



NATIONAL ENDOWMENT FOR THE  
**HUMANITIES**



# Doctorate Recipients from United States Universities:

## Summary Report 2001

### 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, 2000, through June 30, 2001. This information is taken from the 2001 Survey of Earned Doctorates (SED), an annual census of new doctorate recipients.

- The 416 universities in the United States that conferred research doctorates awarded 40,744 doctorates during the 2000-2001 academic year (the eligibility period for the 2001 SED), a decline of 1.4 percent from the 41,340 doctorates awarded in 2000, and a 4.4 percent decline from the all-time high of 42,654 in 1998. The 2001 total is the lowest since 1993.
- The number of doctorates awarded by broad field in 2001 was greatest in life sciences, which conferred 8,296 Ph.D.s. The numbers in the other broad areas were 6,825 in social sciences; 6,324 in education; 5,970 in the physical sciences and mathematics (combined); 5,589 in the humanities; 5,502 in engineering; and 2,238 in business and other professional fields.
- Women received 17,901 doctorates, or 44.0 percent of all doctorates granted in 2001. This is the highest percentage ever for women, continuing a 30-year upward trend. Women earned 47.3 percent of the doctorates granted in life sciences, 54.4 percent in social sciences, 50.6 percent in humanities, 64.6 percent in education, and 42.7 percent in business/other professional fields. In the physical sciences and engineering, they constituted 25.2 percent and 16.9 percent, respectively. In 2001, 49.5 percent of all doctorates awarded to U.S. citizens went to women, similar to the 49.4 percent in 2000 and continuing a long-term trend of U.S. women approaching parity with their male counterparts.
- Over 16 percent of all doctorates awarded to U.S. citizens in 2001 were earned by U.S. racial/ethnic minority groups. This is the largest percentage ever, and continues a steady upward trend. Among the 26,435 doctorates earned in 2001 by U.S. citizens who identified their race/ethnicity (98.3 percent of all U.S. citizen doctorates), 1,604 doctorates were earned by blacks, 1,382 were earned by Asians, 1,119 were earned by Hispanics, and 149 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.
- U.S. citizens received 69.9 percent of all doctorates earned in 2001 by individuals who identified their citizenship status (94.5 percent of all doctorate recipients identified their citizenship). The People's Republic of China was the country of origin for the largest number of non-U.S. doctorates in 2001, with 2,670, followed by South Korea with 1,186, India with 950, Taiwan with 770, and Canada with 490. The percentage of doctorates earned by U.S. citizens ranged from lows of 41.1 percent in engineering and 54.7 percent in the physical sciences, to highs of 89.6 percent in education and 82.1 percent in the humanities.
- Median time to degree since receipt of the baccalaureate was 10.0 years in 2001, down from 10.3 years in 2000 and 10.4 years in 1999 and 1998. Median time to degree since first enrollment in any graduate program was 7.3 years in 2001, virtually unchanged since 1997.
- Most of the 2001 doctorate recipients (64.4 percent) received their primary financial support for graduate education from such program- or institution-based sources as university fellowships or teaching and research assistantships. Half (49.5 percent) of the 2001 doctorate recipients reported no educational indebtedness at completion of the doctorate; 17.9 percent reported cumulative education debt levels of \$30,000 or more.
- Approximately 73 percent of the new doctorate recipients had definite postgraduation commitments for employment or continued study when they completed the SED survey. Of those, 70.9 percent will work and 29.1 percent will continue their studies as postdoctorates. For U.S. citizens, 53.0 percent of those with firm employment commitments noted higher education as their intended work sector. About one-fifth (21.4 percent) indicated industry or self-employment, and 7.8 percent had definite plans for government work.

# Doctorate Recipients from United States Universities: Summary Report 2001

The Survey of Earned Doctorates is funded by  
and conducted under the direction of the following  
agencies of the U.S. government:

National Science Foundation  
National Institutes of Health  
U.S. Department of Education  
National Endowment for the Humanities  
U.S. Department of Agriculture  
National Aeronautics and Space Administration



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## NOTICE

This report is based on data collected in the Survey of Earned Doctorates (SED) conducted for the National Science Foundation (NSF), the National Institutes of Health (NIH), the U.S. Department of Education (USED), the National Endowment for the Humanities (NEH), the U.S. Department of Agriculture (USDA), and the National Aeronautics and Space Administration (NASA), by the National Opinion Research Center (NORC) under NSF Contract No. SRS-9712655. Findings in this publication represent analyses developed by NORC, which have been reviewed, but not necessarily verified, by the participating Federal agencies and do not necessarily reflect the views of the sponsoring agencies.

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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Hoffer, T.B., B. Dugoni, A. Sanderson, S. Sederstrom, V. Welch, I. Guzman-Barron, and S. Brown. 2002. *Doctorate Recipients from United States Universities: Summary Report 2001*. Chicago: National Opinion Research Center. (The report gives the results of data collected in the Survey of Earned Doctorates, conducted for six Federal agencies, NSF, NIH, USED, NEH, USDA, and NASA by NORC.)

This report is available on the NORC Web site: <http://www.norc.uchicago.edu/studies/sed/sed2001.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>.

## ACKNOWLEDGMENTS

Academic officers at the nation's doctorate-granting universities distribute, collect, and forward SED questionnaires to NORC. The project gratefully acknowledges the support and assistance of graduate deans and their staff, registrars, dissertation secretaries, and other administrators who participate in the SED effort and contribute to its success. The sponsoring Federal agencies and NORC also extend their heartfelt thanks to the 37,523 new research doctorate recipients who took the time to complete and return their copy of the 2001 survey.

The conduct of the SED, the maintenance of the resulting data file, and the publication of this report are funded jointly by the National Science Foundation (NSF), the National Institutes of Health (NIH), the U.S. Department of Education (USED), the National Endowment for the Humanities (NEH), the U.S. Department of Agriculture (USDA), and the National Aeronautics and Space Administration (NASA). Susan Hill (NSF) serves as the project officer for the six participating agencies. The survey's relevance to national policy issues has increased, thanks to the involvement and constructive reviews of the design and analysis of the survey by representatives from the six agencies: Walter Schaffer (NIH), Nancy Borkow (USED), Frank Shaw (NEH), S. Sureshwaran (USDA), Malcom Phelps (NASA), and Mary Golladay (NSF). Susan Hill (NSF), Director of the Doctorate Data project, provided guidance and direction during the preparation of this report. Comments from additional reviewers -- Mary Frase and Ronald Fecso -- NSF/SRS are also appreciated. Reviewers from the Council of Graduate Schools (Peter Syverson) and a Graduate School (Ellen Benkin) were invaluable and greatly appreciated.

The authors gratefully acknowledge the contributions of their NORC colleagues who provided valuable counsel, direction, and assistance with various survey responsibilities: Mary Hess, Project Manager; Lance Selfa, Director of Data File Construction; Jamie Friedman, Director of Institutional Contacting; Syed Ahsan, Project IT Manager; Sharnia Bullock, Coordinator for the Data Preparation Center; Jie Yin, Project Programmer; Cindy Simko, Research Specialist; Crystal Williams, Data Preparation Supervisor, and the Production Center Staff; and William B. Witherspoon, Research Assistant.

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# DOCTORATE RECIPIENTS FROM UNITED STATES UNIVERSITIES: SUMMARY REPORT 2001

## Introduction

*Doctorate Recipients from United States Universities: Summary Report 2001* is the thirty-fifth in a series of reports on research doctorates awarded by universities in the United States.<sup>1</sup> The data presented in this report are from the annual Survey of Earned Doctorates (SED), a census of the 40,744 research doctorate recipients who earned their degrees between July 1, 2000, and June 30, 2001. Conducted since 1958, this survey is sponsored by the following 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 cumulative database on research doctorate recipients from 1920 to 2001. For the 2001 survey, 92.1 percent of the 40,744 new doctorate recipients completed the SED questionnaire; basic information on nonrespondents was obtained from their degree-granting institutions and public records.<sup>2</sup> The cumulative DRF now contains a total of 1,436,919 records on individuals completing doctorates over the last 82 years at U.S. institutions.

## Organization

*Summary Report 2001* begins by reviewing overall trends in research doctorates awarded by U.S. universities. Trends in the numbers and percentages of research doctorates are reported by the broad fields in which research doctorate recipients earn their degrees, sex, race/ethnicity, and citizenship. Trends in the average amount of time taken to complete the doctorate degree are also reported. Cross-sectional data for the 2001 cohort are presented on the sources of financial support during graduate school, and the postgraduation status and plans of doctorate recipients.

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<sup>1</sup> 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.

<sup>2</sup> See appendix C for information on response rates for the SED.

Figures highlighting selected trend and cross-sectional data complement the brief narratives of key survey findings. A set of tables following the main text contains the numbers and percentages from which the figures and the numbers cited in the text are drawn. References to these tables are embedded in the text, and a reference at the bottom of each figure indicates the corresponding table number. Basic tables of statistics for the 2001 research doctorate recipients are shown in appendix A, and trend tabulations for the previous ten-year period (1991 to 2001) are presented in appendix B. These basic tables have maintained essentially the same structure for the past several annual volumes of the Summary Report, and thus provide a basis for additional trend analyses that researchers can pursue. Appendix C supplies technical notes, including response rates, and other information related to tables and figures in the report. Appendix D contains the SED questionnaire for the 2001 academic year. Field of study classifications and research degree titles included in the SED are listed in Appendix E.

### **Questionnaire Changes**

Several changes were made to the SED questionnaire between this survey year (July 1, 2000, to June 30, 2001) and the previous one (July 1, 1999, to June 30, 2000). The changes include the addition of a few entirely new questions, the deletion of some items, slight modifications in question wording and the order of response options, and some alterations in the order in which certain questions were asked. A summary of the changes, including a comparison with the previous survey instrument, is presented in the annual SED methodology report available on the NSF Website listed at the end of this Introduction.

There were substantive changes to some questions in the SED 2001, and some of these changes affect the comparability of responses to the new and old SED forms. At the appropriate sections in this Summary Report, we will note the implications both for the trend data and for the cross-sectional 2001 cohort descriptions.<sup>3</sup>

Another important development in the SED methodology is the introduction of a Web-based questionnaire. Used on a very limited basis in the 2000 cycle, access to the Web instrument was expanded in 2001 and over 500 doctorate recipients completed the questionnaire

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<sup>3</sup> In the 2001 survey year, about 14 percent of doctorate recipients completed the SED form from a year that did not correspond to the actual degree year. This does not present a problem unless there are significant changes in the content of the questionnaires between years.

in this form. This number is expected to grow in years to come, and the project is monitoring closely the performance of the electronic instrument and the quality of the data obtained from it.

### **Related Publications**

The methodology of the SED 2001 survey is described in detail in the annual *Survey of Earned Doctorates Methodology Report*. This report is posted on the National Science Foundation, Division of Science Resources Statistics (SRS) Website (<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*, that is available from NSF-SRS in printed form or on the NSF-SRS Website. Copies of the annual *Summary Report* from previous years are available on the NORC Website (<http://www.norc.uchicago.edu/issues/docdata.htm>).

## Trends in Doctorate Recipients

The individual research doctorate recipients<sup>4</sup> from all U.S. universities are the primary respondents to the Survey of Earned Doctorates. Each year, personnel in graduate schools or other administrative offices of the degree-granting universities distribute the SED questionnaires to these individuals and transmit the rosters and completed questionnaires 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. Every effort is made to locate all new graduates who did not return a questionnaire to their graduate school and to ask them to complete the form. The graduate schools provide basic information on individual nonrespondents at the end of the data collection cycle. A comprehensive and accurate picture of the universe of new doctorates each year results from this process, and the SED data provide a solid basis for charting trends in the numbers and characteristics of this population.

### Overall Trends and Rates of Change

During the twelve-month period ending June 30, 2001, U.S. universities awarded 40,744 research doctorate degrees, compared with 41,340 in 2000 and 41,097 in 1999 (see table 1). This was a percentage decrease from 2000 to 2001 of 1.4 percent, and of 4.5 percent from the all-time high of 42,654 in 1998. The 2001 total is the lowest since 1993.

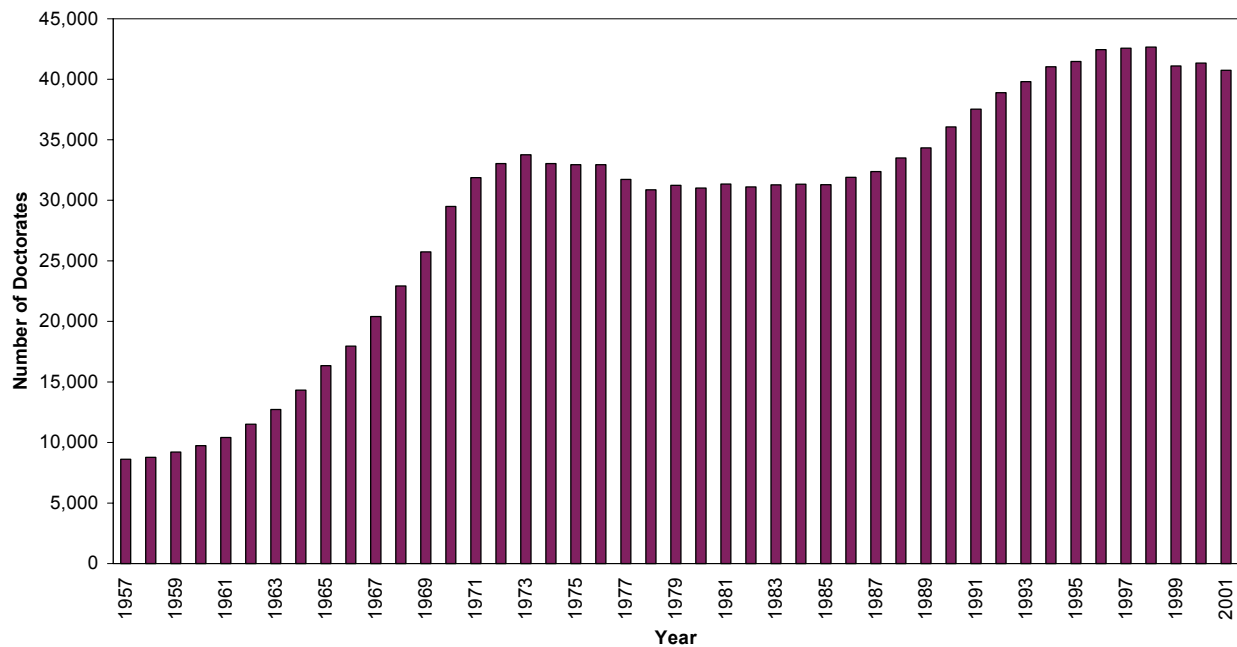
Despite the lack of growth in 2001, the long-term trend in the number of new research doctorates has been one of considerable expansion. Over the last 40 years, the increase in the number of doctorates granted by U.S. universities averaged approximately 3.3 percent per year. The expansion has been characterized by two periods of rapid growth followed by stability and

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<sup>4</sup> 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., and D.Min.) 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.

even slight declines as seen this year. Between 1961 – the year when the number of annual doctorates awarded surpassed 10,000 for the first time – and 1967, the annual growth rate was nearly 12 percent, and the number of doctorates awarded almost doubled (20,403). Following this, the annual total topped 30,000 (31,867) for the first time, in only four more years (1971). The number of doctorate degrees annually awarded during the decades of the 1970s and 1980s remained moderately stable at about 30,000 each year. In 1986, a second period of growth began that persisted until the late 1990s. The total figure did not exceed 40,000 until 1994 (41,037), 23 years after it had reached the 30,000 mark. The numbers have been fairly stable since then, with only slight annual increases or decreases. In 1999 – for the first time in fourteen years – the total number of doctorates declined from the previous year. A moderate increase occurred in 2000, when the level was similar to the level in 1994; but as mentioned previously, the figure fell slightly a year later in 2001. (See figures 1 and 2.)

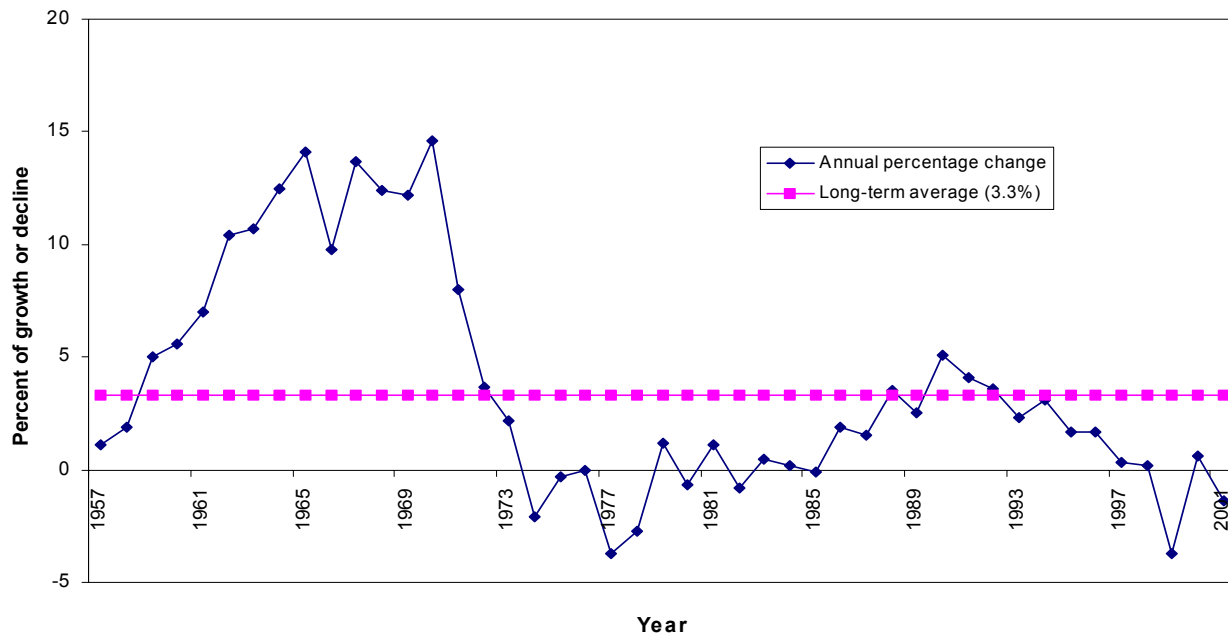
**Figure 1. Doctorates awarded by U.S. universities, 1957-2001**



See Table 1.

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

**Figure 2. Annual growth or decline in doctorates awarded by U.S. universities, 1957-2001**



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 survey staff monitor closely the universe of research doctorate-granting institutions, including an annual review of all accredited institutions recognized by the U.S. Department of Education in its Integrated Postsecondary Education Data System (IPEDS). The data collection contractor for the SED contacts newly-identified institutions granting one or more of the research doctorates listed in appendix E and includes the institutions in the SED universe as soon as they award a recognized degree. Appendix table A-7 contains the full list of institutions granting research doctorates in the 2001 academic year.

During the 2001 academic year, there were 416 universities in the United States and Puerto Rico that awarded at least one research doctorate. This is the highest number of institutions ever recorded in the SED, and reflects a trend of steady increases in the number of doctorate-granting institutions from the early 1960s (175 in 1962). (See table 2.)

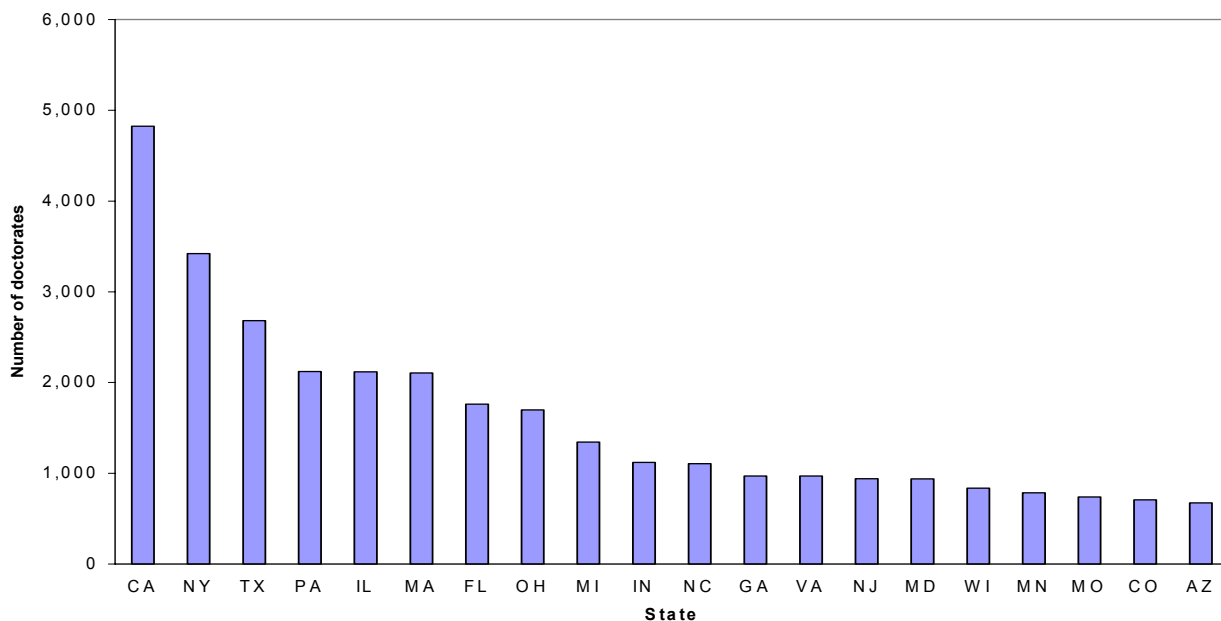
In 2001, the mean number of doctorates awarded per institution was 98, while the median was 37. (See table 2 for the mean and median numbers of doctorates awarded per institution from 1962 to 2001.) As the substantial difference between the mean and the median suggests, a

relatively small number of institutions award a disproportionately large number of doctorates. Just 48 institutions granted 50 percent of all doctorates in 2001. Eighteen institutions accounted for 25 percent of all doctorates granted; the second quartile contained 30 institutions, the third quartile included 56 universities; and the remaining 312 institutions accounted for the final 25 percent of doctorates.<sup>5</sup>

The University of California-Berkeley granted the largest number of doctorates, 751, or 1.8 percent of all doctorates awarded in 2001, followed by the University of Texas at Austin (732), the University of Illinois at Urbana-Champaign (673), and the University of Wisconsin-Madison (656). In 2000 and 2001, the top 10 institutions granted approximately 15.5 percent of all doctorates. (See table 3.)

