipients who reported Hispanic heritage, regardless of racial designation, are included in one of three Hispanic groups: Puerto Rican, Mexican American, or other Hispanic. The remaining survey respondents are then counted in the respective racial groups. (Note: Doctorate recipients who checked the category "American Indian or Alaskan Native" are identified as American Indian in this report.)

In the section of "Doctoral Program Support" a recipient counts in more than one category if support was received from multiple sources. Because a student counts more than once for sources of support, the vertical percentages sum to more than 100 percent. See the explanatory note on Appendix Table A-5 for further detail. (Data on the primary source of support for doctorate recipients are presented in the body of the report.)

The other sections in Table A-4 correspond to many of those in Appendix Table A-3. The reader is referred to the explanatory note on Table A-3 for additional information.

TABLE A-5: Table A-5 displays data reported in item A11 on financial resources used in support of the respondent's doctoral program, by broad field and sex of recipient. Field groupings may differ from those in reports published by Federal sponsors of the SED.

A recipient counts in more than one category in Table A-5 if more than one financial resource was reported. Because a student counts once for each of his/her financial resources, the vertical percentages sum to more than 100 percent. (Data on the primary financial resources for doctorate recipients are presented in the body of the report.) Please consult Appendix C: Technical Notes for additional information on changes in the coding of Sources of Support/Financial Resources.

TABLE A-6: Table A-6 shows, by broad field and sex, the number of persons receiving a research doctorate in the most recent year from institutions in each of the 50 states, the District of Columbia, and Puerto Rico. Field groupings may differ from those in reports published by Federal sponsors of the SED. See Appendix E of the Summary Report for a description of field groupings as reported in this table; see the questionnaire 's Specialties List in Appendix D of the Summary Report for the names and codes of the subfields included.

TABLE A-7: Table A-7 displays data by doctorate-granting institution and major field. It includes all institutions in the United States (the 50 states, the District of Columbia, and Puerto Rico) that awarded research doctoral degrees in the most recent year. Field groupings may differ
from those in reports published by Federal sponsors of the SED and from departmental designations at institutions.

TABLE A-8: Table A-8 presents the 50 doctorate granting institutions which conferred the greatest number of doctorates in AY 2000. The number of doctorate degrees granted is also shown for each ranked institution.

APPENDIX TABLE A-1. Number of doctorate recipients, by sex and subfield, 2000

| Subfield of Doctorate | Number of Doctorates |  |  |
| :---: | :---: | :---: | :---: |
|  | Total | Men | Women |
| TOTAL ALL FIELDS ${ }^{\text {a }}$ | 41,368 | 23,173 | 18,121 |
| PHYSICAL SCIENCES | 6,077 | 4,596 | 1,466 |
| MATHEMATICS | 1,048 | 789 | 258 |
| Applied Mathematics | 238 | 179 | 59 |
| Algebra | 82 | 61 | 21 |
| Analysis \& Functional Analysis | 81 | 66 | 15 |
| Geometry | 59 | 51 | 8 |
| Logic | 19 | 17 | 2 |
| Number Theory | 40 | 35 | 5 |
| Mathematical Statistics | 194 | 123 | 71 |
| Topology | 50 | 40 | 10 |
| Computing Theory \& Practice | 17 | 15 | 2 |
| Operations Research | 19 | 16 | 3 |
| Mathematics, General | 150 | 116 | 33 |
| Mathematics, Other | 99 | 70 | 29 |
| COMPUTER SCIENCE | 861 | 717 | 142 |
| Computer Science | 722 | 618 | 104 |
| Information Sciences \& Systems | 139 | 99 | 38 |
| PHYSICS \& ASTRONOMY | 1,392 | 1,185 | 204 |
| Astronomy | 80 | 55 | 25 |
| Astrophysics | 107 | 91 | 16 |
| Acoustics | 10 | 9 | 1 |
| Chemical \& Atomic/Molecular | 110 | 89 | 21 |
| Elementary Particles | 147 | 132 | 15 |
| Fluids | 10 | 10 | 0 |
| Nuclear | 74 | 65 | 9 |
| Optics | 117 | 99 | 16 |
| Plasma \& High-Temperature | 38 | 38 | 0 |
| Polymer | 21 | 15 | 6 |
| Solid State \& Low-Temperature | 279 | 237 | 42 |
| Physics, General | 225 | 193 | 31 |
| Physics, Other | 174 | 152 | 22 |
| CHEMISTRY | 1,990 | 1,362 | 624 |
| Analytical | 326 | 205 | 121 |
| Inorganic | 221 | 157 | 64 |
| Nuclear | 9 | 6 | 3 |
| Organic | 524 | 384 | 140 |
| Medicinal/Pharmaceutical | 107 | 55 | 51 |
| Physical | 271 | 195 | 76 |
| Polymer | 106 | 75 | 31 |
| Theoretical | 52 | 40 | 12 |
| Chemistry, General | 264 | 181 | 81 |
| Chemistry, Other | 110 | 64 | 45 |
| EARTH, ATMOS., \& MARINE SCI. | 786 | 543 | 238 |
| Atmospheric Physics \& Chemistry | 39 | 27 | 12 |
| Atmospheric Dynamics | 17 | 14 | 3 |
| Meteorology | 34 | 27 | 6 |
| Atmos. Sci./Meteorology, General | 36 | 28 | 7 |
| Atmos. Sci./Meteorology, Other | 17 | 12 | 5 |
| Geology | 124 | 94 | 29 |
| Geochemistry | 48 | 35 | 13 |
| Geophysics \& Seismology | 69 | 53 | 16 |
| Paleontology | 31 | 17 | 14 |
| Mineralogy, Petrology | 5 | 4 | 1 |
| Stratigraphy, Sedimentation | 13 | 0 | 4 |
| Geomorphology \& Glacial Geology | 14 | 10 | 4 |
| Geological \& Related Sci., General | 20 | 15 | 5 |
| Geological \& Related Sci., Other | 18 | 11 | 7 |
| Environmental Science | 94 | 50 | 42 |
| Hydrology \& Water Resources | 43 | 27 | 16 |
| Oceanography | 100 | 71 | 29 |
| Marine Sciences | 35 | 18 | 17 |
| Misc. Physical Sciences, Other | 29 | 21 | 8 |
| ENGINEERING | 5,330 | 4,463 | 839 |
| Aerospace, Aeronautic., Astronautic. | 215 | 192 | 21 |
| Agricultural | 60 | 52 | 7 |
| Bioengineering \& Biomedical | 252 | 179 | 71 |
| Ceramic Sciences | 22 | 14 | 8 |
| Chemical | 620 | 487 | 131 |
| Civil | 482 | 404 | 78 |
| Communications | 42 | 35 | 7 |
| Computer | 172 | 139 | 32 |
| Electrical, Electronics | 1,330 | 1,162 | 157 |
| Engineering Mechanics | 57 | 50 | 7 |
| Engineering Physics | 26 | 25 | 1 |
| Engineering Science | 34 | 28 | 6 |
| Environmental Health Engineering | 76 | 64 | 10 |
| Industrial/Manufacturing | 176 | 140 | 35 |
| Materials Science | 404 | 330 | 73 |
| Mechanical | 807 | 717 | 89 |
| Metallurgical | 25 | 23 | 2 |
| Mining \& Mineral | 10 | 10 | 0 |
| Nuclear | 98 | 89 | 9 |
| Ocean | 18 | 15 | 3 |


| Subfield of Doctorate | Number of Doctorates |  |  |
| :---: | :---: | :---: | :---: |
|  | Total | Men | Women |
| Operations Research | 51 | 40 | 11 |
| Petroleum | 44 | 37 | 6 |
| Polymer/Plastics | 62 | 47 | 15 |
| Systems | 34 | 28 | 6 |
| Engineering, General | 43 | 31 | 10 |
| Engineering, Other | 170 | 125 | 44 |
| LIFE SCIENCES | 8,529 | 4,524 | 3,997 |
| BIOLOGICAL SCIENCES | 5,855 | 3,228 | 2,621 |
| Biochemistry | 777 | 451 | 325 |
| Biomedical Sciences | 155 | 85 | 68 |
| Biophysics | 164 | 115 | 49 |
| Biotechnology Research | 14 | 8 | 6 |
| Bacteriology | 15 | 9 | 6 |
| Plant Genetics | 35 | 18 | 17 |
| Plant Pathology | 25 | 17 | 8 |
| Plant Physiology | 39 | 24 | 15 |
| Botany, Other | 92 | 39 | 53 |
| Anatomy | 40 | 23 | 17 |
| Biometrics and Biostatistics | 92 | 51 | 41 |
| Cell Biology | 337 | 181 | 155 |
| Ecology | 297 | 181 | 116 |
| Developmental Biology/Embryology | 111 | 51 | 60 |
| Endocrinology | 20 | 12 | 8 |
| Entomology | 137 | 100 | 37 |
| Biological Immunology | 238 | 123 | 115 |
| Molecular Biology | 705 | 387 | 318 |
| Microbiology | 383 | 193 | 190 |
| Neuroscience | 495 | 300 | 195 |
| Nutritional Sciences | 150 | 24 | 126 |
| Parasitology | 19 | 11 | 8 |
| Toxicology | 123 | 65 | 58 |
| Human \& Animal Genetics | 225 | 112 | 113 |
| Human \& Animal Pathology | 105 | 61 | 44 |
| Human \& Animal Pharmacology | 267 | 143 | 123 |
| Human \& Animal Physiology | 244 | 143 | 101 |
| Zoology, Other | 133 | 78 | 55 |
| Biological Sciences, General | 200 | 117 | 83 |
| Biological Sciences, Other | 218 | 106 | 111 |
| HEALTH SCIENCES | 1,589 | 524 | 1,063 |
| Speech-Lang. Pathology \& Audiology | 106 | 27 | 79 |
| Environmental Health | 52 | 24 | 28 |
| Health Systems/Services Admin. | 58 | 25 | 33 |
| Public Health | 207 | 75 | 132 |
| Epidemiology | 190 | 59 | 131 |
| Exercise Physiology/Sci., Kinesiology | 130 | 82 | 48 |
| Nursing | 413 | 16 | 397 |
| Pharmacy | 164 | 91 | 73 |
| Rehabilitation/Therapeutic Services | 40 | 17 | 23 |
| Veterinary Medicine | 50 | 29 | 21 |
| Health Sciences, General | 50 | 20 | 30 |
| Health Sciences, Other | 129 | 59 | 68 |
| AGRICULTURAL SCIENCES | 1,085 | 772 | 313 |
| Agricultural Economics | 137 | 99 | 38 |
| Agricultural Business \& Management | 5 | 4 | 1 |
| Animal Breeding \& Genetics | 22 | 18 | 4 |
| Animal Nutrition | 46 | 38 | 8 |
| Dairy Science | 9 | 9 | 0 |
| Poultry Science | 9 | 6 | 3 |
| Fisheries Science \& Management | 43 | 32 | 11 |
| Animal Sciences, Other | 73 | 47 | 26 |
| Agronomy \& Crop Science | 70 | 56 | 14 |
| Plant Breeding \& Genetics | 68 | 45 | 23 |
| Plant Pathology | 63 | 51 | 12 |
| Plant Sciences, Other | 29 | 19 | 10 |
| Food Engineering | 10 | 8 | 2 |
| Food Sciences, Other | 142 | 76 | 66 |
| Soil Chemistry/Microbiology | 26 | 18 | 8 |
| Soil Sciences, Other | 64 | 49 | 15 |
| Horticulture Science | 55 | 39 | 16 |
| Forest Biology | 22 | 14 | 8 |
| Forest Engineering | 3 | 3 | 0 |
| Forest Management | 13 | 11 | 2 |
| Wood Sci. \& Pulp/Paper Tech. | 11 | 10 | 1 |
| Conservation/Renewable Nat. Res. | 19 | 14 | 5 |
| Forestry \& Related Sci., Other | 54 | 37 | 17 |
| Wildlife/Range Management | 56 | 45 | 11 |
| Agricultural Sciences, General | 10 | 8 | 2 |
| Agricultural Sciences, Other | 26 | 16 | 10 |
| SOCIAL SCIENCES \& PSYCHOLOGY | 7,115 | 3,227 | 3,879 |
| SOCIAL SCIENCES | 3,492 | 2,022 | 1,465 |
| Anthropology | 446 | 194 | 252 |
| Area Studies | 14 | 10 | 4 |
| Criminology | 66 | 32 | 34 |
| Demography/Population Studies | 19 | 10 | 9 |
| Economics | 933 | 679 | 252 |
| Econometrics | 15 | 12 | 3 |
| Geography | 197 | 127 | 70 |

APPENDIX TABLE A-1. Number of doctorate recipients, by gender and subfield, 2000 (continued)

| Subfield of Doctorate | Number of Doctorates |  |  | Subfield of Doctorate | Number of Doctorates |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Men | Women |  | Total | Men | Women |
| International Relations/Affairs | 77 | 50 | 26 | Educational Admin. \& Supervision | 810 | 314 | 496 |
| Political Science and Government | 670 | 433 | 236 | Educational Leadership | 1,199 | 464 | 734 |
| Public Policy Analysis | 137 | 75 | 62 | Educ./Instruct. Media Design | 138 | 64 | 74 |
| Sociology | 615 | 248 | 366 | Educ. Stat./Research Methods | 55 | 23 | 32 |
| Statistics | 60 | 38 | 22 | Educ. Assess., Test., \& Meas. | 45 | 23 | 22 |
| Urban Affairs/Studies | 78 | 50 | 28 | Educational Psychology | 278 | 73 | 205 |
| Social Sciences, General | 39 | 19 | 20 | School Psychology | 137 | 36 | 101 |
| Social Sciences, Other | 126 | 45 | 81 | Social/Phil. Found. Of Educ. | 135 | 56 | 79 |
|  |  |  |  | Special Education | 259 | 49 | 210 |
| PSYCHOLOGY | 3,623 | 1,205 | 2,414 | Counseling Educ./Couns. \& Guidance | 214 | 76 | 137 |
|  |  |  |  | Higher Educ./Evaluation \& Research | 438 | 179 | 259 |
| Clinical | 1,357 | 359 | 996 | Pre-elementary/Early Childhood | 34 | 4 | 30 |
| Cognitive \& Psycholinguistics | 141 | 75 | 66 | Elementary Education | 53 | 8 | 45 |
| Comparative | 7 | 5 | 2 | Secondary Education | 23 | 8 | 15 |
| Counseling | 475 | 163 | 312 | Adult \& Continuing Education | 150 | 51 | 99 |
| Developmental and Child | 203 | 40 | 163 |  |  |  |  |
| Human/Indv. \& Family Development | 148 | 45 | 103 | TEACHING FIELDS | 828 | 329 | 499 |
| Experimental | 133 | 74 | 59 |  |  |  |  |
| Educational | 97 | 34 | 63 | Agricultural Education | 22 | 17 | 5 |
| Family \& Marriage Counseling | 54 | 25 | 29 | Art Education | 31 | 7 | 24 |
| Industrial \& Organizational | 188 | 75 | 112 | Business Education | 37 | 19 | 18 |
| Personality | 23 | 9 | 14 | English Education | 44 | 10 | 34 |
| Physiological/Psychobiology | 89 | 33 | 56 | Foreign Languages Education | 43 | 13 | 30 |
| Psychometrics | 13 | 8 | 5 | Health Education | 71 | 21 | 50 |
| Quantitative | 8 | 6 | 2 | Home Economics Education | 14 | 4 | 10 |
| School | 98 | 21 | 77 | Technical/Industrial Arts Education | 21 | 10 | 11 |
| Social | 209 | 74 | 135 | Mathematics Education | 91 | 41 | 50 |
| Psychology, General | 239 | 102 | 136 | Music Education | 78 | 41 | 37 |
| Psychology, Other | 141 | 57 | 84 | Nursing Education | 11 | 1 | 10 |
|  |  |  |  | Physical Education and Coaching | 83 | 44 | 39 |
| HUMANITIES | 5,634 | 2,799 | 2,830 | Reading Education | 89 | 15 | 74 |
|  |  |  |  | Science Education | 60 | 25 | 35 |
| GENERAL HUMANITIES | 3,751 | 2,027 | 1,719 | Social Science Education | 40 | 17 | 23 |
|  |  |  |  | Technical Education | 20 | 13 | 7 |
| History, American | 442 | 262 | 180 | Trade \& Industrial Education | 12 | 8 | 4 |
| History, Asian | 51 | 35 | 16 | Teacher Ed./Spec. Acad. \& Voc., Other | 61 | 23 | 38 |
| History, European | 243 | 155 | 88 |  |  |  |  |
| History/Philosophy of Sci. \& Tech. | 42 | 25 | 17 | OTHER EDUCATION | 656 | 201 | 454 |
| History, General | 103 | 65 | 38 |  |  |  |  |
| History, Other | 179 | 112 | 67 | Education, General | 255 | 78 | 176 |
| Classics | 63 | 35 | 28 | Education, Other | 401 | 123 | 278 |
| Comparative Literature | 188 | 74 | 114 |  |  |  |  |
| Linguistics | 229 | 95 | 134 | PROFESSIONAL/OTHER FIELDS ${ }^{\text {b }}$ | 2,263 | 1,314 | 943 |
| Speech \& Rhetorical Studies | 143 | 53 | 90 |  |  |  |  |
| Letters, General | 55 | 25 | 30 | BUSINESS AND MANAGEMENT | 1,071 | 726 | 340 |
| Letters, Other | 92 | 42 | 50 |  |  |  |  |
| American Studies | 113 | 50 | 63 | Accounting | 111 | 58 | 53 |
| Archaeology | 36 | 12 | 24 | Banking/Financial Support Services | 72 | 60 | 12 |
| Art History/Criticism/Conservation | 228 | 69 | 159 | Business Admin. \& Management | 325 | 232 | 92 |
| Music | 749 | 404 | 340 | Business/Managerial Economics | 52 | 35 | 16 |
| Philosophy | 363 | 260 | 103 | International Business | 34 | 22 | 11 |
| Religion | 350 | 217 | 133 | Mgmt. Info. Sys./Bus. Data Proc. | 85 | 70 | 15 |
| Drama/Theater Arts | 82 | 37 | 45 | Marketing Management \& Research | 140 | 96 | 44 |
|  |  |  |  | Operations Research | 61 | 50 | 11 |
| LANGUAGE \& LITERATURE | 1,711 | 695 | 1,016 | Organizational Behavior | 99 | 48 | 51 |
|  |  |  |  | Bus. Mgmt./Admin. Serv., General | 36 | 23 | 11 |
| American Literature | 460 | 198 | 262 | Bus. Mgmt./Admin. Serv., Other | 56 | 32 | 24 |
| English Literature | 544 | 223 | 321 |  |  |  |  |
| English Language | 66 | 27 | 39 | COMMUNICATIONS | 389 | 181 | 208 |
| French | 143 | 41 | 102 |  |  |  |  |
| German | 83 | 37 | 46 | Communications Research | 53 | 25 | 28 |
| Italian | 16 | 5 | 11 | Mass Communications | 153 | 82 | 71 |
| Spanish | 218 | 79 | 139 | Communications Theory | 39 | 14 | 25 |
| Russian | 29 | 8 | 21 | Communications, General | 78 | 34 | 44 |
| Slavic | 14 | 5 | 9 | Communications, Other | 66 | 26 | 40 |
| Chinese | 21 | 7 | 14 |  |  |  |  |
| Japanese | 18 | 10 | 8 | OTHER PROFESSIONAL FIELDS | 797 | 404 | 393 |
| Hebrew | 11 | 8 | 3 |  |  |  |  |
| Arabic | 15 | 10 | 5 | Architectural/Environmental Design | 60 | 38 | 22 |
| Other Language \& Literature | 73 | 37 | 36 | Home Economics | 23 | 0 | 23 |
|  |  |  |  | Law | 41 | 25 | 16 |
| OTHER HUMANITIES | 172 | 77 | 95 | Library Science | 45 | 14 | 31 |
|  |  |  |  | Parks/Recreation/Leisure/Fitness | 45 | 31 | 14 |
| Humanities, General | 40 | 23 | 17 | Public Administration | 102 | 61 | 41 |
| Humanities, Other | 132 | 54 | 78 | Social Work | 259 | 71 | 188 |
|  |  |  |  | Theology/Religious Education | 170 | 133 | 37 |
| EDUCATION | 6,420 | 2,250 | 4,167 | Professional Fields, General | 3 | 3 | 0 |
|  |  |  |  | Professional Fields, Other | 49 | 28 | 21 |
| RESEARCH \& ADMINISTRATION | 4,936 | 1,720 | 3,214 |  |  |  |  |
|  | 968 | 292 | 676 | OTHER FIELDS | 1 | 1 | 0 |

[^18]Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

APPENDIX TABLE A-2. Number of doctorate recipients, by citizenship, race/ethnicity, and subfield, 2000

| Subfield of Doctorate | Total Doctorates ${ }^{\text {a }}$ | Non-U.S. Citizens Temp. Visas | U.S. Citizens and Non-U.S. with Permanent Visas |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Total | $\begin{gathered} \hline \text { American } \\ \text { Indian }^{\text {b }} \\ \hline \end{gathered}$ | Asian ${ }^{\text {c }}$ | Black | White | Puerto <br> Rican | Mexican American | Other Hispanic | Unknown Race |
| TOTAL ALL FIELDS | 41,368 | 9,648 | 29,837 | 169 | 2,315 | 1,775 | 23,651 | 307 | 411 | 561 | 648 |
| PHYSICAL SCIENCES | 6,077 | 2,161 | 3,619 | 17 | 379 | 101 | 2,914 | 30 | 40 | 52 | 86 |
| MATHEMATICS | 1,048 | 442 | 568 | 2 | 70 | 14 | 460 | 2 | 8 | 4 | 8 |
| Applied Mathematics | 238 | 118 | 116 | 1 | 24 | 4 | 81 | 0 | 5 | 1 | 0 |
| Algebra | 82 | 27 | 55 | 0 | 6 | 1 | 46 | 0 | 1 | 1 | 0 |
| Analysis \& Functional Analysis | 81 | 39 | 41 | 0 | 2 | 1 | 37 | 1 | 0 | 0 | 0 |
| Geometry | 59 | 32 | 27 | 0 | 5 | 0 | 20 | 0 | 0 | 0 | 2 |
| Logic | 19 | 6 | 12 | 0 | 0 | 1 | 11 | 0 | 0 | 0 | 0 |
| Number Theory | 40 | 17 | 23 | 0 | 2 | 0 | 20 | 0 | 0 | 1 | 0 |
| Mathematical Statistics | 194 | 70 | 122 | 1 | 19 | 2 | 96 | 1 | 1 | 1 | 1 |
| Topology | 50 | 19 | 31 | 0 | 1 | 0 | 30 | 0 | 0 | 0 | 0 |
| Computing Theory \& Practice | 17 | 8 | 8 | 0 | 2 | 0 | 6 | 0 | 0 | 0 | 0 |
| Operations Research | 19 | 7 | 12 | 0 | 3 | 2 | 7 | 0 | 0 | 0 | 0 |
| Mathematics, General | 150 | 62 | 60 | 0 | 4 | 1 | 50 | 0 | 0 | 0 | 5 |
| Mathematics, Other | 99 | 37 | 61 | 0 | 2 | 2 | 56 | 0 | 1 | 0 | 0 |
| COMPUTER SCIENCE | 861 | 361 | 458 | 1 | 77 | 18 | 337 | 4 | 4 | 5 | 12 |
| Computer Science | 722 | 331 | 359 | 1 | 67 | 10 | 261 | 3 | 4 | 4 | 9 |
| Information Sciences \& Systems | 139 | 30 | 99 | 0 | 10 | 8 | 76 | 1 | 0 | 1 | 3 |
| PHYSICS \& ASTRONOMY | 1,392 | 500 | 828 | 2 | 82 | 17 | 684 | 1 | 6 | 19 | 17 |
| Astronomy | 80 | 17 | 63 | 1 | 7 | 1 | 51 | 0 | 1 | 1 | 1 |
| Astrophysics | 107 | 26 | 77 | 0 | 6 | 0 | 65 | 0 | 0 | 1 | 5 |
| Acoustics | 10 | 3 | 7 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 |
| Chemical \& Atomic/Molecular | 110 | 38 | 69 | 0 | 6 | 1 | 60 | 0 | 1 | 1 | 0 |
| Elementary Particles | 147 | 57 | 86 | 1 | 8 | 3 | 69 | 0 | 1 | 3 | 1 |
| Fluids | 10 | 4 | 5 | 0 | 1 | 0 | 4 | 0 | 0 | 0 | 0 |
| Nuclear | 74 | 32 | 41 | 0 | 2 | 0 | 36 | 0 | 1 | 2 | 0 |
| Optics | 117 | 46 | 63 | 0 | 5 | 2 | 53 | 0 | 1 | 1 | 1 |
| Plasma \& High-Temperature | 38 | 10 | 27 | 0 | 4 | 1 | 20 | 0 | 0 | 1 | 1 |
| Polymer | 21 | 13 | 7 | 0 | 1 | 0 | 6 | 0 | 0 | 0 | 0 |
| Solid State \& Low-Temperature | 279 | 127 | 152 | 0 | 18 | 5 | 121 | 1 | 0 | 3 | 4 |
| Physics, General | 225 | 68 | 118 | 0 | 14 | 2 | 96 | 0 | 1 | 3 | 2 |
| Physics, Other | 174 | 59 | 113 | 0 | 10 | 2 | 96 | 0 | 0 | 3 | 2 |
| CHEMISTRY | 1,990 | 648 | 1,236 | 7 | 120 | 44 | 984 | 18 | 17 | 15 | 31 |
| Analytical | 326 | 96 | 227 | 1 | 27 | 10 | 172 | 5 | 5 | 4 | 3 |
| Inorganic | 221 | 54 | 163 | 0 | 7 | 3 | 150 | 1 | 0 | 0 | 2 |
| Nuclear | 9 | 5 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 |
| Organic | 524 | 187 | 328 | 3 | 34 | 12 | 267 | 2 | 4 | 3 | 3 |
| Medicinal/Pharmaceutical | 107 | 40 | 55 | 0 | 10 | 1 | 43 | 0 | 1 | 0 | 0 |
| Physical | 271 | 96 | 170 | 0 | 16 | 5 | 139 | 0 | 4 | 1 | 5 |
| Polymer | 106 | 48 | 57 | 0 | 7 | 3 | 42 | 2 | 0 | 1 | 2 |
| Theoretical | 52 | 21 | 31 | 0 | 2 | 2 | 24 | 1 | 0 | 1 | 1 |
| Chemistry, General | 264 | 71 | 126 | 2 | 10 | 5 | 84 | 7 | 3 | 4 | 11 |
| Chemistry, Other | 110 | 30 | 75 | 1 | 7 | 3 | 59 | 0 | 0 | 1 | 4 |
| EARTH, ATMOS., \& MARINE SCI. | 786 | 210 | 529 | 5 | 30 | 8 | 449 | 5 | 5 | 9 | 18 |
|  |  |  | 27 |  |  |  | 24 |  |  |  |  |
| Atmospheric Dynamics | 17 | 10 | 7 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 |
| Meteorology | 34 | 10 | 23 | 0 | 2 | 1 | 17 | 2 | 0 | 0 | 1 |
| Atmos. Sci./Meteorology, General | 36 | 11 | 21 | 0 | 2 | 0 | 18 | 0 | 0 | 0 | 1 |
| Atmos. Sci./Meteorology, Other | 17 | 6 | 8 | 0 | 1 | 0 | 7 | 0 | 0 | 0 | 0 |
| Geology | 124 | 27 | 90 | 3 | 3 | 0 | 76 | 1 | 3 | 1 | 3 |
| Geochemistry | 48 | 10 | 38 | 0 | 2 | 1 | 34 | 0 | 0 | 0 | 1 |
| Geophysics \& Seismology | 69 | 26 | 39 | 0 | 3 | 0 | 36 | 0 | 0 | 0 | 0 |
| Paleontology | 31 | 2 | 28 | 0 | 1 | 0 | 24 | 1 | 0 | 0 | 2 |
| Mineralogy, Petrology | 5 | 2 | 3 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 |
| Stratigraphy, Sedimentation | 13 | 6 | 7 | 1 | 0 | 0 | 4 | 0 | 0 | 0 | 2 |
| Geomorphology \& Glacial Geology | 14 | 0 | 14 | 0 | 0 | 0 | 13 | 0 | 0 | 0 | 1 |
| Geological \& Related Sci., General | 20 | 6 | 9 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 |
| Geological \& Related Sci., Other | 18 | 5 | 13 | 0 | 0 | 0 | 12 | 0 | 0 | 1 | 0 |
| Environmental Science | 94 | 28 | 57 | 1 | 6 | 4 | 38 | 0 | 1 | 2 | 5 |
| Hydrology \& Water Resources | 43 | 14 | 28 | 0 | 3 | 0 | 25 | 0 | 0 | 0 | 0 |
| Oceanography | 100 | 25 | 66 | 0 | 5 | 0 | 57 | 0 | 1 | 3 | 0 |
| Marine Sciences | 35 | 4 | 31 | 0 | 0 | 1 | 29 | 1 | 0 | 0 | 0 |
| Misc. Physical Sciences, Other | 29 | 8 | 20 | 0 | 1 | 1 | 17 | 0 | 0 | 1 | 0 |
| ENGINEERING | 5,330 | 2,444 | 2,556 | 8 | 447 | 83 | 1,878 | 20 | 25 | 35 | 60 |
| Aerospace, Aeronautic., Astronautic. | 215 | 75 | 127 | 0 | 12 | 4 | 107 | 0 | 0 | 3 | 1 |
| Agricultural | 60 | 39 | 18 | 0 | 0 | 0 | 16 | 0 | 1 | 0 | 1 |
| Bioengineering \& Biomedical | 252 | 63 | 163 | 1 | 23 | 6 | 127 | 1 | 2 | 1 | 2 |
| Ceramic Sciences | 22 | 10 | 12 | 0 | 2 | 0 | 9 | 1 | 0 | 0 | 0 |
| Chemical | 620 | 253 | 339 | 1 | 54 | 9 | 257 | 4 | 4 | 7 | 3 |
| Civil | 482 | 254 | 215 | 1 | 40 | 5 | 157 | 2 | 3 | 3 | 4 |
| Communications | 42 | 27 | 14 | 0 | 7 | 0 | 7 | 0 | 0 | 0 | 0 |
| Computer | 172 | 99 | 66 | 0 | 21 | 1 | 41 | 0 | 0 | 1 | 2 |
| Electrical \& Electronics | 1,330 | 651 | 563 | 0 | 113 | 20 | 394 | 6 | 4 | 11 | 15 |
| Engineering Mechanics | 57 | 31 | 23 | 0 | 1 | 1 | 20 | 1 | 0 | 0 | 0 |
| Engineering Physics | 26 | 8 | 17 | 0 | 3 | 0 | 14 | 0 | 0 | 0 | 0 |
| Engineering Science | 34 | 18 | 15 | 0 | 3 | 1 | 9 | 0 | 0 | 0 | 2 |
| Environmental Health Engineering | 76 | 26 | 45 | 0 | 6 | 1 | 36 | 0 | 0 | 0 | 2 |
| Industrial/Manufacturing | 176 | 93 | 77 | 0 | 11 | 4 | 59 | 0 | 0 | 0 | 3 |
| Materials Science | 404 | 161 | 219 | 0 | 32 | 6 | 172 | 2 | 3 | 1 | 3 |

APPENDIX TABLE A-2. Number of doctorate recipients, by citizenship, race/ethnicity, and subfield, 2000 (continued)

| Subfield of Doctorate | Total Doctorates ${ }^{\text {a }}$ | Non-U.S. Citizens Temp. Visas | U.S. Citizens and Non-U.S. with Permanent Visas |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Total | $\begin{aligned} & \text { American } \\ & \text { Indian }^{\text {b }} \end{aligned}$ | Asian ${ }^{\text {c }}$ | Black | White | Puerto Rican | Mexican American | Other Hispanic | Unknown Race |
| Mechanical | 807 | 400 | 372 | 3 | 72 | 17 | 256 | 1 | 6 | 4 | 13 |
| Metallurgical | 25 | 10 | 12 | 0 | 1 | 0 | 9 | 0 | 0 | 1 | 1 |
| Mining \& Mineral | 10 | 8 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| Nuclear | 98 | 34 | 57 | 1 | 5 | 3 | 43 | 0 | 2 | 1 | 2 |
| Ocean | 18 | 11 | 5 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 |
| Operations Research | 51 | 18 | 32 | 0 | 10 |  | 16 | 1 | 0 | 1 | 3 |
| Petroleum | 44 | 25 | 11 | 0 | 4 | 0 | 6 | 0 | 0 | 1 | 0 |
| Polymer/Plastics | 62 | 30 | 30 | 0 | 13 | 0 | 15 | 1 | 0 | 0 | 1 |
| Systems | 34 | 16 | 14 | 1 | 2 | 0 | 11 | 0 | 0 | 0 | 0 |
| Engineering, General | 43 | 17 | 19 | 0 | 2 | 1 | 16 | 0 | 0 | 0 | 0 |
| Engineering, Other | 170 | 67 | 89 | 0 | 10 | 3 | 74 | 0 | 0 | 0 | 2 |
| LIFE SCIENCES | 8,529 | 2,189 | 6,011 | 26 | 686 | 222 | 4,716 | 49 | 64 | 125 | 123 |
| BIOLOGICAL SCIENCES | 5,855 | 1,390 | 4,260 | 17 | 550 | 123 | 3,306 | 33 | 46 | 94 | 91 |
| Biochemistry | 777 | 229 | 529 | 2 | 96 | 12 | 386 | 1 | 6 | 9 | 17 |
| Biomedical Sciences | 155 | 44 | 98 | 1 | 18 | 1 | 74 | 0 | 1 | 2 | 1 |
| Biophysics | 164 | 48 | 113 | 0 | 13 | 2 | 90 | 0 | 1 | 3 | 4 |
| Biotechnology Research | 14 | 6 | 8 | 0 | 2 | 1 | 5 | 0 | 0 | 0 | 0 |
| Bacteriology | 15 | 4 | 11 | 1 | 0 | 0 | 10 | 0 | 0 | 0 | 0 |
| Plant Genetics | 35 | 11 | 24 | 0 | 4 | 0 | 19 | 0 | 0 | 1 | 0 |
| Plant Pathology | 25 | 14 | 11 | 0 | 1 | 0 | 9 | 0 | 0 | 0 | 1 |
| Plant Physiology | 39 | 14 | 25 | 0 | 1 | 0 | 22 | 0 | 2 | 0 | 0 |
| Botany, Other | 92 | 20 | 70 | 1 | 2 | 1 | 62 | 0 | 1 | 1 | 2 |
| Anatomy | 40 | 7 | 32 | 0 | 5 | 2 | 23 | 1 | 0 | 1 | 0 |
| Biometrics and Biostatistics | 92 | 23 | 61 | 0 | 10 | 6 | 41 | 0 | 0 | 2 | 2 |
| Cell Biology | 337 | 73 | 252 | 1 | 35 | 4 | 199 | 2 | 2 | 5 | 4 |
| Ecology | 297 | 34 | 255 | 1 | 6 | 3 | 228 | 1 | 2 | 5 | 9 |
| Developmental Biology/Embryology | 111 | 26 | 85 | 0 | 9 | 2 | 70 | 1 | 3 | 0 | 0 |
| Endocrinology | 20 | 7 | 11 | 0 | 2 | 0 | 8 | 0 | 0 | 1 | 0 |
| Entomology | 137 | 50 | 84 | 1 | 4 | 1 | 74 | 1 | 0 | 2 | 1 |
| Biological Immunology | 238 | 52 | 185 | 0 | 29 | 4 | 140 | 0 | 1 | 8 | 3 |
| Molecular Biology | 705 | 201 | 485 | 3 | 94 | 11 | 348 | 4 | 5 | 9 | 11 |
| Microbiology | 383 | 91 | 278 | 1 | 36 | 15 | 207 | 8 | 1 | 4 | 6 |
| Neuroscience | 495 | 103 | 368 | 2 | 58 | 12 | 275 | 1 | 3 | 10 | 7 |
| Nutritional Sciences | 150 | 36 | 109 | 0 | 15 | 11 | 74 | 2 | 3 | 2 | 2 |
| Parasitology | 19 | 6 | 13 | 0 | 1 | 2 | 9 | 0 | 0 | 1 | 0 |
| Toxicology | 123 | 24 | 97 | 0 | 5 | 5 | 78 | 1 | 1 | 2 | 5 |
| Human \& Animal Genetics | 225 | 41 | 170 | 0 | 21 | 2 | 138 | 4 | 2 | 1 | 2 |
| Human \& Animal Pathology | 105 | 28 | 75 | 1 | 8 | 1 | 62 | 0 | 1 | 1 | 1 |
| Human \& Animal Pharmacology | 267 | 57 | 198 | 0 | 26 | 7 | 153 | 1 | 1 | 7 | 3 |
| Human \& Animal Physiology | 244 | 43 | 195 | 0 | 21 | 8 | 146 | 1 | 3 | 10 | 6 |
| Zoology, Other | 133 | 18 | 115 | 1 | 6 | 1 | 100 | 0 | 2 | 4 | 1 |
| Biological Sciences, General | 200 | 39 | 142 | 0 | 10 | 6 | 117 | 3 | 2 | 2 | 2 |
| Biological Sciences, Other | 218 | 41 | 161 | 1 | 12 | 3 | 139 | 1 | 3 | 1 | 1 |
| HEALTH SCIENCES | 1,589 | 306 | 1,188 | 4 | 99 | 75 | 954 | 9 | 11 | 14 | 22 |
| Speech-Lang. Pathology \& Audiology |  |  |  |  |  |  |  |  |  |  |  |
| Environmental Health | 52 | 13 | 35 | 1 | 6 | 3 | 23 | 1 | 0 | 0 | 1 |
| Health Systems/Services Admin. | 58 | 13 | 43 | 0 | 1 | 6 | 34 | 1 | 1 | 0 | 0 |
| Public Health | 207 | 30 | 169 | 1 | 20 | 15 | 117 | 3 | 5 | 6 | 2 |
| Epidemiology | 190 | 26 | 153 | 0 | 16 | 12 | 121 | 1 | 1 | 1 | 1 |
| Exercise Physiology/Sci., Kinesiology | 130 | 18 | 109 | 1 | 0 | 2 | 99 | 0 | 2 | 1 | 4 |
| Nursing | 413 | 51 | 351 | 1 | 15 | 19 | 305 | 1 | 2 | 2 | 6 |
| Pharmacy | 164 | 71 | 69 | 0 | 16 | 5 | 47 | 0 | 0 | 1 | 0 |
| Rehabilitation/Therapeutic Services | 40 | 2 | 31 | 0 | 3 | 1 | 27 | 0 | 0 | 0 | 0 |
| Veterinary Medicine | 50 | 24 | 23 | 0 | 1 | 0 | 22 | 0 | 0 | 0 | 0 |
| Health Sciences, General | 50 | 10 | 26 | 0 | 1 | 4 | 20 | 0 | 0 | 1 | 0 |
| Health Sciences, Other | 129 | 31 | 90 | 0 | 18 | 5 | 61 | 1 | 0 | 0 | 5 |
| AGRICULTURAL SCIENCES | 1,085 | 493 | 563 | 5 | 37 | 24 | 456 | 7 | 7 | 17 | 10 |
| Agricultural Economics | 137 | 75 | 59 | 1 | 6 | 5 | 42 | 1 | 1 | 3 | 0 |
| Agricultural Business \& Management | 5 | 2 | 3 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 |
| Animal Breeding \& Genetics | 22 | 10 | 12 | 0 | 0 | 1 | 11 | 0 | 0 | 0 | 0 |
| Animal Nutrition | 46 | 22 | 23 | 0 | 0 | 1 | 22 | 0 | 0 | 0 | 0 |
| Dairy Science | 9 | 6 | 3 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 |
| Poultry Science | 9 | 3 | 6 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 |
| Animal Sciences, Other | 73 | 20 | 47 | 0 | 1 | 1 | 41 | 0 | 0 | 2 | 2 |
| Agronomy \& Crop Science | 70 | 34 | 34 | 0 | 0 | 0 | 33 | 0 | 0 | 1 | 0 |
| Plant Breeding \& Genetics | 68 | 41 | 26 | 0 | 0 | 1 | 22 | 0 | 0 | 2 | 1 |
| Plant Pathology | 63 | 34 | 29 | 0 | 2 | 3 | 21 | 1 | 1 | 1 | 0 |
| Plant Sciences, Other | 29 | 10 | 19 | 0 | 4 | 0 | 15 | 0 | 0 | 0 | 0 |
| Food Engineering | 10 | 7 | 3 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 |
| Food Sciences, Other | 142 | 80 | 59 | 1 | 11 | 5 | 37 | 1 | 3 | 0 | 1 |
| Soil Chemistry/Microbiology | 26 | 7 | 19 | 0 | 2 | 0 | 14 | 1 | 0 | 0 | 2 |
| Soil Sciences, Other | 64 | 35 | 28 | 0 | 4 | 1 | 20 | 1 | 0 | 1 | 1 |
| Horticulture Science | 55 | 29 | 23 | 0 | 3 | 2 | 16 | 0 | 0 | 2 | 0 |
| Fisheries Science \& Management | 43 | 10 | 32 | 0 | 0 | 1 | 31 | 0 | 0 | 0 | 0 |
| Forest Biology | 22 | 8 | 14 | 0 | 0 | 0 | 14 | 0 | 0 | 0 | 0 |
| Forest Engineering | 3 | 1 | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| Forest Management | 13 | 6 | 7 | 0 | 0 | 1 | 6 | 0 | 0 | 0 | 0 |
| Wood Sci. \& Pulp/Paper Tech. | 11 | 8 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| Conservation/Renewable Nat. Res. | 19 | 6 | 13 | 0 | 0 | 1 | 9 | 1 | 0 | 2 | 0 |
| Forestry \& Related Sci., Other | 54 | 19 | 34 | 1 | 1 | 0 | 30 | 0 | 0 | 1 | 1 |
| Wildlife/Range Management | 56 | 10 | 44 | 1 | 0 | 0 | 37 | 1 | 1 | 2 | 2 |
| Agricultural Sciences, General | 10 | 2 | 5 | 1 | 0 | 0 | 4 | 0 | 0 | 0 | 0 |
| Agricultural Sciences, Other | 26 | 8 | 17 | 0 | 1 | 0 | 16 | 0 | 0 | 0 | 0 |
| SOCIAL SCIENCES \& PSYCHOLOGY | 7,115 | 1,039 | 5,688 | 40 | 307 | 368 | 4,551 | 76 | 87 | 121 | 138 |