The state-by-state totals in figure 3 and table 4 show that California universities led the nation by awarding 4,824 doctorates, or 11.8 percent of all doctorates in 2001. New York institutions granted the next highest number of doctorates (3,420), followed by institutions in Texas (2,683), Pennsylvania (2,121), Illinois (2,119), Massachusetts (2,106), Florida (1,761), and Ohio (1,697). These eight states accounted for a just over half – 50.9 percent – of all doctorates awarded in 2001. (See figure 3 and table 4.)

**Figure 3. Top 20 doctorate-granting states, 2001**



See Table 4.

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

<sup>5</sup> Calculations derived from appendix table A-7.

## Doctorates by Field of Study

There were 287 fields of specialization into which the SED classified research doctorate degrees in 2001 (these are listed on page 7 of the questionnaire included in appendix D). Since fields of specialization are dynamic entities that reflect the evolving programs of researchers and their constituencies, each year the SED list is assessed in order to identify emerging fields and periodically modified 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 2001 was attained for all of the 40,744 doctorate recipients.

Consistent with past practice in presenting the SED data, the fields of specialization are grouped into seven broad fields: physical sciences,<sup>6</sup> engineering, life sciences,<sup>7</sup> social sciences (including psychology), humanities, education, and a heterogeneous group of professional and other fields (including business, communications, social work, and theological programs). Appendix tables A-1, A-2, and B-1 contain the numbers of graduates in all fields.

Table 3 lists, for the institutions granting the largest numbers of doctorates, the number of doctorates granted in 2001 in each of the seven broad fields. The University of California-Berkeley awarded the most doctorates in the physical sciences (168). The Massachusetts Institute of Technology (MIT) granted the most engineering doctorates (226), while the Johns Hopkins University led all universities in the life sciences (189). The University of Texas-Austin topped the list both for social science doctorates (113) and for doctorates in the humanities (150). Nova Southeastern University had the highest total in education (314) as well as in the diverse “professional/other” category (84).

The numbers of doctorates awarded in the seven broad fields were also concentrated in a relatively small number of institutions. While the top 10 degree-granting universities awarded 15.5 percent of all doctorates in 2001, the concentration was higher in six of the seven broad fields: 19.1 percent in the physical sciences, 28.5 percent in engineering, 17.6 percent in the life sciences, 22.0 percent in the humanities, 19.1 percent in education, and 20.4 percent in the professional/other category. Only in the social sciences was the concentration lower than the overall average (14.0 percent). (Derived from table 3.)

The overall decrease of 1.4 percent in doctorates awarded between the 2000 and 2001 academic years was a result of decreases in six of seven broad fields, offsetting a 3.4 percent

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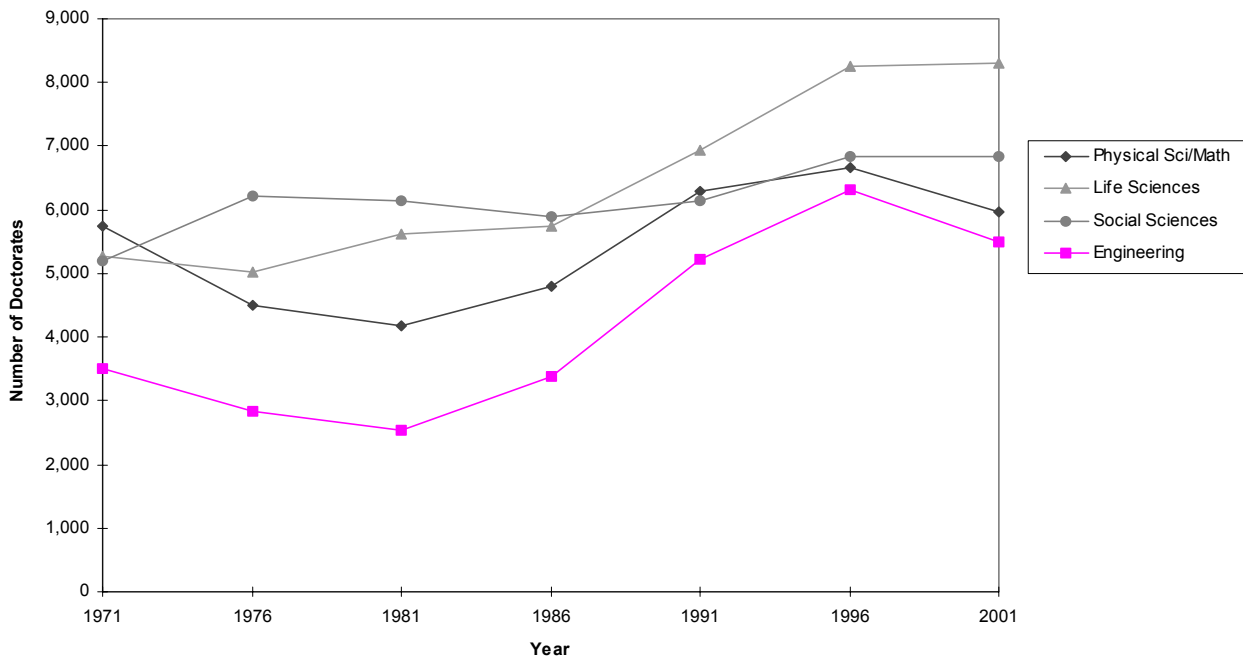
<sup>6</sup> The physical sciences also include mathematics and computer sciences in this report.



increase in engineering. The life sciences, physical sciences, and education showed decreases of 2.7, 1.7, and 1.5 percent, respectively. Social sciences registered the largest percentage drop, 4.0 percent. Humanities and professional/other saw smaller decreases. (See appendix table B-1)

Maintaining its position since 1988, the life sciences were the largest single broad field with 8,296 doctorates. Compared with five years ago, when the total number of doctorates awarded was almost 1,700 more than the total in 2001, engineering, the physical sciences, and professional/other showed large decreases: 12.8 percent, 10.5 percent, and 9.6 percent lower in 2001 than in 1996, respectively. (See table 5.) Education (-6.8 percent) was also lower while the total numbers completing doctorates in the life sciences and social sciences were about the same. Humanities registered the only percentage increase from 1996 to 2001, with 9.3 percent more degrees awarded in 2001 than five years earlier. (See table 5 and figures 4 and 5.)

**Figure 4. Science and engineering doctorates awarded by broad field, 1971-2001**

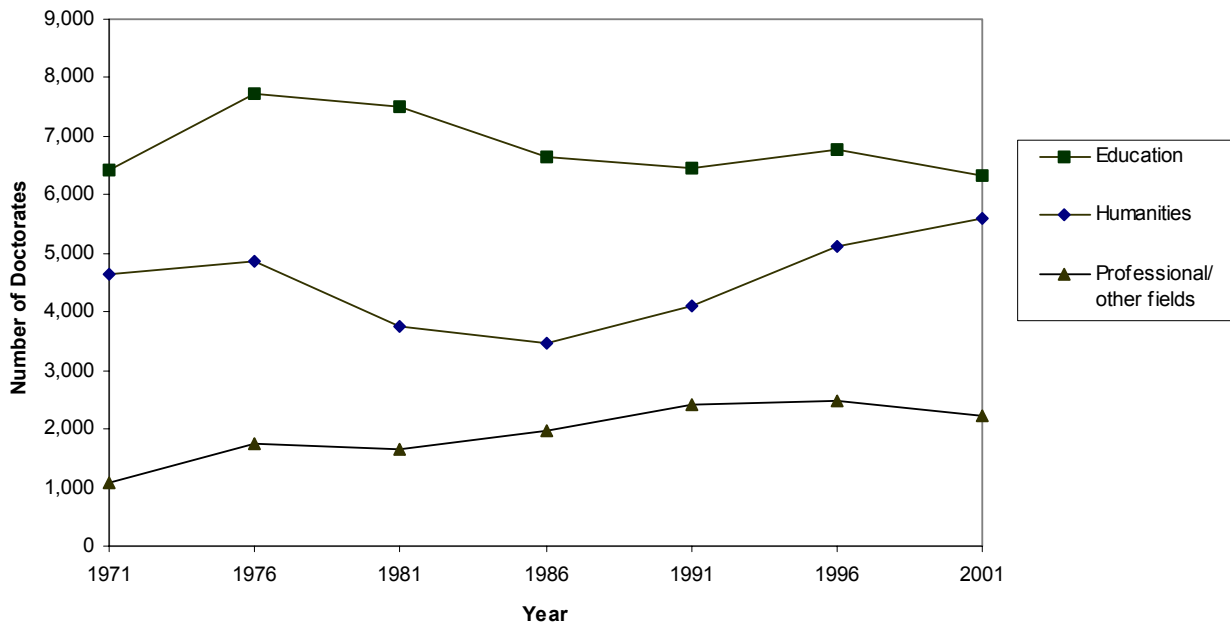


See Table 5.

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

<sup>7</sup> The life sciences encompass biological, agricultural, and health sciences in this report.

**Figure 5. Humanities, education, and professional/other fields doctorates awarded, 1971-2001**



See Table 5.

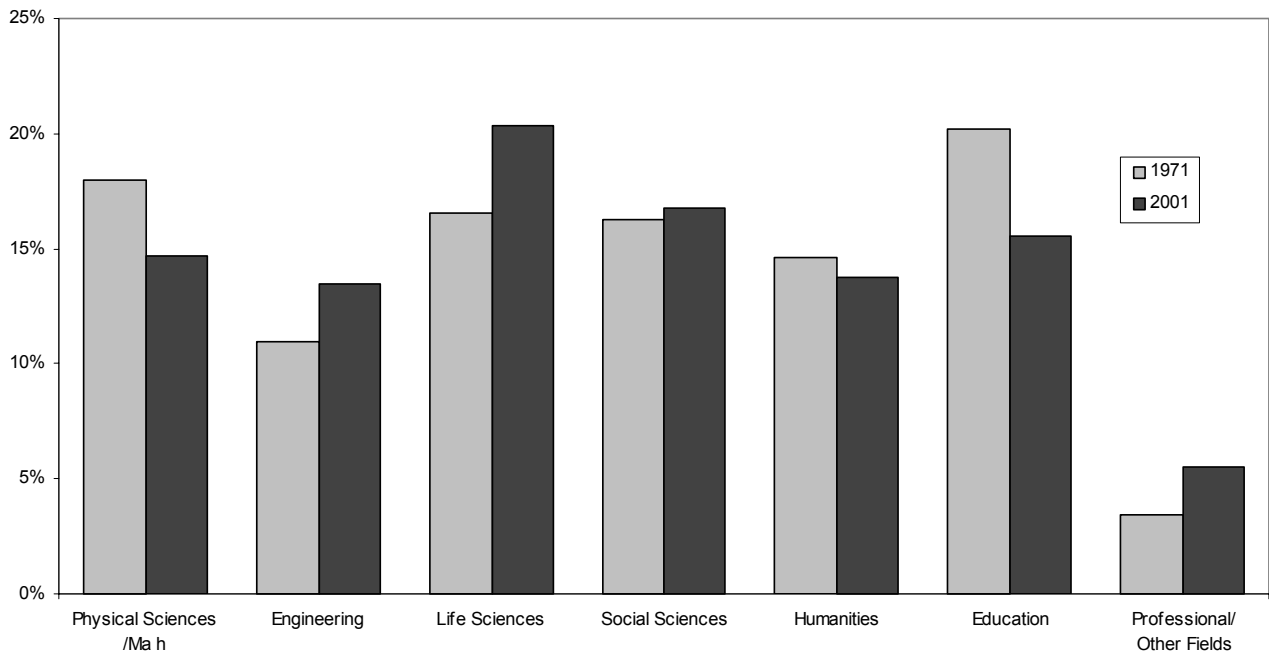
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

Physical sciences, life sciences, social sciences, and engineering – the four broad fields that together constitute “science and engineering” (S&E) – represented 65.3 percent of all doctorates awarded in 2001. They accounted for approximately the same percentage of all doctorates (65.5 percent) ten years ago in 1991, but the S&E fields represent a larger percentage of the total in 2001 than 25 years ago (1976), when they comprised 56.4 percent of all new doctorate recipients. (See table 5.)

A more detailed classification of the SED fields of specialization is presented in table 5. Of the 25 subfields included in table 5, there were 19 which experienced declines in the number of doctorates awarded between 2000 and 2001 (see appendix table B-1 for the 2000 totals). Comparing 1996 with 2001, nine of the 25 subfields had larger absolute numbers of doctorates in 2001, and 15 had smaller numbers; within S&E fields in these same two years, five subfields had larger totals in 2001 than in 1996, and 10 had smaller ones. In the professional/other field, the subfield of communications was the same for both years. For the five-year comparisons within S&E, the health sciences and some of the social sciences showed the only gains while all of the physical sciences, engineering, biological sciences, and agricultural sciences showed losses. (See table 5.)

A comparison of the percentage distribution of doctorates recipients in 1971 and 2001 across the seven broad fields is shown in figure 6. The relative shares of graduates in engineering, life sciences, social sciences, and the professional/other fields were greater in 2001 than in 1971, while the relative shares in physical sciences and mathematics, humanities, and education were smaller in 2001. (See figure 6.)

**Figure 6. Distribution of doctorate recipients by broad field, 1971 and 2001**



See Table 5.

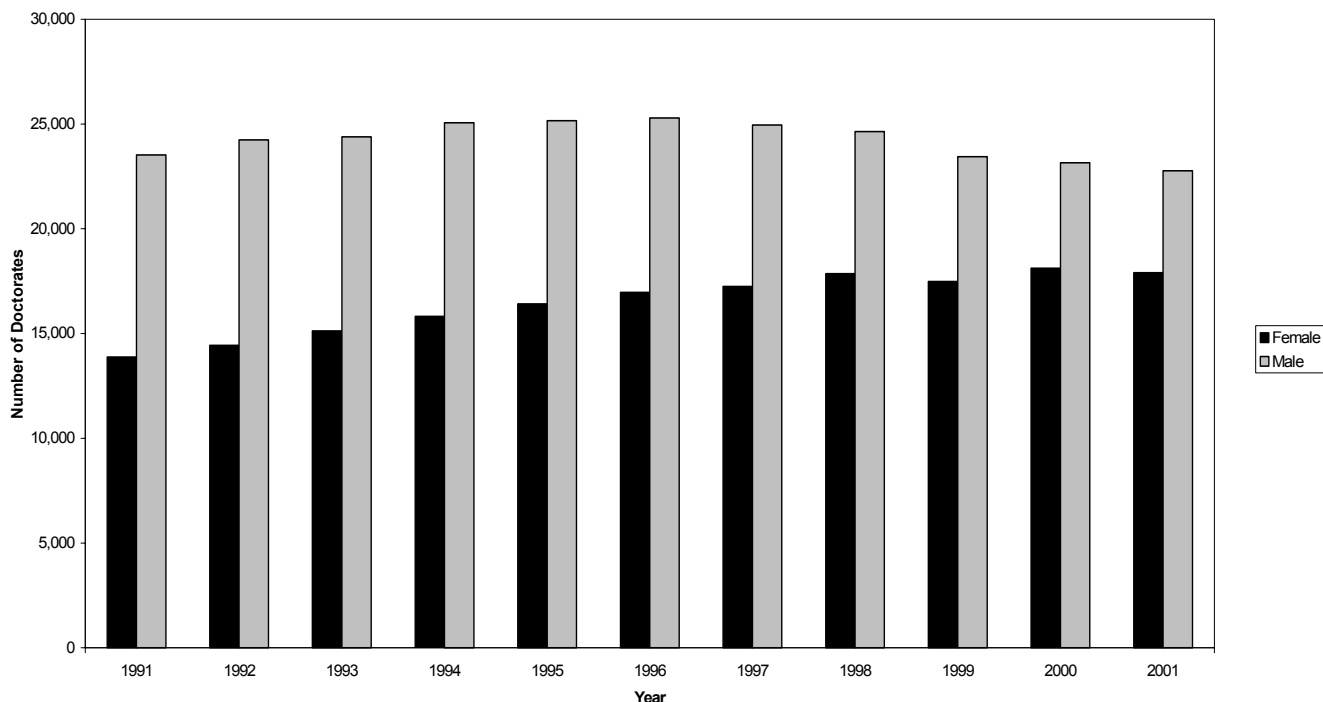
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

## Doctorates by Sex

The overall decrease in doctorates between 2000 and 2001 – 1.4 percent – reflects a 1.7 percent decline for males and a 1.2 percent decline for females. The number of doctorates awarded to men in 2001 fell by 386 and to women by 213 in 2001 compared to 2000. The net proportional effect is that for 2001, females received 44.0 percent of all doctorates, which is the highest percentage of women ever recorded by the SED, topping slightly the 43.9 percent in

2000.<sup>8</sup> This number signifies the sixth consecutive year in which the representation of female doctorate recipients has surpassed 40 percent. Five years ago (1996), females comprised 40.1 percent of all doctorate recipients; 10 years ago (1991), that percentage was 37.1 and 25 years ago (1976), it was 23.3 percent. (See figure 7 and table 7.)

**Figure 7. Doctorate recipients by sex, 1991-2001**



See Appendix Tables B-2b and B-2c.

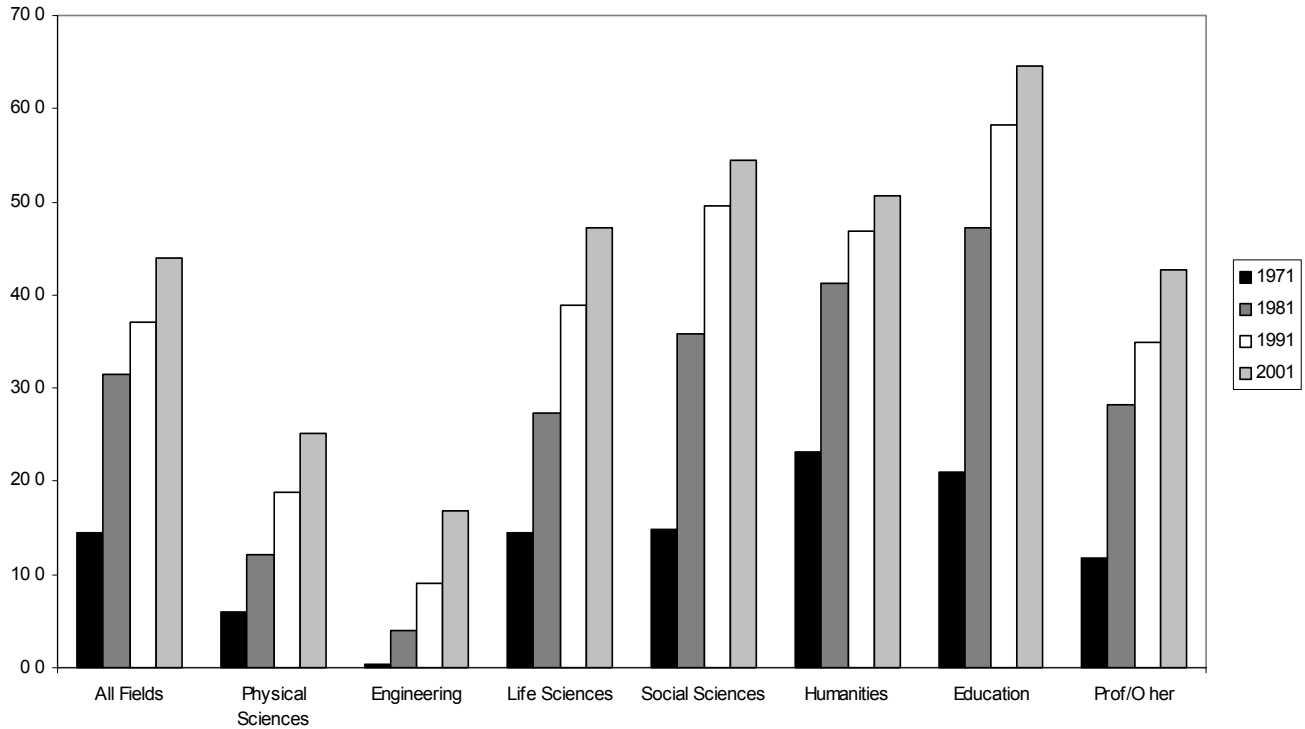
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

With respect to the broad fields of study, women constituted 64.6 percent of all education doctorates for 2001, the majority in the social sciences (54.4 percent), and half in the humanities (50.6 percent). In contrast, the representation of females among doctorate recipients in the physical sciences and engineering for 2001 was only 25.2 percent and 16.9 percent, respectively (figure 8). However, even these still-low percentages have shown significant change over time: when females were only 23.3 percent of all doctorate recipients 25 years ago, they constituted just 9.3 percent and 1.9 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 20.2

<sup>8</sup> For 2001, sex could not be determined for 74 doctorate recipients; these 74 are not part of these and

percent in 1976 to 47.2 percent in 2001; from 26.3 percent to 54.4 percent in the social sciences over that same period; and from 34.3 percent in the humanities in 1976 to the current 50.6 percent. (See figure 8 and table 7.)