APPENDIX TABLE A-2. Number of doctorate recipients, by citizenship, race/ethnicity, and subfield, 2000 (continued)

| Subfield of Doctorate | Total Doctorates ${ }^{\text {a }}$ | Non-U.S. Citizens Temp. Visas | U.S. Citizens and Non-U.S. with Permanent Visas |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Total | American Indian ${ }^{\text {b }}$ | Asian ${ }^{\text {c }}$ | Black | White | Puerto Rican | Mexican American | Other Hispanic | Unknown Race |
| SOCIAL SCIENCES | 3,492 | 875 | 2,467 | 18 | 158 | 175 | 1,950 | 16 | 27 | 47 | 76 |
| Anthropology | 446 | 55 | 382 | 5 | 19 | 21 | 309 | 2 | 2 | 8 | 16 |
| Area Studies | 14 | 4 | 9 | 0 | 0 | 1 | 7 | 0 | 0 | 0 | 1 |
| Criminology | 66 | 4 | 60 | 0 | 0 | 6 | 51 | 0 | 1 | 1 | 1 |
| Demography/Population Studies | 19 | 6 | 13 | 0 | 2 | 1 | 10 | 0 | 0 | 0 | 0 |
| Economics | 933 | 450 | 440 | 0 | 42 | 18 | 353 | 2 | 4 | 11 | 10 |
| Econometrics | 15 | 11 | 4 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 |
| Geography | 197 | 50 | 142 | 2 | 5 | 2 | 125 | 1 | 0 | 2 | 5 |
| International Relations/Affairs | 77 | 23 | 51 | 0 | 6 | 2 | 36 | 0 | 1 | 4 | 2 |
| Political Science and Government | 670 | 84 | 557 | 2 | 28 | 38 | 448 | 6 | 5 | 7 | 23 |
| Public Policy Analysis | 137 | 20 | 102 | 2 | 7 | 9 | 81 | 1 | 0 | 1 | 1 |
| Sociology | 615 | 88 | 500 | 6 | 30 | 56 | 373 | 4 | 13 | 8 | 10 |
| Statistics | 60 | 33 | 25 | 0 | 4 | 2 | 16 | 0 | 0 | 0 | 3 |
| Urban Affairs/Studies | 78 | 17 | 60 | 0 | 5 | 5 | 45 | 0 | 0 | 3 | 2 |
| Social Sciences, General | 39 | 5 | 24 | 0 | 1 | 3 | 20 | 0 | 0 | 0 | 0 |
| Social Sciences, Other | 126 | 25 | 98 | 1 | 9 | 11 | 73 | 0 | 1 | 2 | 1 |
| PSYCHOLOGY | 3,623 | 164 | 3,221 | 22 | 149 | 193 | 2,601 | 60 | 60 | 74 | 62 |
| Clinical | 1,357 | 27 | 1,254 | 6 | 59 | 67 | 1,014 | 31 | 28 | 28 | 21 |
| Cognitive \& Psycholinguistics | 141 | 17 | 119 | 0 | 13 | 0 | 96 | 0 | 1 | 3 | 6 |
| Comparative | 7 | 0 | 7 | 0 | 0 | 0 | 6 | 0 | 0 | 1 | 0 |
| Counseling | 475 | 19 | 442 | 7 | 19 | 47 | 339 | 5 | 13 | 8 | 4 |
| Developmental and Child | 203 | 16 | 184 | 1 | 6 | 12 | 152 | 0 | 3 | 4 | 6 |
| Human/Individual \& Family | 148 | 10 | 117 | 3 | 5 | 6 | 98 | 1 | 0 | 3 | 1 |
| Experimental | 133 | 15 | 115 | 1 | 6 | 3 | 98 | 1 | 1 | 2 | 3 |
| Educational | 97 | 7 | 76 | 0 | 5 | 7 | 62 | 0 | 1 | 1 | 0 |
| Family \& Marriage Counseling | 54 | 4 | 47 | 0 | 0 | 1 | 42 | 1 | 0 | 1 | 2 |
| Industrial \& Organizational | 188 | 11 | 168 | 1 | 3 | 10 | 137 | 6 | 2 | 5 | 4 |
| Personality | 23 | 1 | 20 | 1 | 1 | 1 | 16 | 1 | 0 | 0 | 0 |
| Physiological/Psychobiology | 89 | 7 | 79 | 0 | 2 | 7 | 67 | 0 | 0 | 2 | 1 |
| Psychometrics | 13 | 4 | 7 | 0 | 0 | 0 | 5 | 0 | 0 | 2 | 0 |
| Quantitative | 8 | 2 | 6 | 0 | 1 | 0 | 5 | 0 | 0 | 0 | 0 |
| School | 98 | 1 | 96 | 0 | 1 | 4 | 87 | 0 | 2 | 1 | 1 |
| Social | 209 | 7 | 192 | 0 | 12 | 11 | 156 | 2 | 6 | 2 | 3 |
| Psychology, General | 239 | 6 | 163 | 0 | 9 | 10 | 118 | 11 | 0 | 7 | 8 |
| Psychology, Other | 141 | 10 | 129 | 2 | 7 | 7 | 103 | 1 | 3 | 4 | 2 |
| HUMANITIES | 5,634 | 740 | 4,673 | 21 | 201 | 173 | 3,942 | 45 | 66 | 108 | 117 |
| GENERAL HUMANITIES | 3,751 | 516 | 3,067 | 17 | 131 | 113 | 2,611 | 17 | 37 | 58 | 83 |
| History, American | 442 | 10 | 428 | 5 | 11 | 23 | 374 | 0 | 5 | 3 | 7 |
| History, Asian | 51 | 12 | 39 | 0 | 8 | 0 | 30 | 0 | 0 | 0 | 1 |
| History, European | 243 | 19 | 224 | 2 | 1 | 1 | 205 | 0 | 4 | 3 | 8 |
| History/Philosophy of Sci. \& Tech. | 42 | 4 | 35 | 0 | 0 | 1 | 32 | 0 | 0 | 1 | 1 |
| History, General | 103 | 11 | 73 | 2 | 1 | 6 | 53 | 1 | 0 | 3 | 7 |
| History, Other | 179 | 31 | 145 | 1 | 5 | 10 | 102 | 4 | 6 | 10 | 7 |
| Classics | 63 | 8 | 54 | 0 | 2 | 0 | 50 | 0 | 0 | 0 | 2 |
| Comparative Literature | 188 | 41 | 137 | 0 | 11 | 6 | 110 | 2 | 2 | 4 | 2 |
| Linguistics | 229 | 101 | 117 | 0 | 11 | 1 | 97 | 1 | 0 | 3 | 4 |
| Speech \& Rhetorical Studies | 143 | 11 | 128 | 1 | 2 | 7 | 112 | 0 | 2 | 3 | 1 |
| Letters, General | 55 | 5 | 38 | 0 | 0 | 2 | 33 | 0 | 1 | 0 | 2 |
| Letters, Other | 92 | 2 | 90 | 0 | 3 | 6 | 78 | 0 | 1 | 1 | 1 |
| American Studies | 113 | 2 | 109 | 1 | 5 | 10 | 87 | 0 | 4 | 1 | 1 |
| Archeology | 36 | 7 | 29 | 0 | 0 | 0 | 28 | 0 | 1 | 0 | 0 |
| Art History/Criticism/Conservation | 228 | 20 | 201 | 1 | 8 | 4 | 172 | 1 | 1 | 3 | 11 |
| Music | 749 | 141 | 558 | 1 | 38 | 17 | 466 | 4 | 4 | 15 | 13 |
| Philosophy | 363 | 50 | 300 | 1 | 10 | 7 | 265 | 2 | 3 | 5 | 7 |
| Religion | 350 | 32 | 291 | 1 | 13 | 9 | 254 | 2 | 3 | 3 | 6 |
| Drama/Theater Arts | 82 | 9 | 71 | 1 | 2 | 3 | 63 | 0 | 0 | 0 | 2 |
| LANGUAGE \& LITERATURE | 1,711 | 197 | 1,472 | 3 | 62 | 52 | 1,224 | 28 | 27 | 49 | 27 |
| American Literature | 460 | 29 | 417 | 2 | 11 | 32 | 345 | 3 | 9 | 8 | 7 |
| English Literature | 544 | 40 | 494 | 0 | 24 | 9 | 446 | 1 | 5 | 0 | 9 |
| English Language | 66 | 3 | 62 | 0 | 2 | 3 | 54 | 1 | 1 | 0 | 1 |
| French | 143 | 20 | 120 | 1 | 6 | 4 | 103 | 2 | 0 | 2 | 2 |
| German | 83 | 17 | 65 | 0 | 2 | 1 | 60 | 1 | 0 | 0 | 1 |
| Italian | 16 | 2 | 14 | 0 | 0 | 0 | 13 | 0 | 0 | 1 | 0 |
| Spanish | 218 | 52 | 162 | 0 | 4 | 1 | 91 | 17 | 11 | 35 | 3 |
| Russian | 29 | 1 | 28 | 0 | 0 | 1 | 27 | 0 | 0 | 0 | 0 |
| Slavic | 14 | 1 | 11 | 0 | 1 | 0 | 10 | 0 | 0 | 0 | 0 |
| Chinese | 21 | 7 | 14 | 0 | 7 | 0 | 7 | 0 | 0 | 0 | 0 |
| Japanese | 18 | 2 | 16 | 0 | 3 | 0 | 13 | 0 | 0 | 0 | 0 |
| Hebrew | 11 | 4 | 7 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 |
| Arabic | 15 | 2 | 11 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 0 |
| Other Language \& Literature | 73 | 17 | 51 | 0 | 2 | 1 | 37 | 3 | 1 | 3 | 4 |
| OTHER HUMANITIES | 172 | 27 | 134 | 1 | 8 | 8 | 107 | 0 | 2 | 1 | 7 |
| Humanities, General | 40 | 4 | 36 | 1 | 0 | 3 | 30 | 0 | 0 | 0 | 2 |
| Humanities, Other | 132 | 23 | 98 | 0 | 8 | 5 | 77 | 0 | 2 | 1 | 5 |
| EDUCATION | 6,420 | 541 | 5,656 | 51 | 174 | 699 | 4,357 | 71 | 116 | 94 | 94 |
| RESEARCH \& ADMINISTRATION | 4,936 | 340 | 4,450 | 41 | 113 | 572 | 3,431 | 61 | 98 | 69 | 65 |
| Curriculum \& Instruction | 968 | 94 | 850 | 8 | 23 | 78 | 684 | 21 | 12 | 11 | 13 |
| Educational Admin. \& Supervision | 810 | 31 | 735 | 10 | 13 | 119 | 534 | 19 | 25 | 4 | 11 |
| Educational Leadership | 1,199 | 29 | 1,137 | 7 | 15 | 198 | 848 | 5 | 29 | 14 | 21 |

APPENDIX TABLE A-2. Number of doctorate recipients, by citizenship, race/ethnicity, and subfield, 2000 (continued)

| Subfield of Doctorate | Total Doctorates ${ }^{\text {a }}$ | Non-U.S. Citizens Temp. Visas | U.S. Citizens and Non-U.S. with Permanent Visas |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Total | $\begin{gathered} \hline \text { American } \\ \text { Indian }^{\text {b }} \end{gathered}$ | Asian ${ }^{\text {c }}$ | Black | White | Puerto Rican | Mexican American | Other Hispanic | Unknown Race |
| Educ./Instruct. Media Design | 138 | 21 | 117 | 1 | 9 | 7 | 94 | 1 | 1 | 2 | 2 |
| Educ. Stat./Research Methods | 55 | 14 | 41 | 0 | 3 | 2 | 34 | 0 | 0 | 1 | 1 |
| Educ. Assess., Test., \& Meas. | 45 | 13 | 29 | 0 | 5 | 1 | 21 | 0 | 2 | 0 | 0 |
| Educational Psychology | 278 | 31 | 242 | 1 | 11 | 13 | 200 | 3 | 4 | 7 | 3 |
| School Psychology | 137 | 5 | 130 | 0 | 4 | 6 | 110 | 0 | 5 | 3 | 2 |
| Social/Phil. Found. Of Educ. | 135 | 15 | 115 | 1 | 7 | 15 | 85 | 1 | 2 | 4 | 0 |
| Special Education | 259 | 19 | 233 | 2 | 4 | 26 | 180 | 5 | 8 | 4 | 4 |
| Counseling Educ./Couns. \& Guidance | 214 | 13 | 195 | 4 | 2 | 23 | 156 | 4 | 1 | 5 | 0 |
| Higher Educ./Evaluation \& Research | 438 | 21 | 410 | 3 | 11 | 65 | 312 | 1 | 8 | 5 | 5 |
| Pre-elementary/Early Childhood | 34 | 5 | 28 | 0 | 0 | 6 | 21 | 0 | 0 | 0 | 1 |
| Elementary Education | 53 | 6 | 46 | 1 | 1 | 2 | 39 | 0 | 1 | 2 | 0 |
| Secondary Education | 23 | 2 | 20 | 0 | 1 | 1 | 16 | 0 | 0 | 2 | 0 |
| Adult \& Continuing Education | 150 | 21 | 122 | 3 | 4 | 10 | 97 | 1 | 0 | 5 | 2 |
| TEACHING FIELDS | 828 | 132 | 685 | 5 | 39 | 59 | 551 | 7 | 3 | 12 | 9 |
| Agricultural Education | 22 | 5 | 16 | 0 | 0 | 3 | 12 | 0 | 0 | 1 | 0 |
| Art Education | 31 | 11 | 20 | 1 | 2 | 3 | 14 | 0 | 0 | 0 | 0 |
| Business Education | 37 | 2 | 34 | 0 | 2 | 2 | 29 | 0 | 0 | 1 | 0 |
| English Education | 44 | 9 | 35 | 0 | 2 | 3 | 26 | 1 | 0 | 3 | 0 |
| Foreign Languages Education | 43 | 22 | 21 | 0 | 8 | 1 | 11 | 0 | 0 | 1 | 0 |
| Health Education | 71 | 7 | 62 | 0 | 1 | 7 | 52 | 1 | 1 | 0 | 0 |
| Home Economics Education | 14 | 6 | 8 | 0 | 1 | 1 | 6 | 0 | 0 | 0 | 0 |
| Technical/Industrial Arts Education | 21 | 3 | 16 | 0 | 1 | 0 | 15 | 0 | 0 | 0 | 0 |
| Mathematics Education | 91 | 15 | 76 | 0 | 4 | 9 | 59 | 1 | 1 | 1 | 1 |
| Music Education | 78 | 16 | 61 | 0 | 4 | 4 | 50 | 1 | 0 | 1 | 1 |
| Nursing Education | 11 | 1 | 10 | 0 | 1 | 2 | 7 | 0 | 0 | 0 | 0 |
| Physical Education and Coaching | 83 | 9 | 74 | 2 | 0 | 6 | 62 | 1 | 0 | 1 | 2 |
| Reading Education | 89 | 4 | 82 | 0 | 2 | 3 | 76 | 0 | 0 | 0 | 1 |
| Science Education | 60 | 8 | 51 | 0 | 3 | 3 | 43 | 1 | 0 | 0 | 1 |
| Social Science Education | 40 | 3 | 37 | 1 | 5 | 4 | 25 | 0 | 0 | 1 | 1 |
| Technical Education | 20 | 4 | 16 | 0 | 1 | 1 | 12 | 0 | 0 | 1 | 1 |
| Trade \& Industrial Education | 12 | 2 | 10 | 1 | 0 | 1 | 8 | 0 | 0 | 0 | 0 |
| Teacher Ed./Spec. Acad. \& Voc., Other | 61 | 5 | 56 | 0 | 2 | 6 | 44 | 1 | 1 | 1 | 1 |
| OTHER EDUCATION | 656 | 69 | 521 | 5 | 22 | 68 | 375 | 3 | 15 | 13 | 20 |
| Education, General | 255 | 28 | 181 | 1 | 8 | 36 | 113 | 3 | 3 | 5 | 12 |
| Education, Other | 401 | 41 | 340 | 4 | 14 | 32 | 262 | 0 | 12 | 8 | 8 |
| PROFESSIONAL/OTHER FIELDS ${ }^{\text {d }}$ | 2,263 | 534 | 1,634 | 6 | 121 | 129 | 1,293 | 16 | 13 | 26 | 30 |
| BUSINESS AND MANAGEMENT | 1,071 | 296 | 724 | 4 | 69 | 43 | 571 | 4 | 5 | 12 | 16 |
| Accounting | 111 | 26 | 83 | 1 | 10 | 7 | 63 | 1 | 0 | 1 | 0 |
| Banking/Financial Support Services | 72 | 37 | 33 | 0 | 5 | 0 | 27 | 0 | 0 | 1 | 0 |
| Business Admin. \& Management | 325 | 73 | 229 | 1 | 26 | 12 | 176 | 1 | 3 | 2 | 8 |
| Business/Managerial Economics | 52 | 23 | 28 | 0 | 3 | 1 | 23 | 0 | 0 | 1 | 0 |
| International Business | 34 | 11 | 18 | 0 | 0 | 2 | 14 | 1 | 0 | 0 | 1 |
| Mgmt. Info. Sys./Bus. Data Proc. | 85 | 32 | 52 | 0 | 7 | 2 | 40 | 0 | 0 | 2 | 1 |
| Marketing Management \& Research | 140 | 42 | 96 | 1 | 8 | 8 | 74 | 1 | 2 | 1 | 1 |
| Operations Research | 61 | 22 | 36 | 0 | 5 | 1 | 27 | 0 | 0 | 1 | 2 |
| Organizational Behavior | 99 | 8 | 89 | 0 | 2 | 4 | 79 | 0 | 0 | 2 | 2 |
| Bus. Mgmt./Admin. Serv., General | 36 | 7 | 19 | 1 | 1 | 2 | 15 | 0 | 0 | 0 | 0 |
| Bus. Mgmt./Admin. Serv., Other | 56 | 15 | 41 | 0 | 2 | 4 | 33 | 0 | 0 | 1 | 1 |
| COMMUNICATIONS | 389 | 75 | 300 | 1 | 10 | 22 | 254 | 1 | 3 | 6 | 3 |
| Communications Research | 53 | 6 | 47 | 0 | 4 | 2 | 37 | 0 | 0 | 2 | 2 |
| Mass Communications | 153 | 39 | 109 | 1 | 5 | 7 | 92 | 1 | 1 | 2 | 0 |
| Communications Theory | 39 | 3 | 36 | 0 | 0 | 2 | 32 | 0 | 1 | 1 | 0 |
| Communications, General | 78 | 13 | 58 | 0 | 0 | 6 | 51 | 0 | 0 | 1 | 0 |
| Communications, Other | 66 | 14 | 50 | 0 | 1 | 5 | 42 | 0 | 1 | 0 | 1 |
| OTHER PROFESSIONAL FIELDS | 797 | 162 | 609 | 1 | 41 | 64 | 468 | 11 | 5 | 8 | 11 |
| Architectural Environmental Design | 60 | 24 | 35 | 0 | 2 | 2 | 28 | 0 | 0 | 2 | 1 |
| Home Economics | 23 | 7 | 16 | 0 | 0 | 2 | 13 | 0 | 0 | 1 | 0 |
| Law | 41 | 22 | 17 | 0 | 1 | 2 | 12 | 0 | 0 | 0 | 2 |
| Library Science | 45 | 15 | 28 | 0 | 1 | 3 | 18 | 1 | 2 | 0 | 3 |
| Parks/Recreation/Leisure/Fitness | 45 | 14 | 26 | 0 | 2 | 1 | 22 | 1 | 0 | 0 | 0 |
| Public Administration | 102 | 9 | 91 | 0 | 0 | 18 | 68 | 1 | 0 | 2 | 2 |
| Social Work | 259 | 20 | 226 | 1 | 16 | 27 | 169 | 8 | 2 | 1 | 2 |
| Theology/Religious Education | 170 | 24 | 146 | 0 | 17 | 8 | 118 | 0 | 1 | 2 | 0 |
| Professional Fields, General | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Professional Fields, Other | 49 | 26 | 23 | 0 | 2 | 1 | 20 | 0 | 0 | 0 | 0 |
| OTHER FIELDS | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |

NOTE: Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates. See inside the back cover for a description of fields as reported in this table.
Refer also to the explanatory note about this table in front of Appendix $A$.
${ }^{\text {a }}$ Includes 1,883 individuals who did not report their citizenship at time of doctorate. See the "Important Notice" for discussion of item response rate issues.
${ }^{\text {b }}$ Includes Alaskan Native.
${ }^{\text {c }}$ Includes Pacific Islander.
${ }^{d}$ Includes 5 persons for whom field was unknown.

| Characteristics |  | $\begin{aligned} & 2000 \\ & \text { Total } \end{aligned}$ |  |  | $\begin{aligned} & \text { Earth, Atmos., \& } \\ & \text { Marine Sci. } \end{aligned}$ |  |  |  |  | Z 0 0.0 0 0 0 0 0.0 |  |  |  | $\begin{array}{r} \text { 岱 } \\ \text { U } \\ \text { 를 } \\ \underline{U} \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number in Field |  | 41,368 | 1,392 | 1,990 | 786 | 1,048 | 861 | 6,077 | 5,330 | 777 | 5,078 | 1,589 | 1,085 | 8,529 |
| Men | \% | 56.0 | 85.1 | 68.4 | 69.1 | 75.3 | 83.3 | 75.6 | 83.7 | 58.0 | 54.7 | 33.0 | 71.2 | 53.0 |
| Women |  | 43.8 | 14.7 | 31.4 | 30.3 | 24.6 | 16.5 | 24.1 | 15.7 | 41.8 | 45.2 | 66.9 | 28.8 | 46.9 |
| Unknown ${ }^{\text {c }}$ |  | 0.2 | 0.2 | 0.2 | 0.6 | 0.1 | 0.2 | 0.2 | 0.5 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 |
| U.S. Citizenship | \% | 67.4 | 53.9 | 56.1 | 62.8 | 49.0 | 44.9 | 53.6 | 41.4 | 61.5 | 67.3 | 70.0 | 46.1 | 64.6 |
| Non-U.S., Permanent Visa |  | 4.7 | 5.6 | 6.0 | 4.5 | 5.2 | 8.2 | 5.9 | 6.6 | 6.6 | 6.2 | 4.7 | 5.8 | 5.9 |
| Non-U.S., Temporary Visa |  | 23.3 | 35.9 | 32.6 | 26.7 | 42.2 | 41.9 | 35.6 | 45.9 | 29.5 | 22.9 | 19.3 | 45.4 | 25.7 |
| Unknown |  | 4.6 | 4.6 | 5.3 | 6.0 | 3.6 | 4.9 | 4.9 | 6.2 | 2.4 | 3.7 | 6.0 | 2.7 | 3.9 |
| Never Married | \% | 26.0 | 40.3 | 30.8 | 25.6 | 40.4 | 26.1 | 33.3 | 29.9 | 33.5 | 29.2 | 22.8 | 23.3 | 27.7 |
| Married |  | 53.4 | 43.2 | 53.0 | 53.1 | 46.9 | 55.5 | 50.1 | 55.0 | 52.5 | 53.4 | 54.4 | 62.3 | 54.6 |
| Separated, Divorced |  | 5.7 | 2.7 | 2.8 | 4.5 | 1.7 | 3.7 | 2.9 | 2.2 | 3.1 | 3.9 | 7.3 | 4.0 | 4.5 |
| Marriage-like Relationship |  | 5.3 | 5.0 | 4.1 | 6.1 | 3.8 | 4.3 | 4.5 | 3.1 | 5.7 | 6.1 | 5.2 | 3.5 | 5.5 |
| Widowed |  | 0.4 | 0.1 | 0.3 | 0.6 | 0.2 | 0.2 | 0.2 | 0.1 | 0.0 | 0.2 | 0.8 | 0.1 | 0.3 |
| Unknown |  | 9.3 | 8.6 | 9.1 | 10.2 | 7.1 | 10.1 | 8.9 | 9.7 | 5.3 | 7.2 | 9.6 | 6.8 | 7.4 |
| Median Age at Doct. | Yrs | 33.6 | 30.3 | 29.8 | 33.4 | 30.4 | 32.9 | 30.7 | 31.4 | 30.2 | 31.2 | 38.2 | 34.4 | 32.1 |
| Percent with Bacc. in Same Field as Doctorate | \% | 52.3 | 69.5 | 73.7 | 41.0 | 69.5 | 37.0 | 62.6 | 74.0 | 28.7 | 53.8 | 43.3 | 51.4 | 49.3 |
| Percent with Masters | \% | 73.2 | 63.6 | 39.9 | 71.5 | 74.2 | 80.4 | 61.1 | 79.3 | 34.0 | 40.8 | 80.3 | 86.1 | 53.3 |
| Median Time Lapse from Bacc. to Doct. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Time | Yrs | 10.3 | 7.6 | 7.0 | 10.0 | 7.7 | 10.0 | 8.0 | 8.7 | 7.7 | 8.3 | 14.2 | 11.0 | 9.0 |
| Registered Time |  | 7.4 | 7.0 | 6.0 | 7.6 | 6.8 | 7.3 | 6.8 | 6.8 | 6.5 | 7.0 | 7.9 | 7.0 | 7.0 |
| Postdoctoral Study Plans | \% | 25.1 | 48.3 | 47.6 | 45.9 | 30.9 | 9.5 | 39.3 | 19.9 | 74.5 | 66.5 | 17.1 | 33.5 | 53.8 |
| Fellowship |  | 13.2 | 19.5 | 22.5 | 18.7 | 16.1 | 3.3 | 17.5 | 6.5 | 47.6 | 39.6 | 9.9 | 10.6 | 31.1 |
| Research Assoc. |  | 8.9 | 27.6 | 23.5 | 25.7 | 12.5 | 5.0 | 20.2 | 11.6 | 20.6 | 17.9 | 4.7 | 20.8 | 16.1 |
| Traineeship |  | 0.9 | 0.1 | 0.5 | 0.4 | 1.0 | 0.7 | 0.5 | 1.0 | 0.9 | 2.7 | 1.0 | 0.6 | 1.9 |
| Other Study |  | 2.0 | 1.1 | 1.2 | 1.1 | 1.2 | 0.6 | 1.1 | 0.9 | 5.4 | 6.3 | 1.5 | 1.4 | 4.7 |
| Planned Employment | \% |  |  |  |  |  |  |  |  |  |  | 73.0 |  |  |
| after ${ }^{\text {Educ. Institution }}{ }^{\text {d }}$ | \% | 65.2 35.7 | 42.4 7.7 | 42.8 8.2 | 15.4 | 61.8 34.5 | 80.4 28.9 | 51.4 16.5 | 69.8 12.4 | 19.7 4.8 | 26.3 10.1 | 39.1 | 27.1 | 38.6 17.2 |
| Industry/Business |  | 17.1 | 27.7 | 29.5 | 14.4 | 20.6 | 43.6 | 27.6 | 48.3 | 12.4 | 9.0 | 13.5 | 16.0 | 11.0 |
| Government |  | 4.5 | 2.9 | 2.1 | 7.9 | 2.1 | 3.3 | 3.2 | 5.9 | 1.2 | 3.2 | 9.2 | 9.2 | 4.9 |
| Nonprofit |  | 3.5 | 1.0 | 0.6 | 1.7 | 1.4 | 1.2 | 1.0 | 1.1 | 0.3 | 1.2 | 6.9 | 2.7 | 2.4 |
| Other \& Unknown |  | 4.5 | 3.1 | 2.4 | 4.3 | 3.1 | 3.5 | 3.1 | 2.1 | 1.2 | 2.8 | 4.3 | 4.0 | 3.0 |
| Postdoc. Plans Unknown | \% | 9.7 | 9.3 | 9.6 | 10.4 | 7.3 | 10.1 | 9.3 | 10.2 | 5.8 | 7.2 | 9.9 | 7.6 | 7.6 |
| Definite Postdoc. Study | \% | 18.4 | 37.6 | 38.3 | 31.9 | 24.1 | 6.5 | 30.4 | 13.2 | 57.8 | 51.1 | 12.5 | 19.5 | 40.5 |
| Seeking Postdoc. Study |  | 6.6 | 10.8 | 9.2 | 14.0 | 6.8 | 3.0 | 8.9 | 6.7 | 16.7 | 15.4 | 4.6 | 13.9 | 13.3 |
| Definite Employment |  | 45.8 | 27.0 | 30.1 | 31.2 | 45.3 | 62.4 | 36.7 | 49.2 | 12.1 | 16.7 | 54.7 | 40.8 | 26.4 |
| Seeking Employment |  | 19.4 | 15.4 | 12.7 | 12.5 | 16.5 | 18.0 | 14.7 | 20.7 | 7.6 | 9.6 | 18.3 | 18.2 | 12.1 |
| Employment Commitments after Doctorate ${ }^{e}$ |  | 18,962 | 376 | 599 | 245 | 475 | 537 | $\underline{2,232}$ | $\underline{2,621}$ | 94 | 849 | 869 | 443 | $\underline{\mathbf{2 , 2 5 5}}$ |
| Primary Activity |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| R \& D | \% | 31.2 | 58.8 | 67.9 | 41.2 | 38.7 | 63.3 | 56.1 | 69.8 | 56.4 | 43.9 | 34.5 | 56.2 | 43.2 |
| Teaching |  | 38.0 | 16.5 | 18.5 | 27.8 | 46.1 | 22.5 | 26.0 | 11.0 | 21.3 | 27.7 | 37.5 | 25.1 | 30.7 |
| Administration |  | 12.4 | 2.9 | 2.0 | 4.1 | 1.7 | 3.7 | 2.7 | 2.1 | 3.2 | 4.4 | 11.3 | 3.4 | 6.8 |
| Prof. Services |  | 12.5 | 12.5 | 5.8 | 17.6 | 6.9 | 4.8 | 8.2 | 10.5 | 12.8 | 15.2 | 11.7 | 10.6 | 12.9 |
| Other |  | 3.4 | 6.1 | 3.0 | 6.1 | 2.7 | 3.2 | 3.9 | 4.1 | 3.2 | 4.8 | 2.3 | 3.2 | 3.5 |
| Secondary Activity |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| R \& D | \% | 33.6 | 22.3 | 18.9 | 41.6 | 47.4 | 24.0 | 29.3 | 19.0 | 23.4 | 29.7 | 35.1 | 28.4 | 31.3 |
| Teaching |  | 18.1 | 7.7 | 5.8 | 16.3 | 16.2 | 24.6 | 14.0 | 14.3 | 11.7 | 14.5 | 18.9 | 23.5 | 17.8 |
| Administration |  | 13.9 | 13.0 | 26.4 | 9.0 | 6.5 | 10.2 | 14.1 | 18.0 | 19.1 | 19.1 | 15.3 | 18.5 | 17.5 |
| Prof. Services |  | 11.6 | 13.8 | 12.2 | 10.6 | 11.4 | 11.2 | 11.9 | 14.5 | 13.8 | 10.6 | 13.7 | 12.6 | 12.3 |
| Other |  | 3.0 | 1.6 | 1.7 | 4.1 | 1.5 | 3.2 | 2.2 | 3.4 | 4.3 | 2.4 | 2.6 | 3.4 | 2.7 |
| No Secondary Activity |  | 17.4 | 38.3 | 32.6 | 15.1 | 13.3 | 24.4 | 25.5 | 28.4 | 24.5 | 19.9 | 11.7 | 12.2 | 15.4 |
| Activity(ies) Unknown | \% | 2.4 | 3.2 | 2.5 | 3.3 | 3.8 | 2.4 | 3.0 | 2.4 | 3.2 | 3.9 | 2.6 | 1.4 | 2.9 |
| Region of Employment after Doctorate |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| New England | \% | 6.8 | 7.2 | 8.8 | 6.1 | 8.6 | 7.6 | 7.9 | 6.5 | 17.0 | 8.2 | 7.9 | 2.7 | 7.4 |
| Middle Atlantic |  | 14.0 | 17.0 | 21.2 | 12.2 | 17.3 | 18.2 | 18.0 | 13.2 | 17.0 | 12.5 | 13.1 | 5.9 | 11.6 |
| East No. Central |  | 14.1 | 12.8 | 14.4 | 8.6 | 15.2 | 10.1 | 12.6 | 14.8 | 11.7 | 11.3 | 14.5 | 10.2 | 12.3 |
| West No. Central |  | 6.6 | 5.3 | 4.3 | 4.1 | 7.6 | 3.2 | 4.9 | 3.7 | 4.3 | 6.1 | 6.6 | 9.0 | 6.8 |
| South Atlantic |  | 17.1 | 11.7 | 15.2 | 13.9 | 14.5 | 12.1 | 13.6 | 11.5 | 19.1 | 17.3 | 19.7 | 11.5 | 17.2 |
| East So. Central |  | 4.6 | 1.9 | 3.5 | 2.0 | 3.2 | 2.4 | 2.7 | 3.1 | 0.0 | 3.1 | 5.3 | 5.2 | 4.2 |
| West So. Central |  | 8.3 | 6.9 | 6.8 | 19.2 | 8.4 | 7.3 | 8.6 | 8.6 | 3.2 | 8.2 | 7.7 | 7.2 | 7.6 |
| Mountain |  | 5.2 | 5.9 | 4.7 | 9.8 | 4.0 | 4.3 | 5.2 | 5.5 | 1.1 | 5.2 | 3.9 | 6.5 | 4.8 |
| Pacific \& Insular |  | 13.6 | 23.4 | 13.4 | 11.4 | 13.7 | 26.4 | 18.1 | 21.2 | 16.0 | 17.2 | 9.2 | 11.5 | 12.9 |
| Foreign |  | 9.4 | 6.6 | 7.5 | 12.2 | 7.2 | 7.6 | 7.8 | 11.5 | 10.6 | 10.7 | 12.0 | 30.2 | 15.0 |
| Region Unknown |  | 0.2 | 1.3 | 0.2 | 0.4 | 0.4 | 0.7 | 0.6 | 0.3 | 0.0 | 0.1 | 0.1 | 0.0 | 0.1 |

[^19]|  |  |  |  | $\begin{aligned} & \text { Other } \\ & \text { Social Sciences } \end{aligned}$ |  |  | $\begin{aligned} & \frac{2}{2} \\ & \frac{0}{\omega} \\ & \frac{1}{I} \end{aligned}$ |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3,623 | 948 | 1,061 | 747 | 736 | 7,115 | $\underline{27,051}$ | 1,060 | 460 | 610 | 641 | 2,863 | 5,634 | 6,420 | 1,071 | 1,186 | 2,263 | 14,312 |
| 33.3 | 72.9 | 41.7 | 64.7 | 55.2 | 45.4 | 62.1 | 61.7 | 43.0 | 41.0 | 38.5 | 50.6 | 49.7 | 35.0 | 67.8 | 49.3 | 58.1 | 44.4 |
| 66.6 | 26.9 | 58.2 | 35.1 | 44.8 | 54.5 | 37.6 | 38.3 | 57.0 | 59.0 | 61.5 | 49.2 | 50.2 | 64.9 | 31.7 | 50.7 | 41.7 | 55.5 |
| 0.1 | 0.2 | 0.1 | 0.3 | 0.0 | 0.1 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.1 | 0.0 | 0.5 | 0.0 | 0.3 | 0.1 |
| 86.8 | 41.5 | 77.9 | 77.2 | 67.1 | 76.4 | 60.7 | 85.8 | 88.9 | 89.0 | 67.7 | 74.2 | 78.5 | 86.2 | 62.5 | 72.0 | 67.3 | 80.2 |
| 2.1 | 5.4 | 5.2 | 4.1 | 5.3 | 3.5 | 5.4 | 3.2 | 1.7 | 2.1 | 10.1 | 4.6 | 4.5 | 1.9 | 5.1 | 4.6 | 4.9 | 3.4 |
| 4.5 | 48.6 | 13.5 | 14.3 | 22.3 | 14.6 | 29.0 | 8.2 | 6.3 | 7.0 | 19.5 | 15.9 | 13.1 | 8.4 | 27.6 | 20.0 | 23.6 | 12.7 |
| 6.6 | 4.5 | 3.4 | 4.3 | 5.3 | 5.5 | 5.0 | 2.7 | 3.0 | 1.8 | 2.7 | 5.2 | 3.9 | 3.5 | 4.8 | 3.4 | 4.2 | 3.7 |
| 26.7 | 34.0 | 26.4 | 27.0 | 21.9 | 27.2 | 29.2 | 24.7 | 26.7 | 27.9 | 26.1 | 26.1 | 26.1 | 14.2 | 21.7 | 18.5 | 20.0 | 19.8 |
| 46.4 | 48.5 | 48.4 | 52.9 | 54.3 | 48.5 | 52.0 | 55.6 | 47.4 | 50.5 | 52.6 | 48.6 | 50.5 | 60.4 | 58.3 | 57.5 | 57.7 | 56.1 |
| 6.7 | 3.0 | 8.3 | 5.5 | 7.9 | 6.4 | 4.2 | 5.1 | 8.5 | 6.6 | 7.6 | 6.9 | 6.7 | 10.6 | 4.9 | 8.8 | 6.9 | 8.5 |
| 7.3 | 6.4 | 8.8 | 5.8 | 5.7 | 7.1 | 5.2 | 7.6 | 10.7 | 8.9 | 7.8 | 7.1 | 7.7 | 3.4 | 4.2 | 4.6 | 4.4 | 5.3 |
| 0.3 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.7 | 1.0 | 0.5 | 0.6 | 0.6 | 0.9 | 0.4 | 0.8 | 0.6 | 0.7 |
| 12.6 | 8.1 | 8.1 | 8.7 | 10.1 | 10.6 | 9.1 | 6.7 | 6.1 | 5.2 | 5.5 | 10.8 | 8.4 | 10.5 | 10.6 | 9.9 | 10.5 | 9.6 |
| 32.2 | 31.7 | 35.1 | 33.5 | 35.9 | 33.0 | 31.8 | 34.6 | 34.2 | 34.0 | 35.2 | 35.2 | 34.8 | 44.4 | 36.7 | 39.0 | 37.8 | 38.9 |
| 61.9 | 55.2 | 76.8 | 53.5 | 22.8 | 58.3 | 59.5 | 53.4 | 63.3 | 70.8 | 47.9 | 49.2 | 47.9 | 33.7 | 32.0 | 29.3 | 30.5 | 38.8 |
| 74.5 | 72.4 | 81.4 | 79.7 | 83.4 | 76.7 | 66.3 | 84.5 | 85.4 | 87.4 | 86.7 | 82.7 | 84.2 | 88.3 | 79.2 | 89.1 | 84.2 | 86.1 |
| 9.0 | 8.9 | 11.5 | 10.4 | 12.0 | 9.8 | 9.0 | 11.2 | 10.4 | 11.0 | 11.1 | 11.8 | 11.4 | 19.4 | 13.0 | 14.9 | 14.0 | 14.3 |
| 7.1 | 7.0 | 8.8 | 8.3 | 8.0 | 7.5 | 7.0 | 9.0 | 8.5 | 8.8 | 8.5 | 8.9 | 8.8 | 8.1 | 7.6 | 8.5 | 8.0 | 8.3 |
| 29.6 | 6.6 | 17.0 | 9.1 | 11.3 | 20.6 | 35.1 | 11.3 | 5.9 | 6.2 | 8.6 | 7.0 | 7.8 | 4.8 | 3.3 | 6.6 | 5.0 | 6.0 |
| 22.0 | 3.5 | 11.0 | 5.2 | 4.6 | 14.3 | 18.8 | 7.3 | 3.5 | 3.4 | 3.7 | 3.3 | 4.1 | 1.7 | 1.7 | 2.4 | 2.0 | 2.7 |
| 4.3 | 2.0 | 4.1 | 2.4 | 4.3 | 3.8 | 12.9 | 1.5 | 0.7 | 0.7 | 1.7 | 1.5 | 1.4 | 1.7 | 0.9 | 1.7 | 1.3 | 1.5 |
| 2.0 | 0.5 | 0.6 | 0.1 | 0.5 | 1.3 | 1.3 | 0.3 | 0.2 | 0.0 | 0.6 | 0.5 | 0.4 | 0.4 | 0.3 | 0.5 | 0.4 | 0.4 |
| 1.3 | 0.6 | 1.3 | 1.3 | 1.8 | 1.3 | 2.2 | 2.3 | 1.5 | 2.1 | 2.5 | 1.7 | 2.0 | 1.0 | 0.4 | 2.0 | 1.2 | 1.4 |
| 57.5 | 85.4 | 74.3 | 81.7 | 78.0 | 68.4 | 55.5 | 79.9 | 88.3 | 87.2 | 85.3 | 81.4 | 82.8 | 84.3 | 85.9 | 83.6 | 84.5 | 83.7 |
| 22.3 | 42.5 | 49.6 | 55.3 | 45.9 | 35.0 | 20.8 | 59.3 | 69.1 | 70.5 | 72.1 | 61.2 | 63.7 | 66.3 | 61.8 | 53.9 | 57.5 | 63.9 |
| 13.6 | 18.6 | 6.8 | 9.2 | 12.2 | 12.6 | 22.5 | 5.5 | 7.8 | 7.4 | 4.5 | 6.7 | 6.4 | 5.1 | 17.2 | 8.9 | 12.8 | 6.8 |
| 6.5 | 12.8 | 5.5 | 5.1 | 7.6 | 7.2 | 5.3 | 4.1 | 1.1 | 0.5 | 1.4 | 1.2 | 1.7 | 3.7 | 2.2 | 5.5 | 3.9 | 2.9 |
| 8.5 | 4.2 | 6.4 | 4.4 | 6.3 | 7.0 | 3.0 | 3.2 | 1.1 | 1.3 | 1.1 | 5.8 | 3.9 | 3.8 | 1.8 | 10.5 | 6.4 | 4.3 |
| 6.6 | 7.4 | 6.0 | 7.6 | 6.0 | 6.7 | 3.8 | 7.8 | 9.1 | 7.5 | 6.2 | 6.5 | 7.0 | 5.4 | 2.9 | 4.9 | 3.9 | 5.8 |
| 12.8 | 7.9 | 8.8 | 9.2 | 10.7 | 11.0 | 9.4 | 8.8 | 5.9 | 6.6 | 6.1 | 11.6 | 9.4 | 11.0 | 10.8 | 9.8 | 10.5 | 10.3 |
| 22.4 | 5.3 | 11.1 | 5.8 | 7.1 | 15.1 | 26.2 | 6.6 | 4.1 | 4.1 | 5.3 | 4.2 | 4.8 | 3.2 | 2.6 | 4.0 | 3.3 | 3.8 |
| 7.3 | 1.4 | 5.8 | 3.3 | 4.2 | 5.5 | 9.0 | 4.7 | 1.7 | 2.1 | 3.3 | 2.8 | 3.1 | 1.5 | 0.7 | 2.6 | 1.7 | 2.2 |
| 38.9 | 67.9 | 49.0 | 51.9 | 54.6 | 47.3 | 38.7 | 46.5 | 48.5 | 52.3 | 58.7 | 51.7 | 51.3 | 63.7 | 71.0 | 63.2 | 66.7 | 59.3 |
| 18.6 | 17.5 | 25.3 | 29.7 | 23.4 | 21.1 | 16.7 | 33.4 | 39.8 | 34.9 | 26.7 | 29.7 | 31.4 | 20.6 | 14.9 | 20.4 | 17.8 | 24.4 |
| 1,411 | 644 | 520 | 388 | 402 | 3,365 | 10,473 | 493 | 223 | 319 | 376 | 1,481 | $\underline{2,892}$ | 4,087 | 760 | 750 | 1,510 | 8,489 |
| 19.0 | 53.1 | 31.5 | 24.7 | 31.1 | 29.6 | 48.2 | 11.2 | 6.7 | 6.0 | 9.0 | 8.7 | 8.7 | 7.0 | 32.6 | 11.3 | 22.1 | 10.3 |
| 20.6 | 25.0 | 49.6 | 57.0 | 46.5 | 33.2 | 25.6 | 72.4 | 77.1 | 79.0 | 82.4 | 71.7 | 74.4 | 39.4 | 44.3 | 55.9 | 50.1 | 53.2 |
| 5.8 | 3.6 | 8.1 | 7.2 | 9.2 | 6.3 | 4.6 | 5.5 | 5.8 | 5.6 | 4.0 | 5.1 | 5.1 | 38.0 | 7.8 | 13.9 | 10.8 | 22.0 |
| 48.6 | 12.0 | 6.7 | 5.7 | 7.7 | 25.3 | 15.3 | 6.5 | 4.0 | 2.8 | 1.3 | 7.3 | 5.6 | 11.1 | 8.9 | 12.8 | 10.9 | 9.2 |
| 3.7 | 4.2 | 2.5 | 3.6 | 3.7 | 3.6 | 3.8 | 3.4 | 4.5 | 4.1 | 1.1 | 5.1 | 4.1 | 2.1 | 3.3 | 3.5 | 3.4 | 3.0 |
| 27.1 | 34.9 | 45.4 | 51.3 | 46.8 | 36.6 | 29.5 | 56.4 | 56.5 | 58.3 | 66.5 | 46.3 | 52.7 | 26.4 | 43.6 | 46.3 | 44.9 | 38.7 |
| 19.9 | 28.1 | 21.3 | 19.3 | 19.7 | 21.6 | 17.3 | 11.2 | 12.1 | 10.0 | 9.8 | 12.8 | 11.8 | 21.4 | 35.5 | 18.8 | 27.2 | 19.1 |
| 18.4 | 10.1 | 11.2 | 9.8 | 10.9 | 13.8 | 15.7 | 11.2 | 9.0 | 10.3 | 7.7 | 12.6 | 11.2 | 12.8 | 5.9 | 11.9 | 8.9 | 11.6 |
| 11.6 | 7.5 | 7.9 | 5.4 | 9.0 | 9.2 | 11.8 | 4.5 | 4.9 | 4.7 | 4.3 | 7.2 | 5.9 | 16.8 | 4.2 | 10.5 | 7.4 | 11.4 |
| 3.8 | 3.6 | 1.7 | 2.8 | 1.5 | 3.1 | 2.9 | 4.1 | 2.7 | 3.1 | 1.3 | 6.2 | 4.6 | 2.8 | 1.2 | 1.3 | 1.3 | 3.1 |
| 17.0 | 13.8 | 11.0 | 9.5 | 10.4 | 13.8 | 20.3 | 11.8 | 13.0 | 11.3 | 8.2 | 12.9 | 11.9 | 17.5 | 6.6 | 8.5 | 7.5 | 13.8 |
| 2.1 | 2.0 | 1.5 | 1.8 | 1.7 | 1.9 | 2.5 | 1.0 | 1.8 | 2.2 | 2.1 | 2.1 | 1.9 | 2.3 | 3.0 | 2.7 | 2.8 | 2.3 |
| 6.7 | 8.7 | 8.8 | 6.7 | 6.2 | 7.4 | 7.3 | 8.7 | 8.1 | 6.3 | 10.6 | 7.1 | 7.8 | 5.2 | 7.1 | 5.5 | 6.3 | 6.3 |
| 18.0 | 12.6 | 14.4 | 14.2 | 16.0 | 15.7 | 14.7 | 16.2 | 12.6 | 16.3 | 16.0 | 12.8 | 14.2 | 11.9 | 13.7 | 14.0 | 13.9 | 13.0 |
| 14.2 | 9.5 | 12.3 | 13.7 | 15.0 | 13.0 | 13.2 | 15.2 | 13.5 | 16.0 | 18.1 | 16.7 | 16.3 | 15.1 | 14.1 | 13.4 | 13.7 | 15.2 |
| 7.6 | 1.7 | 6.7 | 4.6 | 5.5 | 5.7 | 5.3 | 6.1 | 4.0 | 7.8 | 10.1 | 10.0 | 8.6 | 8.6 | 4.9 | 7.7 | 6.3 | 8.2 |
| 18.3 | 23.6 | 17.7 | 21.6 | 21.7 | 20.0 | 15.9 | 18.9 | 18.4 | 16.9 | 14.6 | 14.3 | 15.7 | 20.9 | 16.3 | 19.4 | 17.8 | 18.6 |
| 4.1 | 2.0 | 3.1 | 2.6 | 3.7 | 3.3 | 3.3 | 5.7 | 7.2 | 6.6 | 3.5 | 4.6 | 5.0 | 6.9 | 5.5 | 6.7 | 6.1 | 6.1 |
| 8.4 | 3.9 | 5.4 | 9.5 | 8.2 | 7.2 | 7.9 | 5.9 | 7.6 | 7.5 | 6.9 | 8.2 | 7.5 | 9.6 | 9.1 | 8.8 | 8.9 | 8.8 |
| 5.3 | 2.2 | 5.8 | 3.4 | 3.7 | 4.4 | 4.9 | 5.9 | 6.3 | 3.4 | 3.2 | 4.6 | 4.6 | 6.3 | 5.5 | 6.1 | 5.8 | 5.6 |
| 15.0 | 9.9 | 14.2 | 11.9 | 10.0 | 13.0 | 16.1 | 11.4 | 16.1 | 14.7 | 9.6 | 10.7 | 11.5 | 10.4 | 10.5 | 7.5 | 9.0 | 10.5 |
| 2.2 | 25.6 | 11.5 | 11.9 | 9.7 | 10.1 | 11.0 | 6.1 | 6.3 | 3.8 | 7.2 | 10.8 | 8.4 | 5.0 | 12.8 | 10.4 | 11.6 | 7.3 |
| 0.2 | 0.3 | 0.0 | 0.0 | 0.2 | 0.2 | 0.3 | 0.0 | 0.0 | 0.6 | 0.3 | 0.1 | 0.2 | 0.1 | 0.5 | 0.5 | 0.5 | 0.2 |