**Figure 8. Percent of female doctorate recipients, by broad field, 1971, 1981, 1991, 2001**



See Table 7.

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

In 2001, females constituted 37.8 percent of S&E doctorate recipients and 55.6 percent of degrees in non-S&E fields. With regard to finer field distinctions, of the 25 selected subfields listed in table 6, women were the majority of doctorate recipients in ten fields and constituted at least 40 percent of the doctorate population in five additional areas. In four of the 25 fields, the percentage increase in female doctorate recipients between 1991 and 2001 was over 40 percent. (See table 6.)

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other percentage calculations. Coincidentally, sex was not known for 74 also in 2000.

## **Doctorates by Race/Ethnicity**

Following the new Federal standards established for the 2000 decennial census of the U.S. population, the SED changed the way in which race and ethnicity were requested in the 2001 questionnaire. The new format asked respondents to mark all racial categories that apply to them, rather than a single category as had been the wording since 1973 when race and ethnicity questions were first added to the SED questionnaire. Additional changes included separating Pacific Islanders from Asians and combining them with Native Hawaiians in a new racial category, and adding a Cuban response option to the Hispanic ethnicity question. A copy of the new questionnaire is included in appendix D.

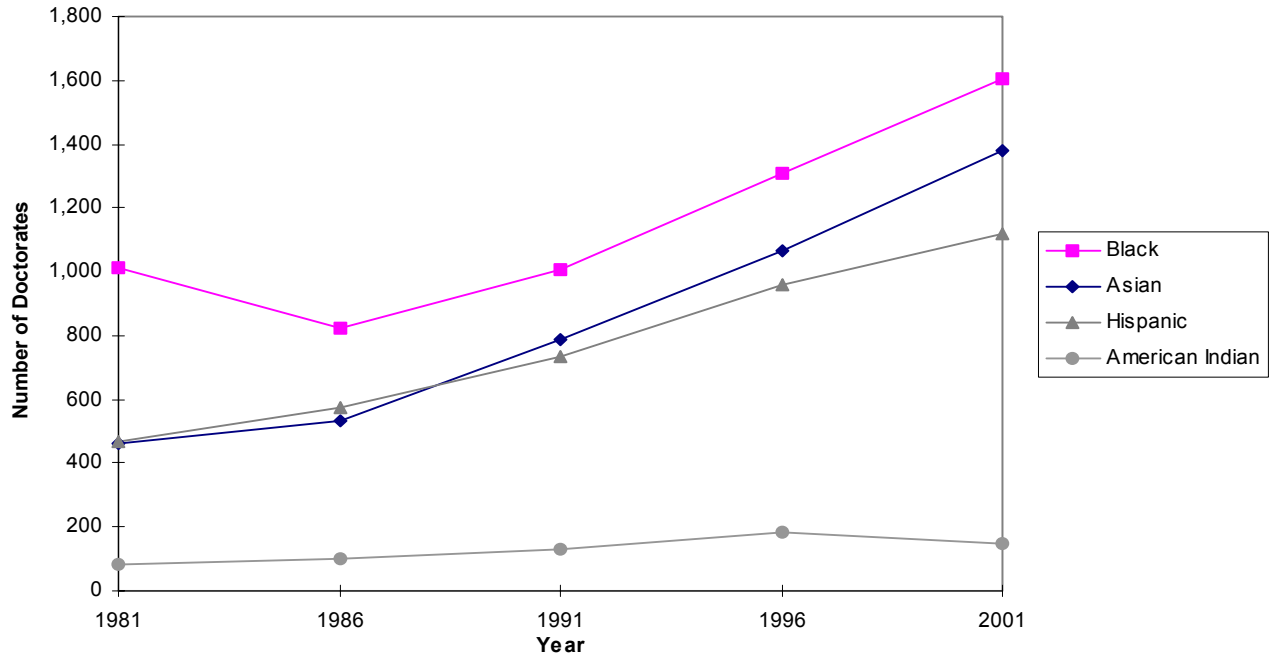
As noted in the Introduction, about 14 percent of the 2001 doctorate recipients completed the 2000 SED questionnaire instead of the one for the 2001 academic year. Looking just at the data from the new form, a few points can be noted. The main change in the 2001 data from the past is that 293 new doctorate recipients chose multiple races. A total of 46 respondents identified themselves as Native Hawaiians or other Pacific Islanders, and 86 individuals indicated Cuban origins under Hispanic ethnicity. Individuals indicating multiple races and Native Hawaiian or other Pacific Islander are grouped as a separate category and not included in the trend comparisons presented here. Individuals indicating Cuban origins, in contrast, are included in the Hispanic category used throughout this report.

A total of 4,254 members of U.S. racial/minority groups were awarded doctorates, representing 16.1 percent of the U.S. citizens earning research doctorates in 2001 (see table 8). While the number is slightly lower than in 2000 when 4,340 minority group members earned doctorates, the 2001 minority percentage represents an increase from 15.8 percent in 2000, and is the highest percentage yet recorded in the SED (see appendix table B-2a.). Blacks earned the most doctorates (1,604) of the four main U.S. minority populations in 2001, followed by Asians (1,382), Hispanics (1,116), and American Indians (149) (see table 8).

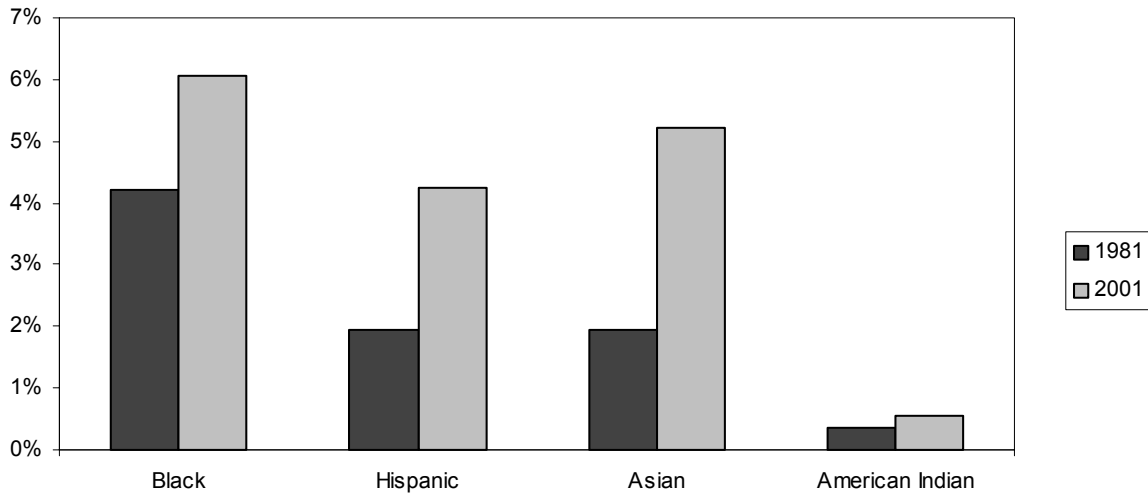
The 2001 number of minority doctorate recipients is 27.6 percent higher than the total five years earlier (1996) and 72.2 percent higher than 10 years ago (1991). As the figures in the first panel of table 8 indicate, doctorates awarded to U.S. minority groups generally increased much more in the 1990s than in the 1980s. The twenty-year gains were greater for Asians (198

percent) and Hispanics (140 percent), than for American Indians (75 percent) and blacks (58 percent). (See figures 9 and 10 and table 8.)

**Figure 9: Doctorates awarded to minority U.S. citizens, by race/ethnicity, 1981-2001**



**Figure 10. Percentage of doctorates earned by minority U.S. citizens, 1981 and 2001**



See Table 8.

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

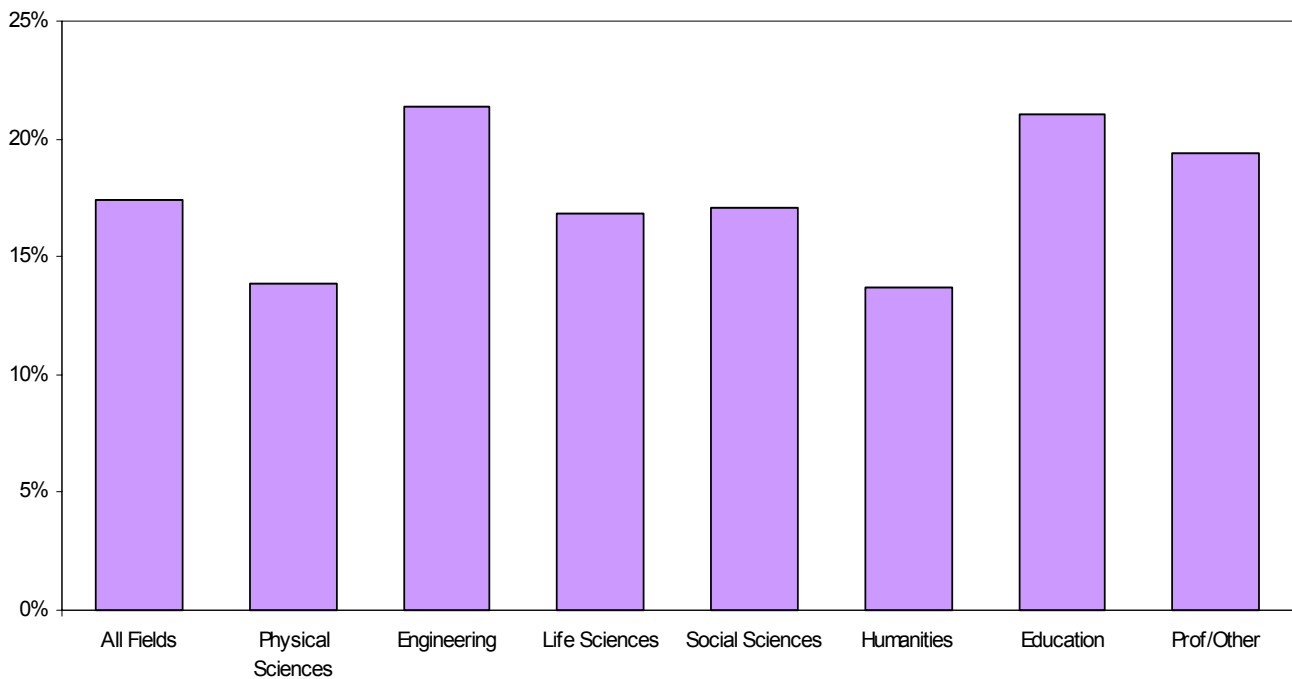
U.S. minorities (combining Asians, blacks, Hispanics, and American Indians) had their largest presence in the broad fields of engineering (20.0 percent of U.S. citizens earning doctorates), education (20.1 percent), and the professional/other fields (18.3 percent) in 2001.



The lowest percentage representations were in physical sciences (12.5 percent) and humanities (12.4 percent). (See figure 11).

The proportional representation of the different minority groups varied by broad field. Asians were the largest contingent in physical sciences, engineering, and life sciences, representing over half of all minority group members earning doctorates in those fields during the 2001 academic year. Blacks were the largest minority population in social sciences, education, and professional/other fields. Hispanics were the largest minority population in humanities. All of these patterns of relative representation held in each year shown in table 8, back to 1981. (See table 9 for the numbers of minority doctorate recipients in each of the 25 subfields in 2001.)

**Figure 11. Percentage of doctorates earned by minority U.S. citizens, by broad field, 2001**



See Table 8.

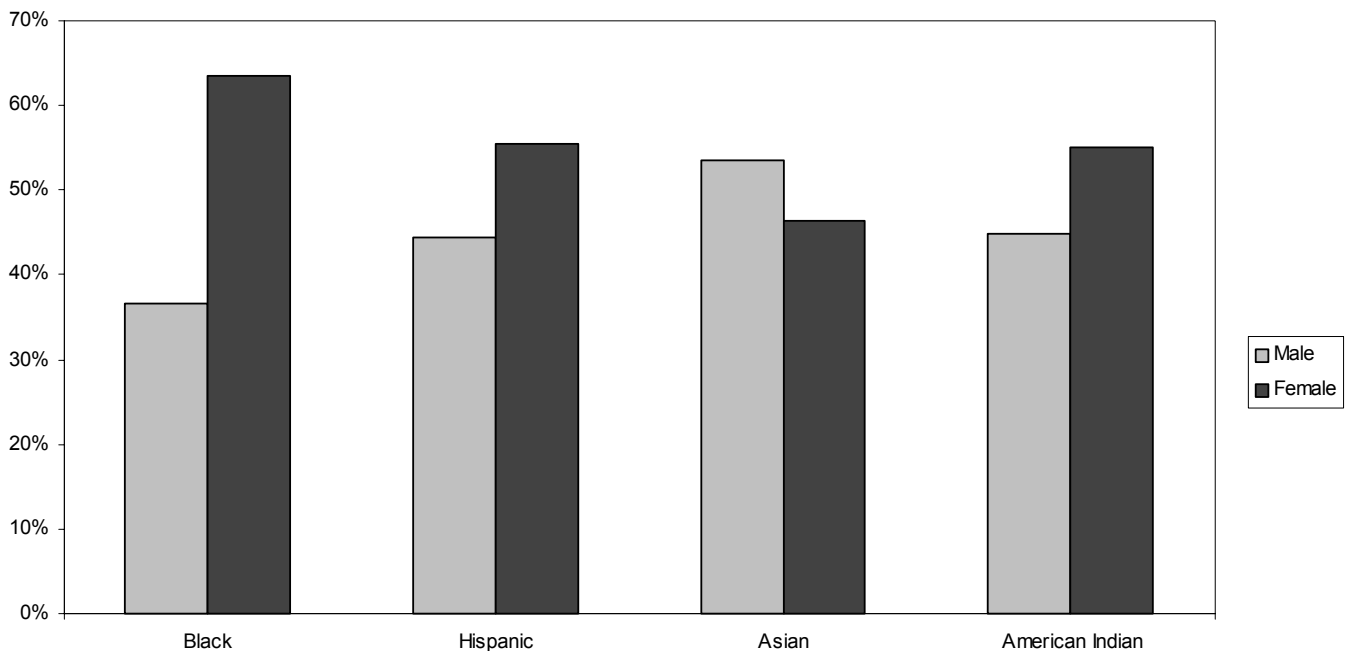
Source: NSF/NIH/USED/NEH/USDA/NASA, Survey of Earned Doctorates

The pattern of growth for the aggregate minority populations 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 in the late 1980's and early 1990's, but experienced a slight decrease from 1996 to 2001. The general pattern for minority recipients,

however, was one of relatively small increases from 1981 to 1991 followed by moderate increases from 1991 to 2001. (See table 8.)

The balance of male and female doctorate recipients varies between racial/ethnic groups. Among U.S. citizens, of doctorates earned by whites, 48.5 percent were awarded to women; for blacks, various Hispanic groups, and American Indians, women constituted a majority, earning between 55.0 percent and 63.4 percent of doctorates received by persons of those races or ethnicities. Among Asian Americans, women were 46.4 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, 2001**



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 of the four main U.S. minority groups between 1997 and 2001, and the number granted. Over that five-year interval, three California institutions – Berkeley, UCLA, and Stanford – and two in Massachusetts – Harvard and MIT – awarded a total of 1,156 doctorates to Asian Americans, or 17.8 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 (336 and 241, respectively), 7.5 percent of all the doctorates granted to blacks in this period. In

general, the leading institutions awarding doctorates to Hispanics lie in the Southwest, including California, and in Puerto Rico. Oklahoma State University and the University of Oklahoma awarded the largest number of doctorates to American Indians.

The concentration of U.S. minority doctorate recipients among institutions is noticeably greater than for the doctoral population as a whole. For example, in 2001 the ten universities granting the largest numbers of doctorates conferred 15.5 percent of all doctorates. However, over the 1997-2001 period, the ten universities awarding the most degrees to minority students in each of the four groupings accounted for nearly 20 percent of those totals. The ten institutions that awarded the most doctorates to Asians (table 10) granted 27.0 percent of all Asian doctorates between 1997 and 2001; for blacks the corresponding figure was 19.3 percent; for Hispanics it was 23.9 percent, and for American Indians it was 19.6 percent. (See table 10.)

### **Doctorates by Citizenship**

Each year, the SED gathers information concerning the U.S. citizenship status and country of citizenship of the new doctorate recipients.<sup>9</sup> Of the 2001 doctorate recipients with known citizenship status (94.5 percent of the total), 69.9 percent were U.S. citizens, 4.7 percent were non-U.S. citizens with permanent resident visas for the United States (i.e., “green cards”), and 25.4 percent were non-U.S. citizens in the U.S. on temporary visas. (See table 11.)

The trend for non-U.S. citizens earning doctorates from U.S. institutions is generally one of increasing numbers. This is particularly true for individuals in the U.S. on temporary visas. The five-year snapshots shown in table 11 indicate that the percentage of new doctorates awarded to individuals on temporary visas rose from 8.6 percent of all doctorate recipients who reported citizenship in 1971 to 13.1 percent in 1981 and 25.5 percent in 1991. The growing numbers of doctorates awarded to foreign students on temporary visas has accounted for most of the overall growth in the numbers of doctorate recipients since 1970.

The time trend for doctorate recipients with permanent visa shows more fluctuation. There was a historic peak in 1996 because of an exceptionally large number of Chinese students

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<sup>9</sup> The percentage of cases with missing data on citizenship status (U.S. versus non-U.S.) and country of citizenship has fluctuated more year to year than other SED variables (see appendix table C-3), and the over-time comparisons are thus subject to some uncertainty.

that obtained permanent visas that year. Except for that year, the number of doctorate recipients with permanent visas has ranged between 1,200 and 1,900 since 1971. (See table 11.)

U.S. citizens earned over 80 percent of the doctorates awarded in the humanities and education (82.1 percent and 89.6 percent, respectively) in 2001. (See table 11.) In absolute numbers, U.S. citizens earned more doctorates in the life sciences than in any of the other broad fields; permanent residents also had their highest total in the life sciences, and engineering was the most popular field for those in the United States on temporary visas.

The trend towards the equal male and female representation in the doctoral cohorts is particularly striking for U.S. citizens. In 2001, 49.5 percent of all doctorates awarded to U.S. citizens went to women, similar to the 49.4 percent in 2000 and continuing a long-term trend of U.S. women approaching parity with their male counterparts. Among U.S. citizens, women earned 43.7 percent of all doctorates in 1991. While the number of doctorates going to U.S. males was relatively level across the 1990s, the number earned by U.S. women increased every year with the exception of 1999. The number also decreased in 2001 compared to the year before. (See appendix tables A-4 and B-2.)

Among permanent residents earning doctorates in 2001, 45.4 percent were female, and among those doctorate recipients holding temporary visas, just 28.6 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 15.6 percent of all female doctorates in 2001, they earned 19.8 percent of the doctorates granted to females in the life sciences, 32.6 percent of the doctorates earned by females in the physical sciences, 44.0 percent of the female-earned doctorates in engineering. (Appendix table A-3c).

In 2001, 2,670 doctorate recipients were citizens of the People's Republic of China (PRC)<sup>10</sup>, comprising 6.6 percent of the total 40,744 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 2000 remained the same for 2001, aside from France taking Italy's former place in the ranking. Thailand traded places with Japan, moving from tenth to seventh place; while Russia and Mexico also traded places with each other, moving to ninth and tenth, respectively. The leading five countries accounted for 14.9 percent of all doctorates awarded by U.S. universities in 2001. Only 5.8 percent of the total 2001 doctoral

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<sup>10</sup> Includes Hong Kong beginning with the 2000 SED cycle.

cohort were citizens of the next 10 nations listed in table 12, and just 3.2 percent were citizens of the next 15 nations. Doctoral students who are citizens of one of the 30 nations shown in the table thus accounted for 23.9 percent of the doctorates awarded in 2001 with country of citizenship reported.

Table 13 lists the institutions awarding the largest numbers of doctorates to non-U.S. citizens in 2001; table 14 provides a corresponding relative ranking – those institutions awarding the most doctorates as a percentage of the total number of Ph.D.s they granted.

### **Doctorates by Parental Education Background**

The SED has asked new doctorate recipients to report their fathers' and mothers' levels of educational attainment since 1963. 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.

The 2001 data shown in table 15 indicate that 29.8 percent of recipients' fathers had only earned a high school diploma or less; the corresponding figure for their mothers was 38.7 percent. Slightly over one-third (35.3 percent) of doctorate recipients had a father who had attended college (but may not have earned a baccalaureate degree); 39.8 percent of the mothers of doctorate recipients in 2001 had some college background. Finally, the father held an advanced degree for 34.9 percent of the doctorate recipients, compared with the 21.5 percent whose mothers had an advanced degree.

Although similar on the whole, parental education backgrounds of male and female 2001 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. Among U.S. citizens, Asian doctorate recipients were more likely than members of the other racial/ethnic categories to come from families in which the one or both parents 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 racial/ethnic and citizenship compositions of the fields. Doctorate recipients in the humanities displayed the highest percentages of both fathers (43.8 percent) and mothers (28.5 percent) with advanced degrees. The lowest percentages of advanced degrees by fathers or mothers were within the education doctorate recipients, 22.2 percent and 13.2 percent, respectively. These two broad fields are also the least and most represented, correspondingly, with regard to the fraction of parents whose formal education ended at high school or before.

### **Time to Degree**

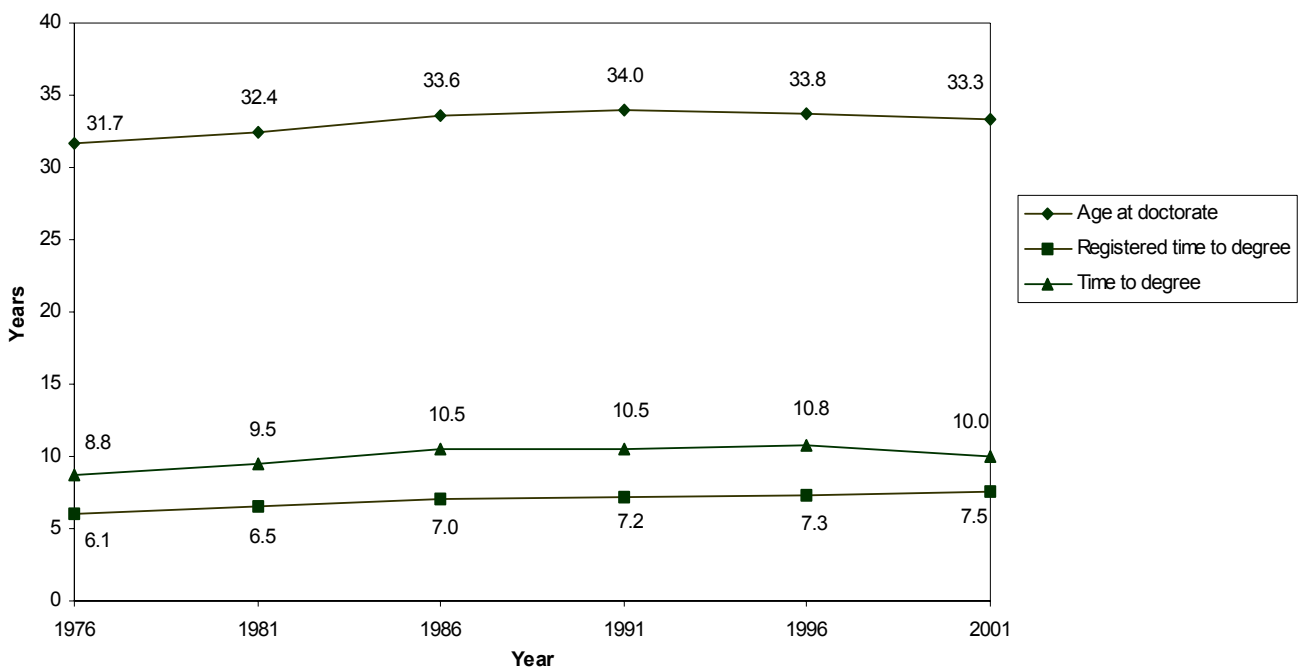
The amount of time needed to complete a doctorate is a key concern for those pursuing the degree, as well as for the faculties and administrations of the degree-granting institutions and national public agencies and private organizations that support doctoral study. Time to degree completion is likely to be affected by individual preferences and economic constraints, in addition to labor markets and cultures of the academic disciplines and institution-specific program characteristics.

The SED measures time to degree in three different 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 age of the doctorate recipients at the time the doctorate is awarded. In this section, the 2001 data and the historical trends for each of these measures are reviewed for the whole population of doctorate recipients and, separately, by broad field and the background variables of sex, race/ethnicity, and citizenship.

For the 2001 doctorate recipients, the median total time span from baccalaureate to doctorate was 10.0 years (table 16), nearly the same as in 2000. The total time span was shortest in the physical sciences (7.8 years) and longest in education (19.0 years). The broad field of education 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 2001 median total time to degree was about 9 months shorter than in 1996. The long-term trend had been one of increases in length from 1976 to 1996 (see figure 13 and table 16). From 1996 to 2001, the broad fields of engineering, physical sciences, life sciences, social sciences, humanities, and education follow an overall pattern toward shorter times; but median time to degree for the professional/other fields increased from 1996 to 2001.

**Figure 13. Median number of years to doctorate from baccalaureate award and age at doctorate, 1976-2001**



See Table 16.

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

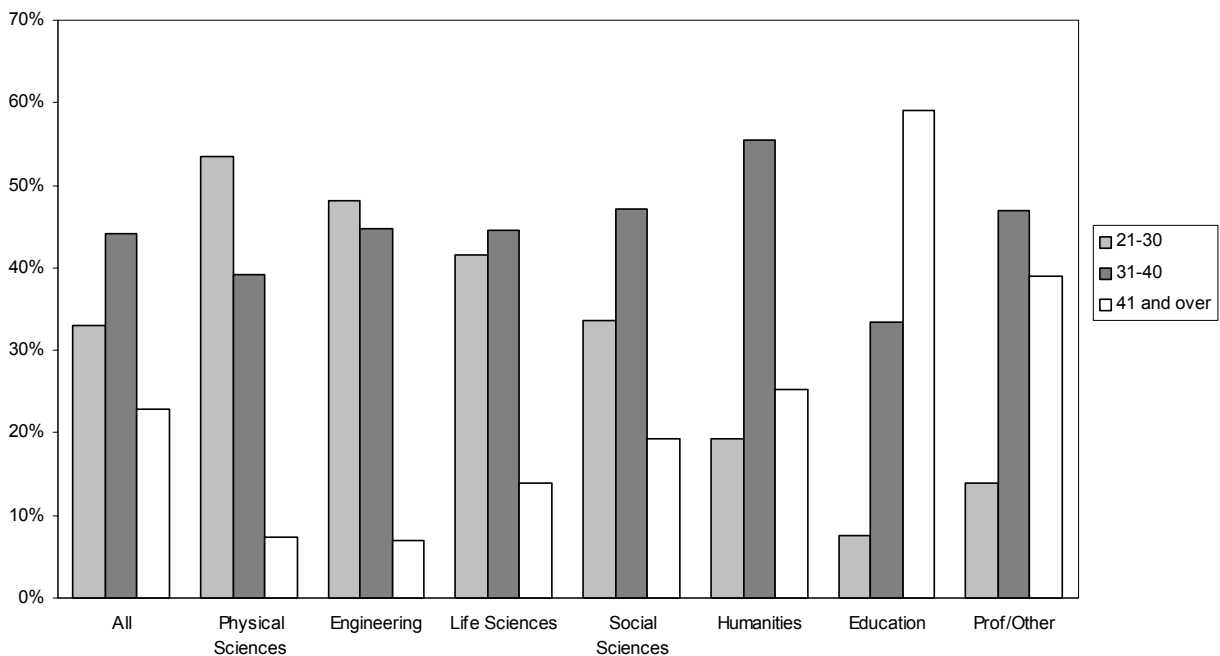
The median duration of being registered in graduate school was 7.5 years for the 2001 doctorates (table 16), also nearly identical to the number for 2000. Registered time to degree was shortest in the physical sciences and engineering (6.7 years), and longest in the humanities (9.0 years) (table 16). The trend for time registered is one of small but continual increases over the 25-year span from 1976 to 2001 (see figure 13 and table 16) in most of the 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, however these differences are generally 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 are much smaller, or even reversed, when males and females are compared within specific broad fields (table 17). Similar patterns hold for comparisons of U.S. and non-U.S. citizens, and of the U.S. racial/ethnic groups. (See table 17.)

A third measure of time to degree gathered in the SED is age at doctorate. The median ages of the 2001 doctorate recipients are tabulated in appendix tables A-3 by major field of degree and A-4 by citizenship and race/ethnicity. On the whole, the median age at receipt of the doctorate in 2001 was 33.3 years. Again, age at degree varies with field of study. Doctorate recipients in the S&E fields typically earn their degrees while in their early 30s; the median for all 2001 doctorate recipients in the S&E fields was 31.7 years old. In comparison, age at doctorate was 35.0 years in the humanities, 43.8 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, 2001**



See Table 18.

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



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

### **Sources of Financial Support**

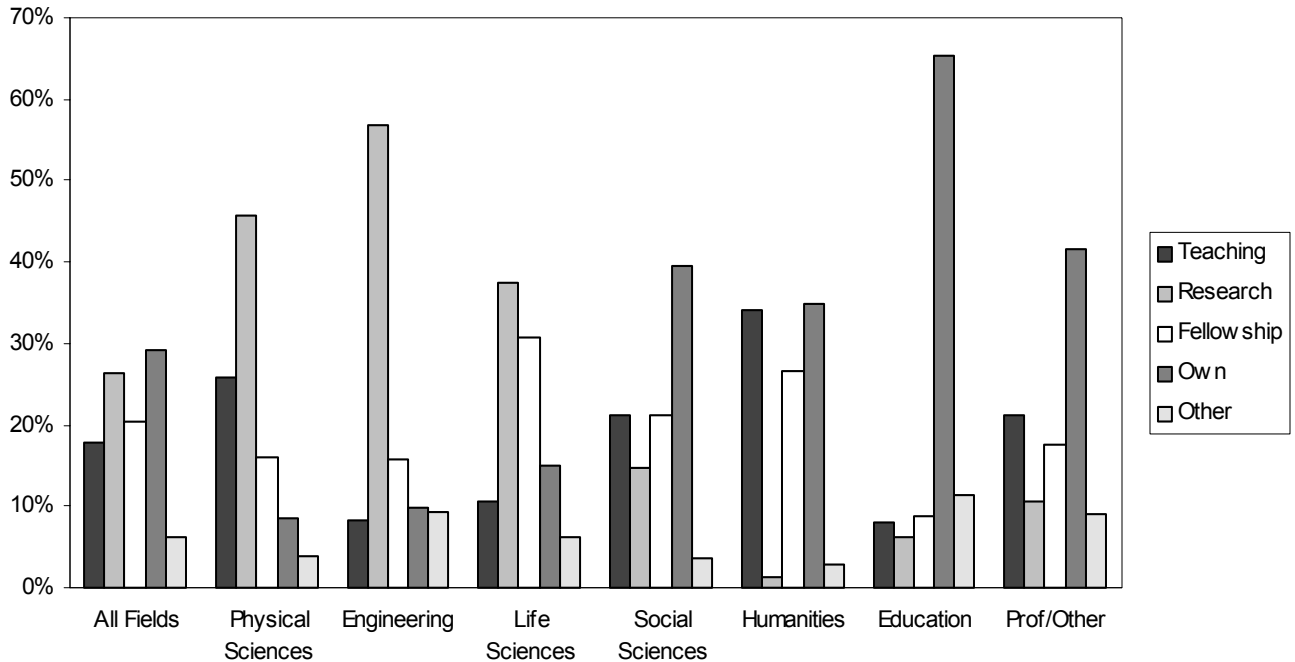
The SED asks two questions that, taken together, provide information on the financial sources of support utilized by the new doctorate recipients (for the exact formats and wordings, see the copy of the questionnaire in Appendix D). The first question asks respondents to complete a checklist of 13 different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

Almost two-thirds of the 2001 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 (64.4 percent).<sup>11</sup> Less than one-third (29.3 percent) of all 2001 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 utilized to finance their doctoral studies. Foreign government, employer contributions, and "other" sources accounted for the remaining 6.3 percent of the cases. (See figure 15 and table 19.)

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<sup>11</sup> The Federal government and other governments can be the original source of these funds.

**Figure 15. Primary sources of financial support for doctorate recipients, 2001**



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 (37.4 percent versus 22.9 percent). The same was true for U.S. citizens (36.9 percent) compared to foreign citizens on permanent or temporary visas (22.8 percent and 9.3 percent, respectively). Differences in the various modes of financial support are also found among the main racial/ethnic groups. Black doctorate recipients indicated the greatest reliance on their own resources to finance their doctoral program (44.1 percent), followed in decreasing order by American Indians (42.8 percent), whites (36.9 percent), Hispanics (35.3 percent), and Asians (20.3 percent). (See table 19).

Sources of support differ substantially by field of study. For example, within the physical sciences, a notably higher than average percentage of new doctorate recipients reported program- or institution-based programs as primary sources of support (87.6 percent). Within engineering, 80.9 percent of the research doctorate recipients in 2001 listed teaching/research assistantships or fellowships as their principal form of support, as did 78.9 percent of respondents in the life sciences. On the other hand, only 49.6 percent of doctorate recipients in the professional/other

fields and 23.3 percent of those in the broad field of education reported these categories as the primary sources of financial support for their doctoral program.

The gender variations and contrasts between U.S. and non-U.S. citizens are correlated with these differences among the broad fields. Notwithstanding, within the broad fields of life sciences, social sciences, education, and professional/other fields, women doctorates were still more likely to depend on their own resources than 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. Mirroring this concentration, non-U.S. citizen respondents reported lower percentages of reliance on their own resources than did U.S. citizen respondents. The differences were smaller within the broad fields of study than overall; however, U.S. citizens were still more likely to rely on their own resources than non-U.S. citizens (table 19).

Racial/ethnic differences in reliance on own resources also diminish within most of the broad fields of study. However, some substantial racial/ethnic differences within fields are found in terms of use of the different types of program- and institution-based support. In the physical sciences and engineering, Asians and whites were both 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. (See table 19).

### **Levels of Education-Related Indebtedness**

The SED also asked 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 “\$35,001 or more” at the top.<sup>12</sup> The format of this question was changed in the 2001 SED questionnaire, in two respects. First, the new format asks for separate undergraduate and graduate levels of debt; the previous several years asked respondents only for the total amount of debt related to their postsecondary education. Second, the highest level of debt in the new form represents an

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<sup>12</sup> 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 Website (<http://www.norc.uchicago.edu/issues/docdata.htm>).

increase of \$5,000 over the old form, which was previously capped at “\$30,001 or more.” Over 90 percent of the 2001 graduates responded to the question (approximately 15 percent completed the old form and 75 percent the new form).

In order to make the data from the different forms as comparable as possible, the responses to the new form were recoded to match the old categories. This entailed summing the midpoints of the various ranges for the undergraduate and graduate levels of debt into a single measure, re-categorizing the sum into the discrete ranges, and capping the composite at the old maximum of “\$30,001 or more.” In the 2002 and subsequent reports, this backward mapping will not be necessary because almost all respondents will complete the new version of the item.

Virtually half (49.5 percent) of the respondents in 2001 reported having no graduate or undergraduate education-related debt, while another 20.4 percent reported cumulative debt of \$15,000 or less (table 20). However, 17.9 percent of all new doctorate recipients reported debt over \$30,000, creating a distinct bulge at the high end of the debt distribution.

Examining the debt distributions within each of the seven broad fields, the most likely graduates to complete their doctorate with no education-related debt are graduates in engineering, the physical sciences, education, the life sciences, and professional/other fields in that order (table 20). Graduates of the broad fields of social science and humanities are more likely to have debt. Debt levels of \$30,000 or more are most common among graduates in social science fields (30.2 percent), the humanities (21.5 percent), and professional/other fields (21.4 percent).

The pattern of debt levels for the study’s main demographic groups is shown in table 21. Particularly noteworthy in these tabulations is the much higher incidence of blacks, Hispanics, and American Indians sustaining high levels of education-related debt. Over one-third (35.4 percent) of black doctorate recipients, 30.1 percent of American Indians, and 27.6 percent of Hispanics owed over \$30,000; these figures compare to 13.8 percent of Asians and 19.5 percent of whites with that level of debt. On the other side of the scale, the racial/ethnic groups with a greater likelihood of having no education-related debt at completion of the doctorate are Asians and whites.

In the debt level pattern between the sexes, new male doctorates were about one and a half percent more likely to have no debt than their female counterparts (50.2 percent versus 48.7 percent). U.S. citizen doctorate recipients were less likely to have no higher-education-related

debt than graduates with permanent or temporary visas (42.2 percent, versus 61.9 percent, and 67.8 percent, respectively), and more likely to have debts totaling more than \$30,000 (21.0 percent, versus 11.9 percent, and 10.1 percent, respectively). (See table 21.)

## Postgraduate Plans, Employment, and Location

The SED questionnaire includes a number of questions about the graduates' immediate plans for work or further study.<sup>13</sup> The responses provide a useful overview of the number of doctorate recipients planning to enter academic positions, government and industry, and postdoctoral programs of research and further study. Also, information is collected on the main types of work activities – research, teaching, administration, and professional services to individuals – that the graduates anticipate in their new positions.

There are five aspects of postgraduation plans examined in this report. First examined is whether the new doctorate recipient has a definite commitment for employment or a postdoctoral position. These data are analyzed 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 as well as by visa status (tables 24 and 25). The third aspect looked at is the distribution of graduates across employment sectors, broken down by sex, race/ethnicity, and citizenship status (table 26). The final aspects discussed are financial support for postdoctoral study, and anticipated location of postgraduate commitment (international versus U.S.) for non-U.S. citizens (tables 28 and 29).

### Definite versus Indefinite Plans

Over seven in ten (72.9 percent) of all doctorate recipients in 2001 reported having definite commitments for employment or postdoctoral study or research. This is the highest percentage since 1989, and compares with 71.1 percent in 2000 (the annual numbers back to 1976 were assembled from table 22 and the analogous table from each of the previous four volumes of the *Summary Report*). The percentages with definite commitments in 2001 vary little by broad field with the noteworthy exception of the humanities; in the humanities, only 65.5

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<sup>13</sup> 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 plan items mirror the returns of the actual questionnaire (92.1 percent in 2001), minus a low rate of item nonresponse. For the 2001 SED cycle, the overall response rate for the first item, asking whether the respondent has definite plans for either career employment or study, was 90.6 percent.

percent have a definite commitment compared to the other broad fields, which have percentages above 70. (See table 22.)

The percentages of graduates from various demographic groups with definite commitments are shown in table 23. Approximately three percent fewer women than men (71.1 percent compared to 74.2 percent) reported having definite plans. U.S. citizens were more likely to have definite commitments (73.8 percent) than individuals with permanent (66.4 percent) or temporary visas (71.4 percent). Among U.S. citizens and permanent residents, whites and Hispanics were more likely to have definite plans than blacks, Asians, and American Indians.

### **Career Employment versus Postdoctorates**

Among the doctoral recipients reporting definite plans, the majority (70.9 percent) indicated that they plan to enter career employment as opposed to pursuing further study within a postdoctoral research or teaching program (table 24). Plans for postdoctoral study were more common among graduates in the life sciences (61.2 percent) and the physical sciences (44.6 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 1981, decreases are evident between 1996 and 2001 in the life sciences, the physical sciences, and engineering (table 24).

Differences among demographic subgroups are shown in table 25. Men were slightly more likely than women to have definite plans for postdoctorate study (30.0 versus 27.8 percent). This is the highest percentage of women with postdoctoral study appointments recorded by the SED to date, and accompanies the highest proportion of female doctorates recorded.

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 racial/ethnic subgroups to plan postdoctorates, followed by Hispanic and white recipients. Black and American Indian doctorate recipients were least likely to report postdoctorates. These differences among citizenship and racial/ethnic 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. (See table 25.)

## **Employment Sectors in the United States**

The most common destination of the 2001 doctorate recipients with definite commitments within the United States was higher education, identified by almost half (48.6 percent) of the 2001 respondent subpopulation (see table 26). The next largest group had commitments to industry or some form of self-employment (29.9 percent) while the third largest group planned to work for Federal, state, or local government (6.6 percent). The historical trends show reductions in government employment, coupled with a small increase in the industry/self-employment sector.

Among 2001 female doctorates, 18.7 percent had commitments to industry or some form of self-employment, compared to 39.1 percent of their male counterparts. Women were more likely than men to have commitments to academe (57.2 percent versus 42.8 percent). With regard to U.S. racial/ethnic groups, Asians were less likely than others to go into academe and were more likely than all others to go into industry or self-employment. The main destination of non-U.S. citizens with definite plans to remain in the United States after graduation was industry or self-employment.

## **Sources of Financial Support for Postdoctoral Appointments**

The SED asked respondents with definite plans for further training or study (i.e., “postdocs”) in the year after graduation to indicate the main source of support for their postdoctoral appointment. The percentages identifying each of the main sources from the 1981-2001 five-year cohorts are shown in table 27, separately by demographic group. In 2001, 38.5 percent of all postdocs named a college or university as their main source of funding, followed by 33.6 percent indicating the U.S. government. Private foundations supported another 7.5 percent, and other types of nonprofit organizations supported 3.0 percent. Over 11 percent indicated some other kind of support than those listed in the questionnaire; inspection of the descriptions written by these respondents reveals that many were planning on support from a foreign government.

Gender differences in sources of postdoctoral support are shown in the second and third columns of table 27. Men were more likely in 2001 to have support from the U.S. government (34.4 versus 32.5 percent), but women were equally likely to be supported by a college or university (both 38.5 percent). (See table 27.)