[^20]

NOTE: Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates.
a Physical sciences includes mathematics and computer sciences.
${ }^{2}$ Physical sciences includes mathematics and computer sciences.
${ }^{\mathrm{b}}$ Includes 2-year, 4-year, foreign colleges/universities, medical schools, and elementary/secondary schools.

| $\begin{aligned} & \text { 깅 } \\ & \text { ㅇ } \\ & \frac{0}{0} \\ & \text { in } \end{aligned}$ |  |  |  |  |  |  |  |  |  |  |  | $\stackrel{\text { 合 }}{\stackrel{y}{2}}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1,205 | 691 | 442 | 483 | 406 | 3,227 | 16,810 | 654 | 198 | 250 | 247 | 1,450 | 2,799 | 2,250 | 726 | 585 | 1,314 | 6,361 |
| 33.3 | 72.9 | 41.7 | 64.7 | 55.2 | 45.4 | 62.1 | 61.7 | 43.0 | 41.0 | 38.5 | 50.6 | 49.7 | 35.0 | 67.8 | 49.3 | 58.1 | 44.4 |
| 84.2 | 41.2 | 74.7 | 76.8 | 63.5 | 70.0 | 54.7 | 86.2 | 88.9 | 90.8 | 65.2 | 75.7 | 79.5 | 83.3 | 58.0 | 67.2 | 62.0 | 77.3 |
| 2.5 | 5.1 | 5.4 | 4.6 | 6.2 | 4.2 | 5.5 | 3.2 | 1.0 | 0.4 | 8.9 | 4.1 | 3.8 | 1.9 | 4.1 | 5.6 | 4.8 | 3.3 |
| 5.6 | 49.6 | 16.7 | 14.7 | 24.9 | 20.4 | 34.9 | 8.3 | 7.1 | 6.4 | 22.3 | 14.3 | 12.4 | 10.9 | 32.9 | 23.9 | 28.9 | 15.2 |
| 7.6 | 4.1 | 3.2 | 3.9 | 5.4 | 5.4 | 4.9 | 2.3 | 3.0 | 2.4 | 3.6 | 5.9 | 4.3 | 3.9 | 5.0 | 3.2 | 4.3 | 4.1 |
| 25.9 | 33.7 | 24.4 | 26.7 | 20.7 | 26.8 | 29.6 | 25.8 | 27.8 | 28.4 | 25.5 | 24.0 | 25.2 | 13.6 | 20.0 | 13.7 | 17.1 | 19.4 |
| 49.8 | 49.9 | 55.4 | 56.7 | 59.1 | 52.8 | 54.3 | 58.9 | 49.0 | 55.6 | 53.0 | 52.4 | 54.0 | 68.5 | 61.4 | 66.0 | 63.3 | 61.1 |
| 3.9 | 3.0 | 5.2 | 5.2 | 6.7 | 4.4 | 2.9 | 2.9 | 5.1 | 4.0 | 6.1 | 5.4 | 4.8 | 5.3 | 3.7 | 6.2 | 4.8 | 5.0 |
| 7.1 | 6.1 | 7.9 | 3.5 | 4.9 | 6.2 | 4.4 | 6.4 | 11.1 | 5.2 | 9.3 | 6.8 | 7.1 | 2.4 | 4.1 | 3.1 | 3.7 | 4.7 |
| 0.2 | 0.0 | 0.0 | 0.2 | 0.2 | 0.1 | 0.1 | 0.3 | 0.0 | 0.0 | 0.4 | 0.2 | 0.2 | 0.1 | 0.1 | 0.3 | 0.2 | 0.2 |
| 13.2 | 7.2 | 7.0 | 7.7 | 8.4 | 9.6 | 8.7 | 5.7 | 7.1 | 6.8 | 5.7 | 11.1 | 8.7 | 10.0 | 10.6 | 10.8 | 10.9 | 9.6 |
| 32.7 | 32.2 | 35.2 | 33.6 | 36.1 | 33.3 | 31.8 | 34.7 | 34.6 | 34.0 | 35.2 | 35.4 | 35.0 | 43.5 | 36.7 | 38.8 | 37.5 | 37.9 |
| 60.2 | 55.6 | 76.2 | 55.9 | 25.4 | 56.4 | 60.6 | 54.4 | 62.6 | 71.2 | 45.3 | 49.9 | 49.3 | 29.6 | 30.7 | 28.2 | 29.5 | 38.3 |
| 73.9 | 72.6 | 82.8 | 81.8 | 84.5 | 77.4 | 67.2 | 85.2 | 82.3 | 85.2 | 87.0 | 82.3 | 83.7 | 88.8 | 79.1 | 87.4 | 82.6 | 85.3 |
| 9.0 | 9.1 | 11.4 | 10.5 | 12.0 | 10.0 | 8.8 | 11.0 | 11.0 | 10.7 | 11.2 | 12.0 | 11.6 | 18.6 | 13.2 | 14.3 | 13.7 | 13.9 |
| 7.2 | 7.0 | 8.5 | 8.3 | 8.0 | 7.5 | 7.0 | 8.7 | 8.6 | 8.3 | 8.5 | 8.7 | 8.6 | 8.0 | 7.6 | 8.9 | 8.0 | 8.3 |
| 27.0 | 6.8 | 17.2 | 9.7 | 11.3 | 16.8 | 34.6 | 12.1 | 6.6 | 8.4 | 8.5 | 6.3 | 8.0 | 5.5 | 3.2 | 6.3 | 4.6 | 6.4 |
| 19.6 | 3.5 | 10.6 | 5.8 | 4.4 | 10.9 | 17.0 | 7.5 | 3.5 | 3.6 | 3.6 | 2.6 | 4.0 | 2.3 | 1.8 | 1.5 | 1.7 | 2.9 |
| 4.9 | 2.0 | 4.8 | 2.5 | 4.4 | 3.8 | 14.0 | 1.4 | 0.5 | 1.6 | 2.0 | 1.4 | 1.4 | 1.6 | 0.7 | 2.6 | 1.5 | 1.5 |
| 1.5 | 0.4 | 0.7 | 0.2 | 0.7 | 0.9 | 1.2 | 0.3 | 0.5 | 0.0 | 0.4 | 0.6 | 0.4 | 0.4 | 0.3 | 1.0 | 0.6 | 0.5 |
| 1.0 | 0.9 | 1.1 | 1.2 | 1.7 | 1.1 | 2.3 | 2.9 | 2.0 | 3.2 | 2.4 | 1.7 | 2.2 | 1.2 | 0.4 | 1.2 | 0.8 | 1.6 |
| 59.7 | 85.7 | 75.3 | 82.0 | 79.6 | 73.2 | 56.4 | 79.8 | 86.9 | 83.6 | 85.4 | 82.2 | 82.4 | 83.8 | 85.5 | 83.1 | 84.2 | 83.3 |
| 22.7 | 44.0 | 51.4 | 56.5 | 48.0 | 39.4 | 19.2 | 60.2 | 69.7 | 70.0 | 74.5 | 61.6 | 63.7 | 66.9 | 60.6 | 50.3 | 55.9 | 63.3 |
| 15.9 | 18.4 | 7.2 | 9.1 | 11.8 | 13.7 | 26.8 | 5.0 | 9.1 | 6.8 | 4.5 | 7.3 | 6.6 | 5.3 | 17.8 | 9.1 | 13.9 | 7.6 |
| 8.5 | 13.6 | 5.7 | 5.8 | 7.6 | 8.7 | 5.5 | 4.9 | 0.5 | 0.4 | 1.2 | 1.1 | 1.9 | 4.5 | 2.8 | 6.8 | 4.6 | 3.4 |
| 7.8 | 3.8 | 5.7 | 3.7 | 5.4 | 5.7 | 2.0 | 3.2 | 0.0 | 1.6 | 0.8 | 6.8 | 4.5 | 3.6 | 1.5 | 12.3 | 6.3 | 4.6 |
| 4.8 | 5.9 | 5.4 | 6.8 | 6.7 | 5.7 | 2.9 | 6.4 | 7.6 | 4.8 | 4.5 | 5.4 | 5.6 | 3.4 | 2.9 | 4.6 | 3.7 | 4.4 |
| 13.4 | 7.5 | 7.5 | 8.3 | 9.1 | 10.0 | 9.0 | 8.1 | 6.6 | 8.0 | 6.1 | 11.5 | 9.6 | 10.7 | 11.3 | 10.6 | 11.2 | 10.3 |
| 21.2 | 5.2 | 11.1 | 6.0 | 6.9 | 12.3 | 25.9 | 6.6 | 5.1 | 5.6 | 4.9 | 4.2 | 5.0 | 3.8 | 2.3 | 3.8 | 3.0 | 4.2 |
| 5.8 | 1.6 | 6.1 | 3.7 | 4.4 | 4.5 | 8.7 | 5.5 | 1.5 | 2.8 | 3.6 | 2.1 | 3.0 | 1.7 | 0.8 | 2.6 | 1.6 | 2.3 |
| 42.0 | 69.5 | 50.0 | 51.6 | 58.4 | 52.5 | 40.2 | 44.6 | 43.9 | 51.6 | 62.3 | 53.8 | 51.5 | 66.0 | 71.9 | 63.6 | 68.0 | 60.1 |
| 17.7 | 16.2 | 25.3 | 30.4 | 21.2 | 20.8 | 16.2 | 35.2 | 42.9 | 32.0 | 23.1 | 28.4 | 30.9 | 17.7 | 13.6 | 19.5 | 16.2 | 23.2 |
| 506 | 480 | 221 | 249 | 237 | 1,693 | 6,764 | 292 | 87 | 129 | 154 | 780 | 1,442 | 1,486 | 522 | 372 | 894 | 3,822 |
| 21.1 | 52.7 | 32.6 | 23.3 | 33.8 | 33.7 | 54.7 | 7.9 | 10.3 | 7.8 | 9.1 | 7.6 | 8.0 | 6.7 | 31.6 | 12.1 | 23.5 | 11.1 |
| 21.5 | 25.6 | 46.6 | 56.2 | 44.7 | 34.3 | 22.4 | 74.3 | 75.9 | 74.4 | 83.1 | 70.3 | 73.2 | 37.7 | 43.5 | 52.7 | 47.3 | 53.3 |
| 5.9 | 3.8 | 6.8 | 8.0 | 7.6 | 6.0 | 3.8 | 6.2 | 5.7 | 10.1 | 4.5 | 5.3 | 5.8 | 41.7 | 8.4 | 12.9 | 10.3 | 20.8 |
| 46.2 | 12.1 | 7.7 | 6.4 | 8.0 | 20.3 | 12.9 | 8.2 | 4.6 | 0.8 | 1.3 | 9.1 | 7.1 | 8.9 | 8.8 | 14.2 | 11.1 | 8.7 |
| 2.8 | 3.5 | 3.6 | 4.4 | 3.4 | 3.4 | 3.7 | 2.4 | 3.4 | 6.2 | 1.3 | 5.6 | 4.4 | 2.2 | 3.8 | 4.8 | 4.3 | 3.5 |
| 27.9 | 35.2 | 43.0 | 49.4 | 46.8 | 37.7 | 28.0 | 55.8 | 49.4 | 62.8 | 69.5 | 44.5 | 51.4 | 26.4 | 42.7 | 41.4 | 42.2 | 39.5 |
| 19.6 | 30.4 | 24.0 | 20.9 | 21.5 | 23.7 | 17.3 | 9.9 | 13.8 | 14.0 | 11.7 | 12.3 | 12.0 | 24.0 | 34.3 | 20.2 | 28.4 | 20.5 |
| 20.4 | 10.6 | 10.9 | 9.6 | 11.0 | 13.5 | 17.0 | 13.0 | 12.6 | 5.4 | 6.5 | 13.6 | 11.9 | 13.9 | 7.1 | 15.6 | 10.6 | 12.4 |
| 13.6 | 6.3 | 5.4 | 5.6 | 8.9 | 8.6 | 11.9 | 4.5 | 8.0 | 6.2 | 3.2 | 7.2 | 6.2 | 14.7 | 3.8 | 11.6 | 7.0 | 9.7 |
| 3.2 | 3.3 | 1.8 | 2.8 | 1.7 | 2.8 | 2.8 | 2.4 | 3.4 | 0.0 | 0.0 | 5.8 | 3.8 | 2.6 | 1.1 | 0.8 | 1.0 | 2.7 |
| 13.0 | 12.1 | 12.2 | 10.0 | 7.6 | 11.5 | 20.5 | 13.4 | 12.6 | 10.9 | 8.4 | 14.6 | 13.2 | 15.8 | 7.1 | 7.3 | 7.2 | 12.8 |
| 2.4 | 2.1 | 2.7 | 1.6 | 2.5 | 2.2 | 2.5 | 1.0 | 0.0 | 0.8 | 0.6 | 2.1 | 1.5 | 2.6 | 3.8 | 3.2 | 3.6 | 2.4 |
| 8.3 | 7.5 | 8.1 | 7.2 | 6.4 | 7.6 | 7.4 | 9.2 | 8.0 | 3.9 | 8.4 | 6.3 | 7.0 | 5.5 | 7.7 | 6.2 | 7.0 | 6.4 |
| 16.2 | 12.1 | 17.2 | 14.1 | 14.8 | 14.7 | 13.9 | 16.8 | 10.3 | 15.5 | 13.0 | 13.6 | 14.1 | 12.1 | 12.5 | 11.0 | 11.9 | 12.8 |
| 14.0 | 10.2 | 9.5 | 12.4 | 15.3 | 12.3 | 13.2 | 14.4 | 17.2 | 18.6 | 16.2 | 16.8 | 16.4 | 15.3 | 14.0 | 11.8 | 13.1 | 15.2 |
| 7.5 | 1.7 | 7.2 | 5.2 | 4.7 | 5.1 | 4.7 | 7.5 | 4.6 | 5.4 | 7.8 | 8.3 | 7.6 | 9.1 | 5.6 | 6.5 | 5.9 | 7.8 |
| 19.0 | 21.7 | 15.4 | 21.3 | 22.0 | 20.0 | 14.5 | 15.8 | 21.8 | 15.5 | 23.4 | 13.2 | 15.5 | 18.7 | 17.0 | 20.2 | 18.3 | 17.4 |
| 4.2 | 1.9 | 2.3 | 2.4 | 3.4 | 2.9 | 3.1 | 6.2 | 11.5 | 7.8 | 2.6 | 5.0 | 5.6 | 6.5 | 5.7 | 7.5 | 6.5 | 6.1 |
| 8.7 | 4.6 | 6.8 | 9.6 | 8.5 | 7.4 | 8.0 | 5.5 | 6.9 | 7.8 | 7.1 | 8.7 | 7.7 | 9.2 | 10.2 | 9.9 | 10.1 | 8.8 |
| 6.7 | 1.7 | 3.6 | 3.2 | 3.4 | 3.9 | 5.1 | 6.5 | 3.4 | 3.1 | 3.2 | 5.9 | 5.3 | 6.3 | 3.6 | 5.6 | 4.5 | 5.5 |
| 12.8 | 8.8 | 15.4 | 12.0 | 8.5 | 11.3 | 16.8 | 12.3 | 12.6 | 19.4 | 8.4 | 10.1 | 11.4 | 9.6 | 8.8 | 6.7 | 7.9 | 9.9 |
| 2.4 | 29.6 | 14.5 | 12.4 | 12.7 | 14.6 | 13.1 | 5.8 | 3.4 | 3.1 | 9.7 | 11.9 | 9.2 | 7.6 | 14.4 | 14.0 | 14.2 | 9.7 |
| 0.2 | 0.4 | 0.0 | 0.0 | 0.4 | 0.2 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.6 | 0.5 | 0.6 | 0.2 |

[^21]${ }^{d}$ Includes 2 respondents whose doctoral field was unknown.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates


NOTE: Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates.
Physical sciences includes mathematics and computer sciences.
${ }^{\mathrm{b}}$ Includes 2-year, 4-year, foreign colleges/universities, medical schools, and elementary/secondary schools.

| $\begin{aligned} & \text { 긍 } \\ & \frac{0}{0} \\ & \frac{1}{0} \\ & \vdots \end{aligned}$ | 0 0 0 0 0 0 |  |  |  |  |  | $\begin{aligned} & \frac{2}{3} \\ & \frac{0}{6} \\ & \frac{1}{I} \end{aligned}$ |  |  |  |  |  | $\begin{aligned} & \text { z } \\ & \text { 은 } \\ & \text { U } \\ & \text { O} \end{aligned}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2,414 | 255 | 618 | 262 | 330 | 3,879 | 10,181 | 406 | 262 | 360 | 394 | 1,408 | 2,830 | 4,167 | 340 | 601 | 943 | 7,938 |
| 66.6 | 26.9 | 58.2 | 35.1 | 44.8 | 54.5 | 37.6 | 38.3 | 57.0 | 59.0 | 61.5 | 49.2 | 50.2 | 64.9 | 31.7 | 50.7 | 41.7 | 55.5 |
| 88.2 | 42.4 | 80.4 | 78.6 | 71.5 | 81.9 | 70.9 | 85.2 | 88.9 | 87.8 | 69.3 | 72.9 | 77.6 | 87.7 | 72.6 | 76.7 | 75.1 | 82.6 |
| 1.9 | 6.3 | 5.0 | 3.4 | 4.2 | 3.0 | 5.3 | 3.2 | 2.3 | 3.3 | 10.9 | 5.0 | 5.1 | 1.9 | 7.4 | 3.7 | 5.0 | 3.4 |
| 4.0 | 46.3 | 11.2 | 13.7 | 19.1 | 9.8 | 19.3 | 8.1 | 5.7 | 7.5 | 17.8 | 17.7 | 13.9 | 7.1 | 16.8 | 16.1 | 16.3 | 10.6 |
| 5.9 | 5.1 | 3.4 | 4.2 | 5.2 | 5.3 | 4.5 | 3.4 | 3.1 | 1.4 | 2.0 | 4.3 | 3.4 | 3.2 | 3.2 | 3.5 | 3.6 | 3.3 |
| 27.2 | 34.9 | 27.8 | 27.9 | 23.3 | 27.5 | 28.9 | 22.9 | 26.0 | 27.5 | 26.4 | 28.4 | 27.0 | 14.6 | 25.6 | 23.3 | 24.1 | 20.1 |
| 44.7 | 45.1 | 43.4 | 46.2 | 48.5 | 45.0 | 48.6 | 50.2 | 46.2 | 46.9 | 52.3 | 44.9 | 47.1 | 56.1 | 52.4 | 49.3 | 50.3 | 52.2 |
| 8.1 | 2.7 | 10.5 | 6.1 | 9.4 | 8.1 | 6.3 | 8.6 | 11.1 | 8.3 | 8.6 | 8.4 | 8.7 | 13.4 | 7.4 | 11.3 | 9.9 | 11.3 |
| 7.5 | 7.5 | 9.4 | 9.9 | 6.7 | 7.9 | 6.7 | 9.6 | 10.3 | 11.4 | 6.9 | 7.3 | 8.4 | 4.0 | 4.4 | 6.0 | 5.4 | 5.7 |
| 0.4 | 0.0 | 0.2 | 0.0 | 0.0 | 0.3 | 0.4 | 0.2 | 1.1 | 1.7 | 0.5 | 0.9 | 0.9 | 1.3 | 0.9 | 1.2 | 1.1 | 1.1 |
| 12.1 | 9.8 | 8.7 | 9.9 | 12.1 | 11.3 | 9.2 | 8.4 | 5.3 | 4.2 | 5.3 | 10.1 | 8.0 | 10.6 | 9.4 | 9.0 | 9.3 | 9.5 |
| 32.0 | 30.8 | 35.1 | 33.3 | 34.7 | 32.7 | 31.9 | 34.5 | 34.0 | 34.1 | 35.1 | 35.0 | 34.7 | 44.9 | 36.5 | 39.1 | 38.3 | 39.9 |
| 62.8 | 54.5 | 77.2 | 49.6 | 19.7 | 60.0 | 58.0 | 51.7 | 63.7 | 70.6 | 49.5 | 48.8 | 46.6 | 35.9 | 35.3 | 30.3 | 32.0 | 39.3 |
| 74.9 | 72.2 | 80.6 | 76.3 | 82.1 | 76.3 | 65.3 | 83.5 | 87.8 | 88.9 | 86.5 | 83.4 | 84.9 | 88.0 | 80.3 | 90.8 | 86.9 | 86.8 |
| 9.0 | 8.0 | 11.6 | 10.3 | 11.5 | 9.6 | 9.0 | 11.5 | 10.3 | 11.3 | 11.1 | 11.5 | 11.3 | 20.0 | 12.5 | 15.2 | 14.4 | 15.0 |
| 7.1 | 7.0 | 9.0 | 8.2 | 8.0 | 7.6 | 7.1 | 9.0 | 8.5 | 9.0 | 8.6 | 8.9 | 8.9 | 8.2 | 7.5 | 8.1 | 8.0 | 8.4 |
| 31.0 | 6.3 | 16.8 | 8.0 | 11.2 | 23.9 | 36.3 | 10.1 | 5.3 | 4.7 | 8.6 | 7.8 | 7.6 | 4.3 | 3.5 | 6.8 | 5.6 | 5.7 |
| 23.3 | 3.5 | 11.3 | 4.2 | 4.8 | 17.2 | 21.8 | 6.9 | 3.4 | 3.3 | 3.8 | 4.0 | 4.3 | 1.4 | 1.5 | 3.2 | 2.5 | 2.6 |
| 4.0 | 2.0 | 3.6 | 2.3 | 4.2 | 3.7 | 11.0 | 1.7 | 0.8 | 0.0 | 1.5 | 1.6 | 1.3 | 1.7 | 1.5 | 0.8 | 1.1 | 1.5 |
| 2.3 | 0.8 | 0.5 | 0.0 | 0.3 | 1.6 | 1.3 | 0.2 | 0.0 | 0.0 | 0.8 | 0.4 | 0.3 | 0.3 | 0.3 | 0.0 | 0.1 | 0.3 |
| 1.4 | 0.0 | 1.5 | 1.5 | 1.8 | 1.4 | 2.2 | 1.2 | 1.1 | 1.4 | 2.5 | 1.8 | 1.7 | 0.9 | 0.3 | 2.8 | 1.9 | 1.3 |
| 56.6 | 85.5 | 73.6 | 81.7 | 76.1 | 64.6 | 54.2 | 80.0 | 89.3 | 89.7 | 85.3 | 80.9 | 83.3 | 84.6 | 87.9 | 84.2 | 85.4 | 84.3 |
| 22.2 | 38.8 | 48.4 | 53.4 | 43.3 | 31.4 | 23.5 | 57.9 | 68.7 | 70.8 | 70.6 | 60.9 | 63.8 | 66.0 | 65.3 | 57.4 | 60.1 | 64.5 |
| 12.4 | 19.2 | 6.5 | 9.5 | 12.7 | 11.8 | 15.6 | 6.2 | 6.9 | 7.8 | 4.6 | 6.2 | 6.2 | 5.1 | 16.2 | 8.7 | 11.3 | 6.2 |
| 5.6 | 10.6 | 5.3 | 3.8 | 7.6 | 5.9 | 5.1 | 2.7 | 1.5 | 0.6 | 1.5 | 1.3 | 1.4 | 3.2 | 1.2 | 4.2 | 3.1 | 2.6 |
| 8.9 | 5.5 | 7.0 | 5.7 | 7.3 | 8.0 | 4.7 | 3.2 | 1.9 | 1.1 | 1.3 | 4.8 | 3.4 | 3.9 | 2.4 | 8.8 | 6.5 | 4.0 |
| 7.5 | 11.4 | 6.5 | 9.2 | 5.2 | 7.5 | 5.3 | 10.1 | 10.3 | 9.4 | 7.4 | 7.7 | 8.4 | 6.4 | 2.9 | 5.2 | 4.3 | 6.9 |
| 12.4 | 8.2 | 9.5 | 10.3 | 12.7 | 11.5 | 9.4 | 9.9 | 5.3 | 5.6 | 6.1 | 11.3 | 9.1 | 11.0 | 8.5 | 9.0 | 9.0 | 10.1 |
| 23.0 | 5.5 | 11.2 | 5.3 | 7.3 | 17.5 | 26.8 | 6.7 |  |  | 5.6 | 4.2 | 4.5 | 2.9 | 3.2 | 4.2 | 3.8 | 3.6 |
| 8.0 | 0.8 | 5.7 | 2.7 | 3.9 | 6.4 | 9.5 | 3.4 | 1.9 | 1.7 | 3.0 | 3.6 | 3.1 | 1.5 | 0.3 | 2.7 | 1.8 | 2.1 |
| 37.5 | 64.3 | 48.4 | 53.1 | 50.0 | 43.1 | 36.4 | 49.5 | 51.9 | 52.8 | 56.3 | 49.8 | 51.2 | 62.4 | 70.0 | 62.9 | 65.3 | 58.8 |
| 19.1 | 21.2 | 25.2 | 28.6 | 26.1 | 21.4 | 17.8 | 30.5 | 37.4 | 36.9 | 28.9 | 31.1 | 32.0 | 22.2 | 17.9 | 21.3 | 20.0 | 25.5 |
| 905 | 164 | 299 | 139 | 165 | 1,672 | 3,709 | 201 | 136 | 190 | 222 | 701 | 1,450 | 2,601 | 238 | 378 | 616 | 4,667 |
| 17.8 | 54.3 | 30.8 | 27.3 | 27.3 | 25.4 | 36.5 | 15.9 | 4.4 | 4.7 | 9.0 | 10.0 | 9.4 | 7.2 | 34.9 | 10.6 | 20.0 | 9.6 |
| 20.1 | 23.2 | 51.8 | 58.3 | 49.1 | 32.1 | 31.5 | 69.7 | 77.9 | 82.1 | 82.0 | 73.3 | 75.7 | 40.4 | 46.2 | 59.0 | 54.1 | 53.2 |
| 5.7 | 3.0 | 9.0 | 5.8 | 11.5 | 6.6 | 6.1 | 4.5 | 5.9 | 2.6 | 3.6 | 4.9 | 4.4 | 35.9 | 6.3 | 14.8 | 11.5 | 22.9 |
| 49.9 | 11.6 | 6.0 | 4.3 | 7.3 | 30.3 | 19.7 | 4.0 | 3.7 | 4.2 | 1.4 | 5.3 | 4.2 | 12.3 | 9.2 | 11.4 | 10.6 | 9.6 |
| 4.2 | 6.1 | 1.7 | 2.2 | 4.2 | 3.8 | 3.8 | 5.0 | 5.1 | 2.6 | 0.9 | 4.4 | 3.8 | 2.0 | 2.1 | 2.1 | 2.1 | 2.6 |
| 26.6 | 34.1 | 47.2 | 54.7 | 46.7 | 35.3 | 32.2 | 57.2 | 61.0 | 55.3 | 64.4 | 48.2 | 54.1 | 26.4 | 45.4 | 51.1 | 48.9 | 37.9 |
| 20.1 | 21.3 | 19.4 | 16.5 | 17.0 | 19.5 | 17.4 | 12.9 | 11.0 | 7.4 | 8.6 | 13.3 | 11.5 | 19.8 | 38.2 | 17.5 | 25.5 | 18.0 |
| 17.3 | 8.5 | 11.4 | 10.1 | 10.9 | 14.2 | 13.5 | 8.5 | 6.6 | 13.7 | 8.6 | 11.4 | 10.4 | 12.3 | 3.4 | 8.2 | 6.3 | 10.9 |
| 10.5 | 11.0 | 9.7 | 5.0 | 9.1 | 9.8 | 11.5 | 4.5 | 2.9 | 3.7 | 5.0 | 7.3 | 5.7 | 18.0 | 5.0 | 9.5 | 7.8 | 12.8 |
| 4.2 | 4.3 | 1.7 | 2.9 | 1.2 | 3.3 | 3.1 | 6.5 | 2.2 | 5.3 | 2.3 | 6.7 | 5.4 | 2.9 | 1.3 | 1.9 | 1.6 | 3.5 |
| 19.2 | 18.9 | 10.0 | 8.6 | 14.5 | 16.2 | 19.9 | 9.5 | 13.2 | 11.6 | 8.1 | 11.0 | 10.6 | 18.5 | 5.5 | 9.8 | 8.1 | 14.7 |
| 2.0 | 1.8 | 0.7 | 2.2 | 0.6 | 1.6 | 2.4 | 1.0 | 2.9 | 3.2 | 3.2 | 2.1 | 2.3 | 2.1 | 1.3 | 2.1 | 1.8 | 2.1 |
| 5.9 | 12.2 | 9.4 | 5.8 | 6.1 | 7.1 | 7.1 | 8.0 | 8.1 | 7.9 | 12.2 | 8.0 | 8.6 | 5.1 | 5.9 | 4.8 | 5.2 | 6.2 |
| 19.0 | 14.0 | 12.4 | 14.4 | 17.6 | 16.8 | 16.2 | 15.4 | 14.0 | 16.8 | 18.0 | 12.0 | 14.2 | 11.8 | 16.4 | 17.0 | 16.7 | 13.2 |
| 14.3 | 7.3 | 14.4 | 15.8 | 14.5 | 13.8 | 13.3 | 16.4 | 11.0 | 14.2 | 19.4 | 16.5 | 16.1 | 15.0 | 14.3 | 14.9 | 14.6 | 15.3 |
| 7.6 | 1.8 | 6.4 | 3.6 | 6.7 | 6.4 | 6.3 | 4.0 | 3.7 | 9.5 | 11.7 | 11.8 | 9.7 | 8.3 | 3.4 | 9.0 | 6.8 | 8.5 |
| 17.9 | 29.3 | 19.4 | 22.3 | 21.2 | 20.0 | 18.5 | 23.4 | 16.2 | 17.9 | 8.6 | 15.5 | 15.9 | 22.2 | 14.7 | 18.6 | 17.1 | 19.6 |
| 4.1 | 2.4 | 3.7 | 2.9 | 4.2 | 3.8 | 3.9 | 5.0 | 4.4 | 5.8 | 4.1 | 4.1 | 4.5 | 7.2 | 5.0 | 5.8 | 5.5 | 6.1 |
| 8.2 | 1.8 | 4.3 | 9.4 | 7.9 | 6.9 | 7.8 | 6.5 | 8.1 | 7.4 | 6.8 | 7.7 | 7.4 | 9.9 | 6.7 | 7.7 | 7.3 | 8.8 |
| 4.5 | 3.7 | 7.4 | 3.6 | 4.2 | 4.8 | 4.6 | 5.0 | 8.1 | 3.7 | 3.2 | 3.1 | 3.9 | 6.2 | 9.7 | 6.6 | 7.8 | 5.7 |
| 16.2 | 13.4 | 13.4 | 11.5 | 12.1 | 14.7 | 14.8 | 10.0 | 18.4 | 11.6 | 10.4 | 11.4 | 11.7 | 10.9 | 14.3 | 8.2 | 10.6 | 11.1 |
| 2.1 | 14.0 | 9.4 | 10.8 | 5.5 | 5.6 | 7.3 | 6.5 | 8.1 | 4.2 | 5.4 | 9.6 | 7.7 | 3.5 | 9.2 | 6.9 | 7.8 | 5.4 |
| 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.0 | 0.0 | 1.1 | 0.5 | 0.1 | 0.3 | 0.1 | 0.4 | 0.5 | 0.5 | 0.2 |

[^22]${ }^{d}$ Includes 2 respondents whose doctoral field was unknown.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

APPENDIX TABLE A-4. Statistical profile of doctorate recipients, by race/ethnicity and citizenship, 2000

| Characteristics |  | Total ${ }^{\text {a }}$ |  |  |  | American Indian ${ }^{\text {b }}$ Total | Asian ${ }^{\text {c }}$ |  |  |  | Black |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | U.S. | Non-U.S. |  |  | Total | U.S. | Non-U.S. |  | Total | U.S. | Non-U.S. |  |
|  |  |  |  | Perm. | Temp. |  |  |  | Perm. | Temp. |  |  | Perm. | Temp. |
| Total Number |  | 41,368 | 27,888 | 1,949 | 9,648 | 169 | 8,110 | 1,407 | 908 | 5,770 | 2,123 | 1,656 | 119 | 335 |
| Male | \% | 56.0 | 50.6 | 58.3 | 70.9 | 45.0 | 66.3 | 54.1 | 55.5 | 70.9 | 41.9 | 34.3 | 68.9 | 69.6 |
| Female |  | 43.8 | 49.4 | 41.6 | 29.1 | 55.0 | 33.7 | 45.9 | 44.5 | 29.1 | 58.1 | 65.7 | 31.1 | 30.4 |
| Doctoral Field |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Physical Sciences ${ }^{\text {d }}$ | \% | 14.7 | 11.7 | 18.4 | 22.4 | 10.1 | 20.2 | 14.2 | 19.7 | 21.7 | 6.4 | 5.2 | 12.6 | 10.4 |
| Engineering |  | 12.9 | 7.9 | 18.0 | 25.3 | 4.7 | 26.3 | 17.6 | 22.0 | 29.1 | 5.3 | 4.6 | 5.9 | 8.7 |
| Life Sciences |  | 20.6 | 19.8 | 25.8 | 22.7 | 15.4 | 25.8 | 28.6 | 31.3 | 24.3 | 15.3 | 11.7 | 23.5 | 30.4 |
| Social Sciences |  | 17.2 | 19.5 | 12.9 | 10.8 | 23.7 | 9.9 | 15.6 | 9.7 | 8.6 | 19.9 | 20.9 | 18.5 | 15.5 |
| Humanities |  | 13.6 | 15.9 | 12.9 | 7.7 | 12.4 | 6.2 | 10.0 | 6.6 | 5.2 | 9.8 | 9.7 | 10.9 | 9.9 |
| Education |  | 15.5 | 19.8 | 6.4 | 5.6 | 30.2 | 6.1 | 9.0 | 5.2 | 5.5 | 35.8 | 41.1 | 16.0 | 15.5 |
| Professional/Other ${ }^{\text {e }}$ |  | 5.5 | 5.5 | 5.6 | 5.5 | 3.6 | 5.6 | 5.0 | 5.5 | 5.8 | 7.6 | 6.9 | 12.6 | 9.6 |
| Median Age at Doctorate | Yrs | 33.6 | 34.0 | 34.6 | 32.6 | 40.0 | 32.6 | 31.2 | 34.5 | 32.6 | 38.4 | 38.4 | 39.6 | 38.1 |
| Median Time Lapse from Bacc. to Doct. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Time | Yrs | 10.3 | 10.6 | 11.0 | 9.8 | 12.0 | 10.0 | 8.5 | 12.1 | 10.0 | 13.3 | 13.5 | 12.5 | 13.0 |
| Registered Time |  | 7.4 | 7.5 | 7.9 | 7.1 | 8.0 | 7.3 | 7.1 | 8.4 | 7.3 | 7.7 | 7.8 | 8.1 | 7.4 |
| Doctoral Program Support ${ }^{\text {f }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Teaching Assistantships | \% | 17.4 | 16.3 | 19.8 | 20.0 | 10.6 | 17.9 | 14.3 | 19.9 | 18.5 | 11.0 | 7.8 | 16.2 | 24.9 |
| Research Assistantships/Traineeships |  | 24.9 | 18.9 | 33.6 | 40.7 | 10.6 | 43.6 | 31.3 | 40.2 | 47.2 | 11.5 | 8.7 | 18.9 | 22.6 |
| Fellowships/Dissertation Grants |  | 18.8 | 19.3 | 18.8 | 17.4 | 24.8 | 17.1 | 28.2 | 16.4 | 14.5 | 30.6 | 30.7 | 23.4 | 32.8 |
| Own Resources |  | 32.2 | 40.4 | 22.7 | 10.2 | 44.7 | 14.3 | 21.8 | 19.0 | 11.7 | 41.6 | 47.6 | 37.8 | 13.1 |
| Foreign Government |  | 2.7 | 0.1 | 2.8 | 10.4 | 1.2 | 5.4 | 0.5 | 1.9 | 7.1 | 0.9 | 0.1 | 1.8 | 4.9 |
| Employer |  | 3.6 | 4.6 | 2.1 | 1.0 | 6.2 | 1.5 | 3.5 | 2.2 | 0.8 | 3.9 | 4.6 | 1.8 | 1.3 |
| Other |  | 0.3 | 0.4 | 0.2 | 0.2 | 1.9 | 0.2 | 0.4 | 0.4 | 0.2 | 0.4 | 0.5 | 0.0 | 0.3 |
| Postdoctoral Plans |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Postdoctoral study plans | \% | 25.1 | 23.2 | 29.9 | 34.3 | 18.3 | 35.5 | 34.0 | 32.9 | 36.3 | 19.5 | 16.5 | 26.1 | 32.2 |
| Postdoctoral employment plans | \% | 65.2 | 71.6 | 63.9 | 59.5 | 74.6 | 59.2 | 60.6 | 61.9 | 58.6 | 72.7 | 76.1 | 69.7 | 59.7 |
| Educational Institution ${ }^{9}$ |  | 35.7 | 41.9 | 28.8 | 26.2 | 51.5 | 22.2 | 23.2 | 20.6 | 22.3 | 47.5 | 51.3 | 39.5 | 33.4 |
| Industry/Business |  | 17.1 | 14.8 | 26.1 | 25.0 | 7.1 | 29.0 | 24.9 | 32.7 | 29.5 | 9.9 | 9.4 | 16.0 | 10.4 |
| Government |  | 4.5 | 5.3 | 2.3 | 3.5 | 7.1 | 3.2 | 3.8 | 3.0 | 3.1 | 6.5 | 6.8 | 5.0 | 6.0 |
| Nonprofit |  | 3.5 | 4.4 | 2.3 | 1.6 | 3.0 | 2.1 | 4.1 | 2.4 | 1.5 | 4.0 | 4.2 | 2.5 | 3.6 |
| Other/Unknown |  | 4.5 | 5.3 | 4.4 | 3.1 | 5.9 | 2.7 | 4.5 | 3.2 | 2.2 | 4.9 | 4.5 | 6.7 | 6.3 |
| Postdoctoral plans unknown | \% | 9.7 | 5.2 | 6.2 | 6.3 | 7.1 | 5.3 | 5.4 | 5.2 | 5.1 | 7.8 | 7.3 | 4.2 | 8.1 |
| Definite Postdoctoral Study | \% | 18.4 | 18.0 | 18.0 | 23.2 | 14.2 | 23.9 | 26.2 | 19.6 | 24.1 | 12.3 | 11.6 | 10.1 | 17.0 |
| Seeking Postdoctoral Study |  | 6.6 | 5.1 | 11.9 | 11.1 | 4.1 | 11.6 | 7.9 | 13.3 | 12.2 | 7.2 | 5.0 | 16.0 | 15.2 |
| Definite Employment |  | 45.8 | 51.3 | 39.8 | 40.0 | 54.4 | 38.0 | 39.0 | 38.0 | 37.8 | 48.4 | 51.9 | 40.3 | 36.1 |
| Seeking Employment |  | 19.4 | 20.3 | 24.1 | 19.5 | 20.1 | 21.2 | 21.5 | 23.9 | 20.7 | 24.3 | 24.3 | 29.4 | 23.6 |
| Employment Location after Doctorate ${ }^{h}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| U.S. | \% | 90.4 | 98.2 | 90.6 | 61.5 | 94.6 | 77.0 | 96.4 | 94.2 | 69.4 | 92.6 | 99.4 | 89.6 | 45.5 |
| Foreign |  | 9.4 | 1.7 | 9.1 | 38.1 | 5.4 | 22.6 | 3.1 | 5.2 | 30.2 | 7.3 | 0.5 | 10.4 | 54.5 |
| Unknown |  | 0.2 | 0.2 | 0.3 | 0.5 | 0.0 | 0.4 | 0.5 | 0.6 | 0.4 | 0.1 | 0.1 | 0.0 | 0.0 |