A number of differences in sources of support are apparent among U.S. citizens, permanent-visa holders, and temporary-visa holders. As might be expected, U.S. citizens were the most likely to have the U.S. government as their main source of postdoctoral support. But substantial numbers of non-U.S. citizens also received U.S. government support, though the percentages were lower in 2001 than in the other years shown in table 27. Non-U.S. citizens with postdoc appointments are more likely than U.S. citizens to have university or college funding as their main source of support.

The racial/ethnic breakdowns in table 27 show that blacks were less likely than other groups to have U.S. government funding in 2001, and were more likely than other groups to have university or college support. Hispanic postdoctorates were the least likely to have private foundation (3.7 percent) and other nonprofit organization (1.6 percent) support. (See table 27).

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

Among non-U.S. citizens with definite plans for work or study, 92.8 percent of all new doctorate recipients holding permanent visas and 72.0 percent of temporary visa holders indicated that they will remain in the United States following graduation (table 28). In 2001, chemistry, biology, and computer science were the fields with the highest concentrations of new doctorate recipients with temporary visas staying in the United States (90.4 percent, 84.3 percent, and 81.9 percent, respectively). The lowest concentrations were located in the fields of education (28.7 percent), humanities (54.2 percent) and social sciences (55.3 percent). (See table 28.) Doctorate recipients with permanent visa status are much more likely overall than those with temporary visas to stay in the United States. The fields with the highest concentrations of doctorate recipients with permanent visas staying in the United States were earth, atmosphere, and marine science (100 percent), chemistry (98.6 percent), mathematics (97.4 percent), and computer science (97.3 percent). (See table 28.)

The number of international students earning research doctorates in the United States has steadily increased over the past twenty years, as has the tendency for those students to remain in the United States following graduation. Table 29 shows the trend of increasing numbers and percentages of new doctorate recipients with temporary visas planning to stay in the United States after receiving their doctorate. In 1981, under 50 percent (41.1 percent) of those with

temporary visas had firm commitments to positions in the United States. A decade later, 59.1 percent of them had firm commitments to stay in the United States; in 2001, the number had increased to 72.0 percent.

# MAIN DATA TABLES

**Table 1. Number of doctorates awarded and annual percentage change in doctorates awarded by U.S. colleges and universities, 1957-2001**

Year	Number of doctorate recipients	Annual percentage change		Year	Number of doctorate recipients	Annual percentage change
1957	8,611	1.1		1980	31,020	-0.7
1958	8,773	1.9		1981	31,356	1.1
1959	9,213	5.0		1982	31,111	-0.8
1960	9,733	5.6		1983	31,281	0.5
1961	10,413	7.0		1984	31,337	0.2
1962	11,500	10.4		1985	31,297	-0.1
1963	12,728	10.7		1986	31,902	1.9
1964	14,325	12.5		1987	32,370	1.5
1965	16,340	14.1		1988	33,500	3.5
1966	17,949	9.8		1989	34,327	2.5
1967	20,403	13.7		1990	36,067	5.1
1968	22,937	12.4		1991	37,533	4.1
1969	25,743	12.2		1992	38,890	3.6
1970	29,498	14.6		1993	39,800	2.3
1971	31,867	8.0		1994	41,037	3.1
1972	33,041	3.7		1995	41,747	1.7
1973	33,755	2.2		1996	42,438	1.7
1974	33,047	-2.1		1997	42,559	0.3
1975	32,952	-0.3		1998	42,654	0.2
1976	32,946	0.0		1999	41,097	-3.7
1977	31,716	-3.7		2000	41,340	0.6
1978	30,875	-2.7		2001	40,744	-1.4
1979	31,239	1.2				

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, 1962-2001**

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	37,533	364	103	38.0
1992	38,890	367	106	42.0
1993	39,800	372	107	42.0
1994	41,037	374	110	43.0
1995	41,747	381	110	43.0
1996	42,438	389	109	44.0
1997	42,559	383	111	45.0
1998	42,654	388	110	43.0
1999	41,097	396	104	41.0
2000	41,340	407	102	40.0
2001	40,744	416	98	37.0

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

**Table 3. Top 20 doctorate-granting institutions by broad field of doctorate, 2001**

Institution	Number of doctorate recipients	Institution	Number of doctorate recipients
<b>All Fields</b>	40,744	<b>Physical Sciences <sup>a</sup></b>	5,970
University of California-Berkeley	751	University of California-Berkeley	168
The University of Texas at Austin	732	University of Illinois at Urbana-Champaign	136
University of Illinois at Urbana-Champaign	673	Massachusetts Institute of Technology	119
University of Wisconsin-Madison	656	Stanford University	118
University of Minnesota-Twin Cities	633	University of Wisconsin-Madison	105
University of California-Los Angeles	609	University of California-Los Angeles	104
Ohio State University	591	Ohio State University	101
University of Michigan-Ann Arbor	565	The University of Texas at Austin	101
Stanford University	547	University of Washington-Seattle Campus	96
Pennsylvania State University-Main Campus	541	Texas A & M University	94
University of Southern California	529	University of Maryland-College Park	89
Harvard University	508	Cornell University-Endowed Colleges	87
Texas A & M University	506	Purdue University-Main Campus	87
Massachusetts Institute of Technology	492	University of Michigan-Ann Arbor	85
University of Washington-Seattle Campus	484	University of Arizona	84
Nova Southeastern University	469	Pennsylvania State University-Main Campus	80
Purdue University-Main Campus	469	California Institute of Technology	77
Indiana University-Bloomington	430	University of Minnesota-Twin Cities	75
University of Maryland-College Park	421	Harvard University	71
University of Florida	417	Princeton University	70
Cornell University-Endowed Colleges	417		
<b>Engineering</b>	5,502	<b>Life Sciences</b>	8,296
Massachusetts Institute of Technology	226	Johns Hopkins University	189
Georgia Institute of Technology-Main Campus	178	University of Minnesota-Twin Cities	157
Stanford University	168	University of Wisconsin-Madison	146
University of Michigan-Ann Arbor	166	Harvard University	146
University of Illinois at Urbana-Champaign	160	Ohio State University	143
University of California-Berkeley	150	University of California-Davis	143
The University of Texas at Austin	143	University of Southern California	139
Purdue University-Main Campus	140	University of Washington-Seattle Campus	139
Pennsylvania State University-Main Campus	126	University of California-Berkeley	131
Texas A & M University	111	Cornell University-Endowed Colleges	125
University of Minnesota-Twin Cities	108	University of Illinois at Urbana-Champaign	121
Virginia Polytechnic Institute and State Univ	103	University of California-Los Angeles	120
Northwestern University	98	University of Florida	115
University of Maryland-College Park	93	Texas A & M University	114
University of Florida	91	University of North Carolina-Chapel Hill	114
Ohio State University	90	University of Michigan-Ann Arbor	100
North Carolina State Univ-Raleigh	88	Purdue University-Main Campus	99
University of California-Los Angeles	83	Pennsylvania State University-Main Campus	91
University of Wisconsin-Madison	83	University of Georgia	90
Carnegie Mellon University	78	University of Pennsylvania	89

**Table 3. Top 20 doctorate-granting institutions by broad field of doctorate, 2001, continued**

Institution	Number of doctorate recipients	Institution	Number of doctorate recipients
<b>Social Sciences</b>	6,825	<b>Humanities</b>	5,589
The University of Texas at Austin	113	The University of Texas at Austin	150
University of California-Berkeley	110	Indiana University-Bloomington	143
University of California-Los Angeles	110	University of California-Los Angeles	126
University of Wisconsin-Madison	104	Columbia University	122
University of Chicago	99	University of California-Berkeley	120
Harvard University	86	Yale University	115
University of Maryland-College Park	85	University of Wisconsin-Madison	114
University of Minnesota-Twin Cities	84	University of Chicago	114
University of Michigan-Ann Arbor	84	New York University	113
CUNY Grad School & Univ Center	81	Harvard University	111
Ohio State University	79	University of Minnesota-Twin Cities	99
University of North Carolina-Chapel Hill	76	University of Illinois at Urbana-Champaign	86
University of Washington-Seattle Campus	74	University of Southern California	86
University of Illinois at Urbana-Champaign	74	University of Michigan-Ann Arbor	84
Michigan State University	74	Ohio State University	81
Stanford University	74	University of North Carolina-Chapel Hill	81
Columbia University	71	CUNY Grad School & Univ Center	72
Pennsylvania State University-Main Campus	69	Princeton University	72
University of Southern California	67	Rutgers University-New Brunswick	71
Indiana University-Bloomington	65	Duke University	70
New York University	65		
<b>Education</b>	6,324	<b>Professional/Other Fields</b>	2,238
Nova Southeastern University	314	Nova Southeastern University	84
Teachers College at Columbia Univ	161	The University of Texas at Austin	51
University of Georgia	99	University of Southern California	48
Oklahoma State University	99	University of Pennsylvania	47
The University of Texas at Austin	95	New York University	46
Argosy University-Sarasota	94	Michigan State University	39
Pennsylvania State University-Main Campus	93	University of Wisconsin-Madison	39
University of Minnesota-Twin Cities	87	Pennsylvania State University-Main Campus	35
Indiana University-Bloomington	82	Harvard University	34
Texas A & M University	82	University of California-Berkeley	33
Ohio State University	78	Walden University	30
University of Southern California	77	Indiana University-Bloomington	30
University of Virginia-Main Campus	71	University of Illinois at Urbana-Champaign	28
University of Pittsburgh	69	Columbia University	28
University of Illinois at Urbana-Champaign	68	University of North Carolina-Chapel Hill	28
University of Missouri-Columbia	67	Florida State University	27
University of San Francisco	67	University of Iowa	27
Virginia Polytechnic Institute and State Univ	66	University of Kentucky	25
University of Wisconsin-Madison	65	Massachusetts Institute of Technology	25
University of Houston-University Park	65	University of Alabama	24
		Arizona State University-Main Campus	24
		University of Georgia	24
		Rutgers University-Newark	24
		Stanford University	24

<sup>a</sup> Includes mathematics and computer sciences

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, 2001**

Rank	State	Number of doctorate recipients
1	California	4,824
2	New York	3,420
3	Texas	2,683
4	Pennsylvania	2,121
5	Illinois	2,119
6	Massachusetts	2,106
7	Florida	1,761
8	Ohio	1,697
9	Michigan	1,343
10	Indiana	1,121
11	North Carolina	1,106
12	Georgia	970
12	Virginia	970
14	New Jersey	941
15	Maryland	939
16	Wisconsin	836
17	Minnesota	784
18	Missouri	739
19	Colorado	707
20	Arizona	675
21	Washington	660
22	Tennessee	659
23	Iowa	588
24	Louisiana	578
25	Connecticut	569
26	District of Columbia	494
27	Alabama	482
28	Oklahoma	427
29	Kansas	425
30	South Carolina	389
31	Oregon	383
32	Utah	348
33	Mississippi	338
34	Kentucky	336
35	Nebraska	274
36	New Mexico	263
37	Rhode Island	225
38	Delaware	191
39	Puerto Rico	151
40	Hawaii	144
41	Arkansas	138
42	West Virginia	128
43	South Dakota	97
44	New Hampshire	93
45	Nevada	92
46	Idaho	86
47	Wyoming	70
48	North Dakota	66
49	Vermont	62
50	Montana	58
51	Maine	41
52	Alaska	27

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



**Table 5. Major field of doctorate recipients for selected years, 1971-2001**

	1971	1976	1981	1986	1991	1996	2001
All Fields	31,867	32,946	31,356	31,903	37,533	42,438	40,744
Physical Sciences <sup>a</sup>	5,739	4,509	4,170	4,807	6,279	6,674	5,970
Engineering	3,498	2,834	2,528	3,376	5,214	6,309	5,502
Life Sciences	5,268	5,026	5,611	5,734	6,933	8,255	8,296
Social Sciences	5,189	6,214	6,141	5,893	6,152	6,825	6,825
Humanities	4,648	4,881	3,751	3,462	4,099	5,115	5,589
Education	6,435	7,725	7,497	6,649	6,454	6,784	6,324
Professional/Other Fields	1,090	1,757	1,658	1,982	2,402	2,476	2,238
Physical Sciences							
Physics & Astronomy	1,738	1,237	1,015	1,187	1,411	1,677	1,379
Chemistry	2,211	1,624	1,612	1,903	2,194	2,148	1,979
Earth, Atmospheric, & Marine Sciences	552	645	583	589	836	807	780
Mathematics	1,238	1,003	728	729	1,038	1,122	1,006
Computer Science <sup>b</sup>	-----	-----	232	399	800	920	826
Engineering	3,498	2,834	2,528	3,376	5,214	6,309	5,502
Life Sciences							
Biological Sciences	3,654	3,573	3,803	3,807	4,650	5,724	5,678
Health Sciences	541	503	657	770	1,041	1,324	1,613
Agricultural Sciences	1,073	950	1,151	1,157	1,242	1,207	1,005
Social Sciences							
Psychology	2,145	2,883	3,358	3,126	3,250	3,497	3,433
Anthropology	239	428	369	381	341	397	408
Economics	820	885	824	859	885	1,008	930
Political Science/International Relations	821	791	532	490	522	721	748
Sociology	587	734	605	491	465	517	565
Other Social Sciences	577	493	453	546	689	685	741
Humanities							
History	1,064	1,095	692	564	663	857	1,024
English Language & Literature	1,244	1,214	820	719	852	1,013	977
Foreign Language & Literature	728	835	576	445	498	605	619
Other Humanities	1,612	1,737	1,663	1,734	2,086	2,640	2,969
Education							
Teacher Education	591	588	639	490	408	371	293
Teaching Fields	1,564	1,418	1,437	1,142	973	864	720
Other Education	4,280	5,719	5,421	5,017	5,073	5,549	5,311
Professional/Other							
Business & Management	673	739	624	902	1,163	1,277	1,049
Communications	37	295	240	258	332	389	389
Other Professional Fields	265	676	759	796	836	771	800
Other Fields	115	47	35	26	71	39	0

<sup>a</sup> Includes mathematics and computer sciences.

<sup>b</sup> Computer Sciences first appeared on the survey form in 1978.

Dashes (-----) indicate that the field was not on the questionnaire's Specialties List that year.

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

**Table 6. Number of doctorate recipients and percent female by selected subfield, 1991 and 2001**

Subfield	1991		2001	
	Number of doctorate recipients <sup>a</sup>	Percent doctorate recipients to females	Number of doctorate recipients <sup>b</sup>	Percent doctorate recipients to females
All Fields	37,397	37.1	40,670	44.0
Physical Sciences	6,253	18.8	5,961	25.2
Physics & Astronomy	1,403	11.1	1,377	14.2
Chemistry	2,189	23.6	1,976	31.8
Earth, Atmospheric & Marine Sciences	831	22.3	779	31.6
Mathematics	1,034	19.3	1,006	27.4
Computer Science	796	14.7	823	18.8
Engineering	5,170	9.0	5,489	16.9
Life Sciences	6,911	38.9	8,271	47.3
Biological Sciences	4,637	38.2	5,670	44.9
Health Sciences	1,037	64.4	1,601	64.2
Agricultural Sciences	1,237	20.0	1,000	33.6
Social Sciences	6,140	49.5	6,816	54.4
Psychology	3,245	61.5	3,430	66.9
Anthropology	340	61.8	408	59.6
Economics	883	20.3	928	28.0
Political Sciences & International Relations	521	27.1	748	32.6
Sociology	465	49.5	565	58.2
Other Social Sciences	686	41.4	737	45.5
Humanities	4,089	46.9	5,582	50.6
History	661	38.0	1,024	40.3
American & English Language & Literature	851	56.9	976	60.5
Foreign Language & Literature	498	60.4	618	64.9
Other Humanities	2,079	42.5	2,964	47.9
Education	6,444	58.2	6,319	64.6
Teacher Education	407	68.9	293	71.7
Teaching Fields	972	56.9	720	62.9
Other Education	5,065	57.6	5,306	64.5
Professional/Other Fields	2,390	35.0	2,232	42.7
Business & Management	1,156	25.7	1,047	34.0
Communications	332	47.0	388	51.8
Other Professional Fields	832	41.7	797	49.6
Other Fields	70	52.9	0	0.0

<sup>a</sup> 1991 field totals exclude 136 individuals whose gender was not known.

<sup>b</sup> 2001 field totals exclude 74 individuals for whom gender was not known.

Dashes (-----) indicate that the field was not on the questionnaire's Specialties List that year.

See Appendix Table A-1.

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, 1971-2001**

Fields	Totals	1971		1976		1981		1986		1991 <sup>a</sup>		1996 <sup>b</sup>		2001 <sup>c</sup>	
		N	%	N	%	N	%	N	%	N	%	N	%	N	%
All Fields	Group total	31,867	100.0	32,946	100.0	31,356	100.0	31,903	100.0	37,397	100.0	42,243	100.0	40,670	100.0
	Male	27,271	85.6	25,262	76.7	21,464	68.5	20,596	64.6	23,524	62.9	25,286	59.9	22,769	56.0
	Female	4,596	14.4	7,684	23.3	9,892	31.5	11,307	35.4	13,873	37.1	16,957	40.1	17,901	44.0
Physical Sciences <sup>d</sup>	Group total	5,739	100.0	4,509	100.0	4,170	100.0	4,807	100.0	6,253	100.0	6,623	100.0	5,961	100.0
	Male	5,398	94.1	4,089	90.7	3,667	87.9	4,033	83.9	5,079	81.2	5,239	79.1	4,460	74.8
	Female	341	5.9	420	9.3	503	12.1	774	16.1	1,174	18.8	1,384	20.9	1,501	25.2
Engineering	Group total	3,498	100.0	2,834	100.0	2,528	100.0	3,376	100.0	5,170	100.0	6,265	100.0	5,489	100.0
	Male	3,483	99.6	2,780	98.1	2,429	96.1	3,151	93.3	4,703	91.0	5,488	87.6	4,564	83.1
	Female	15	0.4	54	1.9	99	3.9	225	6.7	467	9.0	777	12.4	925	16.9
Life Sciences	Group total	5,268	100.0	5,026	100.0	5,611	100.0	5,734	100.0	6,911	100.0	8,223	100.0	8,271	100.0
	Male	4,503	85.5	4,013	79.8	4,076	72.6	3,786	66.0	4,223	61.1	4,629	56.3	4,363	52.8
	Female	765	14.5	1,013	20.2	1,535	27.4	1,948	34.0	2,688	38.9	3,594	43.7	3,908	47.2
Social Sciences	Group total	5,189	100.0	6,214	100.0	6,141	100.0	5,893	100.0	6,140	100.0	6,807	100.0	6,816	100.0
	Male	4,265	82.2	4,580	73.7	3,944	64.2	3,381	57.4	3,100	50.5	3,289	48.3	3,109	45.6
	Female	924	17.8	1,634	26.3	2,197	35.8	2,512	42.6	3,040	49.5	3,518	51.7	3,707	54.4
Humanities	Group total	4,648	100.0	4,881	100.0	3,751	100.0	3,462	100.0	4,089	100.0	5,097	100.0	5,582	100.0
	Male	3,571	76.8	3,208	65.7	2,203	58.7	1,898	54.8	2,170	53.1	2,553	50.1	2,759	49.4
	Female	1,077	23.2	1,673	34.3	1,548	41.3	1,564	45.2	1,919	46.9	2,544	49.9	2,823	50.6
Education	Group total	6,435	100.0	7,725	100.0	7,497	100.0	6,649	100.0	6,444	100.0	6,765	100.0	6,319	100.0
	Male	5,089	79.1	5,185	67.1	3,957	52.8	3,036	45.7	2,696	41.8	2,579	38.1	2,234	35.4
	Female	1,346	20.9	2,540	32.9	3,540	47.2	3,613	54.3	3,748	58.2	4,186	61.9	4,085	64.6
Professional/Other Fields	Group total	1,090	100.0	1,757	100.0	1,658	100.0	1,982	100.0	2,390	100.0	2,463	100.0	2,232	100.0
	Male	962	88.3	1,407	80.1	1,188	71.7	1,311	66.1	1,553	65.0	1,509	61.3	1,280	57.3
	Female	128	11.7	350	19.9	470	28.3	671	33.9	837	35.0	954	38.7	952	42.7

<sup>a</sup> Group total for 1991 excludes 136 individual of unknown sex.

<sup>b</sup> Group total for 1996 excludes 195 individuals of unknown sex.

<sup>c</sup> Group total for 2001 excludes 74 individuals of unknown sex.