APPENDIX TABLE A-4. Statistical profile of doctorate recipients, by race/ethnicity and citizenship, 2000 (continued)

| White |  |  |  | Puerto Rican Total | Mexican American |  |  |  | Other Hispanic |  |  |  | Unknown Race |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Non-U.S. |  |  |  |  | Non-U.S. |  |  |  | Non-U.S. |  |  |  | Non-U.S. |  |
| Total | U.S. | Perm. | Temp. |  | Total | U.S. | Perm. | Temp. | Total | U.S. | Perm. | Temp. | Total | U.S. | Perm. | Temp. |
| 26,328 | 22,911 | 740 | 2,605 | 307 | 464 | 396 | 15 | 52 | 1,158 | 454 | 107 | 592 | 2,709 | 588 | 60 | 294 |
| 53.8 | 51.6 | 61.2 | 71.1 | 40.4 | 54.3 | 49.0 | 86.7 | 84.6 | 58.8 | 48.9 | 43.0 | 69.6 | 59.7 | 58.0 | 65.0 | 69.7 |
| 46.2 | 48.4 | 38.8 | 28.9 | 59.6 | 45.7 | 51.0 | 13.3 | 15.4 | 41.2 | 51.1 | 57.0 | 30.4 | 37.7 | 41.5 | 31.7 | 29.9 |
| 13.8 | 12.1 | 19.9 | 27.4 | 9.8 | 10.8 | 9.6 | 13.3 | 19.2 | 11.7 | 9.9 | 6.5 | 13.9 | 16.0 | 13.1 | 15.0 | 23.5 |
| 9.2 | 7.7 | 16.8 | 20.4 | 6.5 | 8.0 | 6.3 | 0.0 | 23.1 | 13.7 | 5.1 | 11.2 | 20.9 | 16.6 | 9.0 | 11.7 | 23.8 |
| 19.6 | 19.9 | 20.7 | 17.0 | 16.0 | 17.7 | 15.4 | 20.0 | 34.6 | 25.5 | 21.6 | 25.2 | 28.5 | 18.2 | 19.6 | 13.3 | 18.4 |
| 18.7 | 19.4 | 14.5 | 13.4 | 24.8 | 20.5 | 21.2 | 20.0 | 13.5 | 19.1 | 22.0 | 19.6 | 16.6 | 19.4 | 21.8 | 16.7 | 13.3 |
| 16.2 | 16.6 | 17.8 | 11.8 | 14.7 | 14.9 | 15.4 | 33.3 | 5.8 | 15.5 | 17.8 | 25.2 | 12.0 | 13.2 | 17.3 | 25.0 | 9.5 |
| 17.1 | 18.8 | 6.1 | 4.8 | 23.1 | 25.2 | 28.8 | 13.3 | 1.9 | 10.7 | 18.9 | 7.5 | 4.9 | 11.6 | 15.5 | 5.0 | 6.8 |
| 5.4 | 5.5 | 4.3 | 5.2 | 5.2 | 3.0 | 3.3 | 0.0 | 1.9 | 3.9 | 4.6 | 4.7 | 3.2 | 5.0 | 3.7 | 13.3 | 4.8 |
| 33.6 | 33.9 | 33.8 | 31.6 | 35.1 | 35.0 | 34.5 | 35.5 | 37.0 | 34.9 | 34.5 | 35.2 | 35.0 | 33.6 | 34.7 | 35.2 | 33.0 |
| 10.3 | 10.6 | 9.9 | 8.2 | 11.3 | 10.2 | 10.0 | 11.8 | 12.3 | 10.4 | 10.3 | 10.5 | 10.5 | 10.0 | 10.2 | 13.0 | 9.8 |
| 7.4 | 7.5 | 7.3 | 6.7 | 8.2 | 7.3 | 7.3 | 8.3 | 6.9 | 7.2 | 7.6 | 7.0 | 6.9 | 7.5 | 7.7 | 9.1 | 7.0 |
| 18.0 | 17.3 | 19.3 | 23.6 | 12.9 | 10.5 | 10.7 | 26.7 | 4.1 | 18.6 | 17.2 | 26.0 | 18.3 | 14.0 | 10.1 | 16.7 | 21.1 |
| 21.0 | 19.3 | 30.7 | 33.3 | 12.5 | 11.4 | 10.2 | 20.0 | 18.4 | 19.9 | 13.3 | 17.0 | 25.5 | 25.2 | 20.9 | 29.2 | 29.7 |
| 17.7 | 17.3 | 20.9 | 20.5 | 31.9 | 30.2 | 32.1 | 20.0 | 18.4 | 22.9 | 24.5 | 22.0 | 21.8 | 22.7 | 24.6 | 4.2 | 22.7 |
| 37.2 | 41.0 | 23.4 | 8.0 | 36.6 | 39.1 | 44.1 | 20.0 | 6.1 | 21.7 | 41.0 | 28.0 | 5.9 | 27.8 | 39.2 | 45.8 | 4.9 |
| 1.4 | 0.1 | 3.4 | 13.1 | 0.0 | 6.7 | 0.8 | 6.7 | 53.1 | 14.3 | 0.0 | 6.0 | 26.6 | 7.0 | 0.3 | 4.2 | 21.1 |
| 4.4 | 4.8 | 2.2 | 1.4 | 5.7 | 1.6 | 1.6 | 6.7 | 0.0 | 2.3 | 3.3 | 1.0 | 1.8 | 2.9 | 4.8 | 0.0 | 0.0 |
| 0.3 | 0.3 | 0.1 | 0.1 | 0.4 | 0.4 | 0.5 | 0.0 | 0.0 | 0.4 | 0.7 | 0.0 | 0.2 | 0.5 | 0.3 | 0.0 | 0.5 |
| 24.2 | 23.1 | 29.6 | 32.9 | 18.9 | 27.4 | 27.8 | 20.0 | 26.9 | 27.6 | 27.8 | 23.4 | 28.4 | 6.5 | 16.3 | 10.0 | 21.8 |
| 71.3 | 72.7 | 66.9 | 61.5 | 72.0 | 69.0 | 69.4 | 66.7 | 67.3 | 67.4 | 67.2 | 72.0 | 67.4 | 16.1 | 47.4 | 30.0 | 42.2 |
| 41.2 | 42.7 | 35.5 | 31.0 | 44.0 | 42.2 | 41.7 | 46.7 | 46.2 | 40.2 | 40.3 | 45.8 | 39.4 | 8.5 | 25.9 | 15.0 | 22.4 |
| 15.7 | 14.9 | 22.6 | 21.4 | 13.7 | 11.0 | 10.9 | 20.0 | 9.6 | 13.4 | 12.8 | 16.8 | 13.3 | 4.1 | 11.1 | 6.7 | 11.2 |
| 5.0 | 5.3 | 1.4 | 3.4 | 7.5 | 5.6 | 5.3 | 0.0 | 9.6 | 5.3 | 5.1 | 0.9 | 6.3 | 1.2 | 3.2 | 1.7 | 4.4 |
| 4.2 | 4.6 | 2.0 | 1.5 | 2.6 | 3.7 | 4.3 | 0.0 | 0.0 | 3.5 | 4.4 | 3.7 | 2.7 | 0.4 | 1.5 | 1.7 | 0.7 |
| 5.2 | 5.3 | 5.4 | 4.2 | 4.2 | 6.5 | 7.3 | 0.0 | 1.9 | 5.2 | 4.6 | 4.7 | 5.7 | 1.8 | 5.8 | 5.0 | 3.4 |
| 4.6 | 4.2 | 3.5 | 5.6 | 9.1 | 3.7 | 2.8 | 13.3 | 5.8 | 4.9 | 5.1 | 4.7 | 4.2 | 77.4 | 36.2 | 60.0 | 36.1 |
| 18.6 | 18.1 | 19.1 | 23.6 | 13.7 | 21.3 | 21.2 | 13.3 | 25.0 | 20.4 | 22.7 | 15.0 | 19.6 | 4.5 | 12.1 | 3.3 | 15.6 |
| 5.5 | 5.0 | 10.5 | 9.3 | 5.2 | 6.0 | 6.6 | 6.7 | 1.9 | 7.3 | 5.1 | 8.4 | 8.8 | 2.0 | 4.3 | 6.7 | 6.1 |
| 51.4 | 52.7 | 42.8 | 44.1 | 51.5 | 47.8 | 46.5 | 53.3 | 57.7 | 48.6 | 47.4 | 48.6 | 50.0 | 10.2 | 31.5 | 10.0 | 26.2 |
| 19.8 | 20.0 | 24.1 | 17.4 | 20.5 | 21.1 | 23.0 | 13.3 | 9.6 | 18.8 | 19.8 | 23.4 | 17.4 | 5.9 | 16.0 | 20.0 | 16.0 |
| 94.4 | 98.3 | 87.7 | 56.1 | 99.4 | 89.6 | 98.9 | 100.0 | 30.0 | 64.3 | 94.4 | 84.6 | 38.9 | 79.7 | 95.1 | 83.3 | 41.6 |
| 5.4 | 1.6 | 12.3 | 43.2 | 0.6 | 10.4 | 1.1 | 0.0 | 70.0 | 35.5 | 5.1 | 15.4 | 61.1 | 18.1 | 3.2 | 16.7 | 55.8 |
| 0.2 | 0.1 | 0.0 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.5 | 0.0 | 0.0 | 2.2 | 1.6 | 0.0 | 2.6 |

NOTE: Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates.
${ }^{\text {a }}$ Includes 74 individuals who did not report their gender and 1,883 individuals who did not report their citizenship at time of doctorate.
${ }^{\mathrm{b}}$ Includes Alaskan Native.
${ }^{9}$ Includes Pacific Islander.
${ }^{d}$ Includes mathematics and computer sciences.
${ }^{e}$ Includes 5 persons for whom field was unknown
${ }^{\text {' I }}$ In this table, a recipient counts once in each source category from which he or she received support.
Since students indicate multiple sources of support, the vertical percentages can sum to more than 100 percent.
(Data on the "primary" source of support for doctorate recipients are presented in the Summary Report.)
${ }^{9}$ Includes 2 -year, 4 -year, foreign colleges/universities, medical schools, and elementary/secondary schools.
${ }^{n}$ Includes only recipients with definite employment plans.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

APPENDIX TABLE A-5. Doctorate recipients' financial resources in support of doctoral programs, by broad field and sex, 2000

| Financial Resource | Total |  |  | Physical Sciences ${ }^{\text {a }}$ |  | Engineering |  | Life Sciences |  | Social Sciences |  | Humanities |  | Education |  | Prof./Other Fields |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Unduplicated |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Loans | N | 7,135 | 6,619 | 972 | 346 | 739 | 126 | 1,252 | 1,082 | 1,559 | 2,007 | 1,291 | 1,311 | 845 | 1,398 | 477 | 349 |
| (from any | $V^{\text {c }}$ | 33.6\% | 39.9\% | 23.0\% | 25.5\% | 18.1\% | 16.5\% | 29.8\% | 29.0\% | 53.2\% | 57.8\% | 50.3\% | 49.9\% | 41.7\% | 37.3\% | 40.6\% | 40.3\% |
| source) | $\mathrm{H}^{\text {c }}$ | 100.0\% | 100.0\% | 13.6\% | 5.2\% | 10.4\% | 1.9\% | 17.5\% | 16.3\% | 21.9\% | 30.3\% | 18.1\% | 19.8\% | 11.8\% | 21.1\% | 6.7\% | 5.3\% |
| Foreign | N | 2,284 | 958 | 392 | 86 | 597 | 65 | 406 | 225 | 341 | 171 | 270 | 242 | 118 | 109 | 160 | 60 |
| (non-U.S.) | V | 10.8\% | 5.8\% | 9.3\% | 6.3\% | 14.6\% | 8.5\% | 9.7\% | 6.0\% | 11.6\% | 4.9\% | 10.5\% | 9.2\% | 5.8\% | 2.9\% | 13.6\% | 6.9\% |
| Support | H | 100.0\% | 100.0\% | 17.2\% | 9.0\% | 26.1\% | 6.8\% | 17.8\% | 23.5\% | 14.9\% | 17.8\% | 11.8\% | 25.3\% | 5.2\% | 11.4\% | 7.0\% | 6.3\% |
| Fellowship, Scholarship | N | 11,461 | 9,160 | 2,176 | 784 | 1,846 | 459 | 2,505 | 2,292 | 1,853 | 2,073 | 1,852 | 1,854 | 613 | 1,221 | 616 | 477 |
|  | V | 54.0\% | 55.3\% | 51.5\% | 57.9\% | 45.2\% | 60.2\% | 59.5\% | 61.3\% | 63.3\% | 59.7\% | 72.1\% | 70.5\% | 30.2\% | 32.6\% | 52.5\% | 55.1\% |
|  | H | 100.0\% | 100.0\% | 19.0\% | 8.6\% | 16.1\% | 5.0\% | 21.9\% | 25.0\% | 16.2\% | 22.6\% | 16.2\% | 20.2\% | 5.3\% | 13.3\% | 5.4\% | 5.2\% |
| Dissertation Grant | N | 2,705 | 3,090 | 288 | 109 | 172 | 66 | 456 | 547 | 698 | 920 | 758 | 923 | 174 | 357 | 159 | 168 |
|  | V | 12.7\% | 18.6\% | 6.8\% | 8.0\% | 4.2\% | 8.7\% | 10.8\% | 14.6\% | 23.8\% | 26.5\% | 29.5\% | 35.1\% | 8.6\% | 9.5\% | 13.5\% | 19.4\% |
|  | H | 100.0\% | 100.0\% | 10.6\% | 3.5\% | 6.4\% | 2.1\% | 16.9\% | 17.7\% | 25.8\% | 29.8\% | 28.0\% | 29.9\% | 6.4\% | 11.6\% | 5.9\% | 5.4\% |
| Teaching Assistant | N | 12,607 | 9,131 | 3,314 | 1,082 | 2,002 | 399 | 1,843 | 1,649 | 2,146 | 2,346 | 2,058 | 2,136 | 500 | 992 | 744 | 527 |
|  | V | 59.4\% | 55.1\% | 78.4\% | 79.9\% | 49.0\% | 52.3\% | 43.8\% | 44.1\% | 73.3\% | 67.6\% | 80.1\% | 81.3\% | 24.7\% | 26.5\% | 63.4\% | 60.9\% |
|  | H | 100.0\% | 100.0\% | 26.3\% | 11.8\% | 15.9\% | 4.4\% | 14.6\% | 18.1\% | 17.0\% | 25.7\% | 16.3\% | 23.4\% | 4.0\% | 10.9\% | 5.9\% | 5.8\% |
| Research Assistant | N | 12,691 | 7,965 | 3,300 | 1,051 | 3,313 | 622 | 2,707 | 2,195 | 1,730 | 2,009 | 660 | 815 | 413 | 861 | 568 | 412 |
|  | V | 59.8\% | 48.1\% | 78.1\% | 77.6\% | 81.1\% | 81.5\% | 64.3\% | 58.8\% | 59.1\% | 57.9\% | 25.7\% | 31.0\% | 20.4\% | 23.0\% | 48.4\% | 47.6\% |
|  | H | 100.0\% | 100.0\% | 26.0\% | 13.2\% | 26.1\% | 7.8\% | 21.3\% | 27.6\% | 13.6\% | 25.2\% | 5.2\% | 10.2\% | 3.3\% | 10.8\% | 4.5\% | 5.2\% |
| Traineeship | N | 921 | 1,174 | 90 | 57 | 93 | 23 | 444 | 615 | 221 | 392 | 29 | 24 | 25 | 53 | 19 | 10 |
|  | V | 4.3\% | 7.1\% | 2.1\% | 4.2\% | 2.3\% | 3.0\% | 10.6\% | 16.5\% | 7.5\% | 11.3\% | 1.1\% | 0.9\% | 1.2\% | 1.4\% | 1.6\% | 1.2\% |
|  | H | 100.0\% | 100.0\% | 9.8\% | 4.9\% | 10.1\% | 2.0\% | 48.2\% | 52.4\% | 24.0\% | 33.4\% | 3.1\% | 2.0\% | 2.7\% | 4.5\% | 2.1\% | 0.9\% |
| Internship or Residency | N | 1,496 | 1,700 | 262 | 80 | 363 | 69 | 97 | 82 | 551 | 1,145 | 71 | 77 | 109 | 207 | 43 | 40 |
|  | V | 7.1\% | 10.3\% | 6.2\% | 5.9\% | 8.9\% | 9.0\% | 2.3\% | 2.2\% | 18.8\% | 33.0\% | 2.8\% | 2.9\% | 5.4\% | 5.5\% | 3.7\% | 4.6\% |
|  | H | 100.0\% | 100.0\% | 17.5\% | 4.7\% | 24.3\% | 4.1\% | 6.5\% | 4.8\% | 36.8\% | 67.4\% | 4.7\% | 4.5\% | 7.3\% | 12.2\% | 2.9\% | 2.4\% |
| Personal Savings | N | 10,942 | 9,459 | 1,668 | 561 | 1,757 | 323 | 1,902 | 1,856 | 1,818 | 2,062 | 1,577 | 1,520 | 1,452 | 2,572 | 768 | 565 |
|  | V | 51.6\% | 57.1\% | 39.5\% | 41.4\% | 43.0\% | 42.3\% | 45.2\% | 49.7\% | 62.1\% | 59.4\% | 61.4\% | 57.8\% | 71.6\% | 68.6\% | 65.4\% | 65.2\% |
|  | H | 100.0\% | 100.0\% | 15.2\% | 5.9\% | 16.1\% | 3.4\% | 17.4\% | 19.6\% | 16.6\% | 21.8\% | 14.4\% | 16.1\% | 13.3\% | 27.2\% | 7.0\% | 6.0\% |
| Other Personal Earnings During Grad School | N | 8,654 | 8,818 | 1,081 | 337 | 1,016 | 202 | 1,181 | 1,314 | 1,700 | 2,135 | 1,726 | 1,796 | 1,317 | 2,545 | 633 | 489 |
|  | V | 40.8\% | 53.2\% | 25.6\% | 24.9\% | 24.9\% | 26.5\% | 28.1\% | 35.2\% | 58.0\% | 61.5\% | 67.2\% | 68.3\% | 65.0\% | 67.9\% | 53.9\% | 56.5\% |
|  | H | 100.0\% | 100.0\% | 12.5\% | 3.8\% | 11.7\% | 2.3\% | 13.6\% | 14.9\% | 19.6\% | 24.2\% | 19.9\% | 20.4\% | 15.2\% | 28.9\% | 7.3\% | 5.5\% |
| Family Earnings or Savings ${ }^{\text {d }}$ | N | 8,472 | 8,591 | 1,263 | 509 | 1,259 | 293 | 1,632 | 1,754 | 1,426 | 2,020 | 1,433 | 1,516 | 888 | 2,020 | 571 | 479 |
|  | V | 39.9\% | 51.8\% | 29.9\% | 37.6\% | 30.8\% | 38.4\% | 38.8\% | 46.9\% | 48.7\% | 58.2\% | 55.8\% | 57.7\% | 43.8\% | 53.9\% | 48.6\% | 55.3\% |
|  | H | 100.0\% | 100.0\% | 14.9\% | 5.9\% | 14.9\% | 3.4\% | 19.3\% | 20.4\% | 16.8\% | 23.5\% | 16.9\% | 17.6\% | 10.5\% | 23.5\% | 6.7\% | 5.6\% |
| Employer Reimburse./ Assistance | N | 2,426 | 2,174 | 318 | 89 | 449 | 54 | 311 | 420 | 289 | 312 | 194 | 176 | 651 | 980 | 214 | 143 |
|  | V | 11.4\% | 13.1\% | 7.5\% | 6.6\% | 11.0\% | 7.1\% | 7.4\% | 11.2\% | 9.9\% | 9.0\% | 7.6\% | 6.7\% | 32.1\% | 26.1\% | 18.2\% | 16.5\% |
|  | H | 100.0\% | 100.0\% | 13.1\% | 4.1\% | 18.5\% | 2.5\% | 12.8\% | 19.3\% | 11.9\% | 14.4\% | 8.0\% | 8.1\% | 26.8\% | 45.1\% | 8.8\% | 6.6\% |
| Other | N | 216 | 264 | 23 | 12 | 22 | 3 | 38 | 61 | 40 | 55 | 33 | 37 | 37 | 90 | 23 | 6 |
|  | V | 1.0\% | 1.6\% | 0.5\% | 0.9\% | 0.5\% | 0.4\% | 0.9\% | 1.6\% | 1.4\% | 1.6\% | 1.3\% | 1.4\% | 1.8\% | 2.4\% | 2.0\% | 0.7\% |
|  | H | 100.0\% | 100.0\% | 10.6\% | 4.5\% | 10.2\% | 1.1\% | 17.6\% | 23.1\% | 18.5\% | 20.8\% | 15.3\% | 14.0\% | 17.1\% | 34.1\% | 10.6\% | 2.3\% |

NOTE: In this table, a recipient counts once in each source category from which he or she received support. Since students indicate multiple sources of support, the vertical percentages can sum to more than 100 percent. (Data on the "primary" source of support for doctorate recipients are presented in the body of the Summary Report.) Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates. The table excludes 74 individuals for whom gender was not reported.
${ }^{\text {a }}$ Includes mathematics and computer sciences.
${ }^{\text {b }}$ The 4,153 Ph.D.s who did not report sources of support are omitted from this total. Percentages are based only on known responses.
${ }^{\circ} \mathrm{V}$ denotes vertical percentage; H denotes horizontal percentage.
${ }^{\mathrm{d}}$ This category includes spouses and significant others.

| State | Total ${ }^{\text {a }}$ |  | Physical Sciences |  | Engineering |  | Life Sciences |  | Social Sciences |  | Humanities |  | Education |  | Prof./Other Fields ${ }^{\text {d }}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Men | Women | Men | Women | Men | Women | Men | Women | Men | Women | Men | Women | Men | Women | Men | Women |
| U.S. Total ${ }^{\text {c }}$ | 23,173 | 18,121 | 4,596 | 1,466 | 4,463 | 839 | 4,524 | 3,997 | 3,227 | 3,879 | 2,799 | 2,830 | 2,250 | 4,167 | 1,314 | 943 |
| Alabama | 294 | 222 | 52 | 12 | 55 | 11 | 79 | 67 | 26 | 37 | 16 | 12 | 45 | 69 | 21 | 14 |
| Alaska | 15 | 5 | 7 | 1 | 3 | 0 | 3 | 3 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| Arizona | 438 | 300 | 94 | 32 | 81 | 13 | 72 | 57 | 54 | 49 | 50 | 50 | 53 | 80 | 34 | 19 |
| Arkansas | 75 | 54 | 10 | 6 | 7 | 0 | 31 | 16 | 3 | 7 | 9 | 3 | 12 | 18 | 3 | 4 |
| California | 2,659 | 2,040 | 590 | 156 | 603 | 122 | 448 | 411 | 457 | 574 | 295 | 352 | 174 | 344 | 92 | 81 |
| Coloradc | 430 | 313 | 116 | 42 | 96 | 23 | 71 | 73 | 45 | 58 | 39 | 31 | 38 | 67 | 25 | 19 |
| Connecticut | 330 | 287 | 58 | 25 | 40 | 9 | 79 | 82 | 63 | 60 | 68 | 71 | 11 | 35 | 11 | 5 |
| Delaware | 113 | 71 | 28 | 5 | 34 | 2 | 9 | 4 | 15 | 16 | 15 | 15 | 11 | 28 | 1 | 1 |
| Dist. of Columbia | 265 | 270 | 31 | 8 | 36 | 6 | 31 | 57 | 60 | 96 | 61 | 45 | 20 | 42 | 26 | 16 |
| Florida | 936 | 949 | 139 | 48 | 145 | 22 | 122 | 92 | 105 | 171 | 60 | 67 | 265 | 483 | 100 | 66 |
| Georgia | 496 | 436 | 79 | 35 | 134 | 27 | 87 | 91 | 64 | 82 | 42 | 60 | 57 | 116 | 33 | 25 |
| Hawaii | 84 | 68 | 16 | 4 | 6 | 2 | 13 | 20 | 21 | 16 | 24 | 17 | 3 | 8 | 1 | 1 |
| Idaho | 64 | 34 | 16 | 1 | 4 | 0 | 24 | 6 | 5 | 4 | 0 | 2 | 15 | 21 | 0 | 0 |
| Illinois | 1,246 | 935 | 249 | 57 | 240 | 59 | 210 | 176 | 208 | 202 | 158 | 172 | 119 | 208 | 62 | 61 |
| Indiana | 706 | 463 | 155 | 35 | 132 | 17 | 119 | 96 | 85 | 89 | 118 | 107 | 64 | 99 | 33 | 20 |
| lowa | 367 | 199 | 60 | 22 | 68 | 6 | 114 | 49 | 33 | 28 | 48 | 38 | 30 | 46 | 14 | 10 |
| Kansas | 218 | 197 | 48 | 18 | 25 | 3 | 40 | 45 | 39 | 43 | 31 | 31 | 31 | 49 | 4 | 8 |
| Kentucky | 186 | 166 | 24 | 9 | 29 | 4 | 49 | 45 | 25 | 40 | 23 | 16 | 19 | 46 | 17 | 6 |
| Louisiana | 350 | 259 | 64 | 21 | 47 | 13 | 85 | 62 | 48 | 49 | 45 | 38 | 29 | 62 | 32 | 14 |
| Maine | 33 | 16 | 15 | 2 | 5 | 1 | 6 | 7 | 3 | 2 | 1 | 0 | 3 | 4 | 0 | 0 |
| Maryland | 515 | 438 | 101 | 47 | 118 | 21 | 139 | 168 | 68 | 79 | 54 | 72 | 20 | 36 | 15 | 15 |
| Massachusetts | 1,223 | 868 | 277 | 89 | 254 | 59 | 214 | 230 | 180 | 187 | 151 | 135 | 65 | 118 | 82 | 50 |
| Michigan | 869 | 611 | 163 | 52 | 224 | 40 | 165 | 132 | 116 | 148 | 93 | 92 | 64 | 102 | 44 | 45 |
| Minnesota | 451 | 376 | 74 | 21 | 77 | 14 | 104 | 91 | 53 | 72 | 49 | 54 | 54 | 92 | 40 | 32 |
| Mississippi | 189 | 162 | 26 | 15 | 15 | 4 | 46 | 21 | 16 | 27 | 21 | 14 | 38 | 73 | 27 | 8 |
| Missouri | 427 | 294 | 67 | 16 | 75 | 10 | 98 | 58 | 60 | 76 | 64 | 43 | 49 | 77 | 14 | 14 |
| Montana | 37 | 28 | 8 | 2 | 2 | 0 | 14 | 10 | 3 | 3 | 0 | 0 | 10 | 13 | 0 | 0 |
| Nebraska | 156 | 141 | 24 | 6 | 7 | 1 | 52 | 37 | 29 | 25 | 15 | 21 | 19 | 36 | 10 | 15 |
| Nevada | 68 | 47 | 18 | 6 | 5 | 3 | 18 | 7 | 13 | 11 | 3 | 7 | 8 | 13 | 3 | 0 |
| New Hampshire | 41 | 46 | 17 | 14 | 2 | 2 | 13 | 17 | 3 | 5 | 3 | 3 | 3 | 5 | 0 | 0 |
| New Jersey | 513 | 370 | 128 | 42 | 104 | 29 | 84 | 81 | 63 | 73 | 81 | 76 | 23 | 42 | 30 | 27 |
| New Mexico | 151 | 119 | 30 | 9 | 34 | 4 | 25 | 13 | 16 | 20 | 16 | 23 | 20 | 43 | 10 | 7 |
| New York | 1,910 | 1,612 | 421 | 110 | 279 | 43 | 349 | 305 | 332 | 424 | 330 | 363 | 117 | 270 | 82 | 97 |
| North Caroline | 583 | 525 | 106 | 52 | 102 | 26 | 144 | 173 | 89 | 84 | 79 | 76 | 42 | 98 | 21 | 16 |
| North Dakota | 35 | 23 | 12 | 1 | 2 | 0 | 14 | 0 | 3 | 9 | 1 | 3 | 3 | 10 | 0 | 0 |
| Ohio | 1,007 | 786 | 181 | 51 | 225 | 38 | 193 | 184 | 115 | 152 | 115 | 111 | 119 | 207 | 59 | 43 |
| Oklahome | 209 | 172 | 44 | 18 | 28 | 5 | 43 | 25 | 41 | 36 | 20 | 18 | 23 | 62 | 10 | 8 |
| Oregon | 220 | 161 | 58 | 21 | 24 | 5 | 67 | 60 | 20 | 21 | 23 | 16 | 18 | 31 | 10 | 7 |
| Pennsylvaniz | 1,137 | 962 | 192 | 78 | 255 | 61 | 198 | 202 | 152 | 194 | 129 | 163 | 122 | 214 | 89 | 50 |
| Puerto Rico | 37 | 92 | 8 | 3 | 0 | 0 | 2 | 10 | 13 | 47 | 2 | 1 | 12 | 31 | 0 | 0 |
| Rhode Island | 145 | 97 | 50 | 20 | 21 | 2 | 15 | 15 | 26 | 19 | 30 | 36 | 0 | 3 | 3 | 2 |
| South Caroline | 218 | 183 | 31 | 14 | 37 | 7 | 60 | 45 | 21 | 31 | 26 | 19 | 26 | 56 | 17 | 11 |
| South Dakota | 44 | 35 | 1 | 1 | 3 | 1 | 8 | 4 | 7 | 7 | 2 | 0 | 23 | 22 | 0 | 0 |
| Tennessee | 340 | 338 | 62 | 16 | 55 | 8 | 67 | 76 | 40 | 73 | 26 | 34 | 58 | 122 | 32 | 9 |
| Texas | 1,487 | 1,052 | 269 | 93 | 343 | 52 | 287 | 256 | 167 | 179 | 167 | 145 | 130 | 276 | 124 | 51 |
| Utah | 234 | 111 | 49 | 10 | 52 | 7 | 58 | 32 | 34 | 38 | 11 | 6 | 21 | 12 | 9 | 6 |
| Vermont | 33 | 32 | 7 | 1 | 3 | 0 | 9 | 7 | 3 | 9 | 5 | 3 | 6 | 12 | 0 | 0 |
| Virginia | 589 | 449 | 121 | 43 | 138 | 25 | 96 | 82 | 75 | 102 | 46 | 39 | 81 | 130 | 32 | 28 |
| Washington | 355 | 277 | 76 | 32 | 67 | 14 | 81 | 87 | 40 | 31 | 53 | 61 | 23 | 42 | 15 | 10 |
| West Virginia | 81 | 53 | 15 | 5 | 17 | 2 | 21 | 5 | 12 | 18 | 3 | 2 | 13 | 21 | 0 | 0 |
| Wisconsin | 521 | 348 | 99 | 30 | 102 | 15 | 133 | 100 | 48 | 54 | 78 | 66 | 34 | 61 | 27 | 22 |
| Wyoming | 43 | 29 | 10 | 9 | 3 | 1 | 15 | 5 | 9 | 2 | 0 | 0 | 6 | 12 | 0 | 0 |

NOTE: Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates.
${ }^{\text {a }}$ Excludes 74 individuals for whom gender was not reported.
${ }^{\mathrm{b}}$ Includes mathematics and computer sciences.
${ }^{\text {c }}$ Includes the 50 states, District of Columbia, and Puerto Rico.
${ }^{\text {d }}$ Includes 4 persons for whom field was unknown.

| State/Institution | $\begin{aligned} & 2000 \\ & \text { Total } \end{aligned}$ |  |  |  |  | Engineering | $\begin{aligned} & \text { O } \\ & 0 \\ & \text { O } \\ & \text { OU } \\ & \text { O } \\ & \text { O } \end{aligned}$ |  |  |  |  | $\begin{aligned} & \text { T } \\ & 0 \\ & 0 \\ & \underline{3} \end{aligned}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TOTAL ALL INSTITUTIONS | 41,368 | 1,392 | 1,990 | 786 | 1,909 | 5,330 | 5,855 | 1,589 | 1,085 | 3,623 | 3,492 | 1,060 | 460 | 610 | 3,504 | 6,420 | 2,263 |
| ALABAMA | 518 | 21 | 19 | 3 | 21 | 67 | 80 | 42 | 24 | 45 | 18 | 11 | 4 | 7 | 6 | 115 | 35 |
| Auburn University-Main Campus | 186 | 3 | 11 | 0 | 10 | 26 | 15 | 9 | 24 | 29 | 8 | 9 | 2 | 3 | 1 | 32 | 4 |
| United States Sports Academy | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 8 |
| Univ of Alabama-Birmingham | 125 | 6 | 1 | 0 | 4 | 8 | 50 | 29 | 0 | 8 | 2 | 0 | 0 | 0 | 0 | 17 | 0 |
| Univ of Alabama-Huntsville | 29 | 9 | 0 | 1 | 3 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Univ of Alabama | 147 | 3 | 7 | 1 | 4 | 17 | 7 | 3 | 0 | 8 | 8 | 2 | 2 | 4 | 5 | 53 | 23 |
| Univ of South Alabama | 18 | 0 | 0 | 1 | 0 | 0 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 |
| ALASKA | 20 | 2 | 0 | 6 | 0 | 3 | 4 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 |
| Univ of Alaska-Fairbanks | 20 | 2 | 0 | 6 | 0 | 3 | 4 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 |
| ARIZONA | 738 | 40 | 26 | 33 | 27 | 94 | 82 | 26 | 21 | 40 | 63 | 17 | 16 | 10 | 57 | 133 | 53 |
| Arizona State Univ-Main Campus | 283 | 10 | 9 | 3 | 9 | 55 | 22 | 5 | 0 | 24 | 25 | 7 | 11 | 5 | 16 | 47 | 35 |
| Northern Arizona Univ | 52 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 3 | 0 | 3 | 4 | 0 | 0 | 2 | 35 | 0 |
| Univ of Arizona | 403 | 30 | 17 | 30 | 18 | 39 | 55 | 21 | 18 | 16 | 35 | 6 | 5 | 5 | 39 | 51 | 18 |
| ARKANSAS | 129 | 3 | 8 | 3 | 2 | 7 | 34 | 5 | 8 | 9 | 1 | 6 | 2 | 3 | 1 | 30 | 7 |
| U of Arkansas-Fayetteville | 86 | 3 | 8 | 0 | 2 | 7 | 6 | 4 | 8 | 9 | 1 | 6 | 2 | 3 | 1 | 19 | 7 |
| U of Arkansas-Little Rock | 14 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 |
| U of Arkansas for Med Sci | 29 | 0 | 0 | 0 | 0 | 0 | 28 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CALIFORNIA | 4,706 | 170 | 242 | 87 | 249 | 728 | 683 | 105 | 71 | 575 | 457 | 138 | 54 | 56 | 399 | 518 | 174 |
| Azusa Pacific University | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| Biola University | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 2 | 6 | 3 |
| Calif Sch Prof Psych-Alameda | 55 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 54 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Calif Sch Prof Psych-Fresno | 37 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 37 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Calif Sch Prof Psych-LA | 41 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Calif Sch Prof Psych-San Diego | 62 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 62 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| California Inst of Integral Studies | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| California Inst of Technology | 127 | 17 | 24 | 2 | 7 | 46 | 27 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| Claremont Graduate Univ | 95 | 0 | 0 | 0 | 6 | 0 | 1 | 0 | 0 | 14 | 21 | 5 | 3 | 4 | 13 | 22 | 6 |
| The Fielding Institute | 121 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 68 | 3 | 0 | 0 | 0 | 0 | 32 | 17 |
| Fuller Theological Seminary in California | 56 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 1 | 0 | 0 | 0 | 11 | 0 | 14 |
| Graduate Theological Union | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 17 | 0 | 3 |
| La Sierra Univ | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| Loma Linda Univ | 39 | 0 | 0 | 0 | 0 | 0 | 19 | 10 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Naval Postgraduate School | 9 | 1 | 0 | 0 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pacific Grad School of Psychology | 36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pepperdine Univ | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 34 | 0 |
| Rand Grad Schl of Policy Studies | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| Scripps Research Institute | 15 | 0 | 8 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| San Diego State Univ | 30 | 0 | 0 | 0 | 0 | 0 | 7 | 2 | 0 | 10 | 4 | 0 | 0 | 0 | 0 | 7 | 0 |
| Claremont School of Theology | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 3 |
| Stanford University | 567 | 28 | 23 | 16 | 35 | 181 | 75 | 3 | 0 | 18 | 69 | 14 | 4 | 7 | 40 | 27 | 27 |
| United States Internatl Univ | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 1 | 2 |
| Univ of California-Berkeley | 751 | 31 | 51 | 13 | 51 | 139 | 83 | 31 | 17 | 26 | 102 | 38 | 10 | 8 | 84 | 38 | 29 |
| Univ of California-Davis | 356 | 10 | 26 | 9 | 14 | 64 | 113 | 4 | 40 | 7 | 21 | 11 | 6 | 2 | 18 | 11 | 0 |
| Univ of California-Irvine | 201 | 5 | 25 | 6 | 16 | 30 | 38 | 4 | 0 | 12 | 24 | 8 | 4 | 10 | 12 | 3 | 4 |
| Univ of California-Los Angeles | 604 | 26 | 21 | 7 | 46 | 75 | 100 | 23 | 1 | 28 | 59 | 29 | 6 | 8 | 69 | 82 | 24 |
| Univ of California-Riverside | 115 | 5 | 5 | 2 | 6 | 0 | 26 | 0 | 12 | 10 | 11 | 5 | 7 | 7 | 8 | 11 | 0 |
| Univ of California-San Diego | 278 | 23 | 18 | 18 | 19 | 44 | 65 | 0 | 0 | 9 | 42 | 7 | 5 | 0 | 21 | 2 | 5 |
| Univ of California-San Francisco | 81 | 0 | 8 | 0 | 0 | 2 | 51 | 17 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| Univ of California-Santa Barbara | 230 | 10 | 11 | 2 | 15 | 58 | 15 | 0 | 0 | 20 | 30 | 11 | 1 | 7 | 27 | 22 | 1 |
| Univ of California-Santa Cruz | 90 | 9 | 4 | 8 | 8 | 4 | 14 | 0 | 1 | 6 | 17 | 3 | 4 | 1 | 10 | 0 | 1 |
| Univ of Laverne | 58 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 58 | 0 |
| Univ of the Pacific | 20 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 0 |
| Univ of San Diego | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 |
| Univ of San Francisco | 76 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 71 | 0 |
| Santa Clara Univ | 3 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Univ of Southern California | 411 | 5 | 16 | 4 | 21 | 79 | 42 | 6 | 0 | 32 | 39 | 7 | 4 | 2 | 64 | 57 | 33 |
| Wright Institute | 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| COLORADO | 744 | 35 | 41 | 37 | 45 | 119 | 91 | 27 | 26 | 51 | 52 | 5 | 2 | 6 | 58 | 105 | 44 |
| Colorado School of Mines | 43 | 3 | 4 | 10 | 0 | 25 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Colorado State Univ | 180 | 4 | 13 | 9 | 10 | 25 | 42 | 6 | 25 | 14 | 9 | 1 | 0 | 0 | 0 | 16 | 6 |
| Colorado Technical Univ | 17 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| Univ of Colorado-Boulder | 267 | 28 | 21 | 16 | 18 | 61 | 16 | 1 | 1 | 8 | 31 | 3 | 1 | 3 | 35 | 13 | 11 |
| Univ of Colorado-Colorado Springs | 5 | 0 | 0 | 0 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Univ of Colorado-Denver | 25 | 0 | 0 | 1 | 5 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 10 | 6 |
| Univ of Colorado-Health Sci Center | 44 | 0 | 0 | 0 | 0 | 0 | 27 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Univ of Denver | 89 | 0 | 2 | 1 | 2 | 3 | 4 | 0 | 0 | 17 | 10 | 1 | 1 | 3 | 11 | 22 | 12 |
| Univ of Northern Colorado | 74 | 0 | 1 | 0 | 1 | 0 | 2 | 2 | 0 | 12 | 0 | 0 | 0 | 0 | 12 | 44 | 0 |
| CONNECTICUT | 618 | 22 | 29 | 9 | 24 | 49 | 130 | 24 | 7 | 51 | 72 | 31 | 3 | 15 | 90 | 46 | 16 |
| Univ of Connecticut | 276 | 8 | 12 | 3 | 12 | 37 | 45 | 14 | 5 | 39 | 20 | 11 | 0 | 3 | 11 | 45 | 11 |
| Univ of New Haven | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Wesleyan Univ | 14 | 1 | 3 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 |
| Yale Univ | 325 | 13 | 14 | 6 | 12 | 12 | 77 | 10 | 2 | 12 | 51 | 20 | 3 | 12 | 78 | 1 | 2 |