<sup>d</sup> 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, 1981-2001**

Fields	Race/Ethnicity	1981	1986	1991	1996	2001
All Fields	Group Total	25,068	23,089	25,572	27,777	26,907
	Known Race/Ethnicity	24,009	22,659	25,078	27,362	26,435
	Asian <sup>b</sup>	463	530	787	1,066	1,382
	Black	1,012	823	1,009	1,306	1,604
	Hispanic	466	572	732	957	1,119
	American Indian <sup>c</sup>	85	99	130	186	149
	White	21,983	20,635	22,420	23,847	21,842
	Other <sup>d</sup>	-----	-----	-----	-----	339
Physical Sciences <sup>a</sup>	Group Total	3,078	3,005	3,562	3,451	3,121
	Known Race/Ethnicity	2,893	2,912	3,460	3,373	3,057
	Asian <sup>b</sup>	74	107	147	173	198
	Black	31	25	41	69	80
	Hispanic	36	53	83	85	92
	American Indian <sup>c</sup>	2	8	14	13	13
	White	2,750	2,719	3,175	3,033	2,632
	Other <sup>d</sup>	-----	-----	-----	-----	42
Engineering	Group Total	1,170	1,383	2,086	2,596	2,139
	Known Race/Ethnicity	1,118	1,354	1,992	2,557	2,092
	Asian <sup>b</sup>	77	80	187	271	256
	Black	16	14	43	59	82
	Hispanic	12	25	49	87	73
	American Indian <sup>c</sup>	4	6	6	14	7
	White	1,009	1,229	1,707	2,126	1,645
	Other <sup>d</sup>	-----	-----	-----	-----	29
Life Sciences	Group Total	4,534	4,350	4,726	5,014	5,395
	Known Race/Ethnicity	4,331	4,276	4,651	4,938	5,312
	Asian <sup>b</sup>	109	153	193	282	430
	Black	73	64	92	140	190
	Hispanic	48	72	99	150	186
	American Indian <sup>c</sup>	13	23	19	31	21
	White	4,088	3,964	4,248	4,335	4,416
	Other <sup>d</sup>	-----	-----	-----	-----	69
Social Sciences	Group Total	5,176	4,580	4,712	5,206	5,058
	Known Race/Ethnicity	4,982	4,494	4,619	5,137	4,976
	Asian <sup>b</sup>	75	69	88	122	197
	Black	177	164	210	245	299
	Hispanic	103	132	182	235	243
	American Indian <sup>c</sup>	12	20	21	38	34
	White	4,615	4,109	4,118	4,497	4,127
	Other <sup>d</sup>	-----	-----	-----	-----	76
Humanities	Group Total	3,225	2,733	3,220	3,961	4,380
	Known Race/Ethnicity	3,090	2,684	3,163	3,896	4,270
	Asian <sup>b</sup>	32	30	47	86	130
	Black	84	71	93	116	177
	Hispanic	92	76	115	143	200
	American Indian <sup>c</sup>	12	7	10	20	23
	White	2,870	2,500	2,898	3,531	3,686
	Other <sup>d</sup>	-----	-----	-----	-----	54
Education	Group Total	6,584	5,629	5,614	5,878	5,315
	Known Race/Ethnicity	6,362	5,547	5,571	5,810	5,254
	Asian <sup>b</sup>	79	60	85	87	102
	Black	564	422	437	580	646
	Hispanic	155	190	175	205	264
	American Indian <sup>c</sup>	39	26	55	60	42
	White	5,525	4,849	4,819	4,878	4,148
	Other <sup>d</sup>	-----	-----	-----	-----	52
Professional/Other Fields	Group Total	1,301	1,409	1,652	1,671	1,499
	Known Race/Ethnicity	1,233	1,392	1,622	1,651	1,474
	Asian <sup>b</sup>	17	31	40	45	69
	Black	67	63	93	97	130
	Hispanic	20	24	29	52	61
	American Indian <sup>c</sup>	3	9	5	10	9
	White	1,126	1,265	1,455	1,447	1,188
	Other <sup>d</sup>	-----	-----	-----	-----	17

<sup>a</sup> Includes mathematics and computer sciences.

<sup>b</sup> Includes Native Hawaiians/Other Pacific Islanders through 2000, but excludes them in 2001 per revised OMB guidelines issued for 2001.

<sup>c</sup> Includes Alaskan Natives.

<sup>d</sup> Includes only those with unknown race/ethnicity through 2000. In 2001 this category was expanded to include Native Hawaiians and other Pacific Islanders and respondents choosing multiple races (excluding those selecting an Hispanic ethnicity).

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

**Table 9. Major field of U.S. citizen doctorate recipients by race/ethnicity, 2001**

Field	Total U.S. citizen doctorate recipients	Number with known race/ethnicity	U.S. citizens					
			Asian <sup>a</sup>	Black	Hispanic	American Indian <sup>b</sup>	White	Other <sup>c</sup>
All fields	26,907	26,435	1,382	1,604	1,119	149	21,842	339
Physical Sciences	3,121	3,057	198	80	92	13	2,632	42
Physics & Astronomy	721	703	51	9	22	1	607	13
Chemistry	1,126	1,103	69	36	39	11	936	12
Earth, Atmospheric, & Marine Sciences	441	434	14	5	11	0	396	8
Mathematics	468	460	30	17	14	1	395	3
Computer Sciences	365	357	34	13	6	0	298	6
Engineering	2,139	2,092	256	82	73	7	1,645	29
Life Sciences	5,395	5,312	430	190	186	21	4,416	69
Biological Sciences	3,876	3,817	353	121	149	15	3,124	55
Health Sciences	1,070	1,056	69	60	23	6	887	11
Agricultural Sciences	449	439	8	9	14	0	405	3
Social Sciences	5,058	4,976	197	299	243	34	4,127	76
Psychology	2,938	2,895	101	169	159	17	2,400	49
Anthropology	319	310	12	10	17	8	257	6
Economics	353	346	28	6	11	2	296	3
Political Science/International Relations	541	526	17	42	11	4	442	10
Sociology	436	433	21	39	32	2	333	6
Other Social Sciences	471	466	18	33	13	1	399	2
Humanities	4,380	4,270	130	177	200	23	3,686	54
History	878	838	16	41	48	2	721	10
American & English Language & Literature	847	838	24	44	19	9	730	12
Foreign Language & Literature	407	397	7	10	60	0	314	6
Other Humanities	2,248	2,197	83	82	73	12	1,921	26
Education	5,315	5,254	102	646	264	42	4,148	52
Teacher Education	240	237	5	28	9	2	192	1
Teaching Fields	556	548	17	53	19	5	446	8
Other Education	4,519	4,469	80	565	236	35	3,510	43
Professional/Other	1,499	1,474	69	130	61	9	1,188	17
Business & Management	656	648	34	56	24	2	525	7
Communications	277	269	5	23	15	0	224	2
Other Professional Fields	566	557	30	51	22	7	439	8
Other Fields	----	----	----	----	----	----	----	----

<sup>a</sup> Does not include Native Hawaiians and other Pacific Islanders.

<sup>b</sup> Includes Alaskan Natives.

<sup>c</sup> Includes multiple racial responses and Native Hawaiians/other Pacific Islanders.

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

**Table 10. Leading doctorate-granting institutions of U.S. minority doctorate recipients, 1997-2001**

Institution	Number of doctorate recipients	Institution	Number of doctorate recipients
<b>Asian <sup>a</sup></b>		<b>Black</b>	
University of California-Los Angeles	344	Nova Southeastern University	336
University of California-Berkeley	333	Howard University	241
Stanford University	190	University of Michigan-Ann Arbor	131
Harvard University	145	University of Maryland-College Park	124
Massachusetts Institute of Technology	144	Ohio State University	111
University of Michigan-Ann Arbor	130	University of North Carolina-Chapel Hill	110
University of Southern California	123	Temple University	108
University of California-Davis	116	Florida State University	106
University of Illinois at Urbana-Champaign	116	Wayne State University	106
University of Washington-Seattle Campus	113	Virginia Polytechnic Institute and State University	106
Columbia University	105	University of Illinois at Urbana-Champaign	99
Purdue University-Main Campus	100	Teachers College at Columbia University	99
University of California-Irvine	93	North Carolina State University-Raleigh	98
University of Pennsylvania	89	The University of Texas at Austin	96
New York University	88	Clark Atlanta University	94
Northwestern University	87	Harvard University	88
Johns Hopkins University	86	University of South Carolina-Columbia	85
The University of Texas at Austin	86	Michigan State University	83
University of Chicago	84	University of California-Berkeley	80
University of California-San Diego	83	Pennsylvania State University-Main Campus	79
<i>Top 20 institutions</i>	<i>2,655</i>	<i>Top 20 institutions</i>	<i>2,380</i>
<i>Total institutions reported (320)</i>	<i>6,504</i>	<i>Total institutions reported (327)</i>	<i>7,683</i>
<b>Hispanic</b>		<b>American Indian <sup>b</sup></b>	
University of Puerto Rico-Rio Piedras Campus	222	Oklahoma State University	29
The University of Texas at Austin	208	University of Oklahoma	20
Carlos Albizu University	169	University of California-Los Angeles	18
University of California-Berkeley	157	Nova Southeastern University	18
University of California-Los Angeles	145	University of Washington-Seattle Campus	18
Texas A & M University	110	The University of Texas at Austin	16
Inter American Univ of Puerto Rico-Metro	97	University of Minnesota-Twin Cities	15
Stanford University	92	Stanford University	15
Harvard University	91	University of Arkansas Main Campus	14
University of Arizona	83	University of New Mexico	14
University of California-Davis	81	Pennsylvania State University-Main Campus	13
University of New Mexico	80	University of California-Berkeley	12
University of Michigan-Ann Arbor	78	University of Maryland-College Park	12
University of Wisconsin-Madison	78	University of Michigan-Ann Arbor	12
Arizona State University-Main Campus	77	University of Illinois at Urbana-Champaign	11
Nova Southeastern University	71	Ohio State University	11
New York University	70	University of Wisconsin-Madison	11
University of Southern California	68	Arizona State University-Main Campus	10
University of California-Santa Barbara	67	Harvard University	10
University of Miami	65	Montana State University-Bozeman	10
		University of North Dakota	10
<i>Top 20 institutions</i>	<i>2,109</i>	<i>Top 20 institutions</i>	<i>289</i>
<i>Total institutions reported (318)</i>	<i>5,751</i>	<i>Total institutions reported (230)</i>	<i>903</i>

<sup>a</sup> Does not include Native Hawaiians and other Pacific Islanders in 2001.

<sup>b</sup> Includes Alaskan Natives.

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

**Table 11. Citizenship status of doctorate recipients, by broad field for selected years, 1971-2001**

Field/Citizenship	1971	1976	1981	1986	1991	1996	2001
Total	31,867	32,946	31,356	31,903	37,533	42,438	40,744
All Fields							
U.S. Citizen	26,759	27,291	25,068	23,089	25,572	27,777	26,907
Non-U.S., Permanent visa	1,907	1,494	1,281	1,433	1,857	3,765	1,822
Non-U.S., Temporary visa	2,691	3,558	3,984	5,325	9,382	9,649	9,780
Unknown	510	603	1,023	2,056	722	1,247	2,235
Physical Sciences <sup>a</sup>							
U.S. Citizen	4,685	3,432	3,078	3,005	3,562	3,451	3,121
Non-U.S., Permanent visa	409	304	226	240	324	839	328
Non-U.S., Temporary visa	560	714	763	1,269	2,299	2,167	2,256
Unknown	85	59	103	293	94	217	265
Engineering							
U.S. Citizen	2,418	1,557	1,170	1,383	2,086	2,596	2,139
Non-U.S., Permanent visa	530	390	301	343	388	793	296
Non-U.S., Temporary visa	518	816	951	1,382	2,646	2,734	2,772
Unknown	32	71	106	268	94	186	295
Life Sciences							
U.S. Citizen	4,199	3,992	4,534	4,350	4,726	5,014	5,395
Non-U.S., Permanent visa	327	241	206	206	343	1,017	449
Non-U.S., Temporary visa	643	676	738	880	1,760	2,044	2,004
Unknown	99	117	133	298	104	180	448
Social Sciences							
U.S. Citizen	4,452	5,368	5,176	4,580	4,712	5,206	5,058
Non-U.S., Permanent visa	244	195	192	223	263	405	238
Non-U.S., Temporary visa	418	565	544	680	1,026	1,012	1,081
Unknown	75	86	229	410	151	202	448
Humanities							
U.S. Citizen	4,144	4,379	3,225	2,733	3,220	3,961	4,380
Non-U.S., Permanent visa	220	181	150	152	242	353	285
Non-U.S., Temporary visa	217	240	237	325	554	649	671
Unknown	67	81	139	252	83	152	253
Education							
U.S. Citizen	6,050	7,120	6,584	5,629	5,614	5,878	5,315
Non-U.S., Permanent visa	123	114	130	173	174	196	116
Non-U.S., Temporary visa	225	349	542	476	516	482	500
Unknown	37	142	241	371	150	228	393
Professional/Other Fields							
U.S. Citizen	811	1,443	1,301	1,409	1,652	1,671	1,499
Non-U.S., Permanent visa	54	69	76	96	123	162	110
Non-U.S., Temporary visa	110	198	209	313	581	561	496
Unknown	115	47	72	164	46	82	133

<sup>a</sup> Includes mathematics and computer sciences.

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, 2001  
(ranked by number of doctorate recipients)**

Rank	Country	Number of doctorate recipients
1.	China, Peoples Republic of <sup>a</sup>	2,670
2.	Korea <sup>b</sup>	1,186
3.	India	950
4.	China, Rep of (Taiwan)	770
5.	Canada	490
6.	Turkey	353
7.	Thailand	312
8.	Germany	305
9.	Russia	255
10.	Mexico	242
11.	Japan	234
12.	Great Britain, UK	207
13.	Brazil	169
14.	Italy	147
15.	Romania	126
16.	France	120
17.	Spain	118
18.	Greece	111
19.	Iran	107
20.	Egypt	92
21.	Saudi Arabia	88
22.	Jordan	86
23.	Yugoslavia	84
24.	Argentina	81
25.	South Africa	78
26.	Malaysia	75
27.	Colombia	72
28.	Israel	71
29.	Australia	67
30.	Venezuela	62

<sup>a</sup> Includes Hong Kong.

<sup>b</sup> Includes Republic of Korea (South Korea) and Democratic People's Republic of Korea (North Korea).

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



**Table 13. Leading doctorate-granting institutions of non-U.S. citizen doctorate recipients, 2001  
(ranked by number of doctorate recipients)**

Institution	Number of doctorate recipients	Institution	Number of doctorate recipients
University of Illinois at Urbana-Champaign	266	Massachusetts Institute of Technology	175
Ohio State University	249	University of California-Berkeley	173
Purdue University-Main Campus	233	Cornell University-Endowed Colleges	172
The University of Texas at Austin	220	University of Maryland-College Park	161
University of Minnesota-Twin Cities	219	Columbia University	158
Stanford University	211	Michigan State University	155
Pennsylvania State University-Main Campus	206	University of Michigan-Ann Arbor	151
University of Wisconsin-Madison	193	University of Southern California	149
Texas A & M University	179	University of Pittsburgh	139
University of California-Los Angeles	175	Harvard University	138
		<i>Top 20 institutions</i>	3,722
		<i>Total institutions reported (416)</i>	11,602

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

**Table 14. Leading doctorate-granting institutions of non-U.S. citizen doctorate recipients, 2001  
(ranked by percentage of institution's doctorate recipients)**

Institution <sup>a</sup>	Percent <sup>b</sup>	Institution <sup>a</sup>	Percent <sup>b</sup>
Polytechnic University	81.6	Purdue University-Main Campus	49.7
New Jersey Institute of Technology	80.3	Kansas State University	49.0
University of Missouri-Rolla	69.0	Carnegie Mellon University	48.6
Worcester Polytechnic Institute	64.7	Stevens Institute of Tech	48.3
Clarkson University	61.9	Andrews University	48.0
Illinois Institute of Technology	61.4	Georgia Institute of Technology-Main Campus	47.8
Southern Methodist University	56.8	Rutgers University-Newark	47.2
Northeastern University	55.7	California Institute of Technology	46.5
The University of Tennessee Health Science Center	53.1	Iowa State University	46.1
Loma Linda University	50.0	University of Akron	45.8

<sup>a</sup> The ranking excludes institutions with fewer than 10 non-U.S. citizen doctorate recipients.

<sup>b</sup> The percent column is based on the number of non-U.S. citizens as a percentage of the total doctorates awarded by that institution.

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

**Table 15. Parental educational attainment of 2001 doctorate recipients, by selected characteristics**

	Percent high school or less	Percent college	Percent advanced degree	Total percent	Total number
Total					
Father's education	29.8	35.3	34.9	100.0	36,858
Mother's education	38.7	39.8	21.5	100.0	36,940
Sex					
Male					
Father's education	30.5	35.3	34.2	100.0	20,653
Mother's education	40.8	38.7	20.5	100.0	20,695
Female					
Father's education	29.0	35.4	35.7	100.0	16,205
Mother's education	35.9	41.2	22.8	100.0	16,245
Race/Ethnicity (U.S. citizens only)					
Asian <sup>a</sup>					
Father's education	20.6	29.4	50.0	100.0	1,336
Mother's education	34.4	39.7	25.8	100.0	1,339
Black					
Father's education	52.2	28.1	19.6	100.0	1,476
Mother's education	45.8	33.5	20.7	100.0	1,493
Hispanic					
Father's education	43.8	27.5	28.7	100.0	1,071
Mother's education	49.8	33.1	17.0	100.0	1,074
American Indian <sup>b</sup>					
Father's education	41.3	38.7	20.0	100.0	155
Mother's education	47.7	38.1	14.2	100.0	155
White					
Father's education	25.5	35.0	39.5	100.0	21,079
Mother's education	31.8	43.0	25.2	100.0	21,119
Citizenship					
U.S. Citizen					
Father's education	27.6	33.9	38.5	100.0	25,796
Mother's education	33.5	41.8	24.7	100.0	25,867
Non-U.S., Permanent visa					
Father's education	32.0	35.5	32.4	100.0	1,732
Mother's education	47.6	33.8	18.6	100.0	1,735
Non-U.S., Temporary visa					
Father's education	35.4	39.4	25.2	100.0	9,307
Mother's education	51.4	35.4	13.2	100.0	9,315
Broad field of study					
Physical Sciences <sup>c</sup>					
Father's education	26.0	35.9	38.1	100.0	5,463
Mother's education	34.7	40.8	24.5	100.0	5,471
Engineering					
Father's education	27.0	42.0	31.0	100.0	4,987
Mother's education	41.4	41.3	17.3	100.0	4,990
Life Sciences					
Father's education	26.7	36.7	36.6	100.0	7,553
Mother's education	35.3	42.5	22.1	100.0	7,574
Social Sciences					
Father's education	26.4	34.7	38.9	100.0	6,130
Mother's education	34.5	40.7	24.8	100.0	6,147
Humanities					
Father's education	25.4	30.8	43.8	100.0	5,115
Mother's education	32.3	39.1	28.5	100.0	5,132
Education					
Father's education	45.8	32.0	22.2	100.0	5,630
Mother's education	52.1	34.7	13.2	100.0	5,642
Professional/Other Fields					
Father's education	35.3	35.3	29.4	100.0	1,980
Mother's education	46.9	36.3	16.8	100.0	1,984

<sup>a</sup> Does not include Native Hawaiians and other Pacific Islanders.

<sup>b</sup> Includes Alaskan Natives.

<sup>c</sup> Includes mathematics and computer sciences.

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

**Table 16. Median number of years from baccalaureate to doctorate award by broad field for selected years, 1976-2001**

		1976	1981	1986	1991	1996	2001
All Fields	Total	8.8	9.5	10.5	10.5	10.8	10.0
	Registered	6.1	6.5	7.0	7.2	7.3	7.5
Physical Sciences <sup>a</sup>	Total	6.9	6.9	7.3	8.0	8.3	7.8
	Registered	5.8	6.0	6.1	6.5	6.8	6.7
Engineering	Total	7.5	8.0	8.2	8.6	9.0	8.4
	Registered	5.8	5.8	6.0	6.3	6.5	6.7
Life Sciences	Total	7.3	7.4	8.7	9.1	9.6	9.0
	Registered	5.8	6.0	6.5	6.9	7.0	7.0
Social Sciences	Total	7.9	9.0	10.0	10.7	10.3	9.7
	Registered	6.0	6.7	7.3	7.7	7.5	7.6
Humanities	Total	9.9	11.0	12.2	12.3	11.8	11.5
	Registered	7.0	8.0	8.5	8.7	8.5	9.0
Education	Total	12.8	13.6	15.9	18.5	20.3	19.0
	Registered	6.6	7.2	8.0	8.4	8.6	8.3
Professional/Other Fields	Total	10.3	11.1	13.0	13.6	13.8	14.0
	Registered	6.2	6.7	7.5	7.8	7.7	8.2

<sup>a</sup> 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, 2001**

Elapsed Time from Baccalaureate (years)								
	All Fields	Physical Sciences <sup>a</sup>	Engineering	Life Sciences	Social Sciences	Humanities	Education	Professional/ Other
All doctorate recipients	10.0	7.8	8.4	9.0	9.7	11.5	19.0	14.0
Sex								
Male	9.6	7.8	8.5	8.8	9.9	11.5	18.0	13.4
Female	11.0	7.6	8.0	9.0	9.6	11.6	19.3	14.7
Citizenship								
U.S. citizen	10.5	7.2	7.7	8.6	9.6	11.5	20.0	15.3
Non-U.S., Permanent visa	10.7	9.5	10.0	9.7	11.0	12.3	14.6	13.5
Non-U.S., Temporary visa	9.3	8.4	8.5	9.8	9.9	11.4	12.6	11.2
Race/Ethnicity (U.S. citizens only)								
Asian <sup>b</sup>	8.5	7.0	8.0	8.0	9.3	11.5	16.0	15.0
Black	12.6	7.3	8.0	8.6	10.0	11.0	21.0	16.2
Hispanic	10.6	7.3	8.0	8.4	9.9	11.0	17.4	13.0
American Indian <sup>c</sup>	13.0	6.7	12.0	9.9	11.0	10.0	19.0	20.5
White	10.6	7.1	7.6	8.6	9.6	11.6	20.0	15.3

Registered Time from Baccalaureate (years)								
	All Fields	Physical Sciences <sup>a</sup>	Engineering	Life Sciences	Social Sciences	Humanities	Education	Professional/ Other
All doctorate recipients	7.5	6.7	6.7	7.0	7.6	9.0	8.3	8.2
Sex								
Male	7.3	6.7	6.6	7.0	7.7	9.0	8.3	8.2
Female	7.7	6.6	6.8	7.0	7.6	9.1	8.3	8.2
Citizenship								
U.S. citizen	7.6	6.5	6.6	7.0	7.6	9.0	8.6	8.5
Non-U.S., Permanent visa	8.0	7.1	7.4	7.7	8.6	9.3	8.5	8.7
Non-U.S., Temporary visa	7.1	7.0	6.7	7.3	7.5	8.9	6.8	7.7
Race/Ethnicity (U.S. citizens only)								
Asian <sup>b</sup>	7.3	6.5	7.0	6.9	7.5	9.0	9.0	10.0
Black	7.9	6.6	7.0	7.3	7.7	8.3	8.3	8.6
Hispanic	8.0	6.6	6.6	7.0	8.2	9.0	8.9	8.0
American Indian <sup>c</sup>	8.0	6.0	6.4	7.0	8.0	9.5	9.4	9.3
White	7.6	6.5	6.6	7.0	7.6	9.0	8.6	8.3

<sup>a</sup> Includes mathematics and computer sciences.

<sup>b</sup> Does not include Native Hawaiians and other Pacific Islanders.

<sup>c</sup> Includes Alaskan Natives.

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

**Table 18. Distribution of 2001 doctorate recipients by age at doctorate**

Field of study	Median age at doctorate	Age grouping					
		21-25	26-30	31-35	36-40	41-45	Over 45
All fields	33.3	286	12,405	11,313	5,612	3,354	5,394
Broad field							
Physical Sciences <sup>a</sup>	30.6	86	2,950	1,657	560	224	191
Engineering	31.2	83	2,424	1,673	653	224	143
Life Sciences	31.8	61	3,181	2,412	1,059	543	549
Social Sciences	32.9	34	2,110	2,045	968	552	674
Humanities	35.0	8	1,009	1,914	1,025	556	783
Education	43.8	9	442	1,025	951	964	2,525
Professional/Other Fields	37.8	5	289	587	396	291	529
Sex							
Male	32.8	191	7,416	6,858	3,281	1,701	2,065
Female	34.3	95	4,989	4,455	2,331	1,653	3,329
Citizenship							
U.S. citizen	33.9	169	8,427	6,822	3,644	2,660	4,917
Permanent visa	34.3	13	429	668	378	172	139
Temporary visa	32.3	100	3,458	3,747	1,546	498	294
Unknown	33.6	4	91	76	44	24	44
Race/Ethnicity (U.S. citizens only)							
Asian <sup>b</sup>	31.2	28	620	362	153	84	117
Black	37.7	7	402	319	197	192	457
Hispanic	34.7	4	294	318	166	128	198
American Indian <sup>c</sup>	38.7	0	28	38	27	25	42
White	33.9	125	6,869	5,583	2,989	2,159	3,978

<sup>a</sup> Includes mathematics and computer sciences.

<sup>b</sup> Does not include Native Hawaiians and other Pacific Islanders.

<sup>c</sup> Includes Alaskan Natives.

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, 2001**  
(includes only doctorate recipients who reported primary source of support)

Primary source of support (responses only)		Total <sup>a</sup>	Sex		Citizenship			U.S. citizens and permanent residents				
			Men	Women	U.S. citizen	Permanent resident	Temporary resident	Asian <sup>b</sup>	Black	Hispanic	American Indian <sup>c</sup>	White
All Fields	N	40,744	22,769	17,901	26,907	1,822	9,780	2,154	1,721	1,262	163	22,587
Teaching assistantships	%	17.8	18.3	17.1	17.0	21.7	19.2	14.6	9.6	14.4	13.2	18.3
Research assistantships/Traineeships	%	26.3	31.7	19.5	19.9	31.9	43.4	35.2	9.6	13.3	8.6	20.6
Fellowships/Dissertation grants	%	20.3	20.0	20.7	21.0	20.2	18.5	26.0	31.3	32.5	27.6	18.9
Own resources	%	29.3	22.9	37.4	36.9	22.8	9.3	20.3	44.1	35.3	42.8	36.9
Foreign government	%	2.3	2.9	1.5	0.1	1.6	8.7	0.5	0.1	0.8	1.3	0.1
Employer	%	3.9	4.1	3.7	5.1	1.9	1.0	3.3	5.3	3.7	6.6	5.1
Other	%	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.1
Physical Sciences <sup>d</sup>	N	5,970	4,460	1,501	3,121	328	2,256	340	93	103	15	2,787
Teaching assistantships	%	25.9	25.9	25.9	23.3	31.5	28.7	23.9	19.8	17.3	21.4	24.9
Research assistantships/Traineeships	%	45.7	46.9	42.3	42.6	43.4	50.7	49.1	16.5	32.7	35.7	42.9
Fellowships/Dissertation grants	%	16.0	14.5	20.3	19.0	13.5	11.9	15.5	48.4	34.7	14.3	16.9
Own resources	%	8.6	8.5	9.0	11.8	10.3	3.7	7.8	14.3	11.2	28.6	12.2
Foreign government	%	1.9	2.0	1.6	0.1	0.3	4.8	0.3	0.0	0.0	0.0	0.1
Employer	%	1.9	2.2	0.9	3.1	1.0	0.2	3.4	1.1	4.1	0.0	3.0
Other	%	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Engineering	N	5,502	4,564	925	2,139	296	2,772	417	92	91	14	1,746
Teaching assistantships	%	8.2	8.3	8.1	6.6	9.8	9.4	8.4	6.0	3.5	8.3	6.6
Research assistantships/Traineeships	%	56.9	57.8	52.8	45.3	62.7	65.5	55.8	29.8	39.5	25.0	47.1
Fellowships/Dissertation grants	%	15.8	14.3	22.8	24.1	12.3	9.7	17.4	45.2	31.4	16.7	22.4
Own resources	%	9.9	10.1	9.0	14.0	9.4	6.5	10.4	13.1	14.0	25.0	13.9
Foreign government	%	4.4	4.5	3.8	0.2	2.5	7.9	1.0	0.0	2.3	8.3	0.2
Employer	%	4.8	5.1	3.3	9.8	3.3	1.0	6.9	6.0	9.3	16.7	9.8
Other	%	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Life Sciences	N	8,296	4,363	3,908	5,395	449	2,004	665	215	213	21	4,570
Teaching assistantships	%	10.7	11.5	9.9	10.3	8.0	12.3	6.8	6.0	8.4	10.0	11.1
Research assistantships/Traineeships	%	37.5	40.0	34.6	33.6	43.3	46.6	42.7	22.5	24.6	10.0	34.3
Fellowships/Dissertation grants	%	30.7	30.5	30.8	33.1	32.0	23.7	38.3	51.0	46.8	55.0	30.5
Own resources	%	15.1	11.9	18.7	19.1	11.9	4.9	9.3	17.5	15.8	20.0	20.1
Foreign government	%	3.0	3.6	2.4	0.0	1.9	11.5	0.2	0.5	1.0	0.0	0.1
Employer	%	3.0	2.5	3.5	3.7	2.9	1.0	2.5	2.5	3.4	5.0	3.9
Other	%	0.1	0.1	0.1	0.1	0.0	0.1	0.2	0.0	0.0	0.0	0.1
Social Sciences	N	6,825	3,109	3,707	5,058	238	1,081	265	324	279	36	4,226
Teaching assistantships	%	21.2	24.4	18.5	19.6	29.3	26.8	22.2	12.5	14.4	12.5	21.0
Research assistantships/Traineeships	%	14.6	12.8	16.1	14.6	11.7	15.0	12.5	11.2	9.8	9.4	15.3
Fellowships/Dissertation grants	%	21.1	23.6	19.1	19.0	20.7	31.7	29.8	33.7	28.4	28.1	16.4
Own resources	%	39.5	33.9	44.1	44.9	35.6	14.5	35.1	40.6	44.7	46.9	45.2
Foreign government	%	1.9	2.9	1.1	0.0	2.7	11.0	0.0	0.0	1.1	3.1	0.1
Employer	%	1.6	2.1	1.1	1.8	0.0	1.0	0.4	2.0	1.5	0.0	1.7
Other	%	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Humanities	N	5,589	2,759	2,823	4,380	285	671	197	189	238	24	3,847
Teaching assistantships	%	34.2	32.8	35.5	33.6	37.6	36.8	29.2	20.1	32.8	33.3	34.9
Research assistantships/Traineeships	%	1.4	1.8	1.1	1.3	0.8	2.3	1.1	1.1	0.9	0.0	1.4
Fellowships/Dissertation grants	%	26.7	26.9	26.6	25.9	25.6	33.1	36.0	50.6	36.7	33.3	23.5
Own resources	%	34.8	34.6	35.0	37.1	35.0	18.8	33.1	25.9	27.5	29.2	38.2
Foreign government	%	1.1	1.7	0.6	0.0	1.1	8.5	0.6	0.0	0.4	0.0	0.1
Employer	%	1.7	2.2	1.2	2.0	0.0	0.5	0.0	2.3	1.7	4.2	1.9
Other	%	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Education	N	6,324	2,234	4,085	5,315	116	500	145	667	272	44	4,188
Teaching assistantships	%	8.1	8.4	8.0	7.2	17.1	15.0	9.0	3.8	4.2	2.4	8.0
Research assistantships/Traineeships	%	6.3	6.2	6.4	5.6	11.4	12.6	13.4	4.3	4.2	0.0	5.8
Fellowships/Dissertation grants	%	8.9	9.3	8.7	7.7	9.5	21.8	8.2	14.1	21.4	17.1	5.8
Own resources	%	65.3	61.9	67.1	68.4	55.2	34.5	65.7	69.7	64.7	68.3	68.3
Foreign government	%	1.2	1.8	0.8	0.1	0.0	13.1	0.0	0.0	0.4	0.0	0.1
Employer	%	10.1	12.3	8.8	10.8	6.7	2.8	3.7	8.2	4.6	12.2	11.9
Other	%	0.1	0.2	0.1	0.1	0.0	0.2	0.0	0.0	0.4	0.0	0.1
Professional/Other Fields	N	2,238	1,280	952	1,499	110	496	125	141	66	9	1,223
Teaching assistantships	%	21.3	22.1	20.1	20.1	25.5	23.7	20.5	16.5	16.9	11.1	21.1
Research assistantships/Traineeships	%	10.7	10.6	10.8	7.5	12.7	19.8	9.8	4.7	5.1	0.0	8.3
Fellowships/Dissertation grants	%	17.6	19.0	15.6	15.5	10.8	25.4	15.2	29.9	27.1	33.3	12.9
Own resources	%	41.5	38.1	46.0	48.5	48.0	18.5	46.4	37.8	42.4	44.4	50.0
Foreign government	%	2.6	3.2	1.8	0.2	2.0	10.2	3.6	0.0	0.0	0.0	0.1
Employer	%	6.3	6.8	5.6	8.1	1.0	2.4	4.5	11.0	8.5	11.1	7.6
Other	%	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1

<sup>a</sup> Total includes 74 doctoral recipients for whom gender was not reported.

<sup>b</sup> Does not include Native Hawaiians and other Pacific Islanders.

<sup>c</sup> Includes Alaskan Natives.

<sup>d</sup> Includes mathematics and computer science.

**Table 20. Cumulative debt related to the education of the doctorate recipients, by broad field, 2001**

Cumulative debt	Total		Physical Sciences <sup>a</sup>		Engineering		Life Sciences		Social Sciences		Humanities		Education		Professional/ Other Fields	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
No Debt	18,205	49.5	3,191	58.5	3,094	62.4	3,814	50.5	2,151	35.2	2,016	39.5	2,967	52.9	972	48.9
\$5,000 or less	2,908	7.9	458	8.4	431	8.7	627	8.3	421	6.9	402	7.9	433	7.7	136	6.8
\$5,001-\$10,000	2,537	6.9	398	7.3	280	5.6	586	7.8	391	6.4	418	8.2	340	6.1	124	6.2
\$10,001-\$15,000	2,048	5.6	328	6.0	215	4.3	448	5.9	374	6.1	339	6.6	247	4.4	97	4.9
\$15,001-\$20,000	1,828	5.0	241	4.4	188	3.8	403	5.3	366	6.0	333	6.5	214	3.8	83	4.2
\$20,001-\$25,000	1,403	3.8	173	3.2	123	2.5	300	4.0	280	4.6	267	5.2	186	3.3	74	3.7
\$25,001-\$30,000	1,280	3.5	125	2.3	110	2.2	260	3.4	285	4.7	234	4.6	191	3.4	75	3.8
\$30,001 or more	6,564	17.9	544	10.0	517	10.4	1,108	14.7	1,846	30.2	1,096	21.5	1,027	18.3	426	21.4
Total	36,773	100.0	5,458	100.0	4,958	100.0	7,546	100.0	6,114	100.0	5,105	100.0	5,605	100.0	1,987	100.0

<sup>a</sup> 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, 2001**

Cumulative debt	Sex				Citizenship						Race/Ethnicity (U.S. citizens and permanent residents)									
	Male		Female		U.S. citizen		Permanent visa		Temporary visa		Asian <sup>a</sup>		Black		Hispanic		American Indian <sup>b</sup>		White	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
No debt	10,348	50.2	7,857	48.7	10,900	42.2	1,066	61.9	6,220	67.8	1,149	55.9	453	28.2	391	32.5	54	35.3	9,637	44.2
\$5,000 or less	1,716	8.3	1,192	7.4	1,956	7.6	118	6.8	818	8.9	138	6.7	128	8.0	97	8.1	10	6.5	1,647	7.6
\$5,001-\$10,000	1,476	7.2	1,061	6.6	1,974	7.6	92	5.3	467	5.1	125	6.1	114	7.1	109	9.1	16	10.5	1,635	7.5
\$10,001-\$15,000	1,203	5.8	845	5.2	1,687	6.5	80	4.6	280	3.1	122	5.9	89	5.5	79	6.6	9	5.9	1,407	6.5
\$15,001-\$20,000	1,047	5.1	780	4.8	1,556	6.0	78	4.5	190	2.1	110	5.3	86	5.3	80	6.7	6	3.9	1,316	6.0
\$20,001-\$25,000	757	3.7	646	4.0	1,211	4.7	50	2.9	141	1.5	76	3.7	89	5.5	59	4.9	5	3.3	999	4.6
\$25,001-\$30,000	707	3.4	572	3.5	1,109	4.3	34	2.0	136	1.5	54	2.6	81	5.0	56	4.7	7	4.6	912	4.2
\$30,001 or more	3,376	16.4	3,188	19.8	5,429	21.0	205	11.9	925	10.1	283	13.8	569	35.4	332	27.6	46	30.1	4,242	19.5
Total	20,630	100.0	16,141	100.0	25,822	100.0	1,723	100.0	9,177	100.0	2,057	100.0	1,609	100.0	1,203	100.0	153	100.0	21,795	100.0

<sup>a</sup> Does not include Native Hawaiians and other Pacific Islanders.

<sup>b</sup> Includes Alaskan Natives.

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

**Table 22. Postgraduation status of doctorate recipients by broad field for selected years, 1981-2001**

		All Fields	Physical Sciences <sup>a</sup>	Engineering	Life Sciences	Social Sciences	Humanities	Education	Professional/ Other Fields
Total									
1981	N	31,356	4,170	2,528	5,611	6,141	3,751	7,497	1,658
1986	N	31,903	4,807	3,376	5,734	5,893	3,462	6,649	1,982
1991	N	37,533	6,279	5,214	6,933	6,152	4,099	6,454	2,402
1996	N	42,438	6,674	6,309	8,255	6,825	5,115	6,784	2,476
2001	N	40,744	5,970	5,502	8,296	6,825	5,589	6,324	2,238
Total responses to postgraduation status									
1981	N	28,802	3,883	2,298	5,147	5,611	3,418	6,936	1,509
1986	N	28,965	4,318	2,960	5,293	5,337	3,138	6,140	1,779
1991	N	34,352	5,762	4,598	6,452	5,587	3,807	5,976	2,170
1996	N	38,623	6,110	5,743	7,617	6,186	4,701	6,053	2,213
2001	N	36,907	5,474	4,978	7,573	6,148	5,115	5,626	1,993
Definite commitments for employment or study									
1981	%	76.0	80.7	77.4	78.4	74.6	66.4	75.1	84.8
1986	%	73.5	76.4	69.8	75.8	72.0	64.0	75.4	81.2
1991	%	70.5	70.3	62.4	74.1	69.8	64.2	74.7	78.6
1996	%	67.5	67.4	63.6	70.8	65.5	58.5	74.1	73.3
2001	%	72.9	76.1	72.6	73.0	72.9	65.5	74.3	78.6
Seeking employment or study									
1981	%	24.0	19.3	22.6	21.6	25.4	33.6	24.9	15.2
1986	%	26.5	23.6	30.2	24.2	28.0	36.0	24.6	18.8
1991	%	29.5	29.7	37.6	25.9	30.2	35.8	25.3	21.4
1996	%	32.5	32.6	36.4	29.2	34.5	41.5	25.9	26.7
2001	%	27.1	23.9	27.4	27.0	27.1	34.5	25.7	21.4

<sup>a</sup> Includes mathematics and computer sciences.

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



**Table 23. Postgraduation status of doctorate recipients by demographic group for selected years, 1981-2001**

		Total	Sex		Citizenship			U.S. citizens & permanent residents					
			Men	Women	U.S. citizens	Permanent visa	Temporary visa	Asian <sup>a</sup>	Black	Hispanic	American Indian <sup>b</sup>	White	
<b>Total</b>													
1981	N	31,356	21,464	9,892	25,068	1,281	3,984	1,070	1,109	529	85	22,473	
1986	N	31,903	20,596	11,307	23,089	1,433	5,325	1,058	949	679	99	21,231	
1991 <sup>c</sup>	N	37,533	23,524	13,873	25,572	1,857	9,382	1,527	1,161	865	132	23,056	
1996 <sup>d</sup>	N	42,438	25,286	16,957	27,777	3,765	9,649	3,674	1,447	1,112	187	24,670	
2001 <sup>e</sup>	N	40,744	22,769	17,901	26,907	1,822	9,780	2,154	1,721	1,262	163	22,587	
<b>Total responses to postgraduation status</b>													
1981	N	28,802	19,717	9,085	23,970	1,183	3,624	988	1,051	505	82	21,742	
1986	N	28,965	18,516	10,449	22,638	1,344	4,955	991	922	656	96	20,877	
1991	N	34,352	21,492	12,855	24,290	1,719	8,338	1,422	1,049	819	127	22,250	
1996	N	38,623	23,115	15,503	26,162	3,530	8,899	3,446	1,300	1,049	172	23,429	
2001	N	36,907	20,686	16,220	25,877	1,724	9,258	2,064	1,604	1,206	152	21,840	
<b>Definite commitments for employment or study</b>													
1981	%	76.0	78.4	70.8	77.0	66.4	72.4	70.5	72.3	74.3	75.6	77.0	
1986	%	73.5	75.1	70.8	75.1	61.2	69.7	66.3	68.8	69.8	66.7	75.2	
1991	%	70.5	70.3	70.8	73.9	57.2	63.4	61.7	68.5	68.7	67.7	73.9	
1996	%	67.5	67.6	67.4	70.5	60.1	61.5	61.9	67.9	70.8	69.8	70.4	
2001	%	72.9	74.2	71.1	73.8	66.4	71.4	69.2	69.6	74.2	69.7	74.2	
<b>Seeking employment or study</b>													
1981	%	24.0	21.6	29.2	23.0	33.6	27.6	29.5	27.7	25.7	24.4	23.0	
1986	%	26.5	24.9	29.2	24.9	38.8	30.3	33.7	31.2	30.2	33.3	24.8	
1991	%	29.5	29.7	29.2	26.1	42.8	36.6	38.3	31.5	31.3	32.3	26.1	
1996	%	32.5	32.4	32.6	29.5	39.9	38.5	38.1	32.1	29.2	30.2	29.6	
2001	%	27.1	25.8	28.9	26.2	33.6	28.6	30.8	30.4	25.8	30.3	25.8	

<sup>a</sup> Includes Native Hawaiians/Other Pacific Islanders through 2000, but excludes them in 2001 per revised OMB guidelines issued for 2001.

<sup>b</sup> Includes Alaskan Natives.

<sup>c</sup> Total includes 136 doctoral recipients for whom sex is not known.

<sup>d</sup> Total includes 195 doctoral recipients for whom sex is not known.

<sup>e</sup> Total includes 74 doctoral recipients for whom sex is not known.