| State/Institution | $\begin{aligned} & 2000 \\ & \text { Total } \end{aligned}$ |  |  |  |  | 은 ㅎ 틍 ㅍ | $\begin{aligned} & \text { © } \\ & 0 \\ & \text { O } \\ & \text { © } \\ & \text { O } \\ & \text { O } \\ & \hline 0 \end{aligned}$ |  |  | $\begin{aligned} & \text { त } \\ & \text { ㅇ } \\ & \text { O } \\ & \frac{1}{0} \\ & \text { व } \end{aligned}$ |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DELAWARE | 184 | 4 | 10 | 11 | 8 | 36 | 10 | 1 | 2 | 9 | 22 | 8 | 1 | 7 | 14 | 39 | 2 |
| Univ of Delaware | 165 | 4 | 10 | 11 | 8 | 36 | 10 | 1 | 2 | 9 | 22 | 8 | 1 | 7 | 14 | 20 | 2 |
| Wilmington College | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 0 |
| DISTRICT OF COLUMBIA | 537 | 10 | 15 | 2 | 12 | 42 | 73 | 16 | 0 | 64 | 93 | 26 | 6 | 4 | 70 | 62 | 42 |
| American Univ | 52 | 3 | 3 | 1 | 0 | 0 | 1 | 0 | 0 | 5 | 29 | 3 | 0 | 0 | 0 | 7 | 0 |
| Catholic Univ of America | 83 | 2 | 3 | 0 | 0 | 6 | 1 | 10 | 0 | 10 | 5 | 4 | 2 | 3 | 23 | 2 | 12 |
| Gallaudet Univ | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| George Washington Univ | 196 | 1 | 0 | 0 | 10 | 31 | 30 | 3 | 0 | 21 | 26 | 4 | 2 | 0 | 5 | 46 | 17 |
| Georgetown Univ | 109 | 0 | 2 | 0 | 0 | 0 | 33 | 0 | 0 | 4 | 16 | 12 | 0 | 0 | 39 | 0 | 3 |
| Howard Univ | 91 | 4 | 7 | 1 | 2 | 5 | 8 | 3 | 0 | 20 | 17 | 3 | 2 | 1 | 3 | 5 | 10 |
| FLORIDA | 1,889 | 31 | 50 | 30 | 76 | 168 | 112 | 56 | 46 | 198 | 78 | 18 | 16 | 16 | 77 | 749 | 168 |
| Barry Univ | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 8 | 7 |
| Florida A\&M Univ | 8 | 0 | 0 | 0 | 0 | 1 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida Atlantic Univ-Boca Raton | 42 | 1 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 5 | 1 | 0 | 0 | 0 | 0 | 19 | 5 |
| Florida Inst of Technology-Melbourne | 25 | 1 | 2 | 1 | 5 | 10 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| Florida International Univ | 58 | 0 | 0 | 0 | 1 | 3 | 4 | 0 | 0 | 6 | 9 | 1 | 0 | 0 | 2 | 28 | 4 |
| Florida State Univ | 261 | 7 | 6 | 17 | 11 | 4 | 9 | 5 | 1 | 23 | 24 | 11 | 8 | 9 | 38 | 63 | 25 |
| Nova Southeastern Univ | 590 | 0 | 0 | 1 | 27 | 0 | 1 | 8 | 0 | 77 | 1 | 0 | 0 | 0 | 0 | 396 | 79 |
| Univ of West Florida | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 0 |
| Univ of Central Florida | 66 | 9 | 0 | 0 | 7 | 27 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 19 | 0 |
| Univ of Florida | 394 | 11 | 28 | 2 | 18 | 77 | 50 | 28 | 44 | 27 | 30 | 5 | 3 | 5 | 14 | 31 | 21 |
| Univ of Miami | 144 | 2 | 7 | 7 | 1 | 17 | 26 | 7 | 1 | 37 | 8 | 1 | 1 | 0 | 15 | 13 | 1 |
| Univ of Sarasota | 137 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 112 | 20 |
| Univ of South Florida | 123 | 0 | 7 | 2 | 5 | 18 | 13 | 6 | 0 | 15 | 5 | 0 | 4 | 2 | 8 | 32 | 6 |
| GEORGIA | 936 | 15 | 57 | 10 | 32 | 164 | 125 | 24 | 29 | 88 | 59 | 16 | 16 | 13 | 57 | 173 | 58 |
| Clark Atlanta Univ | 38 | 0 | 3 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 7 | 1 | 0 | 0 | 2 | 16 | 5 |
| Emory University | 157 | 3 | 12 | 0 | 3 | 0 | 53 | 4 | 0 | 10 | 10 | 11 | 8 | 5 | 31 | 4 | 3 |
| Georgia Inst of Technology-Main Campus | 230 | 5 | 17 | 7 | 20 | 159 | 8 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| Georgia Southern Univ | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 0 |
| Georgia State Univ | 125 | 3 | 3 | 0 | 3 | 0 | 6 | 9 | 0 | 21 | 18 | 2 | 2 | 4 | 3 | 32 | 19 |
| Institute of Paper Sci \& Tech | 3 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Medical College of Georgia | 13 | 0 | 0 | 0 | 0 | 0 | 10 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Univ of Georgia | 352 | 4 | 22 | 3 | 6 | 3 | 44 | 8 | 28 | 50 | 24 | 2 | 6 | 4 | 21 | 103 | 24 |
| Valdosta State Univ | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| HAWAll | 152 | 4 | 7 | 6 | 3 | 8 | 19 | 9 | 5 | 9 | 28 | 7 | 0 | 1 | 33 | 11 | 2 |
| Univ of Hawaii at Manoa | 152 | 4 | 7 | 6 | 3 | 8 | 19 | 9 | 5 | 9 | 28 | 7 | 0 | 1 | 33 | 11 | 2 |
| IDAHO | 99 | 3 | 9 | 1 | 4 | 5 | 13 | 1 | 16 | 3 | 6 | 2 | 0 | 0 | 0 | 36 | 0 |
| Idaho State Univ | 20 | 1 | 0 | 0 | 0 | 1 | 5 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 9 | 0 |
| Univ of Idaho | 79 | 2 | 9 | 1 | 4 | 4 | 8 | 0 | 16 | 2 | 4 | 2 | 0 | 0 | 0 | 27 | 0 |
| ILLINOIS | 2,181 | 75 | 80 | 17 | 134 | 299 | 274 | 73 | 39 | 201 | 209 | 66 | 11 | 31 | 222 | 327 | 123 |
| Benedictine Univ | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Chicago Theological Seminary | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Depaul Univ | 31 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 0 | 0 | 6 | 0 | 0 |
| Finch U of Hlth Sci-Chicago Med Sch | 23 | 1 | 0 | 0 | 0 | 0 | 10 | 1 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Illinois Inst of Technology | 78 | 4 | 2 | 0 | 19 | 37 | 6 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Illinois State Univ | 43 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 3 | 0 | 6 | 0 | 2 | 3 | 25 | 0 |
| Inst for Clinical Social Work | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Loyola Univ of Chicago | 163 | 0 | 1 | 0 | 0 | 0 | 20 | 1 | 0 | 25 | 6 | 1 | 2 | 5 | 10 | 86 | 6 |
| Lutheran School of Theol-Chicago | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 6 | 0 | 2 |
| National-Louis Univ | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 |
| Northern Illinois Univ | 104 | 0 | 3 | 1 | 2 | 0 | 5 | 0 | 0 | 10 | 6 | 1 | 2 | 3 | 1 | 69 | 1 |
| Northwestern Univ | 360 | 8 | 23 | 5 | 18 | 91 | 49 | 5 | 0 | 28 | 39 | 9 | 0 | 4 | 48 | 10 | 23 |
| Roosevelt Univ | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 |
| Rush Univ | 22 | 2 | 0 | 0 | 0 | 0 | 11 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Southern III Univ-Carbondale | 119 | 1 | 0 | 1 | 3 | 5 | 12 | 7 | 2 | 17 | 12 | 3 | 0 | 3 | 11 | 20 | 22 |
| Southern III Univ-Edwardsville | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| Univ of Chicago | 391 | 26 | 18 | 8 | 24 | 0 | 47 | 0 | 0 | 20 | 96 | 32 | 3 | 7 | 79 | 9 | 22 |
| Univ of Illinois-Chicago | 201 | 5 | 10 | 0 | 13 | 25 | 48 | 42 | 0 | 18 | 10 | 7 | 0 | 2 | 7 | 9 | 5 |
| Univ of Illinois-Urbana | 600 | 28 | 23 | 2 | 49 | 141 | 62 | 8 | 37 | 43 | 40 | 6 | 4 | 5 | 50 | 71 | 31 |
| INDIANA | 1,169 | 36 | 85 | 21 | 48 | 149 | 134 | 46 | 35 | 77 | 97 | 32 | 16 | 22 | 155 | 163 | 53 |
| Ball State Univ | 52 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 11 | 0 | 0 | 0 | 2 | 12 | 25 | 0 |
| Indiana State Univ | 53 | 0 | 0 | 2 | 0 | 0 | 3 | 1 | 0 | 7 | 5 | 0 | 0 | 0 | 0 | 35 | 0 |
| Indiana Univ-Bloomington | 440 | 8 | 24 | 11 | 22 | 0 | 52 | 13 | 1 | 21 | 50 | 22 | 9 | 6 | 101 | 73 | 27 |
| Indiana Univ-Purdue Univ-Indianapolis | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Purdue Univ-Main Campus | 470 | 15 | 50 | 6 | 20 | 122 | 63 | 23 | 34 | 23 | 19 | 5 | 6 | 10 | 24 | 29 | 21 |
| Univ of Notre Dame | 146 | 13 | 11 | 2 | 6 | 27 | 15 | 0 | 0 | 15 | 23 | 5 | 1 | 4 | 18 | 1 | 5 |
| IOWA | 566 | 10 | 34 | 10 | 28 | 74 | 92 | 28 | 43 | 29 | 32 | 13 | 6 | 5 | 62 | 76 | 24 |
| Drake Univ | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Iowa State Univ | 238 | 3 | 22 | 7 | 15 | 47 | 36 | 3 | 43 | 12 | 14 | 3 | 0 | 0 | 2 | 27 | 4 |
| Maharishi Univ of Management | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Univ of lowa | 314 | 7 | 12 | 3 | 13 | 27 | 56 | 25 | 0 | 13 | 17 | 10 | 6 | 5 | 60 | 41 | 19 |
| Univ of Northern Iowa | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 |


| State/Institution | $\begin{aligned} & 2000 \\ & \text { Total } \end{aligned}$ |  |  |  |  | Engineering | Biosciences |  |  | $\begin{aligned} & \text { त } \\ & \text { ㅇ } \\ & \text { o } \\ & \frac{1}{0} \\ & \text { í } \end{aligned}$ |  | $\begin{aligned} & \frac{\lambda}{0} \\ & \text { O} \\ & \frac{10}{I} \end{aligned}$ |  |  | sə!!!ueunh ләчłO |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| KANSAS | 416 | 14 | 29 | 7 | 16 | 29 | 41 | 23 | 21 | 54 | 28 | 8 | 10 | 7 | 37 | 80 | 12 |
| Emporia State Univ | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Kansas State Univ | 132 | 7 | 7 | 1 | 10 | 9 | 16 | 3 | 21 | 10 | 11 | 2 | 0 | 0 | 0 | 31 | 4 |
| Univ of Kansas | 257 | 7 | 20 | 6 | 6 | 10 | 24 | 16 | 0 | 38 | 17 | 6 | 10 | 7 | 37 | 45 | 8 |
| Wichita State Univ | 26 | 0 | 2 | 0 | 0 | 10 | 1 | 4 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| KENTUCKY | 352 | 3 | 15 | 2 | 13 | 33 | 63 | 17 | 14 | 31 | 34 | 11 | 4 | 1 | 23 | 65 | 23 |
| Asbury Theological Seminary | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Southern Bapt Theol Seminary | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 6 | 1 | 4 |
| Spalding Univ | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 |
| Univ of Kentucky | 249 | 3 | 10 | 2 | 13 | 21 | 46 | 16 | 14 | 26 | 27 | 9 | 4 | 0 | 14 | 27 | 17 |
| Univ of Louisville | 77 | 0 | 5 | 0 | 0 | 12 | 17 | 1 | 0 | 5 | 7 | 0 | 0 | 1 | 3 | 26 | 0 |
| LOUISIANA | 609 | 13 | 31 | 8 | 33 | 60 | 79 | 36 | 32 | 45 | 52 | 12 | 10 | 6 | 55 | 91 | 46 |
| Grambling State Univ | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 |
| Louisiana State Univ \& A\&M College | 275 | 9 | 16 | 5 | 12 | 28 | 18 | 5 | 32 | 23 | 26 | 6 | 5 | 3 | 28 | 43 | 16 |
| Louisiana State Univ-Health Sci Center | 23 | 0 | 0 | 0 | 0 | 0 | 13 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Louisiana State Univ-Shreveport | 10 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Louisiana Tech Univ | 23 | 0 | 0 | 0 | 1 | 9 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 6 | 5 |
| New Orleans Bapt Theol Seminary | 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 9 | 1 | 12 |
| Univ of Louisiana-Monroe | 12 | 0 | 0 | 0 | 0 | 0 | 2 | 6 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| Southern Univ and A\&M College | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| Tulane Univ of Louisiana | 125 | 4 | 5 | 2 | 9 | 12 | 31 | 15 | 0 | 7 | 13 | 6 | 1 | 2 | 10 | 0 | 8 |
| Univ of New Orleans | 63 | 0 | 10 | 1 | 0 | 7 | 0 | 0 | 0 | 7 | 12 | 0 | 0 | 0 | 0 | 21 | 5 |
| Univ of Louisiana-Lafayette | 33 | 0 | 0 | 0 | 11 | 4 | 5 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 8 | 0 | 0 |
| MAINE | 49 | 5 | 6 | 4 | 2 | 6 | 9 | 0 | 4 | 3 | 2 | 1 | 0 | 0 | 0 | 7 | 0 |
| Univ of Maine | 49 | 5 | 6 | 4 | 2 | 6 | 9 | 0 | 4 | 3 | 2 | 1 | 0 | 0 | 0 | 7 | 0 |
| MARYLAND | 954 | 36 | 36 | 22 | 54 | 139 | 184 | 119 | 4 | 56 | 91 | 27 | 7 | 12 | 81 | 56 | 30 |
| Johns Hopkins Univ | 332 | 7 | 14 | 6 | 18 | 45 | 92 | 78 | 0 | 2 | 34 | 12 | 4 | 2 | 17 | 0 | 1 |
| Loyola College | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Morgan State Univ | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 8 | 0 |
| Peabody Inst of Johns Hopkins Univ | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 |
| Uniformed Svcs. Univ of Hlth Sci | 15 | 0 | 0 | 0 | 0 | 0 | 9 | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Univ of Maryland-Baltimore County | 47 | 2 | 4 | 0 | 5 | 13 | 6 | 0 | 0 | 10 | 5 | 0 | 0 | 0 | 1 | 0 | 1 |
| Univ of Maryland-College Park | 460 | 27 | 15 | 15 | 31 | 81 | 39 | 10 | 4 | 36 | 51 | 14 | 3 | 10 | 54 | 48 | 22 |
| Univ of Maryland-Eastern Shore | 2 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Univ of Maryland-Baltimore | 73 | 0 | 2 | 0 | 0 | 0 | 38 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| MASSACHUSETTS | 2,104 | 119 | 110 | 38 | 101 | 318 | 347 | 84 | 17 | 96 | 272 | 68 | 17 | 21 | 181 | 183 | 132 |
| American Internatl College | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| Boston College | 114 | 1 | 8 | 0 | 0 | 0 | 9 | 9 | 0 | 16 | 12 | 10 | 1 | 2 | 13 | 23 | 10 |
| Boston Univ | 261 | 13 | 6 | 1 | 7 | 20 | 48 | 17 | 0 | 16 | 29 | 4 | 2 | 2 | 41 | 30 | 25 |
| Brandeis Univ | 108 | 5 | 8 | 0 | 5 | 0 | 29 | 1 | 0 | 4 | 23 | 11 | 5 | 4 | 13 | 0 | 0 |
| Clark Univ | 30 | 1 | 3 | 0 | 0 | 0 | 4 | 0 | 0 | 7 | 8 | 2 | 0 | 0 | 1 | 4 | 0 |
| Harvard Univ | 547 | 32 | 25 | 6 | 14 | 8 | 110 | 38 | 0 | 11 | 106 | 30 | 3 | 4 | 76 | 55 | 29 |
| Mass Coll Pharm \& Allied Health Sci | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mass Inst of Technology | 460 | 41 | 16 | 29 | 44 | 198 | 36 | 0 | 0 | 1 | 43 | 4 | 0 | 0 | 13 | 0 | 35 |
| New England Conserv of Music | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| Northeastern Univ | 66 | 4 | 7 | 0 | 6 | 20 | 12 | 1 | 0 | 1 | 9 | 2 | 1 | 1 | 0 | 0 | 2 |
| Simmons College | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Smith College | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| Springfield College | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| Tufts Univ | 98 | 3 | 9 | 0 | 2 | 12 | 45 | 0 | 0 | 4 | 8 | 2 | 3 | 1 | 3 | 0 | 6 |
| Univ of Massachusetts-Amherst | 276 | 10 | 22 | 0 | 14 | 37 | 29 | 10 | 17 | 22 | 28 | 3 | 2 | 7 | 19 | 43 | 13 |
| Univ of Massachusetts-Boston | 31 | 0 | 0 | 2 | 0 | 0 | 2 | 2 | 0 | 12 | 5 | 0 | 0 | 0 | 0 | 8 | 0 |
| Univ of Massachusetts-Lowell | 52 | 8 | 3 | 0 | 6 | 13 | 0 | 6 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 15 | 0 |
| Univ of Massachusetts Med Sch-Worcester | 21 | 0 | 0 | 0 | 0 | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Worcester Polytechnic Inst | 17 | 1 | 1 | 0 | 3 | 10 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MICHIGAN | 1,482 | 47 | 84 | 18 | 66 | 265 | 179 | 70 | 49 | 127 | 137 | 26 | 5 | 23 | 131 | 166 | 89 |
| Andrews Univ | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 1 | 12 | 1 |
| Calvin College | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 |
| Central Michigan Univ | 8 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Eastern Michigan Univ | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 |
| Michigan State Univ | 429 | 13 | 26 | 2 | 15 | 36 | 62 | 9 | 42 | 25 | 41 | 9 | 0 | 4 | 31 | 69 | 45 |
| Michigan Tech Univ | 43 | 3 | 5 | 1 | 0 | 16 | 5 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 7 | 0 | 1 |
| Oakland Univ | 11 | 0 | 0 | 0 | 0 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| Univ of Detroit Mercy | 16 | 0 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Univ of Michigan | 653 | 27 | 30 | 15 | 38 | 179 | 68 | 48 | 3 | 36 | 60 | 15 | 2 | 14 | 71 | 19 | 28 |
| Wayne State Univ | 232 | 3 | 22 | 0 | 8 | 26 | 39 | 13 | 0 | 25 | 28 | 1 | 2 | 2 | 15 | 40 | 8 |
| Western Michigan Univ | 54 | 1 | 0 | 0 | 2 | 1 | 2 | 0 | 0 | 17 | 8 | 0 | 1 | 3 | 2 | 11 | 6 |
| MINNESOTA | 830 | 24 | 37 | 3 | 32 | 92 | 84 | 63 | 48 | 69 | 56 | 20 | 7 | 11 | 66 | 146 | 72 |
| Hamline Univ | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Luther Seminary | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Mayo Graduate School | 19 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Univ of Minnesota-Twin Cities | 684 | 24 | 37 | 3 | 32 | 91 | 65 | 55 | 48 | 37 | 52 | 20 | 7 | 11 | 66 | 99 | 37 |
| Univ of St Thomas | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 0 |
| Walden University | 99 | 0 | 0 | 0 | 0 | 1 | 0 | 8 | 0 | 32 | 4 | 0 | 0 | 0 | 0 | 26 | 28 |


| State/Institution | $\begin{aligned} & 2000 \\ & \text { Total } \end{aligned}$ |  | $\begin{aligned} & \frac{\lambda}{\psi} \\ & \stackrel{n}{E} \\ & \frac{1}{U} \end{aligned}$ |  |  | $\begin{aligned} & \text { 은 } \\ & \text { © } \\ & \text { 등 } \\ & \text { ㅍ } \end{aligned}$ | Biosciences | Health Sciences |  | $\begin{aligned} & \text { 깅 } \\ & \text { 응 } \\ & \frac{1}{0} \\ & \vdots \end{aligned}$ |  | $\begin{aligned} & \frac{\lambda}{0} \\ & \stackrel{0}{W} \\ & \hline \underline{I} \end{aligned}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MISSISSIPPI | 351 | 1 | 22 | 4 | 14 | 19 | 31 | 4 | 32 | 36 | 7 | 9 | 8 | 4 | 14 | 111 | 35 |
| Delta State Univ | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| Jackson State Univ | 16 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 1 |
| Mississippi State Univ | 128 | 0 | 4 | 0 | 8 | 13 | 16 | 0 | 32 | 3 | 3 | 2 | 0 | 0 | 0 | 40 | 7 |
| Reformed Theological Seminary | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 3 |
| Univ of Mississippi-Main Campus | 80 | 1 | 5 | 0 | 1 | 3 | 0 | 1 | 0 | 11 | 4 | 3 | 5 | 3 | 2 | 24 | 17 |
| Univ of Mississippi-Med Ctr | 12 | 0 | 0 | 0 | 0 | 0 | 11 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Univ of Southern Mississippi | 108 | 0 | 13 | 1 | 5 | 3 | 4 | 2 | 0 | 22 | 0 | 4 | 3 | 1 | 10 | 33 | 7 |
| MISSOURI | 722 | 21 | 31 | 10 | 22 | 85 | 121 | 15 | 20 | 86 | 50 | 14 | 4 | 13 | 76 | 126 | 28 |
| Concordia Seminary | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| St. Louis Univ-Main Campus | 117 | 1 | 0 | 3 | 1 | 0 | 13 | 7 | 0 | 25 | 3 | 2 | 1 | 2 | 16 | 38 | 5 |
| Univ of Missouri-Columbia | 258 | 3 | 6 | 1 | 11 | 33 | 29 | 3 | 20 | 29 | 20 | 5 | 2 | 5 | 15 | 61 | 15 |
| Univ of Missouri-Kansas City | 63 | 3 | 3 | 0 | 2 | 1 | 5 | 0 | 0 | 6 | 2 | 2 | 0 | 0 | 18 | 21 | 0 |
| Univ of Missouri-Rolla | 45 | 6 | 7 | 4 | 1 | 25 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Univ of Missouri-St Louis | 37 | 0 | 7 | 0 | 0 | 0 | 5 | 4 | 0 | 11 | 4 | 0 | 0 | 0 | 0 | 6 | 0 |
| Washington Univ | 200 | 8 | 8 | 2 | 7 | 26 | 67 | 1 | 0 | 15 | 21 | 5 | 1 | 6 | 26 | 0 | 7 |
| MONTANA | 65 | 2 | 7 | 0 | 1 | 2 | 17 | 0 | 7 | 4 | 2 | 0 | 0 | 0 | 0 | 23 | 0 |
| Montana State Univ | 32 | 2 | 3 | 0 | 1 | 2 | 7 | 0 | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 12 | 0 |
| Univ of Montana | 33 | 0 | 4 | 0 | 0 | 0 | 10 | 0 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 11 | 0 |
| NEBRASKA | 297 | 3 | 11 | 4 | 12 | 8 | 46 | 9 | 34 | 26 | 28 | 2 | 10 | 7 | 17 | 55 | 25 |
| Creighton Univ | 5 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Univ of Nebraska-Lincoln | 251 | 3 | 10 | 4 | 12 | 8 | 15 | 3 | 34 | 26 | 24 | 2 | 10 | 7 | 17 | 54 | 22 |
| Univ of Nebraska-Med Center | 33 | 0 | 1 | 0 | 0 | 0 | 26 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Univ of Nebraska-Omaha | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 1 | 3 |
| NEVADA | 115 | 4 | 9 | 11 | 0 | 8 | 21 | 4 | 0 | 15 | 9 | 0 | 6 | 0 | 4 | 21 | 3 |
| Univ of Nevada-Las Vegas | 31 | 0 | 0 | 0 | 0 | 4 | 2 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 1 | 15 | 3 |
| Univ of Nevada-Reno | 84 | 4 | 9 | 11 | 0 | 4 | 19 | 4 | 0 | 15 | 3 | 0 | 6 | 0 | 3 | 6 | 0 |
| NEW HAMPSHIRE | 87 | 5 | 9 | 6 | 11 | 4 | 28 | 1 | 1 | 5 | 3 | 2 | 1 | 2 | 1 | 8 | 0 |
| Dartmouth College | 38 | 3 | 5 | 3 | 5 | 3 | 16 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Univ of New Hampshire-Main Campus | 49 | 2 | 4 | 3 | 6 | 1 | 12 | 0 | 1 | 3 | 3 | 2 | 1 | 2 | 1 | 8 | 0 |
| NEW JERSEY | 883 | 44 | 44 | 13 | 69 | 133 | 132 | 16 | 17 | 38 | 98 | 40 | 7 | 20 | 90 | 65 | 57 |
| Drew Univ | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 5 | 1 | 3 | 9 | 1 | 3 |
| Fairleigh Dickinson Univ-All Campuses | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Jersey Inst of Technology | 45 | 2 | 2 | 1 | 12 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Princeton Theol Seminary | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 11 | 0 | 8 |
| Princeton University | 281 | 26 | 15 | 5 | 16 | 47 | 41 | 0 | 0 | 6 | 51 | 22 | 2 | 10 | 37 | 1 | 2 |
| Rutgers Univ-New Brunswick | 341 | 13 | 17 | 7 | 28 | 47 | 52 | 8 | 17 | 13 | 35 | 12 | 4 | 7 | 32 | 29 | 20 |
| Rutgers Univ-Newark | 57 | 1 | 3 | 0 | 5 | 0 | 9 | 3 | 0 | 1 | 10 | 0 | 0 | 0 | 1 | 1 | 23 |
| Seton Hall Univ | 49 | 0 | 5 | 0 | 0 | 0 | 0 | 5 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 33 | 0 |
| Stevens Inst of Technology | 25 | 2 | 2 | 0 | 8 | 11 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Univ of Med \& Dent of NJ | 30 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NEW MEXICO | 272 | 20 | 8 | 5 | 7 | 39 | 19 | 3 | 16 | 19 | 17 | 9 | 5 | 4 | 21 | 63 | 17 |
| New Mexico Inst of Mining \& Tech | 11 | 2 | 0 | 2 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Mexico State Univ-Main Campus | 78 | 12 | 4 | 0 | 2 | 14 | 2 | 0 | 16 | 7 | 0 | 0 | 0 | 1 | 2 | 12 | 6 |
| Univ of New Mexico-Main Campus | 183 | 6 | 4 | 3 | 5 | 18 | 17 | 3 | 0 | 12 | 17 | 9 | 5 | 3 | 19 | 51 | 11 |
| NEW YORK | 3,528 | 158 | 145 | 60 | 171 | 324 | 531 | 70 | 53 | 362 | 395 | 110 | 49 | 83 | 451 | 387 | 179 |
| Adelphi Univ | 40 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Albany Medical College | 3 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Alfred Univ | 14 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| CUNY Grad School \& Univ Center | 268 | 14 | 8 | 4 | 18 | 12 | 29 | 8 | 0 | 39 | 29 | 10 | 7 | 12 | 59 | 6 | 13 |
| Clarkson Univ | 19 | 0 | 3 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Columbia Univ | 457 | 24 | 27 | 16 | 20 | 32 | 57 | 19 | 0 | 29 | 69 | 35 | 4 | 14 | 61 | 15 | 35 |
| Columbia Univ-Teachers College | 124 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 124 | 0 |
| Cornell Univ | 449 | 31 | 19 | 9 | 21 | 78 | 75 | 8 | 45 | 7 | 56 | 15 | 3 | 5 | 54 | 7 | 16 |
| Cornell Univ Medical Campus | 30 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fordham University | 95 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 22 | 15 | 3 | 0 | 6 | 12 | 31 | 5 |
| Hofstra Univ | 44 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 33 | 0 | 0 | 0 | 0 | 0 | 11 | 0 |
| Jewish Theol Sem of America | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 2 |
| The Juilliard School | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 |
| Long Island Univ-Brooklyn Campus | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mount Sinai School of Medicine | 27 | 0 | 0 | 0 | 0 | 0 | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New School University | 52 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 30 | 0 | 0 | 0 | 4 | 0 | 0 |
| New York Medical College | 14 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New York Univ | 390 | 3 | 9 | 1 | 35 | 2 | 50 | 11 | 0 | 27 | 41 | 16 | 13 | 13 | 91 | 42 | 36 |
| Pace Univ-New York | 5 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Polytechnic Univ | 34 | 0 | 2 | 0 | 7 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rensselaer Polytechnic Inst | 92 | 7 | 7 | 2 | 2 | 57 | 3 | 0 | 0 | 1 | 4 | 1 | 0 | 0 | 0 | 0 | 8 |
| Rochester Institute of Technology | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rockefeller Univ | 19 | 1 | 0 | 0 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| St Johns Univ-Queens | 50 | 0 | 2 | 0 | 0 | 0 | 7 | 0 | 0 | 19 | 1 | 2 | 0 | 2 | 0 | 17 | 0 |
| SUNY-Albany | 159 | 15 | 1 | 8 | 11 | 1 | 9 | 2 | 0 | 31 | 27 | 2 | 1 | 3 | 9 | 30 | 9 |
| SUNY-Binghamton | 100 | 0 | 5 | 2 | 8 | 4 | 5 | 0 | 0 | 9 | 22 | 6 | 6 | 6 | 22 | 4 | 1 |


| State/Institution | $\begin{aligned} & 2000 \\ & \text { Total } \end{aligned}$ |  | $\begin{aligned} & \frac{Z}{N} \\ & \frac{0}{E} \\ & \frac{0}{U} \end{aligned}$ |  |  | 은 <br> ㅎ <br> 픙 <br> ㄷ | $\begin{aligned} & \text { © } \\ & 0 \\ & \text { O } \\ & \text { OU } \\ & \text { N } \\ & \text { © } \end{aligned}$ |  |  | $\begin{aligned} & \text { त } \\ & \text { ㅇ } \\ & \text { O } \\ & \text { त्र } \\ & \text { त } \end{aligned}$ |  | $\begin{aligned} & \frac{\lambda}{0} \\ & \text { In } \\ & \text { In } \end{aligned}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| NEW YORK (continued) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SUNY-Buffalo | 302 | 8 | 16 | 0 | 8 | 35 | 50 | 14 | 0 | 23 | 22 | 4 | 11 | 8 | 37 | 53 | 13 |
| SUNY-Stony Brook | 241 | 19 | 23 | 10 | 14 | 21 | 49 | 0 | 0 | 22 | 22 | 8 | 4 | 9 | 37 | 3 | 0 |
| SUNY Coll-Environ Sci \& Forestry | 17 | 0 | 3 | 3 | 0 | 1 | 3 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUNY-HIth Sci Ctr-Brooklyn | 13 | 0 | 0 | 0 | 0 | 0 | 12 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUNY-HIth Sci Ctr-Syracuse | 12 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Syracuse Univ | 142 | 6 | 7 | 1 | 14 | 13 | 1 | 0 | 0 | 11 | 34 | 3 | 0 | 0 | 10 | 27 | 15 |
| Union College | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Union Theol Seminary | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| Univ of Rochester | 211 | 27 | 13 | 3 | 10 | 20 | 37 | 6 | 1 | 4 | 22 | 5 | 0 | 5 | 43 | 11 | 4 |
| Yeshiva Univ | 60 | 0 | 0 | 1 | 0 | 1 | 39 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 3 | 5 |
| NORTH CAROLINA | 1,109 | 28 | 55 | 26 | 49 | 128 | 217 | 66 | 34 | 52 | 121 | 36 | 16 | 18 | 85 | 141 | 37 |
| Appalachian State Univ | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| Duke Univ | 230 | 8 | 11 | 1 | 10 | 34 | 59 | 1 | 1 | 9 | 37 | 12 | 6 | 3 | 31 | 1 | 6 |
| East Carolina Univ | 10 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| Fayetteville State Univ | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| North Carolina A \& T St Univ | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Carolina St U-Raleigh | 314 | 10 | 15 | 11 | 22 | 79 | 58 | 2 | 33 | 7 | 27 | 1 | 0 | 0 | 0 | 48 | 1 |
| Southeastern Baptist Theological Seminary | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 |
| U of N Carolina-Chapel Hill | 424 | 6 | 23 | 14 | 17 | 11 | 72 | 61 | 0 | 21 | 57 | 23 | 9 | 14 | 31 | 35 | 30 |
| U of N Carolina-Charlotte | 4 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| U of N Carolina-Greensboro | 88 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 0 | 15 | 0 | 0 | 1 | 1 | 17 | 48 | 0 |
| Wake Forest University | 28 | 4 | 6 | 0 | 0 | 1 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NORTH DAKOTA | 58 | 4 | 6 | 0 | 3 | 2 | 8 | 0 | 6 | 12 | 0 | 1 | 0 | 1 | 2 | 13 | 0 |
| North Dakota State Univ-Main Campus | 19 | 1 | 3 | 0 | 3 | 2 | 4 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Univ of North Dakota-Main Campus | 39 | 3 | 3 | 0 | 0 | 0 | 4 | 0 | 0 | 12 | 0 | 1 | 0 | 1 | 2 | 13 | 0 |
| OHIO | 1,795 | 65 | 100 | 19 | 48 | 265 | 248 | 101 | 28 | 174 | 93 | 53 | 21 | 28 | 124 | 326 | 102 |
| Air Force Inst of Tech | 10 | 1 | 0 | 0 | 2 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bowling Green State Univ-Main Campus | 93 | 1 | 2 | 1 | 5 | 0 | 3 | 1 | 0 | 22 | 4 | 2 | 1 | 3 | 23 | 18 | 7 |
| Case Western Reserve Univ | 193 | 6 | 10 | 1 | 3 | 46 | 54 | 19 | 1 | 8 | 5 | 6 | 3 | 4 | 7 | 1 | 19 |
| Cleveland State Univ | 39 | 0 | 5 | 0 | 1 | 9 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 8 |
| Hebrew Union College-Jewish Inst of Religion | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 3 | 0 | 1 |
| Kent State Univ-Main Campus | 131 | 9 | 2 | 3 | 3 | 0 | 12 | 1 | 0 | 29 | 8 | 5 | 2 | 3 | 2 | 37 | 15 |
| Medical College of Ohio | 24 | 0 | 0 | 0 | 0 | 0 | 22 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Miami Univ-Oxford | 50 | 0 | 8 | 0 | 0 | 0 | 11 | 0 | 0 | 7 | 3 | 5 | 3 | 3 | 2 | 8 | 0 |
| Ohio State Univ-Main Campus | 609 | 21 | 24 | 13 | 25 | 79 | 82 | 38 | 27 | 39 | 52 | 21 | 5 | 7 | 40 | 105 | 31 |
| Ohio Univ-Main Campus | 120 | 5 | 2 | 0 | 2 | 14 | 5 | 1 | 0 | 16 | 1 | 6 | 2 | 2 | 5 | 44 | 15 |
| Univ of Akron-Main Campus | 114 | 8 | 26 | 0 | 0 | 30 | 3 | 0 | 0 | 17 | 7 | 2 | 0 | 0 | 0 | 21 | 0 |
| Univ of Cincinnati-Main Campus | 240 | 7 | 16 | 1 | 3 | 50 | 39 | 11 | 0 | 10 | 13 | 1 | 1 | 1 | 40 | 41 | 6 |
| Univ of Dayton | 31 | 4 | 0 | 0 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 |
| Univ of Toledo | 108 | 3 | 5 | 0 | 4 | 9 | 9 | 28 | 0 | 10 | 0 | 4 | 4 | 5 | 2 | 25 | 0 |
| Wright State Univ-Main Campus | 22 | 0 | 0 | 0 | 0 | 2 | 4 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Youngstown State Univ | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 |
| OKLAHOMA | 382 | 11 | 15 | 24 | 13 | 33 | 42 | 7 | 19 | 50 | 27 | 4 | 7 | 9 | 18 | 85 | 18 |
| Oklahoma State Univ-Main Campus | 186 | 4 | 8 | 10 | 4 | 14 | 19 | 2 | 19 | 20 | 11 | 1 | 2 | 3 | 1 | 60 | 8 |
| Univ of Oklahoma-Norman Campus | 170 | 7 | 7 | 12 | 8 | 13 | 23 | 5 | 0 | 17 | 16 | 3 | 3 | 4 | 17 | 25 | 10 |
| Univ of Tulsa | 26 | 0 | 0 | 2 | 1 | 6 | 0 | 0 | 0 | 13 | 0 | 0 | 2 | 2 | 0 | 0 | 0 |
| OREGON | 382 | 17 | 19 | 22 | 21 | 29 | 75 | 23 | 30 | 17 | 24 | 1 | 4 | 7 | 27 | 49 | 17 |
| Oregon Grad Inst of Sci \& Tech | 17 | 0 | 1 | 0 | 1 | 14 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oregon Health Sciences Univ | 37 | 0 | 0 | 0 | 0 | 0 | 30 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oregon State Univ | 159 | 7 | 9 | 15 | 11 | 12 | 28 | 16 | 30 | 3 | 5 | 0 | 0 | 0 | 1 | 20 | 2 |
| Portland State Univ | 31 | 1 | 1 | 1 | 1 | 3 | 3 | 0 | 0 | 3 | 4 | 0 | 0 | 0 | 0 | 8 | 6 |
| Univ of Oregon | 138 | 9 | 8 | 6 | 8 | 0 | 13 | 0 | 0 | 11 | 15 | 1 | 4 | 7 | 26 | 21 | 9 |
| PENNSYLVANIA | 2,101 | 55 | 88 | 24 | 103 | 316 | 265 | 116 | 19 | 198 | 149 | 41 | 32 | 31 | 188 | 336 | 140 |
| Bryn Mawr College | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 1 | 8 | 0 | 3 |
| Carnegie Mellon Univ | 158 | 3 | 10 | 1 | 22 | 82 | 9 | 0 | 0 | 8 | 3 | 5 | 0 | 0 | 4 | 0 | 11 |
| Drexel Univ | 35 | 0 | 1 | 1 | 2 | 17 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| Duquesne Univ | 48 | 0 | 4 | 0 | 1 | 0 | 0 | 1 | 0 | 24 | 0 | 0 | 1 | 2 | 13 | 0 | 2 |
| Indiana Univ of Pennsylvania | 77 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 5 | 0 | 9 | 9 | 17 | 26 | 0 |
| Lehigh Univ | 100 | 7 | 3 | 3 | 7 | 43 | 6 | 0 | 0 | 10 | 2 | 0 | 1 | 2 | 1 | 13 | 2 |
| Marywood Univ | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| MCP Hahnemann University | 29 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pennsylvania State Univ-Main Campus | 541 | 20 | 11 | 11 | 23 | 110 | 71 | 25 | 19 | 35 | 38 | 8 | 5 | 7 | 32 | 97 | 29 |
| Univ of the Sciences in Philadelphia | 7 | 0 | 4 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Temple Univ | 270 | 3 | 8 | 0 | 7 | 1 | 26 | 16 | 0 | 40 | 15 | 14 | 5 | 2 | 35 | 78 | 20 |
| Thomas Jefferson Univ | 16 | 0 | 1 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Univ of Pennsylvania | 425 | 11 | 28 | 4 | 14 | 33 | 84 | 22 | 0 | 19 | 60 | 11 | 10 | 7 | 46 | 37 | 39 |
| Univ of Pittsburgh-Main Campus | 317 | 11 | 16 | 4 | 27 | 30 | 37 | 40 | 0 | 18 | 26 | 3 | 1 | 1 | 25 | 54 | 24 |
| Villanova Univ | 3 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Westminster Theol Seminary | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 2 |
| Widener Univ-Main Campus | 41 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 |
| PUERTO RICO | 130 | 0 | 7 | 4 | 0 | 0 | 12 | 0 | 0 | 60 | 1 | 2 | 0 | 0 | 1 | 43 | 0 |
| Carlos Albizu University-San Juan Campus | 43 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 43 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Inter Amer U PR-Metro | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 0 |

PUERTO RICO (continued)
Univ of Puerto Rico-Mayaguez
Univ of Puerto Rico-Med Science Campus
Univ of Puerto Rico-Rio Piedras
RHODE ISLAND
Brown Univ
Providence College
Univ of Rhode Island
SOUTH CAROLINA
Medical Univ of South Carolina
South Carolina State Univ
Univ of South Carolina
SOUTH DAKOTA
S Dakota Sch of Mines \& Tech
South Dakota State Univ
Univ of South Dakota
TENNESSEE
East Tennessee State Univ
Meharry Medical College
Mid-America Baptist Sem
Middle Tennessee State Univ
Tennessee State Univ
Tennessee Technological Univ
Univ of Memphis
Univ of Tennessee-Knoxville
Univ of Tennessee-Memphis Vanderbilt Univ

TEXAS
Baylor College of Medicine
Baylor Univ
Dallas Theological Seminary
Lamar Univ-Beaumont
Rice Univ
St. Mary's Univ
Sam Houston State Univ
Southern Methodist Univ
Southwestern Baptist Theol Sem
Southwest Texas State Univ
Stephen F Austin St Univ
Texas A\&M Univ-College Station
Texas A\&M Univ-Commerce
Texas A\&M Univ-Kingsville
Texas Christian Univ
Texas Southern Univ
Texas Tech Univ
Texas Tech Univ Health Sci Ctr
Texas Woman's Univ
Univ of Dallas
Univ of Houston
Univ of North Texas
Univ of North Texas-HIth Sci Ctr
Univ of Texas-Arlington
Univ of Texas-Austin
Univ of Texas-Dallas
Univ of Texas-El Paso
Univ of Texas-Pan American
Univ of Texas-Pan American
Univ of Texas -Hlth Sci Ctr-Houston
Univ of Texas -Hlth Sci Ctr-San Antonio
Univ of Texas -Med Branch-Galveston
Univ of Texas-Southwestern Med Ctr

## UTAH

Brigham Young Univ
Univ of Utah
Univ of Utah
Utah State Univ
VERMONT
Middlebury College
Univ of Vermont

## VIRGINIA

College of William \& Mary
George Mason Univ
Hampton University


| State/Institution | $\begin{aligned} & 2000 \\ & \text { Total } \end{aligned}$ |  | $\begin{aligned} & \underset{Z}{Z} \\ & \stackrel{.0}{E} \\ & \text { © } \end{aligned}$ |  |  |  | $\ddot{0}$ <br> 0 <br> 0 <br> 0 <br> 0 <br> $\mathbf{0}$ |  |  | $\begin{aligned} & \text { 징 } \\ & \text { 응 } \\ & \frac{7}{0} \\ & \text { in } \end{aligned}$ |  | $\begin{aligned} & \frac{7}{0} \\ & \frac{0}{0}+\frac{1}{\mathbf{n}} \end{aligned}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| VIRGINIA (continued) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Norfolk State Univ | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Old Dominion Univ | 62 | 4 | 0 | 7 | 4 | 14 | 8 | 1 | 0 | 2 | 4 | 0 | 0 | 0 | 0 | 12 | 6 |
| Regent Univ | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 6 |
| Union Theol Seminary in Virginia | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 3 | 1 | 5 |
| Univ of Virginia-Main Campus | 341 | 8 | 13 | 5 | 16 | 51 | 44 | 6 | 0 | 25 | 37 | 17 | 4 | 14 | 30 | 68 | 3 |
| Virginia Commonwealth Univ and Med Coll | 112 | 0 | 10 | 0 | 0 | 2 | 37 | 12 | 0 | 22 | 12 | 0 | 0 | 0 | 3 | 5 | 9 |
| Virginia Polytech Inst \& St Univ | 308 | 2 | 15 | 4 | 16 | 86 | 26 | 3 | 24 | 20 | 13 | 1 | 0 | 0 | 1 | 71 | 26 |
| WASHINGTON | 634 | 20 | 37 | 26 | 25 | 83 | 114 | 36 | 18 | 18 | 53 | 22 | 11 | 12 | 69 | 65 | 25 |
| Gonzaga Univ | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 6 | 0 |
| Seattle Pacific Univ | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 |
| Seattle Univ | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 |
| Univ of Washington | 486 | 16 | 34 | 24 | 20 | 68 | 86 | 32 | 11 | 13 | 45 | 17 | 10 | 6 | 62 | 23 | 19 |
| Washington State Univ | 118 | 4 | 3 | 2 | 5 | 15 | 28 | 1 | 7 | 4 | 7 | 5 | 1 | 6 | 7 | 17 | 6 |
| WEST VIRGINIA | 134 | 7 | 7 | 2 | 4 | 19 | 13 | 1 | 12 | 22 | 8 | 1 | 0 | 0 | 4 | 34 | 0 |
| Marshall University | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| West Virginia Univ | 132 | 7 | 7 | 2 | 4 | 19 | 11 | 1 | 12 | 22 | 8 | 1 | 0 | 0 | 4 | 34 | 0 |
| WISCONSIN | 869 | 32 | 46 | 14 | 37 | 117 | 163 | 19 | 51 | 37 | 65 | 40 | 16 | 17 | 71 | 95 | 49 |
| Marquette Univ | 54 | 0 | 4 | 0 | 1 | 7 | 4 | 0 | 0 | 4 | 0 | 2 | 3 | 2 | 15 | 8 | 4 |
| Medical College of Wisconsin | 10 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Univ of Wisconsin-Madison | 728 | 27 | 36 | 14 | 31 | 104 | 143 | 17 | 51 | 27 | 58 | 38 | 5 | 11 | 52 | 72 | 42 |
| Univ of Wisconsin-Milwaukee | 77 | 5 | 6 | 0 | 5 | 6 | 6 | 2 | 0 | 6 | 7 | 0 | 8 | 4 | 4 | 15 | 3 |
| WYOMING | 72 | 2 | 10 | 5 | 2 | 4 | 13 | 0 | 7 | 6 | 5 | 0 | 0 | 0 | 0 | 18 | 0 |
| Univ of Wyoming | 72 | 2 | 10 | 5 | 2 | 4 | 13 | 0 | 7 | 6 | 5 | 0 | 0 | 0 | 0 | 18 | 0 |

NOTE: Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates
${ }^{\text {a }}$ Includes 5 persons for whom field was unknown.
Source: NSF/NIH//USED/NEH/USDA/NASA, Survey of Earned Doctorates

APPENDIX TABLE A-8. Top 50 doctorate-granting institutions, 2000

| Rank | Institution | Number | Rank | Institution | Number |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1. | University of California-Berkeley | 751 | 26. | University of Florida | 394 |
| 2. | University of Wisconsin-Madison | 728 | 27. | University of Chicago | 391 |
| 3. | University of Minnesota-Twin Cities | 684 | 28. | New York University | 390 |
| 4. | The University of Texas at Austin | 656 | 29. | Northwestern University | 360 |
| 5. | University of Michigan-Ann Arbor | 653 | 30. | University of California-Davis | 356 |
| 6. | Ohio State University-Main Campus | 609 | 31. | University of Georgia | 352 |
| 7. | University of California-Los Angeles | 604 | 32. | Rutgers University-New Brunswick | 341 |
| 8. | University of Illinois at Urbana | 600 | [ 32. | University of Virginia-Main Campus | 341 |
| 9. | Nova Southeastern University | 590 | 34. | Johns Hopkins University | 332 |
| 10. | Stanford University | 567 | 35. | Yale University | 325 |
| 11. | Harvard University | 547 | 36. | University of Pittsburgh-Main Campus | 317 |
| 12. | Pennsylvania State University-Main Campus | 541 | 37. | University of lowa | 314 |
| 13. | Texas A \& M University | 507 | 37. | North Carolina State University at Raleigh | 314 |
| 14. | University of Washington | 486 | 39. | Virginia Polytechnic Institute \& State University | 308 |
| 15. | Purdue University-Main Campus | 470 | 40. | SUNY at Buffalo | 302 |
| [ 16. | University of Maryland-College Park | 460 | 41. | Arizona State University-Main Campus | 283 |
| [ 16. | Massachusetts Institute of Technology | 460 | 42. | Princeton University | 281 |
| 18. | Columbia University in the City of New York | 457 | 43. | University of California-San Diego | 278 |
| 19. | Cornell University-Endowed Colleges | 449 | 44. | University of Connecticut | 276 |
| 20. | Indiana University-Bloomington | 440 | [ 44. | University of Massachusetts-Amherst | 276 |
| 21. | Michigan State University | 429 | 46. | Louisiana State University \& A\&M | 275 |
| 22. | University of Pennsylvania | 425 | 47. | Temple University | 270 |
| 23. | University of North Carolina at Chapel Hill | 424 | 48. | CUNY Graduate School \& University Center | 268 |
| 24. | University of Southern California | 411 | 49. | University of Colorado at Boulder | 267 |
| 25. | University of Arizona | 403 | 50. | University of Tennessee-Knoxville | 266 |

Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

## APPENDIX B: Trend Tables, 1990-2000

Appendix B includes the following two tables:
B-1: Number of Doctorate Recipients, by Subfield, 1990-2000
B-2: Number of Doctorate Recipients, by Sex, Race/Ethnicity, and Citizenship, 1990-2000

TABLE B-1: Table B-1 presents data for the most recent decade by subfield of doctorate. In general, the subfields correspond to the fields on the questionnaire's Specialties List located in the questionnaire at the back of the Summary Report; some subfields, however, do not appear on the current Specialties List because they are no longer included in the survey taxonomy. A dash (-) in a column indicates that the field was not on the Specialties List for that year.

Field groupings in this table may differ from those in reports p ublished by Federal sponsors of the Survey of Earned Doctorates (SED); see inside the back cover of the Summary Report for a description of field groupings as reported in these tables. The "general" field categories-for example, "chemistry, general"-include individuals who either received the doctorate in the general subject area or did not indicate a particular specialty field. The "other" field categories-for example, "chemistry, other"-include individuals whose specified doctoral discipline was not among the specialty fields.

The eight tables in Appendix A present additional information on the most recent cohort of research doctorate recipients by field of doctorate.

TABLE B-2: Table B-2 displays, by sex and citizenship, data on the race/ethnicity of doctorate recipients for 1990-2000. Table B-2 contains three panels, each displayed on a separate page. The first panel includes all doctorates; the others disaggregate the data by sex.

Since 1982 respondents have been asked to first indicate whether or not they are Hispanic, and then check one of four racial group categories (American Indian, Asian, black, or white). In Table B-2, doctorate recipients who reported Hispanic heritage, regardless of racial designation, are counted as Hispanic. The remaining survey respondents are then counted in their respective racial groups. (Note: Doctorate recipients who checked the category "American Indian or Alaskan Native" are identified as American Indian in this report.)

Tables A-2 and A-4 in Appendix A present additional information on the most recent cohort of doctorate recipients by race/ethnicity.


APPENDIX TABLE B-1. Number of doctorate recipients, by subfield, 1990-2000 (continued)

|  | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Materials Science | 307 | 361 | 365 | 416 | 433 | 476 | 470 | 482 | 482 | 393 | 404 |
| Mechanical | 773 | 762 | 855 | 902 | 883 | 917 | 947 | 928 | 937 | 786 | 807 |
| Metallurgical | 90 | 70 | 78 | 77 | 67 | 73 | 61 | 60 | 59 | 43 | 25 |
| Mining \& Mineral | 39 | 38 | 26 | 24 | 23 | 19 | 31 | 33 | 21 | 18 | 10 |
| Naval Architecture, Marine Eng. | 8 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nuclear | 114 | 107 | 120 | 108 | 85 | 105 | 113 | 102 | 96 | 76 | 98 |
| Ocean | 17 | 21 | 21 | 24 | 29 | 21 | 26 | 34 | 29 | 16 | 18 |
| Operations Research | 46 | 76 | 56 | 56 | 47 | 48 | 74 | 74 | 62 | 67 | 51 |
| Petroleum | 49 | 28 | 54 | 52 | 42 | 48 | 52 | 51 | 48 | 45 | 44 |
| Polymer/Plastics | 48 | 42 | 64 | 61 | 53 | 58 | 65 | 54 | 59 | 52 | 62 |
| Systems | 51 | 48 | 37 | 57 | 51 | 47 | 47 | 49 | 68 | 42 | 34 |
| Engineering, General | 75 | 78 | 64 | 47 | 39 | 60 | 60 | 51 | 30 | 39 | 43 |
| Engineering, Other | 107 | 137 | 103 | 116 | 129 | 129 | 137 | 148 | 194 | 213 | 170 |
| LIFE SCIENCES | 6,605 | 6,933 | 7,115 | 7,395 | 7,739 | 7,917 | 8,255 | 8,324 | 8,538 | 8,101 | 8,529 |
| BIOLOGICAL SCIENCES | 4,328 | 4,650 | 4,799 | 5,092 | 5,203 | 5,375 | 5,723 | 5,786 | 5,843 | 5,581 | 5,855 |
| Biochemistry | 678 | 765 | 715 | 846 | 804 | 824 | 794 | 831 | 798 | 760 | 777 |
| Biomedical Sciences | 0 | 0 | 0 | 0 | 0 | 93 | 140 | 158 | 184 | 176 | 155 |
| Biophysics | 103 | 100 | 125 | 103 | 123 | 155 | 142 | 147 | 166 | 173 | 164 |
| Biotechnology Research | 0 | 0 | 0 | 8 | 14 | 4 | 6 | 11 | 12 | 19 | 14 |
| Bacteriology | 15 | 11 | 13 | 14 | 18 | 13 | 16 | 13 | 13 | 13 | 15 |
| Plant Genetics | 31 | 23 | 33 | 41 | 30 | 35 | 41 | 30 | 40 | 31 | 35 |
| Plant Pathology | 37 | 50 | 32 | 41 | 40 | 32 | 38 | 33 | 18 | 36 | 25 |
| Plant Physiology | 51 | 65 | 68 | 48 | 70 | 55 | 73 | 47 | 61 | 54 | 39 |
| Botany, Other | 104 | 105 | 107 | 105 | 117 | 102 | 105 | 91 | 113 | 67 | 92 |
| Anatomy | 70 | 77 | 75 | 76 | 66 | 64 | 47 | 50 | 35 | 33 | 40 |
| Biometrics \& Biostatistics | 47 | 59 | 63 | 74 | 72 | 67 | 81 | 84 | 75 | 76 | 92 |
| Cell Biology | 145 | 149 | 188 | 231 | 237 | 236 | 233 | 251 | 299 | 284 | 337 |
| Ecology | 166 | 189 | 180 | 177 | 201 | 203 | 245 | 255 | 293 | 272 | 297 |
| Developmental Biology/Embryology | 22 | 37 | 48 | 57 | 62 | 64 | 96 | 115 | 127 | 108 | 111 |
| Endocrinology | 24 | 33 | 27 | 16 | 26 | 20 | 24 | 17 | 30 | 19 | 20 |
| Entomology | 147 | 138 | 139 | 114 | 123 | 121 | 136 | 124 | 138 | 114 | 137 |
| Biological Immunology | 153 | 177 | 181 | 169 | 161 | 190 | 238 | 214 | 245 | 223 | 238 |
| Molecular Biology | 413 | 481 | 527 | 582 | 598 | 617 | 651 | 772 | 736 | 715 | 705 |
| Microbiology | 335 | 372 | 377 | 433 | 423 | 426 | 444 | 410 | 383 | 382 | 383 |
| Neuroscience | 192 | 238 | 238 | 276 | 284 | 308 | 404 | 437 | 413 | 431 | 495 |
| Nutritional Sciences | 118 | 106 | 132 | 134 | 147 | 136 | 142 | 124 | 139 | 102 | 150 |
| Parasitology | 13 | 20 | 17 | 17 | 22 | 14 | 22 | 17 | 15 | 13 | 19 |
| Toxicology | 91 | 86 | 105 | 100 | 120 | 126 | 138 | 180 | 155 | 114 | 123 |
| Human \& Animal Genetics | 153 | 160 | 142 | 172 | 203 | 202 | 212 | 217 | 197 | 216 | 225 |
| Human \& Animal Pathology | 101 | 122 | 114 | 130 | 128 | 109 | 135 | 106 | 90 | 120 | 105 |
| Human \& Animal Pharmacology | 244 | 266 | 279 | 274 | 259 | 278 | 316 | 300 | 255 | 254 | 267 |
| Human \& Animal Physiology | 278 | 272 | 266 | 271 | 289 | 262 | 275 | 227 | 258 | 243 | 244 |
| Zoology, Other | 122 | 125 | 134 | 114 | 117 | 145 | 100 | 97 | 111 | 126 | 133 |
| Biological Sciences, General | 333 | 278 | 315 | 305 | 288 | 348 | 291 | 209 | 216 | 182 | 200 |
| Biological Sciences, Other | 142 | 146 | 159 | 164 | 161 | 126 | 138 | 219 | 228 | 225 | 218 |
| HEALTH SCIENCES | 956 | 1,041 | 1,112 | 1,197 | 1,296 | 1,330 | 1,324 | 1,422 | 1,501 | 1,404 | 1,589 |
| Speech-Lang. Pathology \& Audiology | 93 | 90 | 82 | 98 | 95 | 106 | 94 | 88 | 95 | 86 | 106 |
| Environmental Health | 38 | 38 | 44 | 38 | 51 | 51 | 58 | 67 | 54 | 69 | 52 |
| Health Systems/Services Admin. | 0 | 0 | 0 | 35 | 53 | 62 | 60 | 66 | 62 | 62 | 58 |
| Public Health | 123 | 132 | 157 | 153 | 142 | 152 | 156 | 139 | 156 | 171 | 207 |
| Epidemiology | 102 | 115 | 108 | 120 | 168 | 153 | 149 | 151 | 166 | 180 | 190 |
| Exercise Physiology/Sci., Kinesiology | 0 | 0 | 0 | 0 | 87 | 118 | 105 | 105 | 129 | 104 | 130 |
| Nursing | 261 | 325 | 338 | 373 | 336 | 354 | 354 | 420 | 399 | 352 | 413 |
| Pharmacy | 116 | 115 | 160 | 146 | 148 | 144 | 145 | 142 | 156 | 137 | 164 |
| Rehabilitation/Therapeutic Services | 0 | 17 | 25 | 36 | 43 | 20 | 26 | 34 | 35 | 26 | 40 |
| Veterinary Medicine | 70 | 56 | 63 | 61 | 56 | 55 | 65 | 47 | 49 | 49 | 50 |
| Health Sciences, General | 36 | 28 | 30 | 38 | 41 | 35 | 22 | 45 | 17 | 32 | 50 |
| Health Sciences, Other | 117 | 125 | 105 | 99 | 76 | 80 | 90 | 118 | 183 | 136 | 129 |
| AGRICULTURAL SCIENCES | 1,321 | 1,242 | 1,204 | 1,106 | 1,240 | 1,212 | 1,208 | 1,116 | 1,194 | 1,116 | 1,085 |
| Agricultural Economics | 145 | 168 | 141 | 137 | 162 | 173 | 169 | 133 | 155 | 149 | 137 |
| Agricultural Business and Management | 2 | 1 | 0 | 1 | 0 | 3 | 2 | 1 | 2 | 2 | 5 |
| Animal Breeding \& Genetics | 22 | 18 | 23 | 18 | 17 | 19 | 12 | 24 | 18 | 21 | 22 |
| Animal Nutrition | 54 | 57 | 41 | 52 | 58 | 50 | 54 | 55 | 45 | 46 | 46 |
| Dairy Science | 20 | 19 | 14 | 11 | 11 | 14 | 9 | 14 | 10 | 12 | 9 |
| Poultry Science | 17 | 13 | 22 | 16 | 21 | 11 | 12 | 9 | 11 | 8 | 9 |
| Fisheries Science \& Management | 42 | 39 | 26 | 38 | 48 | 49 | 46 | 45 | 30 | 38 | 43 |
| Animal Sciences, Other | 90 | 92 | 97 | 74 | 86 | 85 | 90 | 62 | 60 | 71 | 73 |
| Agronomy \& Crop Science | 143 | 117 | 123 | 104 | 143 | 114 | 110 | 77 | 97 | 106 | 70 |
| Plant Breeding \& Genetics | 87 | 69 | 82 | 68 | 81 | 72 | 63 | 67 | 69 | 44 | 68 |
| Plant Pathology | 64 | 90 | 63 | 58 | 55 | 52 | 90 | 65 | 66 | 66 | 63 |
| Plant Protection-Pest Management | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Plant Sciences, Other | 23 | 17 | 29 | 28 | 24 | 30 | 21 | 20 | 37 | 38 | 29 |
| Food Distribution | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Food Engineering | 10 | 12 | 14 | 9 | 16 | 7 | 7 | 11 | 13 | 7 | 10 |
| Food Sciences, Other | 141 | 137 | 151 | 141 | 152 | 135 | 142 | 175 | 153 | 137 | 142 |
| Soil Chemistry/Microbiology | 27 | 24 | 24 | 26 | 21 | 27 | 29 | 32 | 27 | 29 | 26 |
| Soil Sciences, Other | 91 | 78 | 63 | 59 | 69 | 72 | 78 | 56 | 74 | 67 | 64 |
| Horticulture Science | 101 | 78 | 65 | 62 | 65 | 67 | 73 | 44 | 60 | 66 | 55 |
| Forest Biology | 27 | 17 | 29 | 18 | 20 | 24 | 19 | 22 | 20 | 14 | 22 |
| Forest Engineering | 2 | 2 | 2 | 3 | 0 | 4 | 0 | 13 | 2 | 1 | 3 |
| Forest Management | 14 | 22 | 16 | 17 | 17 | 20 | 22 | 21 | 27 | 17 | 13 |
| Wood Sci. \& Pulp/Paper Tech. | 16 | 16 | 21 | 20 | 26 | 26 | 18 | 25 | 25 | 21 | 11 |
| Conserv./Renewable Nat. Res. | 16 | 19 | 9 | 13 | 21 | 24 | 13 | 17 | 25 | 25 | 19 |
| Forestry \& Related Sci., Other | 62 | 45 | 62 | 55 | 59 | 71 | 56 | 50 | 69 | 49 | 54 |
| Wildlife/Range Mgt | 58 | 59 | 55 | 54 | 52 | 50 | 64 | 50 | 56 | 44 | 56 |
| Agricultural Sciences, General | 5 | 3 | 9 | 10 | 4 | 6 | 5 | 10 | 8 | 8 | 10 |
| Agricultural Sciences, Other | 38 | 28 | 23 | 14 | 11 | 7 | 4 | 18 | 35 | 30 | 26 |

APPENDIX TABLE B-1. Number of doctorate recipients, by subfield, 1990-2000 (continued)

|  | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SOCIAL SCIENCES \& PSYCHOLOGY | 6,093 | 6,152 | 6,216 | 6,545 | 6,613 | 6,635 | 6,814 | 7,052 | 7,075 | 7,029 | 7,115 |
| SOCIAL SCIENCES | 2,812 | 2,902 | 2,953 | 3,125 | 3,234 | 3,206 | 3,323 | 3,484 | 3,399 | 3,370 | 3,492 |
| Anthropology | 324 | 341 | 320 | 342 | 384 | 375 | 396 | 434 | 425 | 462 | 446 |
| Area Studies | 22 | 24 | 33 | 36 | 34 | 27 | 28 | 10 | 14 | 11 | 14 |
| Criminology | 42 | 35 | 37 | 39 | 41 | 44 | 60 | 49 | 55 | 51 | 66 |
| Demography/Population Studies | 20 | 28 | 17 | 22 | 23 | 15 | 11 | 24 | 30 | 28 | 19 |
| Economics | 836 | 861 | 885 | 906 | 913 | 952 | 979 | 999 | 975 | 911 | 933 |
| Econometrics | 26 | 24 | 25 | 24 | 26 | 27 | 29 | 31 | 25 | 15 | 15 |
| Geography | 131 | 108 | 111 | 137 | 146 | 150 | 165 | 149 | 154 | 144 | 197 |
| International Relations/Affairs | 97 | 88 | 76 | 102 | 112 | 73 | 99 | 88 | 97 | 119 | 77 |
| Political Science \& Government | 462 | 434 | 513 | 507 | 589 | 600 | 621 | 665 | 663 | 655 | 670 |
| Public Policy Analysis | 87 | 111 | 107 | 98 | 94 | 93 | 104 | 126 | 97 | 124 | 137 |
| Sociology | 428 | 465 | 495 | 513 | 525 | 540 | 516 | 577 | 549 | 543 | 615 |
| Statistics | 69 | 31 | 29 | 48 | 46 | 48 | 48 | 56 | 61 | 72 | 60 |
| Urban Affairs/Studies | 67 | 90 | 86 | 123 | 132 | 103 | 106 | 93 | 77 | 57 | 78 |
| Social Sciences, General | 23 | 36 | 33 | 32 | 21 | 35 | 26 | 26 | 30 | 25 | 39 |
| Social Sciences, Other | 178 | 226 | 186 | 196 | 148 | 124 | 135 | 157 | 147 | 153 | 126 |
| PSYCHOLOGY | 3,281 | 3,250 | 3,263 | 3,420 | 3,379 | 3,429 | 3,491 | 3,568 | 3,676 | 3,659 | 3,623 |
| Clinical | 1,337 | 1,305 | 1,309 | 1,373 | 1,285 | 1,291 | 1,325 | 1,267 | 1,344 | 1,442 | 1,357 |
| Cognitive \& Psycholinguistics | 76 | 94 | 101 | 104 | 129 | 104 | 128 | 166 | 113 | 143 | 141 |
| Comparative | 8 | 7 | 2 | 5 | 8 | 4 | 3 | 6 | 6 | 11 | 7 |
| Counseling | 466 | 497 | 507 | 488 | 497 | 470 | 464 | 487 | 448 | 460 | 475 |
| Developmental and Child | 159 | 155 | 170 | 202 | 179 | 152 | 188 | 215 | 267 | 193 | 203 |
| Human/Individual \& Family Develop. | 0 | 0 | 0 | 0 | 129 | 150 | 151 | 126 | 118 | 133 | 148 |
| Experimental | 143 | 142 | 154 | 143 | 139 | 151 | 128 | 145 | 149 | 137 | 133 |
| Educational | 98 | 110 | 91 | 91 | 69 | 74 | 92 | 61 | 61 | 66 | 97 |
| Family \& Marriage Counseling | 0 | 0 | 0 | 0 | 0 | 57 | 52 | 64 | 51 | 55 | 54 |
| Industrial \& Organizational | 126 | 142 | 138 | 159 | 137 | 155 | 162 | 187 | 189 | 158 | 188 |
| Personality | 20 | 13 | 17 | 22 | 19 | 16 | 24 | 26 | 25 | 16 | 23 |
| Physiological/Psychobiology | 46 | 45 | 55 | 85 | 93 | 92 | 80 | 77 | 92 | 86 | 89 |
| Psychometrics | 8 | 9 | 5 | 9 | 5 | 10 | 11 | 11 | 9 | 15 | 13 |
| Quantitative | 15 | 7 | 10 | 16 | 17 | 13 | 19 | 17 | 15 | 14 | 8 |
| School | 82 | 82 | 88 | 95 | 84 | 91 | 82 | 84 | 106 | 121 | 98 |
| Social | 145 | 147 | 139 | 125 | 153 | 155 | 170 | 181 | 186 | 176 | 209 |
| Psychology, General | 371 | 324 | 295 | 306 | 280 | 306 | 279 | 319 | 301 | 229 | 239 |
| Psychology, Other | 181 | 171 | 182 | 197 | 156 | 138 | 133 | 129 | 196 | 204 | 141 |
| HUMANITIES | 3,822 | 4,099 | 4,444 | 4,481 | 4,744 | 5,061 | 5,116 | 5,434 | 5,509 | 5,451 | 5,634 |
| GENERAL HUMANITIES | 2,412 | 2,642 | 2,879 | 2,852 | 3,103 | 3,208 | 3,367 | 3,563 | 3,608 | 3,648 | 3,751 |
| History, American | 211 | 251 | 277 | 269 | 310 | 344 | 355 | 372 | 408 | 417 | 442 |
| History, Asian | 0 | 0 | 0 | 0 | 0 | 43 | 54 | 54 | 70 | 68 | 51 |
| History, European | 151 | 127 | 176 | 162 | 180 | 185 | 187 | 245 | 230 | 234 | 243 |
| History/Philosophy of Sci. \& Tech. | 26 | 27 | 28 | 37 | 27 | 41 | 37 | 36 | 43 | 49 | 42 |
| History, General | 111 | 121 | 102 | 116 | 140 | 148 | 101 | 82 | 86 | 76 | 103 |
| History, Other | 113 | 137 | 141 | 142 | 144 | 128 | 123 | 176 | 152 | 164 | 179 |
| Classics | 58 | 55 | 58 | 61 | 84 | 62 | 72 | 53 | 85 | 77 | 63 |
| Comparative Literature | 97 | 150 | 163 | 153 | 163 | 191 | 164 | 181 | 163 | 166 | 188 |
| Linguistics | 167 | 227 | 266 | 214 | 221 | 201 | 230 | 244 | 220 | 250 | 229 |
| Speech \& Rhetoric al Studies | 38 | 86 | 98 | 111 | 142 | 139 | 155 | 138 | 169 | 150 | 143 |
| Letters, General | 19 | 17 | 18 | 18 | 22 | 43 | 28 | 23 | 22 | 19 | 55 |
| Letters, Other | 52 | 44 | 38 | 37 | 25 | 34 | 61 | 60 | 82 | 82 | 92 |
| American Studies | 72 | 92 | 81 | 101 | 88 | 94 | 115 | 84 | 100 | 98 | 113 |
| Archeology | 22 | 33 | 33 | 38 | 34 | 35 | 21 | 35 | 34 | 26 | 36 |
| Art History/Criticism/Conservation | 135 | 125 | 154 | 158 | 182 | 181 | 176 | 188 | 221 | 188 | 228 |
| Music | 572 | 587 | 641 | 613 | 685 | 713 | 699 | 726 | 694 | 764 | 749 |
| Philosophy | 243 | 285 | 279 | 274 | 302 | 298 | 369 | 447 | 410 | 387 | 363 |
| Religion | 219 | 187 | 231 | 257 | 252 | 248 | 317 | 303 | 327 | 334 | 350 |
| Drama/Theater Arts | 106 | 91 | 95 | 91 | 102 | 80 | 103 | 116 | 92 | 99 | 82 |
| LANGUAGE AND LITERATURE | 1,308 | 1,350 | 1,465 | 1,523 | 1,537 | 1,718 | 1,618 | 1,746 | 1,720 | 1,648 | 1,711 |
| American Literature | 229 | 253 | 291 | 293 | 296 | 327 | 314 | 408 | 389 | 371 | 460 |
| English Language \& Literature | 567 | 599 | 612 | 655 | 647 | 752 | 699 | 686 | 688 | 651 | 610 |
| French | 123 | 100 | 124 | 137 | 129 | 151 | 142 | 150 | 137 | 148 | 143 |
| German | 78 | 71 | 96 | 105 | 67 | 93 | 88 | 82 | 106 | 90 | 83 |
| Italian | 25 | 32 | 20 | 19 | 32 | 35 | 24 | 23 | 33 | 20 | 16 |
| Spanish | 173 | 173 | 179 | 178 | 212 | 209 | 196 | 249 | 207 | 201 | 218 |
| Russian | 19 | 25 | 28 | 28 | 38 | 28 | 37 | 39 | 43 | 25 | 29 |
| Slavic | 7 | 14 | 15 | 13 | 10 | 16 | 11 | 9 | 15 | 17 | 14 |
| Chinese | 16 | 19 | 20 | 21 | 25 | 20 | 29 | 23 | 19 | 27 | 21 |
| Japanese | 9 | 7 | 12 | 11 | 12 | 7 | 10 | 19 | 11 | 10 | 18 |
| Hebrew | 14 | 11 | 20 | 15 | 10 | 11 | 12 | 7 | 8 | 4 | 11 |
| Arabic | 7 | 4 | 12 | 10 | 4 | 8 | 6 | 4 | 9 | 12 | 15 |
| Other Language \& Literature | 41 | 42 | 36 | 38 | 55 | 61 | 50 | 47 | 55 | 72 | 73 |
| OTHER HUMANITIES | 102 | 107 | 100 | 106 | 104 | 135 | 131 | 125 | 181 | 155 | 172 |
| Humanities, General | 28 | 29 | 21 | 30 | 32 | 25 | 39 | 25 | 23 | 24 | 40 |
| Humanities, Other | 74 | 78 | 79 | 76 | 72 | 110 | 92 | 100 | 158 | 131 | 132 |
| EDUCATION | 6,510 | 6,454 | 6,677 | 6,689 | 6,708 | 6,649 | 6,772 | 6,572 | 6,568 | 6,545 | 6,420 |
| RESEARCH \& ADMINISTRATION | 4,522 | 4,675 | 4,894 | 4,997 | 4,927 | 4,941 | 5,225 | 5,030 | 4,989 | 5,063 | 4,936 |
| Curriculum \& Instruction | 839 | 807 | 900 | 856 | 819 | 896 | 896 | 916 | 885 | 992 | 968 |
| Educational Admin. and Supervision | 1,663 | 1,428 | 1,290 | 1,340 | 1,207 | 1,086 | 1,170 | 1,018 | 949 | 894 | 810 |
| Educational Leadership | 1 | 485 | 694 | 783 | 792 | 889 | 989 | 1,033 | 1,113 | 1,150 | 1,199 |

APPENDIX TABLE B-1. Number of doctorate recipients, by subfield, 1990-2000 (continued)

|  | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Educ./Instruct. Media Design | 55 | 73 | 62 | 96 | 111 | 121 | 107 | 92 | 91 | 123 | 138 |
| Educ. Stat./Research Methods | 59 | 80 | 61 | 64 | 68 | 63 | 76 | 58 | 56 | 57 | 55 |
| Educ. Assess., Test., \& Meas. | 40 | 32 | 45 | 23 | 28 | 19 | 32 | 30 | 35 | 39 | 45 |
| Educational Psychology | 323 | 323 | 346 | 290 | 311 | 297 | 309 | 360 | 327 | 298 | 278 |
| School Psychology | 87 | 90 | 88 | 86 | 97 | 71 | 114 | 116 | 112 | 108 | 137 |
| Social/Phil. Found. of Educ. | 86 | 109 | 101 | 109 | 140 | 130 | 125 | 138 | 129 | 125 | 135 |
| Special Education | 225 | 226 | 260 | 277 | 241 | 254 | 278 | 269 | 248 | 262 | 259 |
| Counseling Educ./Couns. \& Guidance | 301 | 270 | 259 | 288 | 284 | 268 | 277 | 207 | 270 | 260 | 214 |
| Higher Educ./ Evaluation \& Research | 424 | 344 | 381 | 357 | 428 | 457 | 481 | 505 | 431 | 463 | 438 |
| Pre-elementary/Early Childhood | 42 | 85 | 98 | 97 | 91 | 70 | 81 | 42 | 54 | 49 | 34 |
| Elementary Education | 110 | 73 | 73 | 65 | 71 | 61 | 46 | 56 | 62 | 59 | 53 |
| Secondary Education | 56 | 40 | 28 | 33 | 24 | 24 | 34 | 26 | 55 | 31 | 23 |
| Adult \& Continuing Education | 211 | 210 | 208 | 233 | 215 | 235 | 210 | 164 | 172 | 153 | 150 |
| TEACHING FIELDS | 922 | 973 | 1,008 | 943 | 960 | 924 | 863 | 918 | 955 | 891 | 828 |
| Agricultural Education | 38 | 49 | 43 | 54 | 52 | 35 | 32 | 38 | 25 | 38 | 22 |
| Art Education | 44 | 28 | 46 | 38 | 33 | 39 | 41 | 30 | 46 | 47 | 31 |
| Business Education | 34 | 32 | 16 | 27 | 25 | 21 | 20 | 26 | 31 | 45 | 37 |
| English Education | 52 | 58 | 61 | 53 | 56 | 60 | 57 | 62 | 53 | 64 | 44 |
| Foreign Languages Education | 31 | 46 | 50 | 48 | 54 | 60 | 44 | 47 | 73 | 62 | 43 |
| Health Education | 95 | 78 | 98 | 83 | 97 | 99 | 90 | 58 | 70 | 58 | 71 |
| Home Economics Education | 10 | 21 | 12 | 14 | 11 | 15 | 13 | 13 | 8 | 10 | 14 |
| Technical/Industrial Arts Education | 17 | 13 | 11 | 16 | 20 | 15 | 11 | 19 | 30 | 21 | 21 |
| Mathematics Education | 65 | 73 | 62 | 69 | 74 | 92 | 100 | 93 | 115 | 101 | 91 |
| Music Education | 78 | 96 | 96 | 80 | 89 | 96 | 91 | 100 | 94 | 79 | 78 |
| Nursing Education | 24 | 18 | 29 | 19 | 24 | 18 | 23 | 21 | 14 | 22 | 11 |
| Physical Education \& Coaching | 191 | 185 | 167 | 161 | 139 | 104 | 101 | 109 | 109 | 114 | 83 |
| Reading Education | 82 | 102 | 121 | 95 | 97 | 85 | 66 | 70 | 76 | 68 | 89 |
| Science Education | 72 | 72 | 73 | 73 | 85 | 73 | 96 | 77 | 109 | 58 | 60 |
| Social Science Education | 11 | 19 | 19 | 9 | 10 | 14 | 12 | 26 | 15 | 9 | 40 |
| Speech Education | 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Technical Education | 15 | 25 | 35 | 21 | 30 | 20 | 24 | 32 | 18 | 27 | 20 |
| Trade \& Industrial Education | 18 | 17 | 11 | 24 | 24 | 13 | 12 | 16 | 14 | 14 | 12 |
| Teacher Ed./Spec. Acad. \& Voc., Other | 40 | 40 | 58 | 59 | 40 | 65 | 30 | 81 | 55 | 54 | 61 |
| OTHER EDUCATION | 1,066 | 806 | 775 | 749 | 821 | 784 | 684 | 624 | 624 | 591 | 656 |
| Education, General | 535 | 428 | 443 | 411 | 484 | 429 | 353 | 338 | 234 | 199 | 255 |
| Education, Other | 531 | 378 | 332 | 338 | 337 | 355 | 331 | 286 | 390 | 392 | 401 |
| PROFESSIONAL/OTHER FIELDS | 2,284 | 2,402 | 2,498 | 2,496 | 2,586 | 2,664 | 2,477 | 2,365 | 2,271 | 2,286 | 2,263 |
| BUSINESS AND MANAGEMENT | 1,036 | 1,163 | 1,248 | 1,281 | 1,283 | 1,327 | 1,276 | 1,242 | 1,169 | 1,107 | 1,071 |
| Accounting | 172 | 172 | 180 | 183 | 179 | 168 | 156 | 150 | 154 | 153 | 111 |
| Banking/Financial Support Services | 134 | 172 | 172 | 170 | 134 | 163 | 114 | 69 | 83 | 74 | 72 |
| Business Admin. \& Management | 277 | 204 | 241 | 324 | 319 | 340 | 393 | 425 | 347 | 316 | 325 |
| Business/Managerial Economics | 21 | 19 | 21 | 33 | 40 | 37 | 38 | 48 | 57 | 42 | 52 |
| International Business | 0 | 0 | 0 | 0 | 22 | 23 | 36 | 39 | 33 | 34 | 34 |
| Mgmt. Inf. Sys./Business Data Proc. | 0 | 72 | 103 | 102 | 117 | 111 | 94 | 100 | 86 | 83 | 85 |
| Marketing Mgmt. \& Research | 120 | 134 | 139 | 166 | 167 | 153 | 153 | 153 | 142 | 127 | 140 |
| Business Statistics | 10 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Operations Research | 46 | 58 | 67 | 63 | 54 | 59 | 64 | 45 | 57 | 52 | 61 |
| Organizational Behavior | 64 | 72 | 81 | 73 | 102 | 100 | 108 | 121 | 103 | 100 | 99 |
| Bus. Mgmt./Admin. Serv., General | 70 | 123 | 112 | 87 | 87 | 92 | 67 | 28 | 36 | 49 | 36 |
| Bus. Mgmt./Admin. Serv., Other | 122 | 132 | 132 | 80 | 62 | 81 | 53 | 64 | 71 | 77 | 56 |
| COMMUNICATIONS | 323 | 332 | 330 | 321 | 371 | 380 | 389 | 332 | 373 | 379 | 389 |
| Communications Research | 87 | 72 | 45 | 33 | 40 | 40 | 60 | 51 | 52 | 50 | 53 |
| Journalism | 21 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mass Communications | 0 | 68 | 85 | 117 | 156 | 121 | 137 | 117 | 142 | 153 | 153 |
| Radio and Television | 17 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Communication Theory | 0 | 25 | 47 | 41 | 45 | 53 | 37 | 40 | 48 | 47 | 39 |
| Communications, General | 86 | 70 | 76 | 69 | 68 | 77 | 81 | 74 | 62 | 69 | 78 |
| Communications, Other | 112 | 84 | 77 | 61 | 62 | 89 | 74 | 50 | 69 | 60 | 66 |
| OTHER PROFESSIONAL FIELDS | 858 | 836 | 880 | 867 | 891 | 931 | 773 | 772 | 720 | 772 | 797 |
| Architectural Environmental Design | 41 | 67 | 60 | 54 | 67 | 55 | 61 | 65 | 51 | 65 | 60 |
| Home Economics | 74 | 29 | 58 | 57 | 31 | 31 | 28 | 36 | 18 | 23 | 23 |
| Law | 34 | 23 | 20 | 29 | 33 | 37 | 26 | 27 | 31 | 37 | 41 |
| Library Science | 42 | 52 | 51 | 70 | 42 | 47 | 49 | 40 | 34 | 39 | 45 |
| Parks/Recreation/Leisure/Fitness | 0 | 0 | 0 | 44 | 37 | 54 | 29 | 24 | 38 | 29 | 45 |
| Public Administration | 88 | 107 | 108 | 117 | 135 | 128 | 103 | 95 | 104 | 119 | 102 |
| Social Work | 246 | 240 | 248 | 237 | 272 | 303 | 256 | 247 | 235 | 226 | 259 |
| Theology/Religious Education | 271 | 273 | 292 | 243 | 262 | 273 | 213 | 178 | 158 | 162 | 170 |
| Professional Fields, General | 3 | 3 | 1 | 1 | 1 | 1 | 2 | 4 | 0 | 9 | 3 |
| Professional Fields, Other | 59 | 42 | 42 | 15 | 11 | 2 | 6 | 56 | 51 | 63 | 49 |
| OTHER FIELDS | 67 | 71 | 40 | 27 | 41 | 26 | 39 | 19 | 9 | 28 | 1 |

NOTE: Dash (-) indicates that the field was not on the questionnaire's Specialties List that year. Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates.
${ }^{\text {a }}$ Includes 5 respondents with missing data for doctoral field.
${ }^{\mathrm{b}}$ Includes 7 respondents with missing data for doctoral field.
${ }^{\mathrm{c}}$ Includes 1 respondent with missing data for doctoral field.
${ }^{\text {d }}$ Includes 5 respondents with missing data for doctoral field.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

APPENDIX TABLE B-2a. Number of doctorate recipients, by sex, race/ethnicity, and citizenship, 1990-2000 (Total all doctorates)

|  | Year of Doctorate |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
| TOTAL ALL DOCTORATES ${ }^{\text {a }}$ | 36,067 | 37,534 | 38,890 | 39,800 | 41,034 | 41,742 | 42,413 | 42,545 | 42,634 | 41,060 | 41,368 |
| U.S. Citizen | 24,905 | 25,573 | 26,010 | 26,448 | 27,147 | 27,740 | 27,750 | 28,149 | 28,437 | 27,636 | 27,888 |
| Permanent Visa | 1,698 | 1,857 | 1,980 | 2,259 | 3,747 | 4,318 | 3,767 | 2,930 | 2,697 | 2,306 | 1,949 |
| Temporary Visa | 8,093 | 9,311 | 9,953 | 9,932 | 9,406 | 8,810 | 9,614 | 9,181 | 9,493 | 9,057 | 9,648 |
| Unknown Citizenship | 1,371 | 793 | 947 | 1,161 | 734 | 874 | 1,282 | 2,285 | 2,007 | 2,061 | 1,883 |
| Total Known Race/Ethnicity | 33,883 | 35,783 | 37,200 | 38,290 | 39,840 | 40,327 | 40,657 | 38,875 | 39,356 | 38,625 | 38,659 |
| U.S. Citizen | 24,531 | 25,087 | 25,658 | 26,216 | 26,894 | 27,433 | 27,402 | 27,051 | 27,512 | 27,190 | 27,300 |
| Permanent Visa | 1,637 | 1,796 | 1,906 | 2,225 | 3,699 | 4,274 | 3,734 | 2,867 | 2,610 | 2,266 | 1,889 |
| Temporary Visa | 7,558 | 8,789 | 9,536 | 9,675 | 9,115 | 8,545 | 9,371 | 8,839 | 9,086 | 8,797 | 9,354 |
| Unknown Citizenship | 157 | 111 | 100 | 174 | 132 | 75 | 150 | 118 | 148 | 372 | 116 |
| American Indian ${ }^{\text {b }}$ | 98 | 132 | 152 | 121 | 146 | 148 | 190 | 166 | 190 | 217 | 169 |
| U.S. Citizen | 97 | 130 | 149 | 120 | 143 | 148 | 187 | 166 | 189 | 217 | 169 |
| Permanent Visa ${ }^{\text {c }}$ | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Temporary Visa ${ }^{\text {c }}$ | 1 | 0 | 2 | 1 | 3 | 0 | 2 | 0 | 0 | 0 | 0 |
| Unknown Citizenship | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Asian ${ }^{\text {d }}$ | 6,293 | 7,528 | 8,291 | 8,674 | 9,369 | 9,708 | 9,830 | 9,008 | 8,580 | 8,025 | 8,110 |
| U.S. Citizen | 641 | 789 | 848 | 891 | 950 | 1,141 | 1,090 | 1,308 | 1,170 | 1,322 | 1,407 |
| Permanent Visa | 665 | 742 | 916 | 1,126 | 2,596 | 3,168 | 2,609 | 1,812 | 1,552 | 1,193 | 908 |
| Temporary Visa | 4,931 | 5,949 | 6,506 | 6,604 | 5,800 | 5,378 | 6,097 | 5,856 | 5,828 | 5,472 | 5,770 |
| Unknown Citizenship | 56 | 48 | 21 | 53 | 23 | 21 | 34 | 32 | 30 | 38 | 25 |
| Black | 1,354 | 1,466 | 1,434 | 1,615 | 1,683 | 1,823 | 1,836 | 1,774 | 1,913 | 2,071 | 2,123 |
| U.S. Citizen | 901 | 1,010 | 971 | 1,111 | 1,101 | 1,307 | 1,313 | 1,349 | 1,482 | 1,594 | 1,656 |
| Permanent Visa | 149 | 156 | 145 | 169 | 178 | 168 | 143 | 139 | 120 | 134 | 119 |
| Temporary Visa | 291 | 293 | 311 | 322 | 389 | 337 | 364 | 276 | 299 | 288 | 335 |
| Unknown Citizenship | 13 | 7 | 7 | 13 | 15 | 11 | 16 | 10 | 12 | 55 | 13 |
| Hispanic | 1,228 | 1,320 | 1,402 | 1,430 | 1,534 | 1,534 | 1,621 | 1,687 | 1,875 | 1,885 | 1,929 |
| U.S. Citizen | 721 | 732 | 778 | 833 | 884 | 912 | 947 | 1,055 | 1,203 | 1,151 | 1,157 |
| Permanent Visa | 116 | 136 | 131 | 139 | 146 | 142 | 156 | 136 | 121 | 139 | 122 |
| Temporary Visa | 386 | 446 | 482 | 454 | 502 | 472 | 512 | 484 | 542 | 560 | 644 |
| Unknown Citizenship | 5 | 6 | 11 | 4 | 2 | 8 | 6 | 12 | 9 | 35 | 6 |
| White | 24,910 | 25,337 | 25,921 | 26,450 | 27,108 | 27,114 | 27,180 | 26,240 | 26,798 | 26,427 | 26,328 |
| U.S. Citizen | 22,171 | 22,426 | 22,912 | 23,261 | 23,816 | 23,925 | 23,865 | 23,173 | 23,468 | 22,906 | 22,911 |
| Permanent Visa | 707 | 760 | 714 | 791 | 779 | 796 | 825 | 780 | 817 | 800 | 740 |
| Temporary Visa | 1,949 | 2,101 | 2,235 | 2,294 | 2,421 | 2,358 | 2,396 | 2,223 | 2,417 | 2,477 | 2,605 |
| Unknown Citizenship | 83 | 50 | 60 | 104 | 92 | 35 | 94 | 64 | 96 | 244 | 72 |
| Unknown Race/Ethnicity | 2,184 | 1,751 | 1,690 | 1,510 | 1,194 | 1,415 | 1,756 | 3,670 | 3,278 | 2,435 | 2,709 |
| U.S. Citizen | 374 | 486 | 352 | 232 | 253 | 307 | 348 | 1,098 | 925 | 446 | 588 |
| Permanent Visa | 61 | 61 | 74 | 34 | 48 | 44 | 33 | 63 | 87 | 40 | 60 |
| Temporary Visa | 535 | 522 | 417 | 257 | 291 | 265 | 243 | 342 | 407 | 260 | 294 |
| Unknown Citizenship | 1,214 | 682 | 847 | 987 | 602 | 799 | 1,132 | 2,167 | 1,859 | 1,689 | 1,767 |

${ }^{a}$ Total includes individuals who did not report sex.
${ }^{\mathrm{b}}$ Includes Alaskan Native.
${ }^{\text {c }}$ In most cases, non-U.S. American Indians are citizens of Canada or of a Latin American country.
d Includes Pacific Islander.
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

APPENDIX TABLE B-2b. Number of doctorate recipients, by sex, race/ethnicity, and citizenship, 1990-2000 (Total men)

|  | Year of Doctorate |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
| TOTAL MEN | 22,960 | 23,525 | 24,235 | 24,384 | 25,059 | 25,158 | 25,273 | 24,939 | 24,634 | 23,418 | 23,173 |
| U.S. Citizen | 14,165 | 14,385 | 14,518 | 14,512 | 14,732 | 14,964 | 14,707 | 15,041 | 14,869 | 14,372 | 14,107 |
| Permanent Visa | 1,189 | 1,223 | 1,290 | 1,468 | 2,636 | 2,908 | 2,485 | 1,834 | 1,662 | 1,378 | 1,137 |
| Temporary Visa | 6,632 | 7,506 | 7,946 | 7,835 | 7,306 | 6,841 | 7,389 | 6,963 | 7,005 | 6,630 | 6,839 |
| Unknown Citizenship | 974 | 411 | 481 | 569 | 385 | 445 | 692 | 1,101 | 1,098 | 1,038 | 1,090 |
| Total Known Race/Ethnicity | 21,342 | 22,356 | 23,168 | 23,534 | 24,324 | 24,296 | 24,247 | 22,993 | 22,715 | 22,041 | 21,557 |
| U.S. Citizen | 13,899 | 14,032 | 14,262 | 14,343 | 14,564 | 14,749 | 14,476 | 14,426 | 14,323 | 14,088 | 13,766 |
| Permanent Visa | 1,149 | 1,177 | 1,236 | 1,444 | 2,602 | 2,882 | 2,463 | 1,795 | 1,603 | 1,350 | 1,098 |
| Temporary Visa | 6,175 | 7,073 | 7,606 | 7,641 | 7,093 | 6,629 | 7,208 | 6,706 | 6,712 | 6,444 | 6,634 |
| Unknown Citizenship | 119 | 74 | 64 | 106 | 65 | 36 | 100 | 66 | 77 | 159 | 59 |
| American Indian ${ }^{\text {a }}$ | 52 | 74 | 82 | 61 | 74 | 80 | 104 | 78 | 104 | 97 | 76 |
| U.S. Citizen | 52 | 74 | 82 | 60 | 71 | 80 | 103 | 78 | 104 | 97 | 76 |
| Permanent Visa ${ }^{\text {b }}$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Temporary Visa ${ }^{\text {b }}$ | 0 | 0 | 0 | 1 | 3 | 0 | 1 | 0 | 0 | 0 | 0 |
| Unknown Citizenship | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Asian ${ }^{\text {c }}$ | 5,030 | 5,872 | 6,418 | 6,605 | 7,061 | 7,102 | 7,209 | 6,421 | 6,032 | 5,542 | 5,375 |
| U.S. Citizen | 427 | 482 | 531 | 552 | 590 | 667 | 615 | 747 | 647 | 772 | 761 |
| Permanent Visa | 481 | 489 | 604 | 732 | 1,877 | 2,198 | 1,787 | 1,142 | 985 | 712 | 504 |
| Temporary Visa | 4,077 | 4,865 | 5,265 | 5,282 | 4,576 | 4,222 | 4,782 | 4,513 | 4,384 | 4,031 | 4,093 |
| Unknown Citizenship | 45 | 36 | 18 | 39 | 18 | 15 | 25 | 19 | 16 | 27 | 17 |
| Black | 733 | 788 | 771 | 840 | 889 | 881 | 933 | 863 | 824 | 920 | 889 |
| U.S. Citizen | 351 | 421 | 396 | 441 | 411 | 490 | 534 | 533 | 526 | 602 | 568 |
| Permanent Visa | 128 | 131 | 123 | 138 | 142 | 125 | 107 | 108 | 87 | 92 | 82 |
| Temporary Visa | 243 | 232 | 246 | 251 | 329 | 261 | 286 | 213 | 204 | 211 | 233 |
| Unknown Citizenship | 11 | 4 | 6 | 10 | 7 | 5 | 6 | 9 | 7 | 15 | 6 |
| Hispanic | 760 | 807 | 860 | 874 | 866 | 909 | 927 | 978 | 1,059 | 981 | 1,057 |
| U.S. Citizen | 380 | 371 | 410 | 423 | 438 | 458 | 473 | 540 | 610 | 499 | 540 |
| Permanent Visa | 69 | 88 | 72 | 94 | 80 | 79 | 87 | 82 | 71 | 68 | 59 |
| Temporary Visa | 309 | 344 | 371 | 356 | 346 | 369 | 363 | 350 | 375 | 404 | 456 |
| Unknown Citizenship | 2 | 4 | 7 | 1 | 2 | 3 | 4 | 6 | 3 | 10 | 2 |
| White | 14,767 | 14,815 | 15,037 | 15,154 | 15,434 | 15,324 | 15,074 | 14,653 | 14,696 | 14,501 | 14,160 |
| U.S. Citizen | 12,689 | 12,684 | 12,843 | 12,867 | 13,054 | 13,054 | 12,751 | 12,528 | 12,436 | 12,118 | 11,821 |
| Permanent Visa | 471 | 469 | 437 | 480 | 503 | 480 | 482 | 463 | 460 | 478 | 453 |
| Temporary Visa | 1,546 | 1,632 | 1,724 | 1,751 | 1,839 | 1,777 | 1,776 | 1,630 | 1,749 | 1,798 | 1,852 |
| Unknown Citizenship | 61 | 30 | 33 | 56 | 38 | 13 | 65 | 32 | 51 | 107 | 34 |
| Unknown Race/Ethnicity | 1,618 | 1,169 | 1,067 | 850 | 735 | 862 | 1,026 | 1,946 | 1,919 | 1,377 | 1,616 |
| U.S. Citizen | 266 | 353 | 256 | 169 | 168 | 215 | 231 | 615 | 546 | 284 | 341 |
| Permanent Visa | 40 | 46 | 54 | 24 | 34 | 26 | 22 | 39 | 59 | 28 | 39 |
| Temporary Visa | 457 | 433 | 340 | 194 | 213 | 212 | 181 | 257 | 293 | 186 | 205 |
| Unknown Citizenship | 855 | 337 | 417 | 463 | 320 | 409 | 592 | 1,035 | 1,021 | 879 | 1,031 |

[^23]Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

APPENDIX TABLE B-2c. Number of doctorate recipients, by sex, race/ethnicity, and citizenship, 1990-2000 (Total women)

|  | Year of Doctorate |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
| TOTAL WOMEN | 13,106 | 13,873 | 14,436 | 15,121 | 15,820 | 16,414 | 16,944 | 17,246 | 17,834 | 17,464 | 18,121 |
| U.S. Citizen | 10,740 | 11,185 | 11,491 | 11,931 | 12,412 | 12,774 | 13,043 | 13,074 | 13,554 | 13,264 | 13,778 |
| Permanent Visa | 508 | 633 | 687 | 788 | 1,110 | 1,409 | 1,282 | 1,095 | 1,019 | 928 | 810 |
| Temporary Visa | 1,461 | 1,794 | 1,990 | 2,069 | 2,077 | 1,952 | 2,214 | 2,203 | 2,468 | 2,423 | 2,808 |
| Unknown Citizenship | 397 | 261 | 268 | 333 | 221 | 279 | 405 | 874 | 793 | 849 | 725 |
| Total Known Race/Ethnicity | 12,540 | 13,417 | 14,019 | 14,737 | 15,501 | 16,023 | 16,405 | 15,869 | 16,616 | 16,583 | 17,101 |
| U.S. Citizen | 10,632 | 11,053 | 11,396 | 11,871 | 12,327 | 12,684 | 12,926 | 12,622 | 13,186 | 13,102 | 13,534 |
| Permanent Visa | 487 | 619 | 669 | 779 | 1,096 | 1,391 | 1,271 | 1,071 | 999 | 916 | 791 |
| Temporary Visa | 1,383 | 1,708 | 1,920 | 2,021 | 2,014 | 1,910 | 2,159 | 2,124 | 2,361 | 2,352 | 2,720 |
| Unknown Citizenship | 38 | 37 | 34 | 66 | 64 | 38 | 49 | 52 | 70 | 213 | 56 |
| American Indian ${ }^{\text {a }}$ | 46 | 58 | 70 | 60 | 72 | 68 | 86 | 88 | 86 | 120 | 93 |
| U.S. Citizen | 45 | 56 | 67 | 60 | 72 | 68 | 84 | 88 | 85 | 120 | 93 |
| Permanent Visa ${ }^{\text {b }}$ | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Temporary Visa ${ }^{\text {b }}$ | 1 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Unknown Citizenship | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Asian ${ }^{\text {c }}$ | 1,262 | 1,648 | 1,862 | 2,055 | 2,298 | 2,599 | 2,616 | 2,580 | 2,532 | 2,482 | 2,735 |
| U.S. Citizen | 214 | 306 | 317 | 338 | 359 | 474 | 475 | 560 | 522 | 550 | 646 |
| Permanent Visa | 183 | 253 | 311 | 392 | 718 | 969 | 822 | 670 | 560 | 481 | 404 |
| Temporary Visa | 854 | 1,077 | 1,231 | 1,312 | 1,218 | 1,150 | 1,311 | 1,337 | 1,437 | 1,440 | 1,677 |
| Unknown Citizenship | 11 | 12 | 3 | 13 | 3 | 6 | 8 | 13 | 13 | 11 | 8 |
| Black | 621 | 678 | 663 | 773 | 792 | 942 | 903 | 911 | 1,087 | 1,151 | 1,234 |
| U.S. Citizen | 550 | 589 | 575 | 670 | 690 | 817 | 779 | 816 | 956 | 992 | 1,088 |
| Permanent Visa | 21 | 25 | 22 | 31 | 36 | 43 | 36 | 31 | 32 | 42 | 37 |
| Temporary Visa | 48 | 61 | 65 | 70 | 59 | 76 | 78 | 63 | 94 | 77 | 102 |
| Unknown Citizenship | 2 | 3 | 1 | 2 | 7 | 6 | 10 | 1 | 5 | 40 | 7 |
| Hispanic | 468 | 513 | 542 | 555 | 668 | 625 | 694 | 709 | 814 | 904 | 872 |
| U.S. Citizen | 341 | 361 | 368 | 410 | 446 | 454 | 474 | 515 | 592 | 652 | 617 |
| Permanent Visa | 47 | 48 | 59 | 45 | 66 | 63 | 69 | 54 | 50 | 71 | 63 |
| Temporary Visa | 77 | 102 | 111 | 97 | 156 | 103 | 149 | 134 | 166 | 156 | 188 |
| Unknown Citizenship | 3 | 2 | 4 | 3 | 0 | 5 | 2 | 6 | 6 | 25 | 4 |
| White | 10,143 | 10,520 | 10,882 | 11,294 | 11,671 | 11,789 | 12,106 | 11,581 | 12,097 | 11,926 | 12,167 |
| U.S. Citizen | 9,482 | 9,741 | 10,069 | 10,393 | 10,760 | 10,871 | 11,114 | 10,643 | 11,031 | 10,788 | 11,090 |
| Permanent Visa | 236 | 291 | 277 | 311 | 276 | 316 | 343 | 316 | 357 | 322 | 287 |
| Temporary Visa | 403 | 468 | 511 | 542 | 581 | 581 | 620 | 590 | 664 | 679 | 753 |
| Unknown Citizenship | 22 | 20 | 25 | 48 | 54 | 21 | 29 | 32 | 45 | 137 | 37 |
| Unknown Race/Ethnicity | 566 | 456 | 417 | 384 | 319 | 391 | 539 | 1,377 | 1,218 | 881 | 1,020 |
| U.S. Citizen | 108 | 132 | 95 | 60 | 85 | 90 | 117 | 452 | 368 | 162 | 244 |
| Permanent Visa | 21 | 14 | 18 | 9 | 14 | 18 | 11 | 24 | 20 | 12 | 19 |
| Temporary Visa | 78 | 86 | 70 | 48 | 63 | 42 | 55 | 79 | 107 | 71 | 88 |
| Unknown Citizenship | 359 | 224 | 234 | 267 | 157 | 241 | 356 | 822 | 723 | 636 | 669 |

[^24]
## APPENDIX C: Technical Notes

## I. Survey Response Rates

Appendix Table C-1. Survey Response Rates ${ }^{\text {a }}$

| Year | Self-Report <br> Rate | Year | Self-Report <br> Rate |
| :---: | :---: | :---: | :---: |
| 1967 | 97.3 |  |  |
| 1968 | 97.6 | 1984 | 95.1 |
| 1969 | 96.6 | 1985 | 94.8 |
| 1970 | 98.1 | 1986 | 93.5 |
| 1971 | 97.5 | 1987 | 93.1 |
| 1972 | 97.3 | 1988 | 92.9 |
| 1973 | 97.5 | 1989 | 92.3 |
| 1974 | 94.2 | 1990 | 93.6 |
| 1975 | 97.3 | 1991 | 94.6 |
| 1976 | 97.2 | 1992 | 95.1 |
| 1977 | 96.6 | 1993 | 94.7 |
| 1978 | 96.3 | 1994 | 94.6 |
| 1979 | 96.4 | 1995 | 94.1 |
| 1980 | 96.2 | 1996 | 92.9 |
| 1981 | 95.7 | 1997 | 91.4 |
| 1982 | 95.3 | 1998 | 91.9 |
| 1983 | 95.5 | 1999 | 91.9 |
|  |  | 2000 | 91.9 |

[^25]As shown in the table above, 91.9 percent of 2000 U.S. research doctorate recipients completed survey forms. This percentage is what has been referred to as the "self-report" rate. The remaining doctorate recipients have either "skeletal" records containing only PHDINST, PHDFY, PHDCY, SEX, PHDMONTH, (and in private identifier files, Name) or "institution provided" records including the skeletal information above as well as information provided by the institution in "missing information rosters ( MIRs)" where available.

It should be noted that the sex variable was not always available, even for survey respondents. Every effort was made to obtain this information for as many respondents as possible, but for a small percentage, this could not be done with confidence. Thus, you will notice that there are missing data for many of the tabulations involving sex in this year 's report. Prior to 1997, whenever sex was missing, the data were assigned to "male." In 1997, it was decided to discontinue this practice. The tabulations involving sex for 1997 through 2000 exclude missing cases except where noted otherwise.

Wherever possible this report includes data from all Ph.D. records whether complete or skeletal; thus the reported total number of Ph.D. recipients for $2000(41,368)$ includes both respondents and non-respondents. It should also be noted that, in keeping with the practice of earlier data collection cycles, counts for previous years were corrected by the addition of data from surveys received after the close of data collection for a given year.

## A Comparison of Self-Reported and Institution-Supplied Data

So far, self-report rates have been discussed at the institution level. But is there a significant difference between respondents who complete questionnaires and those who are nonrespondents to the survey? One way to check is to compare the profiles of critical item data provided on survey forms with similar data ascertained from institution-supplied data provided for nonrespondents. Table C-2 compares these data on eight critical items. The table presents two types of data: the percentage of missing data for each critical item, by type of response; and the percentage-response breakdown for non-missing data for each critical item.

| Critical item (variable name) | Self-report (SELF) | Institutionprovided (INST) | Difference <br> (SELF- <br> INST) |
| :---: | :---: | :---: | :---: |
| BIRTHYR* |  |  |  |
| Missing data | . 86 | 11.2 |  |
| Before 1970 | 74.3 | 81.3 | -7.0 |
| 1970 and later | 25.7 | 18.7 | -7.0 |
| SEX |  |  |  |
| Missing data | . 01 | . 38 |  |
| Male | 56.1 | 53.4 | 2.7 |
| Female | 43.9 | 46.6 | -2.7 |
| CITIZ* |  |  |  |
| Missing data | . 22 | 17.5 |  |
| U.S. citizen | 70.7 | 66.7 | 3.0 |
| Permanent | 4.9 | 5.4 | -. 5 |
| Temporary | 24.3 | 27.9 | -3.6 |
| CNTRYCIT |  |  |  |
| Missing data | . 81 | 20.2 |  |
| U.S. | 71.2 | 68.9 | 2.3 |
| Non-U.S. | 28.8 | 31.1 | -2.3 |
| RACE* (U.S. citizens \& permanent residents only) |  |  |  |
| Missing data | . 68 | 12.7 |  |
| American Indian | . 58 | . 52 | . 06 |
| Asian | 7.8 | 8.9 | -1.1 |
| Black | 5.9 | 10.0 | -4.1 |
| Hispanic | 4.3 | 4.9 | -0.6 |
| White | 81.0 | 74.3 | 6.7 |
| Other | . 88 | 1.4 | -0.5 |
| BAINST* |  |  |  |
| Missing data | 2.7 | 83.8 |  |
| U.S. | 73.2 | 65.8 | 7.4 |
| Non-U.S. | 26.8 | 34.2 | -7.4 |
| BAYEAR |  |  |  |
| Missing data | 3.1 | 90.9 |  |
| Before 1992 | 67.7 | 68.1 | -. 4 |
| 1992-after | 32.3 | 31.9 | . 4 |
| PDLOC* |  |  |  |
| Missing data | 1.9 | 57.0 |  |
| U.S. | 89.9 | 84.5 | 5.4 |
| Non-U.S. | 10.1 | 15.5 | -5.4 |

*Significant at .05 level, chi-square test
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates
Table C-2 presents the results of a chi-square test comparing self-reported cases and nonresponding cases where institutions supplied data on critical items. In general, it can be noted that the profile of nonrespondents was significantly different from the profile of respondents in five of the eight critical item variables. Nonrespondents appear to be slightly older than respondents. Nonrespondents are more likely to be non-U.S. citizens, non-white, graduates of non-U.S. bachelors' institutions and pursuing postdoctoral studies or employment outside the U.S. These findings should be considered suggestive only. The larger amount of missing data noted on BAINST, BAYEAR and PDLOC cautions against definitive conclusions.

## II. Item Response Rates

The table on the following pages shows the response rates for each item in the Survey of Earned Doctorates for 1990 through 2000. The numbers and percentages shown in the tables and figures in the body of the summary report are based only on the number of research doctorate recipients who responded to the applicable survey items. For cross-tabulations, the response rate for a given tabulation will be no greater than the lowest response rate for the items involved in the tabulation.

For additional technical information on the Survey of Earned Doctorates, please contact
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## II. ITEM RESPONSE RATES, 1990-2000

## Appendix Table C-3. Item response rates, 1990-2000

| Variable <br> Name | Field | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | $\begin{gathered} 1999 \\ \text { (Prelim) } \end{gathered}$ | $\begin{gathered} 1999 \\ \text { (Adjusted) } \end{gathered}$ | $\begin{gathered} 2000 \\ \text { (Prelim) } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PHDFICE | Ph.D. FICE Code | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | NA | NA | NA | NA | NA |
| RACE ${ }^{\text {a }}$ | Race/Ethnic Group (Recoded) | 93.9 | 95.3 | 95.6 | 96.2 | 97.6 | 97.1 | 96.4 | 93.0 | 93.6 | 94.8 | 95.0 | 94.5 |
| PHDENTRY | First Grad. Year in Ph.D.Instn. | NA | NA | NA | 86.9 | 86.7 | 86.5 | 85.5 | 79.0 | 83.6 | 85.7 | 85.9 | 84.8 |
| SRCE1ED ${ }^{\text {b }}$ | Primary Source of Support (Edited) | 78.1 | 77.6 | 69.7 | 66.2 | 72.4 | 74.9 | 87.9 | 87.8 | 88.5 | 89.8 | 89.9 | 90.0 |
| PDWK1ED ${ }^{\text {c }}$ | Primary Work Activity (Edited) | $\begin{array}{r} 56.2 \\ (83.8) \end{array}$ | $\begin{array}{r} 55.9 \\ (83.8) \end{array}$ | $\begin{array}{r} 55.7 \\ (83.5) \end{array}$ | $\begin{array}{r} 54.7 \\ (83.3) \end{array}$ | $\begin{array}{r} 56.3 \\ (86.1) \end{array}$ | $\begin{array}{r} 56.6 \\ (86.8) \end{array}$ | $\begin{array}{r} 60.8 \\ (93.3) \end{array}$ | $\begin{array}{r} 60.3 \\ (92.8) \end{array}$ | $\begin{array}{r} 61.1 \\ (93.0) \end{array}$ | $\begin{array}{r} 60.0 \\ (94.9) \end{array}$ | $\begin{array}{r} 60.1 \\ (94.9) \end{array}$ | $\begin{array}{r} 62.0 \\ (95.0) \end{array}$ |
| PDWK2ED ${ }^{\text {c }}$ | Secondary Work Activity (Edited) | $\begin{array}{r} 39.5 \\ (58.9) \end{array}$ | $\begin{array}{r} 39.5 \\ (59.3) \end{array}$ | $\begin{array}{r} 37.4 \\ (56.0) \end{array}$ | $\begin{array}{r} 36.7 \\ (55.8) \end{array}$ | $\begin{array}{r} 38.2 \\ (58.4) \end{array}$ | $\begin{array}{r} 38.4 \\ (58.8) \end{array}$ | $\begin{array}{r} 48.5 \\ (74.4) \end{array}$ | $\begin{array}{r} 51.7 \\ (79.6) \end{array}$ | $\begin{array}{r} 52.2 \\ (79.7) \end{array}$ | $\begin{array}{r} 49.8 \\ (78.8) \end{array}$ | $\begin{array}{r} 49.9 \\ (78.8) \end{array}$ | $\begin{array}{r} 51.5 \\ (78.7) \end{array}$ |
| EDFATHER | Father's Education | 90.8 | 92.3 | 93.1 | 92.7 | 92.7 | 92.3 | 91.4 | 89.4 | 89.8 | 90.3 | 90.4 | 90.4 |
| EDMOTHER | Mother's Education | 90.5 | 92.2 | 93.0 | 92.6 | 92.5 | 92.1 | 91.6 | 89.6 | 89.9 | 90.5 | 90.7 | 90.7 |
| BIRTHYR | Year of Birth | 96.6 | 98.2 | 97.7 | 97.3 | 98.2 | 97.5 | 96.8 | 92.8 | 92.7 | 94.9 | 95.0 | 95.0 |
| BIRTHPL | Place of Birth | 92.1 | 94.1 | 95.1 | 94.9 | 94.9 | 94.5 | 93.0 | 90.5 | 90.8 | 91.0 | 91.1 | 91.0 |
| SEX | Sex | 100.0 | 99.6 | 99.4 | 99.2 | 99.6 | 99.6 | 99.5 | 99.2 | 99.6 | 99.5 | 99.6 | 99.8 |
| MARITAL | Marital Status | 91.7 | 91.5 | 92.0 | 91.6 | 91.5 | 91.0 | 91.7 | 89.2 | 90.2 | 90.6 | 90.7 | 90.7 |
| DEPENDS | Number of Dependents | 90.0 | 89.5 | 89.8 | 89.8 | 89.7 | 89.4 | 89.5 | 88.2 | 88.7 | 88.9 | 89.1 | 89.0 |
| CITIZ | Citizenship | 96.2 | 97.9 | 97.6 | 97.1 | 98.2 | 97.9 | 97.0 | 94.6 | 95.3 | 94.8 | 95.0 | 95.4 |
| CNTRYCIT ${ }^{\text {c }}$ | Country of Citizenship | $\begin{array}{r} 26.4 \\ (97.2) \end{array}$ | $\begin{array}{r} 29.2 \\ (98.0) \end{array}$ | $\begin{array}{r} 30.3 \\ (98.5) \end{array}$ | $\begin{array}{r} 30.2 \\ (98.6) \end{array}$ | $\begin{array}{r} 31.8 \\ (99.3) \end{array}$ | $\begin{array}{r} 31.3 \\ (99.4) \end{array}$ | $\begin{array}{r} 31.3 \\ (98.5) \end{array}$ | $\begin{array}{r} 26.5 \\ (95.6) \end{array}$ | $\begin{array}{r} 26.9 \\ (94.2) \end{array}$ | $\begin{array}{r} 26.6 \\ (96.1) \end{array}$ | $\begin{array}{r} 26.6 \\ (96.1) \end{array}$ | $\begin{array}{r} 27.4 \\ (97.6) \end{array}$ |

NOTE: NA = not available.

The percentage represents the race/ethnic groups conventionally reported by the Doctorate Data Project; multiple and "other" races are excluded
${ }^{\mathrm{b}}$ As of FY 1996, the percentage includes recipients who said they had no primary source of support
${ }^{c}$ The percentages on the first line are based on the total doctoral cohort for a fiscal yeaतthe percentages on the second line (enclosed in parenthesesдre based on the number of non-
U.S. citizens in that year.

## Appendix Table C-3. Item response rates, 1990-2000 (continued)

| Variable Name | Field | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | $\begin{gathered} 1999 \\ \text { (Prelim) } \\ \hline \end{gathered}$ | $\begin{gathered} 1999 \\ \text { (Adjusted) } \\ \hline \end{gathered}$ | $\begin{gathered} 2000 \\ \text { (Prelim) } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| RACERAW ${ }^{\text {d }}$ | Race/Ethnic Group | 93.9 | 95.3 | 95.6 | 96.2 | 97.7 | 97.2 | 96.5 | 93.0 | 93.6 | 94.8 | 95.0 | 94.5 |
| HANDICAP ${ }^{\text {e }}$ | Handicap Indic. (incl. "No" from 1989-present) | 92.4 | 93.4 | 93.9 | 93.6 | 93.7 | 93.3 | 91.8 | 90.0 | 90.0 | 90.2 | 90.3 | 90.4 |
| HSPLACE | Place of High School | 90.8 | 93.5 | 94.5 | 94.0 | 93.9 | 93.5 | 92.2 | 90.1 | 90.8 | 91.2 | 91.3 | 91.4 |
| HSYEAR | Year of H.S. Graduation | 90.5 | 90.9 | 92.1 | 92.1 | 91.7 | 91.6 | 90.5 | 89.0 | 94.0 | 90.3 | 92.9 | 90.7 |
| JRCOLL | Jr. Coll. Indic. (incl. "No") | 90.8 | 92.0 | 92.7 | 92.9 | 92.5 | 92.4 | 90.6 | 91.4 | 91.8 | 91.6 | 91.8 | 91.8 |
| REGNURSE ${ }^{\dagger}$ | Registered Nurse | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| CEPLACE | Place of College Entrance | 90.8 | 91.8 | 92.7 | 92.8 | 92.3 | 92.1 | 90.6 | 82.5 | 90.4 | 90.4 | 90.6 | 89.5 |
| CEYEAR | Year of College Entrance | 90.1 | 91.3 | 92.2 | 91.7 | 91.5 | 91.3 | 89.1 | 82.6 | 88.7 | 88.9 | 89.0 | 86.9 |
| BAINST | Baccalaureate Institution | 95.7 | 96.5 | 96.4 | 96.3 | 96.6 | 95.8 | 94.9 | 89.0 | 90.6 | 91.8 | 91.9 | 90.5 |
| BAFIELD | Field of Baccalaureate | 91.0 | 92.3 | 92.4 | 91.9 | 91.6 | 90.9 | 89.3 | 82.7 | 84.2 | 84.3 | 84.5 | 86.2 |
| BAYEAR | Year of Baccalaureate | 95.0 | 95.5 | 96.0 | 95.7 | 96.2 | 95.5 | 94.7 | 88.1 | 90.1 | 91.6 | 91.7 | 89.8 |
| BANONE ${ }^{\text {g }}$ | No Baccalaureate/Master's | 1.1 | 1.1 | 0.9 | $8.6{ }^{\text {d }}$ | $9.1{ }^{\text {d }}$ | $9.7{ }^{\text {d }}$ | $11.4{ }^{\text {d }}$ | $6.9{ }^{\text {d }}$ | $8.1{ }^{\text {d }}$ | $8.0^{\text {d }}$ | 8.0 | 2.7 |
| GEYEAR | Year of Graduate Entrance | 86.6 | 89.4 | 89.5 | 88.6 | 88.2 | 87.4 | 85.7 | 77.3 | 81.3 | 84.6 | 84.8 | 83.2 |
| MAINST | Master's Institution | 78.2 | 78.4 | 79.0 | 78.6 | 78.9 | 78.0 | 77.2 | 72.5 | 73.0 | 72.9 | 73.0 | 73.1 |
| MAFIELD | Field of Master's | 75.5 | 76.3 | 77.0 | 76.1 | 76.1 | 75.3 | 74.6 | 68.7 | 70.4 | 70.6 | 70.7 | 70.8 |
| MAYEAR | Year of Master's | 76.7 | 77.1 | 77.7 | 77.0 | 77.1 | 76.3 | 75.5 | 71.2 | 72.7 | 71.8 | 72.0 | 72.1 |

NOTE: $N A=$ not available.
${ }^{\mathrm{d}}$ The percentage represents the race/ethnic groups conventionally reported by the Doctorate Data Project; multiple and "other" races are excluded.
${ }^{\text {e }}$ The percentages from 1985-1988 represent the numbers of doctorate recipients with handicapsBeginning in 1989, the response rates include doctorate recipients who reported "no" handicap. Note: The definition of "handicapped" was much more restrictive in 1990 and 1991.
${ }^{\text {' Because }}$ this field is not applicable to all doctorate recipients, the response rate will always be under $100 \%$.
${ }^{9}$ Because this field is not applicable to all doctorate recipients, the response rate will always be under 100\%iote: "No Baccalaureate/Master's" represents only "no baccalaureate" from 1983 to 1992 Beginning in 1993, it indicates that the Ph.D. held no baccalaureate and/or master's degree.

## Appendix Table C-3. Item response rates, 1990-2000 (continued)

| Variable <br> Name | Field | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | $\begin{gathered} 1999 \\ \text { (Prelim) } \end{gathered}$ | $\begin{gathered} 1999 \\ \text { (Adjusted) } \\ \hline \end{gathered}$ | $\begin{gathered} 2000 \\ (\text { Prelim }) \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PROFDEG ${ }^{\text {n }}$ | Type of Professional Doctorate | 1.3 | 1.6 | 1.6 | 1.6 | 1.7 | 1.8 | 1.9 | 1.9 | 1.2 | 2.0 | 2.0 | 2.2 |
| PROFYEAR ${ }^{\text {n }}$ | Year of Professional Doctorate | 1.3 | 1.6 | 1.5 | 1.6 | 1.7 | 1.8 | 1.9 | 1.8 | 2.8 | 2.8 | 2.8 | 2.2 |
| PHDINST | Doctorate Institution | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| PHDFIELD | Field of Doctorate | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| PHDCY | Calendar Year of Doctorate | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| PHDMONTH | Month of Doctorate | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| PHDFY | Fiscal Year of Doctorate | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| PHDTYPE1 | Type of Doctorate | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| PHDTYPE2 ${ }^{\text {n }}$ | Applied Research Doctorate | 2.6 | 2.3 | 2.4 | 2.4 | 2.7 | 2.5 | 2.2 | 1.0 | 1.0 | 1.4 | 1.4 | 1.4 |
| TOCEBA ${ }^{\text {h }}$ | Time Out CE-BA | 88.5 | 89.7 | 90.5 | 89.7 | 89.7 | 88.9 | 86.8 | 82.7 | 82.9 | 83.8 | 83.9 | 84.3 |
| TOBAGE ${ }^{\text {n }}$ | Time Out BA-GE | 86.6 | 89.5 | 89.6 | 88.6 | 88.2 | 87.4 | 85.7 | 77.3 | 81.3 | 84.6 | 84.7 | 83.2 |
| TOGEMA ${ }^{\text {n }}$ | Time Out GE-MA | 72.2 | 73.3 | 74.0 | 73.1 | 73.1 | 72.0 | 70.5 | 61.7 | 63.9 | 66.2 | 66.3 | 65.6 |
| TOMAPHD ${ }^{\text {n }}$ | Time Out MA-Ph.D. | 65.2 | 69.9 | 71.1 | 69.9 | 70.0 | 69.0 | 68.2 | 68.0 | 65.3 | 66.2 | 66.4 | 65.2 |
| TOGEPHD | Time Out GE-Ph.D. | 77.4 | 84.0 | 84.5 | 83.1 | 82.5 | 81.8 | 80.2 | 75.9 | 74.9 | 79.4 | 79.5 | 77.5 |
| TICEPHD | Time In CE-Ph.D. | 76.7 | 83.4 | 84.3 | 83.0 | 82.9 | 82.4 | 80.9 | 75.7 | 78.3 | 79.6 | 79.7 | 78.6 |
| YEARSFT | Full-time Enrollment | 83.1 | 73.9 | 75.7 | 75.7 | 75.2 | 74.5 | 77.1 | 82.6 | 89.7 | 90.2 | 90.3 | 90.4 |
| YEARSPT | Part-time Enrollment | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| YEARSOUT | Not Enrolled | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| PHDDISS ${ }^{\text { }}$ | Field of Dissertation | NA | NA | $65.0{ }^{\text {b }}$ | 92.7 | 93.3 | 92.4 | 92.1 | 89.1 | 90.1 | 90.8 | 90.9 | 91.1 |
| SRCEPRIM ${ }^{\text {j }}$ | Primary Source of Support | 75.8 | 77.7 | 69.7 | 66.1 | 72.4 | 74.9 | $87.9{ }^{\text {c }}$ | 87.8 | 88.6 | 89.8 | 89.9 | 90.0 |
| DEBTIND | Debt Indicator (incl. "No") | 92.2 | 93.1 | 93.3 | 92.8 | 92.8 | 92.4 | 91.1 | NA | NA | NA | NA | NA |
| PRESTAT | Predoctoral Status | 92.4 | 93.5 | 93.5 | 93.1 | 93.0 | 92.6 | 91.8 | 88.2 | 90.0 | 90.6 | 90.8 | 91.0 |
| PDOCSTAT | Postdoctoral Status | 90.7 | 91.6 | 92.1 | 91.8 | 91.7 | 91.0 | 91.0 | 88.9 | 89.6 | 90.3 | 90.4 | 90.8 |
| PDOCPLAN | Postdoctoral Plans | 91.3 | 92.1 | 92.5 | 92.4 | 92.4 | 91.9 | 91.2 | 87.0 | 87.9 | 89.1 | 89.3 | 90.3 |

[^26]
## Appendix Table C-3. Item response rates, 1990-2000 (continued)

| Variable <br> Name | Field | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | $\begin{gathered} 1999 \\ \text { (Prelim) } \\ \hline \end{gathered}$ | $\begin{gathered} 1999 \\ \text { (Adjusted) } \\ \hline \end{gathered}$ | $\begin{gathered} 2000 \\ \text { (Prelim) } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PDREASON | Reason for Postdoctoral Appointment | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| PDSTDFLD ${ }^{k}$ | Postdoctoral Study Field | $\begin{array}{r} 23.2 \\ (95.2) \end{array}$ | $\begin{array}{r} 24.4 \\ (95.1) \end{array}$ | $\begin{array}{r} 24.3 \\ (93.4) \end{array}$ | $\begin{array}{r} 25.1 \\ (94.0) \end{array}$ | $\begin{array}{r} 25.3 \\ (93.8) \end{array}$ | $\begin{array}{r} 25.0 \\ (93.9) \end{array}$ | $\begin{array}{r} 25.4 \\ (97.4) \end{array}$ | $\begin{array}{r} 25.6 \\ (99.0) \end{array}$ | $\begin{array}{r} 25.4 \\ (96.0) \end{array}$ | $\begin{array}{r} 25.4 \\ (96.9) \end{array}$ | $\begin{array}{r} 25.4 \\ (96.9) \end{array}$ | $\begin{array}{r} 24.9 \\ (96.6) \end{array}$ |
| PDSTDSUP ${ }^{\mathrm{k}}$ | Sources of Study Support | $\begin{array}{r} 22.4 \\ (91.8) \end{array}$ | $\begin{array}{r} 24.0 \\ (93.4) \end{array}$ | $\begin{array}{r} 24.2 \\ (92.9) \end{array}$ | $\begin{array}{r} 24.7 \\ (92.4) \end{array}$ | $\begin{array}{r} 25.1 \\ (93.1) \end{array}$ | $\begin{array}{r} 24.6 \\ (92.5) \end{array}$ | $\begin{array}{r} 24.7 \\ (94.9) \end{array}$ | $\begin{array}{r} 25.0 \\ (100.0) \end{array}$ | $\begin{array}{r} 25.2 \\ (95.8) \end{array}$ | $\begin{array}{r} 25.2 \\ (96.5) \end{array}$ | $\begin{array}{r} 25.3 \\ (96.5) \end{array}$ | $\begin{array}{r} 24.8 \\ (96.1) \end{array}$ |
| PDEMPLOY ${ }^{1}$ | Type of Employer | $\begin{array}{r} 63.6 \\ (94.9) \end{array}$ | $\begin{array}{r} 63.3 \\ (94.9) \end{array}$ | $\begin{array}{r} 62.9 \\ (94.3) \end{array}$ | $\begin{array}{r} 61.4 \\ (93.5) \end{array}$ | $\begin{array}{r} 61.1 \\ (93.5) \end{array}$ | $\begin{array}{r} 60.9 \\ (93.4) \end{array}$ | $\begin{array}{r} 61.4 \\ (94.2) \end{array}$ | $\begin{array}{r} 60.2 \\ (92.7) \end{array}$ | $\begin{array}{r} 61.9 \\ (94.4) \end{array}$ | $\begin{array}{r} 60.3 \\ (95.5) \end{array}$ | $\begin{array}{r} 60.4 \\ (95.5) \end{array}$ | $\begin{array}{r} 61.6 \\ (94.3) \end{array}$ |
| PDWKPRIM ${ }^{1}$ | Primary Work Activity | $\begin{array}{r} 56.2 \\ (83.8) \end{array}$ | $\begin{array}{r} 55.9 \\ (83.8) \end{array}$ | $\begin{array}{r} 55.7 \\ (83.5) \end{array}$ | $\begin{array}{r} 54.7 \\ (83.3) \end{array}$ | $\begin{array}{r} 56.3 \\ (86.1) \end{array}$ | $\begin{array}{r} 56.6 \\ (86.8) \end{array}$ | $\begin{array}{r} 60.8 \\ (93.3) \end{array}$ | $\begin{array}{r} 60.4 \\ (93.0) \end{array}$ | $\begin{array}{r} 61.2 \\ (93.2) \end{array}$ | $\begin{array}{r} 60.0 \\ (94.9) \end{array}$ | $\begin{array}{r} 60.1 \\ (94.9) \end{array}$ | $\begin{array}{r} 62.0 \\ (95.0) \end{array}$ |
| PDWKSEC ${ }^{1}$ | Secondary Work Activity | $\begin{array}{r} 39.5 \\ (58.9) \end{array}$ | $\begin{array}{r} 39.6 \\ (59.3) \end{array}$ | $\begin{array}{r} 37.4 \\ (56.0) \end{array}$ | $\begin{array}{r} 36.7 \\ (55.9) \end{array}$ | $\begin{array}{r} 38.2 \\ (58.4) \end{array}$ | $\begin{array}{r} 38.4 \\ (58.8) \end{array}$ | $\begin{array}{r} 48.5 \\ (74.4) \end{array}$ | $\begin{array}{r} 49.7 \\ (76.4) \end{array}$ | $\begin{array}{r} 50.2 \\ (76.7) \end{array}$ | $\begin{array}{r} 49.8 \\ (78.8) \end{array}$ | $\begin{array}{r} 49.9 \\ (78.8) \end{array}$ | $\begin{array}{r} 51.5 \\ (78.7) \end{array}$ |
| PDEMPFLD ${ }^{1}$ | Field of Employment | $\begin{array}{r} 47.0 \\ (70.2) \end{array}$ | $\begin{array}{r} 47.3 \\ (70.8) \end{array}$ | $\begin{array}{r} 45.3 \\ (68.0) \end{array}$ | $\begin{array}{r} 44.0 \\ (67.0) \end{array}$ | $\begin{array}{r} 45.4 \\ (69.4) \end{array}$ | $\begin{array}{r} 45.7 \\ (70.1) \end{array}$ | $\begin{array}{r} 58.4 \\ (89.6) \end{array}$ | $\begin{array}{r} 59.5 \\ (91.5) \end{array}$ | $\begin{array}{r} 60.3 \\ (91.9) \end{array}$ | $\begin{array}{r} 60.1 \\ (95.1) \end{array}$ | $\begin{array}{r} 60.2 \\ (95.1) \end{array}$ | $\begin{array}{r} 61.2 \\ (93.6) \end{array}$ |
| PDCONSID | Postdoctoral Appointment Consideration | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| PDDECISN | Decision Against Postdoc | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| PDUSFOR | Postdoctoral Location US or Foreign | NA | NA | NA | NA | 94.6 | 94.2 | 92.7 | 91.4 | 90.3 | 91.9 | 92.0 | 92.0 |

## NOTE: NA = not available.

${ }^{k}$ The percentages on the first line are based on the total doctoral cohort for a fiscal yeanhe percentages on the second line (enclosed in parentheses) are based on the number of recipients who reported plans for postdoctoral study
'The percentages on the first line are based on the total doctoral cohort for a fiscal yeanthe percentages on the second line (enclosed in parentheses) are based on the number of recipients who reported plans for postdoctoral employment.

## III. Derived Variables

The following derived variables deserve further explanation.

## Postdoctoral Plans to Stay in the United States

Starting in 1997, the planned postdoctoral location of doctorate recipients was coded in a new variable called PDLOC using FIPS codes for U.S. states and territories and countries. Values of PDLOC less than 100 indicate a postdoctoral location in the United States.

Also beginning in 1997, a dichotomous variable, PDUSFOR, was created to index whether the planned postdoctoral location reported by the respondent was in the United States or in a foreign location.

For years prior to 1997, this variable is based on PDAFFIL. The first character of PDAFFIL flags whether the respondent's planned postdoctoral location is in the United States; a numeric character in this position indicates a United States location. Non-numeric values in the first position of PDAFFIL (except "R") indicate non-U.S. locations. A value of "R" for PDAFFIL signifies the respondent's refusal to provide information.

For the interested user, the following SAS code produces "USPLAN" as an index of plans to stay in the United States following the doctorate using PDAFFIL1 (a variable created using the first character of PDAFFIL).

```
USPLAN=2;/* Outside the U.S. */
if PDAFFIL1 in ("0","1","2","3","4","5","6","7","8","9")
    then USPLAN=1;/* U.S. */
if PDAFFIL1 eq "R" then USPLAN=;;
if PDAFFIL1 eq " " then USPLAN=.;
```


## Firm Postdoctoral Plans

Postdoctoral plans are coded using the values of PDOCSTAT, which indicate that the doctorate recipient's postdoctoral plans were definite at the time the survey was completed. That is, codes 0,1 , or A on PDOCSTAT indicate that the respondent had definite postdoctoral plans, whereas codes 2,3 , and 4 indicate that the respondent was still seeking to determine postdoctoral placement.

The following is the SAS code used to derive FIRMPLAN from PDOCSTAT :

```
if PDOCSTAT in ("0","1","A") then FIRMPLAN=1; /* Definite */
if PDOCSTAT in ("2","3","4") FIRMPLAN=2; /* Seeking */
if PDOCSTAT eq " " then FIRMPLAN=.;
```


## Firm Plans to Stay in the United States

This variable is derived from USPLAN and FIRMPLAN. A respondent is coded as having firm plans to stay in the United States if the reported postdoctoral location was in the United States and the reported postdoctoral plans were coded "definite."

The following is the SAS code that creates the variable FIRMUS from USPLAN and FIRMPLAN as described above.

```
FIRMUS=2;
if (USPLAN eq 1 and FIRMPLAN eq 1) then FIRMUS=1;
if USPLAN eq . or FIRMPLAN eq . then FIRMUS=.;
```


## Time to Doctorate

Total time to degree (TTD): TTD measures the total elapsed time between the baccalaureate and the doctorate (including time not enrolled in school). TTD can be computed only for individuals whose baccalaureate year is known. Baccalaureate year is often obtained from commencement programs or doctorate institutions when not reported by the recipient. Months are now included in the computation (see note below).

Registered time to degree (RTD): RTD gauges the time in attendance at colleges and universities between receipt of the baccalaureate and the doctorate. Enrollment may include years of attendance not related to a recipient's doctoral program. RTD can only be computed for individuals who provided all years of college attendance after the baccalaureate. Months are now included in the computation (see note below).

Note about medians: The method of computing medians, beginning with Summary Report 1994, is as follows. Months (of birth, baccalaureate, and doctorate) are included in the calculations whenever available; if months are missing, only years are used in the calculations. (However, medians are not computed for years prior to 1969 because doctorate month is unavailable for all doctorate recipients.) Medians presented in previous summary reports were based only on years. Some medians would be the same regardless of the method of computation, but the new method generally computes slightly different results. While differences are small (usually one- or two-tenths of a year), readers should consider these differences when comparing medians presented in the report with those in earlier reports.

## IV. Changes to the 2000 SED

## Citizenship

In 2000, a new category was again used for the variable CITIZ to identify non-U.S. citizens for whom visa status was unknown. The new code frame for the data is as follows:

| Code | Citizenship Category |
| :---: | :--- |
| 0 | U.S. Native |
| 1 | U.S. Naturalized Citizen |
| 2 | Non-U.S. Immigrant (Permanent Resident) |
| 3 | Non-U.S. Non-immigrant (Temporary Resident) |
| 4 | Non-U.S., Visa Status Unknown |
| Blank | Missing/Citizenship Unknown |

In 2000, a logical assignment to code 4 was made if all follow-up attempts for missing citizenship were unsuccessful. The assignment was made for 1997, 1998, 1999, and 2000 records if three out of four variables - BIRTHPL, HSPLACE, EDPLACE, PDUSFOR - were non-U.S. locations. For the purposes of the tabulations in this report, code 4 was combined with code 3. This is consistent with what was done in previous rounds and seems well justified by an examination of the data. However, the existence of this new code will allow the data user to exclude the cases for which visa status is unknown if desired. One should keep in mind that the number of cases in this group (code 4) is not sufficient to warrant analysis as a separate group ( $\mathrm{n}=342$ ).

To match the numbers in this report, use the following code before analyzing citizenship:

```
/*RECODE CITIZ 4 */
IF (CITIZ eq '4') THEN CITIZ='3';
```


## Birthplace, Country of Citizenship, and Postdoctoral Location

This year, recognizing the unification of Hong Kong and the People's Republic of China, data for respondents reporting values for Birthplace, Country of Citizenship, and Postdoctoral Location separately for these two locations are combined and tabulated as the People's Republic of China.

## APPENDIX D

## Survey of Earned Doctorates Questionnaire Academic Year 2000

# Survey of Earned Doctorates 

## July 1, 1999 to June 30, 2000

Conducted by
The National Opinion Research Center at the University of Chicago
for
The National Science Foundation
The National Institutes of Health
The National Endowment for the Humanities
The U.S. Department of Education
The U.S. Department of Agriculture

This information is solicited under the authority of the National Science Foundation Act of 1950, as amended, ALL. INFORMATION YOU PROVIDE WILL BE TREATED AS CONFIDENTIAL and used only for research or statistical purposes by your doctoral institution, the survey sponsors, their contractors, and collahorating researchers for the purpose of anlayzing data, preparing scientific reports and articles, and selecting samples for a limited number of carefully defined follow-up studies. Your social security number is also solicited under the NSF Act of 1950, as amended. Providing it is also voluntary. It is used for survey quality control, program evaluation, and for matching with other databases. Any information publicly released (such as statistical summaries) will be in a form that does not personally identify you. Your response is voluntary and failure to provide some or all of the requested information will not in any way adversely affect you.

The time needed to complete this form varies according to individual circumstances, but the average time is estimated to be 20 minutes. If you have comments regarding this time estimate, you may write to the National Science Foundation, 4201 Wilson Blvd., Arlington, VA 22230, Attention: NSF Reports Clearance Officer.

# NATIONAL SCIENCE FOUNDATION 4201 WILSON BOULEVARD ARLINGTON, VIRGINIA 22230 

## To the Doctorate Recipient:

Congratulations on earning a doctoral degree! This is an important accomplishment for you. Your accomplishment is also significant for both this nation and others, as the new knowledge generated by research doctorates enhances the quality of life in this country and throughout the world. Because of the importance of persons earning research doctorates, several Federal agenciesŠlisted on the coverŠsponsor this Survey of Earned Doctorates.

The basic purpose of this survey is to gather objective data about doctoral graduates. These data are important in improving graduate education both at your home institution and beyond. Often, decisions made by governmental and private agencies to develop new programs, or to support present ones, are based in part on the data developed from this survey.

This form is distributed by the Graduate Deans and is filled out by all persons who have completed the requirements for a research doctoral degree. Please print your name on the cover if you have not already done so, and then complete this questionnaire and return it to the Graduate Dean. The confidentiality of the information you provide is carefully protected.

On behalf of the sponsoring Federal agencies, I thank you for your participation in this survey.
Best wishes,


Jeanne E. Griffith
Director, Division of Science Resources Studies

## INSTRUCTIONS

Thank you for taking the time to complete this important questionnaire. Directions are provided for each question. Because not all questions will apply to everyone, you may be asked to skip certain questions.

- If you have not already done so, please print your name on the front cover.
- You may use either a pen or pencil.
- When answering questions that require marking a box, please use an fiX.
- If you need to change an answer, please make sure that your old answer is either completely erased or clearly crossed out.
- On pages 8 and 9 (inside the back cover) is a Specialties List for classifying your field(s) of specialization in Questions A2, A10, B5, and B9.

Thanks again for your help; we really appreciate it.

## PART A - Education

A1. What is the title of your dissertation?
$\square \quad$ Please mark (X) this box if the title below refers to a performance, project report or a musical or literary composition required instead of a dissertation

Title $\qquad$
$\qquad$
$\qquad$
$\qquad$

A2. Using the Specialties List (pages 8-9), please write the name and number of the field of your dissertation research.

Name of field

Number of field $\square$

A3. After receiving your first bachelor ${ }^{T 3}{ }^{\text {M }}$ degree (or equivalent), and including the period spent on your dissertation, how many years were you a full-time student?
$\qquad$ Years (whole numbers)

A4. Please check the category that most fully describes your employment or study status during the year immediately before the award of the doctorate.

Mark ( $X$ ) one


A5. (IF FULL-TIME EMPLOYED) What type of position did you hold?

Mark (X) one


A6. In what state or country was the high school/secondary school that you last attended?

State (if U.S.)
$\square$
OR
Country (if not U.S.)
$\qquad$
A7. When did you graduate from high school/ secondary school?


A8. Please name the department (or interdisciplinary committee, center, institute, etc.) of the university that supervised your doctoral program.
$\square$ Mark (X) box if none
$\qquad$

Department/Committee/Center/Institute/Program

A9. Please name the school or college within the university that supervised your doctoral program.
$\square$ Mark (X) box if not applicable
$\qquad$

School or College within University

A10. Please list below, chronologically, all colleges (including 2-year) and graduate institutions you have attended and each degree earned (if any). Be sure to give the years attended for ALL institutions attended. Include your doctoral institution(s) and degree at the end.
$\square$ Mark (X) box if bachelor ${ }^{\mathrm{T} M}{ }^{4}$ degree (or equivalent) was never received.
$\square$ Mark (X) box if master ${ }^{\text {TsM }}$ degree (or equivalent) was never received.


If you have attended more than six institutions of higher education, please continue this list on the back cover. Be sure to include your doctoral institution.

A11. Which of the following were sources of money to cover living and/or educational expenses during your doctoral programs?
Mark (X) Yes or No for each Yes No Don't
a. Loans (from any source)
b. Foreign (non-U.S.) support
c. Fellowship, scholarship
d. Dissertation grant
e. Teaching assistantship
f. Research assistantship
g. Traineeship
h. Internship or residency
i. Personal savings
j. Other personal earnings during graduate school
k. Spouse ${ }^{\mathrm{TS}}$, , significant other ${ }^{\mathrm{TS}}$, or family earnings or savings

1. Employer reimbursement/assistance
m. Other - Specify $\qquad$
$\square$

A12. Which TWO sources listed in A11 gave you the most support?

Enter letters of primary and secondary sources

1. $\qquad$ Primary source of support
$\square \quad$ Mark ( $X$ ) if no primary source
2. $\qquad$ Secondary source of support
$\square \quad \operatorname{Mark}(X)$ if no secondary source

A13. When you receive your doctoral degree, how much money will you owe that is directly related to your undergraduate and/or graduate education (tuition and fees, living expenses and supplies, transportation to and from school)?
$0 \square$ None
$1 \square \$ 5,000$ or less
$2 \square$ \$5,001-\$10,000
$3 \square \$ 10,001-\$ 15,000$
$4 \square$ \$15,001-\$20,000
$5 \square \$ 20,001-\$ 25,000$
$6 \square \$ 25,001-\$ 30,000$
$7 \square \$ 30,001$ or more

## PART B - Postgraduation Plans

B1. How definite are your immediate postgraduate plans?
Mark ( $X$ ) one
$0 \square$ Am returning to, or continuing in, predoctoral employment

GO to
$1 \square$ Have signed contract or made definite commitment for other work or study $\rightarrow \quad B 2$, commitment for other work or stu
$\square$ Am negotiating with one or more specific organizations
$3 \square$ Am seeking position but have no specific SKIP prospects to
$4 \square$ Other - Specify $\neg \quad B 3$, $\square$ page 5

B2. Please name the organization and geographic location where you will work or study.


B3. In what state or country do you intend to live after graduation?

Mark (X) one
$0 \square$ in U.S. $\rightarrow$ State
$1 \square$ not in U.S. $\longrightarrow$ Country

B4. What best describes your immediate postgraduate plans?

Mark (X) one


B5. Please use the Specialties List (pages 8-9) to enter the name and number of your postdoctoral field.

Name of field

Number of field $\square$
B6. What will be the main source of financial support for your postdoctoral study/research?

Mark (X) one

| 0 | $\square$ U.S. Government |  |
| :--- | :--- | :---: |
| 1 | $\square$ College or university | SKIP |
| 2 | $\square$ Private foundation | to |
| 3 | $\square$ Nonprofit, other than private foundation | C1, |
| 4 | $\square$ Other - Specify $\downarrow$ | page 6 |

$6 \square$ Unknown

B7. For what type of employer will you be working?
Mark (X) one
EDUCATION
a $\square$ U.S. 4-year college or university other than medical school
$\mathrm{b} \square$ U.S. medical school
c $\square$ U.S. junior or community college
d $\square$ Elementary or secondary school
e $\square$ Foreign institution

## GOVERNMENT

$\mathrm{f} \square$ Foreign government
$\mathrm{g} \square$ U.S. federal government
$\mathrm{h} \square$ U.S. state government
i $\square$ U.S. local government

## PRIVATE SECTOR

j $\square$ Nonprofit organization
$\mathrm{k} \square$ Industry or business
$1 \square$ Self-employed

## OTHER

$\mathrm{m} \square$ Other - Specify
$\qquad$

B8. From the list below, please indicate what your primary and secondary work activities will be by entering the numbers of your selections in the appropriate boxes:

Enter numbers from below:
a. $\qquad$ Primary Activity
b. $\square$ Secondary Activity

0 Research and development
1 Teaching
2 Administration
3 Professional services to individuals
5 Other - Specify

B9. Please use the Specialties List (pages 8-9) to enter the name and number of the field in which you will be working.

Name of field
Number of field

## PART C - Background Information

C1. Are you -
$1 \square$ Male
$2 \square$ Female

C2. What is your marital status?
Mark (X) one
$1 \square$ Married
$2 \square$ Living in a marriage - like relationship
$3 \square$ Widowed
$4 \square$ Separated/divorced
$5 \square$ Never married

C3. Not including yourself, how many dependents do you have - that is, how many others receive at least one half of their support from you?


Number

C4. What is the highest educational attainment of your mother and father?

Mark (X) one for each parent

Less than high school/ secondary school

High-school/secondaryschool graduate

Some college
Bachelor ${ }^{T}{ }^{\mathrm{M}}$ degree
Master ${ }^{T M}{ }^{T M}$ degree
Professional degree
Doctoral degree

C5. What is your place of birth?
State (if U.S.)

## OR

Country (if not U.S.)

## C6. What is your date of birth?



C7. What is your citizenship status?
Mark (X) one

## U.S. Citizen:



## Non-U.S. Citizen:

$2 \square \quad$ With a Permanent U.S. Resident Visa
$3 \square \quad$ With a Temporary U.S. Visa

C8. (IF A NON-U.S. CITIZEN) Of which country are you a citizen?
(Specify country of present citizenship)

C9. Are you a person with a disability?$1 \square \quad$ Yes
$2 \square \quad$ No $\longrightarrow$ SKIP to C11

C10. (IF YES) Which of the following categories describes your disability?
$1 \square$ Visual
$2 \square \quad$ Orthopedic (mobility)
$3 \square \quad$ Auditory (hearing)
$4 \square$ Vocal
Other - Specify
2tiv- орес立
$\qquad$

C11. Are you Hispanic?

$$
\begin{array}{ll}
0 \square \quad \text { Yes } \longrightarrow \text { GO to C12, page } 7 \\
1 \square \quad \text { No } \longrightarrow \text { SKIP to C13, page } 7
\end{array}
$$

C12. (IF YES TO C11) Which of the following describes your Hispanic origin or descent?
$0 \square$ Mexican American
$1 \square$ Puerto Rican
$2 \square$ Other Hispanic - Specify
$\qquad$
$\qquad$
C13. What is your racial background?

## Mark (X) one

$0 \square$ American Indian or Alaskan Native
$1 \square$ Asian or Pacific Islander
$2 \square$ Black
$3 \square$ White

C14. Please fill in your U.S. Social Security Number.


C15. In case we need to clarify some of the information you have provided, please list a telephone number and e-mail address (if available) where you can be reached.

## Daytime telephone

Evening telephone
E-mail address

C16. Because we are interested in how education relates to employment and career development over time, we may recontact you in the future. To assist us, please provide your current address below as well as the name, address, and telephone number of one person who is likely to know where you can always be reached. (Do not include someone who lives in your immediate household.) As with all other information in this questionnaire, complete confidentiality will be provided.
Current Address:

| Number | Street |  |
| :--- | :--- | :--- |
| City |  |  |
| Contact Person: | State |  |
| Name |  |  |
| Number | Street |  |
| City | State | Country |

## C17. Please sign and date.

Signature
Date
Mark (X) box if you would like a summary of the results of this survey (available as funding permits).
Results of the Survey of Earned Doctorates can be found on the National Science Foundation ${ }^{T 15}{ }^{1}$ World Wide Web page at http://www.nsf.gov/sbe/srs/stats.htm

Please use the back cover to make any additional comments you may have about this survey.
Thank you for completing the questionnaire. Please return it to the GRADUATE DEAN for forwarding to Survey of Earned Doctorates, National Opinion Research Center at the University of Chicago, 1525 East 55th Street, Chicago, IL 60615. Should you need to call us, our toll free number is 1-800-248-8649.

## SPECIALTIES LIST

INSTRUCTIONS: The following field listing is to be used in responding to items A2, A10, B5, and B9. If you choose a field marked with an asterisk (*), please write in your field of specialization in the space provided in those items.

| AGRICULTURAL SCIENCES | 189 Zoology, Other* | 435 Geometry |
| :---: | :---: | :---: |
| 000 Agricultural Economics | 198 Biological Sciences, General | 440 Logic (See also 785) |
| 002 Agricultural Business \& Mgmt. | 199 Biological Sciences, Other* | 445 Number Theory |
| 005 Animal Breeding \& Genetics |  | 450 Mathematical Statistics |
| 010 Animal Nutrition | HEALTH SCIENCES | 455 Topology |
| 012 Dairy Science | 200 Speech-Lang. | 460 Computing Theory \& Practice |
| 014 Poultry Science | Pathology \& Audiology | 465 Operations Research |
| 055 Fisheries Sci. \& Management | 210 Environmental Health | (See also 363, 930) |
| 019 Animal Sciences, Other* | 212 Health Systems/Service Admin. | 498 Mathematics, General |
| 020 Agronomy \& Crop Science | 215 Public Health | 499 Mathematics, Other* |
| 025 Plant Breeding \& Genetics | 220 Epidemiology (See also 133) |  |
| 030 Plant Pathology (See also 120) | 222 Exercise Physiology/ | PHYSICAL SCIENCES |
| 039 Plant Sciences, Other* | Sci., Kinesiology |  |
| 043 Food Engineering | 230 Nursing | Astronomy |
| 044 Food Sciences, Other* | 240 Pharmacy | 500 Astronomy |
| 046 Soil Chemistry/Microbiology | 245 Rehabilitation/Therapeutic Services | 505 Astrophysics |
| 049 Soil Sciences, Other* | 250 Veterinary Medicine |  |
| 050 Horticulture Science | 298 Health Sciences, General | Atmospheric Sci. and Meteorology |
| 066 Forest Biology | 299 Health Sciences, Other* | 510 Atmospheric Physics \& Chemistry |
| 068 Forest Engineering | ENGINEERING | 512 Atmospheric Dynamics |
| 070 Forest Management | 300 Aerospace, Aeronaut \& Astronaut. | 514 Meteorology |
| 072 Wood Sci. \& Pulp/Paper Tech. | 303 Agricultural | 518 Atmos. Sci./Meteorol., General |
| 074 Conserv./Renewable Natural Res. 079 Forestry \& Related Sci., Other* | 306 Bioengineering \& Biomedical | 519 Atmos. Sci./Meteorol., Other* |
| 080 Wildlife/Range Management | 309 Ceramic Sciences | Chemistry |
| 098 Agricultural Sci., General |  | 520 Analytical |
| 099 Agricultural Sci., Other* | 318 Communications | 522 Inorganic |
| BIOLOGICAL SCIENCES | 321 Computer | 524 Nuclear <br> 526 Organic |
| 100 Biochemistry | 324 Electrical \& Electronics | 528 Medicinal/Pharmaceutical |
| 103 Biomedical Sciences | 327 Engineering Mechanics | 530 Physical |
| 105 Biophysics | 330 Engineering Physics | 532 Polymer |
| 107 Biotechnology Research | 333 Engineering Science | 534 Theoretical |
| 110 Bacteriology | 336 Environmental Health Engineering | 538 Chemistry, General |
| 115 Plant Genetics | 339 Industrial \& Manufacturing | 539 Chemistry, Other* |
| 120 Plant Pathology (See also 030) | 342 Materials Science | 539 (See 100 Biochemistry) |
| 125 Plant Physiology | 345 Mechanical | (See 100 Biochemistry) |
| 129 Botany, Other* | 348 Metallurgical |  |
| 130 Anatomy | 351 Mining \& Mineral |  |
| 133 Biometrics \& Biostatistics | 357 Nuclear |  |
| 136 Cell Biology (See also 154) | 360 Ocean |  |
| 139 Ecology | 363 Operations Research | 544 Geophysics \& Seismology |
| 142 Developmental Bio./Embryology | (See also 465, 930) | 548 Mineralogy \& Petrology |
| 145 Endocrinology | 366 Petroleum | 548 Mineralogy \& Petrology |
| 148 Entomology | 369 Polymer \& Plastics | 550 Stratigraphy \& Sedimentation |
| 151 Biological Immunology | 372 Systems | 552 Geomorphology \& Glacial Geology |
| 154 Molecular Biology | 398 Engineering, General | 558 Geolog. \& Related Sci., General |
| 157 Microbiology | 399 Engineering, Other* | 559 Geolog. \& Related Sci., Other* |
| 160 Neuroscience |  |  |
| 163 Nutritional Sciences | COMPUTER AND INFORMATION | Physics |
| 166 Parasitology | SCIENCES | 560 Acoustics |
| 169 Toxicology | 400 Computer Science | 561 Chemical \& Atomic/Molecular |
| 170 Genetics, Human \& Animal | 410 Information Science \& Systems* | 564 Elementary Particle |
| 175 Pathology, Human \& Animal | MATHEMATICS | 566 Fluids |
| (See also 120) | 420 Applied Mathematics | 568 Nuclear |
| 180 Pharmacology, Human \& Animal | 425 Algebra | 570 Plasma \& High-Temperature |
| 185 Physiology, Human \& Animal | 430 Analysis \& Functional Analysis | 572 Polymer |

## SPECIALTIES LIST (continued)

574 Solid State \& Low-Temperature
578 Physics, General
579 Physics, Other*
Miscellaneous Physical Sciences
580 Environmental Science
585 Hydrology \& Water Resources
590 Oceanography
595 Marine Sciences
599 Misc. Physical Sciences, Other*

## PSYCHOLOGY

600 Clinical
603 Cognitive \& Psycholinguistics
606 Comparative
609 Counseling
612 Developmental \& Child
613 Human/Indiv. \& Family Devlpmt.
615 Experimental
618 Educational (See also 822)
620 Family \& Marriage Counseling
621 Indust. \& Organiz. (See also 935)
624 Personality
627 Physiological/Psychobiology
630 Psychometrics
633 Quantitative
636 School (See also 825)
639 Social
648 Psychology, General
649 Psychology, Other*
SOCIAL SCIENCES
650 Anthropology
652 Area Studies
658 Criminology
662 Demography/Population Studies
666 Economics
668 Econometrics
670 Geography
674 International Relations/Affairs
678 Political Sci. \& Government
682 Public Policy Analysis
686 Sociology
690 Statistics (See also 450)
694 Urban Affairs/Studies
698 Social Sciences, General
699 Social Sciences, Other*

## HUMANITIES

## History

700 History, American
703 History, Asian
705 History, European
710 History/Philosophy of Sci. \& Tech.
718 History, General
719 History, Other*

## Letters

720 Classics
723 Comparative Literature
729 Linguistics
732 Literature, American
733 Literature, English
734 English Language
736 Speech \& Rhetorical Studies
738 Letters, General
739 Letters, Other*

## Foreign Languages and Literature

740 French
743 German
746 Italian
749 Spanish
752 Russian
755 Slavic (other than Russian)
758 Chinese
762 Japanese
765 Hebrew
768 Arabic
769 Other Languages \& Literature*

## Other Humanities

770 American Studies
773 Archeology
776 Art History/Criticism/Conserv.
780 Music
785 Philosophy (See also 440)
790 Religion (See also 984)
795 Drama/Theater Arts
798 Humanities, General
799 Humanities, Other*

## EDUCATION

800 Curriculum \& Instruction
805 Educational Admin. \& Supervision
807 Educational Leadership
810 Educ./Instruct. Media Design
815 Educ. Stat./Research Methods
820 Educ. Assess./Test./Meas.
822 Educ. Psychology (See also 618)
825 School Psychology (See also 636)
830 Social/Phil. Found. of Education
835 Special Education
840 Couns. Educ./Couns. \& Guid. Serv.
845 Higher Education/Eval. \& Research

## Teacher Education

850 Pre-elementary/Early Childhood
852 Elementary
856 Secondary
858 Adult \& Con 三 F

## Teaching Fields

860 Agricultural Education
861 Art Education
862 Business Education

864 English Education
866 Foreign Languages Education
868 Health Education
870 Home Economics Education
872 Tech. \& Indust. Arts Education
874 Mathematics Education
876 Music Education
878 Nursing Education
880 Physical Education \& Coaching
882 Reading Education
884 Science Education
885 Social Science Education
887 Technical Education
888 Trade \& Industrial Education
889 Teacher Educ., Specific Acad. \& Voc. Prog., Other*

Other Education
898 Education, General
899 Education, Other*

## PROFESSIONAL FIELDS

## Business Management and <br> Administrative Services

900 Accounting
905 Banking/Financial Support Serv.
910 Business Admin. \& Management
915 Business/Managerial Economics
916 International Business
917 Mgmt. Info. Sys./Bus. Data Proc.
920 Marketing Management \& Research
930 Operations Research (See also 363, 465)
935 Organiz. Behavior (See also 621)
938 Bus. Mgmt./Admin. Serv., Gen.
939 Bus. Mgmt./Admin. Serv., Other*

## Communications

940 Communications Research
947 Mass Communications
957 Communication Theory
958 Communications, General
959 Communications, Other*
(See also 736)
Other Professional Fields
960 Architec. Environ. Design
964 Home Economics
968 Law
972 Library Science
974 Parks/Rec./Leisure/Fitness
976 Public Administration
980 Social Work
984 Theol./Religious Education (See also 790)
988 Professional Fields, General
989 Professional Fields, Other*
OTHER FIELDS*
999 Other

## Comments About This Survey

Please return this questionnaire to your GRADUATE DEAN for forwarding to Survey of Earned Doctorates, National Opinion Research Center at the University of Chicago, 1525 East 55th Street, Chicago, IL 60615.
Should you need to call us, our toll free number is 1-800-248-8649.
OFFICE USE ONLY

| Case ID: | Instit. Code: |  | Grad Date: | Main Disp.: |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| PROCESSING |  |  |  |  |  |
| Receipt |  | Editing |  | CADE |  |
| Initials | Date | Initials | Date | Initials | Date |
| Ver. Adjust |  | Retrieval |  | Updates |  |
| Initials | Date | Initials | Date | Initials | Date |

## APPENDIX E

Field Classification and Research Degree Titles

## APPENDIX E: Field Classification and Research Degree Titles

The appendix tables present data according to the following field classifications. Appendix Tables A-1 and A-2 and Appendix Table B-1 display all subfields that are on the survey Specialties List. Appendix Tables A-4, A-5, and A-6 show data by seven broad fields only. Appendix Tables A-3 and A-7 include the additional field groupings indicated below.

## SCIENCES

Physical Sciences (400-599)
Physics and Astronomy (500-505, 560-579)
Chemistry (520-539)
Earth, Atmospheric, and Marine Sciences

$$
(510-519,540-559,590-599)
$$

Mathematics (420-499)
Computer Sciences (400410) $\}$ Combined in Table A -7

Engineering (300-399)
Life Sciences (000-299)
Biological Sciences (100-199)
Biochemistry (100)
Other Biological Sciences (103-199)
Health Sciences (200-299)
Agricultural Sciences (000-099)
Social Sciences (600-699)
Psychology (600-649)
Economics and Econometrics $(666,668)$
Anthropology and Sociology $(650,686)$
Political Science and International Relations $(674,678)$
Other Social Sciences
(652-662, 670, 672, 682, 690-699)

## NONSCIENCES

Humanities (700-799)
History (700-719)
English and American Language and Literature (732-734)
Foreign Languages and Literature (740-769)
Other Humanities
(720-729, 736-739, 770-799) Combined in Table A -7

## Education (800-899)

Professional and Other Fields (900-999)
Business and Management (900-939)
Other Professional Fields (940-989)
Other Fields (999)

NOTE: Doctorate recipients indicate their fields of specialty.
Their choices may differ from departmental names.

TITLES OF RESEARCH DEGREES INCLUDED IN THE SURVEY OF EARNED DOCTORATES

| DA/DAT | Doctor of Arts/Arts in Teaching | DMM | Doctor of Music Ministry |
| :--- | :--- | :--- | :--- |
| DArch | Doctor of Architecture | DMSc | Doctor of Medical Science |
| DAS | Doctor of Applied Science | DNSc | Doctor of Nursing Science |
| DBA | Doctor of Business Administration | DPA | Doctor of Public Administration |
| DChem | Doctor of Chemistry | DPE | Doctor of Physical Education |
| DCJ | Doctor of Criminal Justice | DPH | Doctor of Public Health |
| DCL | Doctor of Comparative Law/Civil Law | DPS | Doctor of Professional Studies |
| DCrim | Doctor of Criminology | DrDES | Doctor of Design |
| DED | Doctor of Environmental Design | DRec/DR | Doctor of Recreation |
| DEng | Doctor of Engineering | DSc/ScD | Doctor of Science |
| DEnv | Doctor of Environment | DScD | Doctor of Science in Dentistry |
| DESc/ScDE | Doctor of Engineering Science | DScH | Doctor of Science and Hygiene |
| DF | Doctor of Forestry | DScVM | Doctor of Science in Veterinary Medicine |
| DFA | Doctor of Fine Arts | DSSc | Doctor of Sacred Music |
| DGS | Doctor of Geological Science | DSW | Doctor of Social Science |
| DHL | Doctor of Hebrew Literature/Letters | EdD | Doctor of Social Work |
| DHS | Doctor of Health and Safety | JCD | Doctor of Education |
| DHS | Doctor of Hebrew Studies | JSD | Doctor of Canon Law |
| DIT | Doctor of Industrial Technology | LScD | Doctor of Juristic Science |
| DLS | Doctor of Library Science | PhD | Doctor of Science of Law |
| DM | Doctor of Music | DJD | Doctor of Philosophy |
| DMA | Doctor of Musical Arts | Doctor of Rehabilitation |  |
| DME | Doctor of Musical Education | Doctor of Juridical Science |  |
| DML | Doctor of Modern Languages | Doctor of Theology |  |


| DATA BRIEFS | ISSUE BRIEFS | REPORTS |
| :---: | :---: | :---: |
| Healthy Economy Yields Even Lower Unemployment Rate for Doctoral Scientists and Engineers | Academic Employment of Recent Science and Engineering Doctorate Holders | Science and Engineering Doctorate Awards: 2000 |
| Doctorate Awards Declining in Some Science and Engineering Fields | What's Happening in the Labor Market for Recent Science and Engineering Ph.D. Recipients? | Science and Engineering Doctorates: 1960-91 |
| Despite Increases, Women and Minorities Still Underrepresented in Undergraduate Science and Engineering Education | Is the Gender Gap in Unemployment Disappearing? | Characteristics of Doctoral Scientists and Engineers in the U.S.: 1997 |
| Doctoral Awards Increase in S\&E Overall, But Computer Science Declines for First Time | Employment Preferences and Outcomes of Recent Science and Engineering Doctorate Holders in the Labor Market | Trend Tables on Doctoral Scientists and Engineers in the U.S.: 1993-97 (Web only) |
| Employment of Scientists and Engineers Reaches 3.2 Million in 1995 | International Mobility of Scientists and Engineers to the United States Brain Drain or Brain Circulation | Who is Unemployed? Factors Affecting Unemployment Among Individuals with Doctoral Degrees in Science and Engineering |
| Number of Doctoral Scientists and Engineers Grows by 6\% Between 1993 \& 1995 | What is the Debt Burden of New Science and Engineering Ph.D.'s? | Science and Engineering State Profiles: 1999 |
| Data sources and publications sources: | Are Forms of Financial Support and Employment Choices of Recent Science and Engineering Ph.D.'s Related? | Doctoral Scientists and Engineers in the U.S.: 1997 Profile Tables (on request) |
| These publications contain data from 1) the annual Survey of Earned Doctorates(a universe survey on the education of research doctorates) or | Does the Educational Debt Burden of Science and Engineering Doctorates Differ by Race/Ethnicity and Sex? | Modes of Financial Support in the Graduate Education of S\&E Doctorate Recipients |
| 2) the biennial Survey of Doctorate Recipients (a longitudinal sample survey of workforce characteristics). | Degrees and Occupations in Engineering: How Do They Diverge? | Statistical Profiles of Foreign Doctoral Recipients in Science and Engineering: Plans to Stay in the United States |
| Complete electronic information on these surveys and publications may be obtained on the web at: | Has the Use of Postdocs Changed? | Women, Minorities, and Persons with Disabilities in Science and Engineering: 2000 |
| www.nsf.gov/sbe/stats.htm. | How Much Does the U.S. Rely on Immigrant Engineers? | Science and Engineering Degrees: 1966-98 |
| Written reports may be ordered online (www.nsf.gov/home/orderpub.htm) or by calling 301-947-2722. | What Follows Postdoctorate Experience? Employment Patterns of 1993 Postdocs in 1995 | Science and Engineering Degrees, by Race/Ethnicity of Recipients: 1990-98 |
| For further information please contact Susan T. Hill, Director, Doctorate Data Project, sthill@nsf.gov. | How Large is the Gap in Salaries of Male and Female Engineers? | SESTAT: A Tool for Studying Scientists and Engineers in the United States |


[^0]:    ${ }^{1}$ The Survey of Earned Doctorates collects information on research doctorate recipients only. This survey differs from the U.S. Department of Education's collection of the number of doctoral degrees awarded per institution for all fields. For an evaluation of the differences, see National Science Foundation, 1993, Science and Engineering Doctorates 1960-1991, NSF 93-301, Detailed Statistical Tables, pp. 2-6, Washington, DC.
    ${ }^{2}$ See appendix C for information on response rates for the SED.

[^1]:    ${ }^{3}$ Doctorates are reported by academic year (from July 1 of one year through June 30 of the following year) and include research doctorates in all fields. Doctoral degrees such as the Ph.D., D.Sc., and research Ed.D. are covered by this survey; professional degrees (e.g., M.D., D.D.S., J.D., Psy.D.) are not. A full list of included degrees can be found in appendix E. For convenience throughout this report, the terms "Ph.D." or "doctorate" are used to represent any of the research doctoral degrees covered by the survey. Please note that if an individual earned a second research doctorate, the second doctorate is not included in the SED.

[^2]:    ${ }^{4}$ Calculations derived from appendix table A-7.

[^3]:    ${ }^{5}$ The physical sciences also include mathematics and computer sciences.
    ${ }^{6}$ The life sciences encompass biological, agricultural, and medical sciences.

[^4]:    ${ }^{7}$ For 2000 , sex could not be determined for 74 doctorate recipients; these 74 are not part of these and other percentage calculations. In 1999, the corresponding number of cases of undetermined sex was 187 .

[^5]:    See Table 8.
    Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

[^6]:    See Table 8.
    Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

[^7]:    ${ }^{8}$ Citizenship status (U.S. versus non-U.S.) and country of citizenship are variables with somewhat higher than average non-response in the SED, and the figures presented in this section are therefore less certain than others in the report. The percentage of cases with missing data on these variables has also fluctuated more year to year than other SED variables, and the over-time comparisons are thus also subject to some uncertainty. For example, in 1995 citizenship status was unknown for 2.1 percent of recipients, but this number was 3.8 percent in 1990 and 1.8 percent in 1975.

[^8]:    ${ }^{9}$ Includes Hong Kong beginning with the 2000 SED cycle.

[^9]:    ${ }^{10}$ The Federal government and other governments can be the original source of these funds.

[^10]:    ${ }^{11}$ See the special section on indebtedness in the Summary Report 1998 for more detail on debt levels and financial support for doctoral education. The report is available on the NORC web site (http://www.norc.uchicago.edu/issues/docdata.htm).

[^11]:    ${ }^{12}$ The items in the postgraduation plans section of the questionnaire are not classified as "critical items" which become the focus of missing data follow-ups. Thus, the response rates to the postgraduation plans items mirror the returns of the actual questionnaire, minus a low rate of item nonresponse. For the 2000 SED cycle, the overall response rate for the first item, asking whether the respondent has definite plans for either career employment or study, was 90.8 percent.

[^12]:    ${ }^{\text {a }}$ Includes mathematics and computer sciences.
    ${ }^{\mathrm{b}}$ Includes psychology.

[^13]:    ${ }^{\text {a }}$ Group total for 1990 includes 1 individual of unknown sex.
    ${ }^{6}$ Group total for 1995 includes 170 individuals of unknown sex.
    ${ }^{\text {c }}$ Group total for 2000 includes 74 individuals of unknown sex.

[^14]:    ${ }^{\text {a }}$ Includes Pacific Islander.
    ${ }^{\mathrm{b}}$ Includes Alaskan Native.

[^15]:    ${ }^{\text {a }}$ Includes mathematics and computer sciences

[^16]:    ${ }^{\text {a }}$ The ranking excludes institutions with fewer than 10 non-U.S. citizen doctorate recipients.
    ${ }^{\mathrm{b}}$ The percent column is based on the number of non-U.S. citizens as a percentage of the total doctorates awarded by that institution.

[^17]:    ${ }^{\text {a }}$ Includes mathematics and computer sciences.

[^18]:    NOTE: Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates.
    ${ }^{a}$ Grand totals include 74 doctorate recipients whose gender was unknown and 5 doctorate recipients whose doctoral field was unknown.
    ${ }^{\mathrm{b}}$ Includes 5 persons for whom field was unknown.

[^19]:    NOTE: Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates.
    ${ }^{a}$ Physical sciences includes mathematics and computer sciences.
    ${ }^{\mathrm{b}}$ Includes 5 respondents whose doctoral field was unknown.
    ${ }^{\text {c }}$ Includes 74 respondents not reporting gender.

[^20]:    ${ }^{d}$ Includes 2-year, 4-year, foreign colleges/universities, medical schools, and elementary/secondary schools.
    ${ }^{e}$ Includes only doctorate recipients with definite employment plans.
    Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

[^21]:    ${ }^{\circ}$ Includes only doctorate recipients with definite employment plans.

[^22]:    ${ }^{\text {c }}$ Includes only doctorate recipients with definite employment plans.

[^23]:    ${ }^{\text {a }}$ Includes Alaskan Native.
    ${ }^{\mathrm{b}}$ In most cases, non-U.S. American Indians are citizens of Canada or of a Latin American country.
    ${ }^{\text {}}$ Includes Pacific Islander.

[^24]:    ${ }^{a}$ Includes Alaskan Native.
    ${ }^{\mathrm{b}}$ In most cases, non-U.S. American Indians are citizens of Canada or of a Latin American country.
    ${ }^{\text {}}$ Includes Pacific Islander.

[^25]:    ${ }^{\text {a }}$ The rates for 1967-99 reflect late responses. The rate for 2000 may increase slightly in the next year if additional questionnaires are received after survey closure. Self-report rates for 1980-2000 were determined from the "source of response" indicator in the doctorate records. Because this indicator was not coded prior to 1980, survey forms for 1967-79 are assumed to be self-reported if "month signed" or "marital status" is present. "Marital status" is not available from sources other than the doctorate recipient.

[^26]:    NOTE: $N A=$ not available.
    ${ }^{\text {h}}$ Because this field is not applicable to all doctorate recipients, the response rate will always be under $100 \%$.
    'The percentage was low in 1992 because $28 \%$ of the doctorate recipients completed earlier survey forms that did not request field of dissertation.
    As of FY 1996, the percentage included recipients who said they had no primary source of support.