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, 1981-2001**

		All Fields	Physical Sciences <sup>a</sup>	Engineering	Life Sciences	Social Sciences	Humanities	Education	Professional/ Other Fields
<b>All definite commitments</b>									
1981	N	21,889	3,133	1,778	4,034	4,187	2,270	5,208	1,279
1986	N	21,301	3,300	2,066	4,013	3,842	2,007	4,629	1,444
1991	N	24,218	4,052	2,871	4,781	3,902	2,445	4,462	1,705
1996	N	26,072	4,120	3,652	5,395	4,049	2,750	4,483	1,623
2001	N	26,889	4,168	3,612	5,532	4,481	3,349	4,181	1,566
<b>Definite commitments with responses to type of plans</b>									
1981	N	21,828	3,122	1,770	4,026	4,181	2,259	5,196	1,274
1986	N	21,186	3,290	2,059	3,998	3,817	1,983	4,600	1,439
1991	N	24,115	4,047	2,861	4,771	3,893	2,428	4,419	1,696
1996	N	26,026	4,114	3,646	5,387	4,042	2,742	4,476	1,619
2001	N	26,747	4,157	3,598	5,515	4,459	3,316	4,149	1,553
<b>Employment</b>									
1981	%	80.6	65.7	88.5	46.3	86.4	95.7	97.6	99.1
1986	%	75.9	55.7	81.1	41.2	84.1	92.4	97.1	98.0
1991	%	72.5	51.5	78.9	37.5	82.6	92.5	96.1	97.1
1996	%	70.5	50.2	77.5	35.0	77.5	92.5	97.2	96.4
2001	%	70.9	55.4	81.0	38.8	73.5	89.8	94.1	93.6
<b>Study</b>									
1981	%	19.4	34.3	11.5	53.7	13.6	4.3	2.4	0.9
1986	%	24.1	44.3	18.9	58.8	15.9	7.6	2.9	2.0
1991	%	27.5	48.5	21.1	62.5	17.4	7.5	3.9	2.9
1996	%	29.5	49.8	22.5	65.0	22.5	7.5	2.8	3.6
2001	%	29.1	44.6	19.0	61.2	26.5	10.2	5.9	6.4

<sup>a</sup> Includes mathematics and computer sciences.

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, 1981-2001**

		Total	Sex		Citizenship			U.S. citizens and permanent residents				
			Male	Female	U.S. citizen	Permanent visa	Temporary visa	Asian <sup>a</sup>	Black	Hispanic	American Indian <sup>b</sup>	White
<b>All definite commitments</b>												
1981	N	21,889	15,461	6,428	18,461	786	2,623	697	760	375	62	16,741
1986	N	21,301	13,905	7,396	17,010	822	3,456	657	634	458	64	15,702
1991	N	24,218	15,117	9,096	17,942	983	5,289	878	719	563	86	16,437
1996	N	26,072	15,619	10,448	18,457	2,121	5,477	2,132	883	743	120	16,501
2001	N	26,889	15,356	11,532	19,107	1,145	6,610	1,429	1,117	895	106	16,200
<b>Definite commitments with responses to type of plans</b>												
1981	N	21,828	15,414	6,414	18,423	782	2,605	694	758	374	62	16,708
1986	N	21,186	13,841	7,345	16,930	820	3,424	653	627	458	63	15,634
1991	N	24,115	15,054	9,056	17,871	975	5,265	872	709	562	86	16,375
1996	N	26,026	15,592	10,429	18,429	2,115	5,466	2,127	882	743	120	16,473
2001	N	26,747	15,286	11,461	19,012	1,142	6,573	1,424	1,113	890	105	16,126
<b>Employment</b>												
1981	%	80.6	79.3	83.7	80.8	82.6	78.7	77.2	93.9	85.3	90.3	80.4
1986	%	75.9	73.5	80.2	77.6	75.7	67.1	67.7	88.5	79.0	71.4	77.6
1991	%	72.5	69.8	77.0	75.6	69.5	62.6	63.2	86.3	74.4	77.9	75.5
1996	%	70.5	68.0	74.3	74.7	59.4	60.7	55.4	84.9	75.2	82.5	74.7
2001	%	70.9	70.0	72.2	72.9	69.0	65.5	64.0	77.7	72.2	81.0	73.1
<b>Study</b>												
1981	%	19.4	20.7	16.3	19.2	17.4	21.3	22.8	6.1	14.7	9.7	19.6
1986	%	24.1	26.5	19.8	22.4	24.3	32.9	32.3	11.5	21.0	28.6	22.4
1991	%	27.5	30.2	23.0	24.4	30.5	37.4	36.8	13.7	25.6	22.1	24.5
1996	%	29.5	32.0	25.7	25.3	40.6	39.3	44.6	15.1	24.8	17.5	25.3
2001	%	29.1	30.0	27.8	27.1	31.0	34.5	36.0	22.3	27.8	19.0	26.9

<sup>a</sup> Includes Native Hawaiians/Other Pacific Islanders through 2000, but excludes them in 2001 per revised OMB guidelines issued for 2001.

<sup>b</sup> Includes Alaskan Natives.

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

**Table 26. Employment sector of doctorate recipients with postgraduation commitments in the United States, by demographic group for selected years, 1981-2001**

		Total <sup>a</sup>	Sex		Citizenship			U.S. citizens & permanent residents				
			Male	Female	U.S. citizen	Permanent visa	Temporary visa	Asian <sup>b</sup>	Black	Hispanic	American Indian <sup>c</sup>	White
<b>All employment commitments</b>												
1981	N	16,007	10,887	5,120	14,675	596	721	511	704	312	56	13,224
1986	N	14,460	8,848	5,612	12,983	514	954	408	540	347	44	11,945
1991	N	15,463	8,919	6,544	13,261	583	1,619	519	604	409	64	12,092
1996	N	16,269	9,065	7,204	13,501	1,130	1,628	1,088	732	543	99	12,032
2001	N	17,060	9,402	7,658	13,473	721	2,858	860	851	621	79	11,437
<b>Employment commitments with responses to sector</b>												
1981	N	15,866	10,803	5,063	14,582	589	682	505	693	308	55	13,152
1986	N	14,236	8,726	5,510	12,849	502	877	400	522	340	43	11,840
1991	N	15,291	8,832	6,459	13,123	577	1,591	514	597	406	64	11,967
1996	N	16,169	9,024	7,145	13,418	1,120	1,621	1,075	725	541	99	11,962
2001	N	16,811	9,259	7,552	13,278	710	2,815	850	824	609	79	11,283
<b>Academe</b>												
1981	%	50.8	47.7	57.6	51.2	43.3	50.4	32.1	55.3	64.3	43.6	51.0
1986	%	49.4	46.5	54.0	48.5	50.4	62.4	34.5	51.0	58.2	62.8	48.6
1991	%	52.6	48.6	58.1	52.3	53.0	55.1	37.9	59.3	63.3	53.1	52.2
1996	%	49.1	43.5	56.2	51.8	38.6	34.2	27.7	53.4	60.4	54.5	52.2
2001	%	48.6	42.8	57.2	53.0	41.5	30.1	34.5	51.8	61.4	53.2	53.2
<b>Industry/Self-employed</b>												
1981	%	19.6	23.8	10.7	17.6	46.5	39.7	54.1	8.4	9.1	14.5	17.9
1986	%	21.6	26.3	14.1	20.1	38.6	33.1	48.5	7.7	12.1	4.7	20.7
1991	%	21.4	27.3	13.3	18.6	36.7	38.7	47.3	8.0	13.5	14.1	18.9
1996	%	26.1	34.8	15.0	19.9	51.1	59.7	59.7	10.5	15.5	12.1	20.1
2001	%	29.9	39.1	18.7	21.4	48.0	65.4	52.9	14.2	15.3	20.3	21.4
<b>Government</b>												
1981	%	19.8	19.2	20.9	21.2	4.1	2.3	9.3	26.3	19.8	29.1	20.9
1986	%	18.3	17.1	20.3	20.0	6.4	1.3	10.8	28.2	20.3	25.6	19.4
1991	%	15.6	14.5	17.0	17.8	4.5	1.7	9.7	22.1	12.8	25.0	17.5
1996	%	15.3	13.7	17.3	17.8	5.3	1.6	7.2	26.2	15.0	24.2	17.2
2001	%	6.6	7.2	5.9	7.8	3.7	1.5	5.4	10.0	7.4	10.1	7.6
<b>Other</b>												
1981	%	9.8	9.3	10.8	10.0	6.1	7.5	4.6	10.1	6.8	12.7	10.2
1986	%	10.7	10.1	11.7	11.4	4.6	3.3	6.3	13.2	9.4	7.0	11.3
1991	%	10.4	9.6	11.5	11.3	5.7	4.6	5.1	10.6	10.3	7.8	11.4
1996	%	9.5	7.9	11.5	10.4	5.1	4.4	5.4	9.9	9.1	9.1	10.5
2001	%	14.8	11.0	19.6	17.8	6.8	2.9	7.2	24.0	15.9	16.5	17.7

<sup>a</sup> Includes doctoral recipients for whom sex is reported.

<sup>b</sup> Includes Native Hawaiians/Other Pacific Islanders through 2000, but excludes them in 2001 per revised OMB guidelines issued for 2001.

<sup>c</sup> Includes Alaskan Natives.

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

**Table 27. Sources of support for doctorate recipients with postgraduation commitments for postdoctoral study, by demographic group for selected years, 1981-2001**

		Total <sup>a</sup>	Sex		Citizenship			U.S. citizens & permanent visas				
			Male	Female	U.S. citizen	Permanent visa	Temporary visa	Asian <sup>b</sup>	Black	Hispanic	American Indian <sup>c</sup>	White
<b>All postgraduate study commitments</b>												
1981	N	3,967	2,993	974	3,354	124	486	146	43	51	6	3,102
1986	N	4,372	3,149	1,223	3,357	156	857	183	50	73	17	3,111
1991	N	5,671	3,916	1,755	3,857	227	1,587	261	60	121	15	3,566
1996	N	6,539	4,238	2,301	4,092	723	1,723	813	92	155	19	3,690
2001	N	6,523	3,891	2,632	4,383	293	1,839	432	184	193	14	3,741
<b>Postgraduate study commitments with responses to source of support</b>												
1981	N	3,719	2,803	916	3,130	117	469	133	40	48	6	2,900
1986	N	4,103	2,955	1,148	3,146	145	810	171	47	69	15	2,916
1991	N	5,367	3,728	1,639	3,626	219	1,523	247	56	111	14	3,359
1996	N	6,280	4,094	2,186	3,943	684	1,652	770	86	150	19	3,559
2001	N	6,442	3,845	2,597	4,333	287	1,815	424	182	191	14	3,699
<b>U.S. Government</b>												
1981	%	53.3	53.9	51.6	57.1	53.0	28.4	52.6	52.5	41.7	33.3	57.7
1986	%	47.7	48.2	46.5	53.8	41.4	25.1	54.4	51.1	46.4	60.0	53.4
1991	%	40.9	39.6	43.8	49.7	34.7	20.9	42.1	39.3	37.8	57.1	49.9
1996	%	38.4	37.7	39.8	45.1	40.6	21.4	40.5	26.7	45.3	47.4	45.6
2001	%	33.6	34.4	32.5	40.0	30.0	18.9	36.6	31.3	44.0	42.9	39.9
<b>College or university</b>												
1981	%	17.4	18.2	15.1	14.8	22.2	33.9	20.3	17.5	20.8	16.7	14.8
1986	%	22.7	24.0	19.3	16.8	26.9	44.4	19.9	25.5	17.4	13.3	17.0
1991	%	27.2	28.8	23.4	20.6	26.5	42.8	26.7	37.5	33.3	21.4	19.8
1996	%	29.9	31.8	26.3	24.0	31.4	43.3	28.8	38.4	28.7	26.3	23.8
2001	%	38.5	38.5	38.5	33.4	44.9	49.8	33.5	42.3	38.7	28.6	33.5
<b>Private foundation</b>												
1981	%	11.1	10.0	14.4	11.3	7.7	10.2	12.8	10.0	4.2	0.0	11.1
1986	%	12.3	11.2	15.2	12.7	9.7	11.4	11.1	6.4	18.8	26.7	12.6
1991	%	11.7	11.0	13.4	11.1	16.9	12.4	16.6	12.5	10.8	14.3	11.1
1996	%	10.3	10.2	10.5	10.4	7.6	11.1	9.2	19.8	9.3	15.8	9.9
2001	%	7.5	7.2	8.1	8.3	3.5	6.4	6.4	7.7	3.7	14.3	8.3
<b>Nonprofit, other than private foundation</b>												
1981	%	2.7	2.2	4.0	2.6	5.1	2.6	3.8	5.0	14.6	16.7	2.4
1986	%	2.8	2.7	3.0	2.6	6.2	2.8	4.7	2.1	2.9	0.0	2.6
1991	%	2.6	2.4	2.8	2.2	3.2	3.4	2.4	3.6	1.8	0.0	2.2
1996	%	3.2	3.1	3.6	2.8	3.9	4.1	4.2	0.0	2.7	0.0	2.8
2001	%	3.0	2.6	3.7	2.6	3.8	4.0	3.3	3.8	1.6	0.0	2.6
<b>Other</b>												
1981	%	7.5	8.2	5.6	6.6	4.3	14.5	3.8	5.0	6.3	16.7	6.5
1986	%	7.2	7.6	6.2	6.8	6.9	8.6	5.8	8.5	8.7	0.0	6.9
1991	%	10.8	11.5	9.0	9.6	11.0	13.5	7.7	1.8	11.7	7.1	9.8
1996	%	10.0	9.9	10.2	9.6	8.2	11.8	8.2	7.0	7.3	5.3	9.8
2001	%	11.1	11.6	10.4	9.7	12.9	14.2	12.7	7.7	8.4	14.3	9.8
<b>Unknown</b>												
1981	%	7.9	7.5	9.3	7.6	7.7	10.4	6.8	10.0	12.5	16.7	7.4
1986	%	7.4	6.4	9.8	7.2	9.0	7.7	4.1	6.4	5.8	0.0	7.4
1991	%	6.9	6.5	7.6	6.8	7.8	7.0	4.5	5.4	4.5	0.0	7.2
1996	%	8.1	7.3	9.7	8.1	8.2	8.2	9.1	8.1	6.7	5.3	8.0
2001	%	6.2	5.8	6.8	6.0	4.9	6.8	7.5	7.1	3.7	0.0	5.8

<sup>a</sup> Includes doctoral recipients for whom sex is reported.

<sup>b</sup> Includes Native Hawaiians/ Other Pacific Islanders through 2000, but excludes them in 2001 per revised OMB guidelines issued for 2001.

<sup>c</sup> Includes Alaskan Natives.

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

**Table 28. Postdoctoral location of non-U.S. citizen doctorate recipients with postgraduation commitments by major field and visa status, 2001**

Field	Permanent visa					Temporary visa				
	Number of responses	U.S. location		Foreign location		Number of responses	U.S. location		Foreign location	
		Employment %	Study %	Employment %	Study %		Employment %	Study %	Employment %	Study %
All fields	1,139	63.3	29.5	5.6	1.6	6,552	43.6	28.4	21.9	6.1
Physical Sciences <sup>a</sup>	222	58.6	38.3	0.9	2.3	1,593	42.9	39.2	9.4	8.5
Physics & Astronomy	46	43.5	47.8	0.0	8.7	391	40.7	41.2	6.9	11.3
Chemistry	74	50.0	48.6	0.0	1.4	479	34.7	55.7	5.6	4.0
Earth, Atmospheric, & Marine Sciences	26	61.5	38.5	0.0	0.0	171	28.7	43.3	17.0	11.1
Mathematics	38	63.2	34.2	2.6	0.0	303	41.9	33.3	11.6	13.2
Computer Science	38	86.8	10.5	2.6	0.0	249	73.1	8.8	12.9	5.2
Engineering	197	83.2	11.2	5.6	0.0	1,853	64.6	17.5	15.3	2.6
Life Sciences	274	31.8	63.1	2.6	2.6	1,365	16.1	56.0	21.3	6.6
Biological Sciences	224	25.0	70.5	1.8	2.7	851	12.0	72.3	9.6	6.1
Health Sciences	31	61.3	32.3	6.5	0.0	214	33.2	19.6	38.3	8.9
Agricultural Sciences	19	63.2	26.3	5.3	5.3	300	15.7	35.7	42.3	6.3
Social Sciences	152	69.1	21.1	9.9	0.0	751	43.7	11.6	37.2	7.6
Psychology	52	51.9	42.3	5.8	0.0	100	35.0	33.0	19.0	13.0
Anthropology	14	64.3	21.4	14.3	0.0	37	32.4	16.2	21.6	29.7
Economics	33	81.8	6.1	12.1	0.0	372	48.7	5.1	42.5	3.8
Political Science/International Relations	18	77.8	11.1	11.1	0.0	77	36.4	10.4	39.0	14.3
Sociology	12	83.3	8.3	8.3	0.0	49	44.9	20.4	30.6	4.1
Other Social Sciences	23	78.3	8.7	13.0	0.0	116	43.1	9.5	42.2	5.2
Humanities	165	81.2	8.5	8.5	1.8	369	46.3	7.9	38.8	7.0
History	17	64.7	17.6	11.8	5.9	56	28.6	8.9	50.0	12.5
English Language & Literature	20	75.0	5.0	20.0	0.0	36	44.4	8.3	41.7	5.6
Foreign Language & Literature	47	91.5	2.1	4.3	2.1	65	61.5	10.8	24.6	3.1
Other Humanities	81	80.2	11.1	7.4	1.2	212	46.7	6.6	39.6	7.1
Education	62	75.8	11.3	11.3	1.6	271	22.9	5.5	61.6	10.0
Teacher Education	1	100.0	0.0	0.0	0.0	14	14.3	0.0	85.7	0.0
Teaching Fields	18	88.9	0.0	11.1	0.0	68	19.1	4.4	70.6	5.9
Other Education	43	69.8	16.3	11.6	2.3	189	24.9	6.3	56.6	12.2
Professional/Other Fields	67	80.6	4.5	11.9	3.0	350	56.3	4.3	35.1	4.3
Business & Management	34	85.3	5.9	5.9	2.9	216	66.2	0.9	30.6	2.3
Communications	11	81.8	9.1	9.1	0.0	47	44.7	10.6	42.6	2.1
Other Professional Fields	22	72.7	0.0	22.7	4.5	87	37.9	9.2	42.5	10.3

<sup>a</sup> Includes mathematics and computer sciences.

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

**Table 29. Postdoctoral location of non-U.S. citizen doctorate recipients with postgraduation commitments by visa status for selected years, 1981-2001**

		All non-U.S. citizen	Permanent visa	Temporary visa
<b>All definite commitments</b>				
1981	N	3,409	786	2,623
1986	N	4,278	822	3,456
1991	N	6,272	983	5,289
1996	N	7,598	2,121	5,477
2001	N	7,755	1,145	6,610
<b>Definite commitments with response to location</b>				
1981	N	3,409	786	2,623
1986	N	4,278	822	3,456
1991	N	6,272	983	5,289
1996	N	7,598	2,121	5,477
2001	N	7,724	1,141	6,583
<b>U.S. location</b>				
1981	%	55.2	92.4	41.1
1986	%	60.3	84.8	54.4
1991	%	63.4	86.5	59.1
1996	%	70.2	92.1	61.8
2001	%	75.0	92.7	72.0
<b>Foreign location</b>				
1981	%	44.8	7.6	58.9
1986	%	39.7	15.2	45.6
1991	%	36.6	13.5	40.9
1996	%	29.8	7.9	38.2
2001	%	25.0	7.3	28.0

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





# **APPENDICES**

## APPENDIX A: The Eight Basic Tables, 2001

Appendix A includes the following eight tables:

- A-1 Number of doctorate recipients, by sex and subfield, 2001
- A-2 Number of doctorate recipients, by citizenship, race/ethnicity, and subfield, 2001
- A-3 Statistical profile of doctorate recipients, by major field, 2001
- A-4 Statistical profile of doctorate recipients, by race/ethnicity and citizenship, 2001
- A-5 Sources of graduate school support for doctorate recipients, by broad field and sex, 2001
- A-6 State of doctoral institution of doctorate recipients, by broad field and sex, 2001
- A-7 Institutions granting doctorates, by major field, 2001
- A-8 Top 50 doctorate granting institutions, 2001

**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's degree in any field before earning the doctorate.
- *Median Age at Doctorate*: One-half of the respondents 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's doctorate recipients provide information on post-graduation 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's 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, 31.4 percent of all agricultural sciences doctorate recipients had postdoctoral study plans, 57.4 percent planned to be employed, and 11.1 percent did not report their post-graduation plans, totaling 99.9 percent. The missing .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 57.412935 which rounds to 57.4). 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:

<i>New England:</i>	Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont
<i>Middle Atlantic:</i>	New Jersey, New York, Pennsylvania
<i>East North Central:</i>	Illinois, Indiana, Michigan, Ohio, Wisconsin
<i>West North Central:</i>	Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota
<i>South Atlantic:</i>	Delaware, District of Columbia, Florida, Georgia, Maryland, North Carolina, South Carolina, Virginia, West Virginia
<i>East South Central:</i>	Alabama, Kentucky, Mississippi, Tennessee
<i>West South Central:</i>	Arkansas, Louisiana, Oklahoma, Texas
<i>Mountain:</i>	Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming
<i>Pacific &amp; Insular:</i>	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 2001, 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.

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 2001. 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, 2001**

Subfield of doctorate	Number of doctorates			Subfield of doctorate	Number of doctorates		
	Total <sup>a</sup>	Men	Women		Total <sup>a</sup>	Men	Women
<u>TOTAL ALL FIELDS</u>	40,744	22,769	17,901	Mineralogy, Petrology	15	11	4
<u>PHYSICAL SCIENCES</u>	5,970	4,460	1,501	Stratigraphy, Sedimentation	13	10	3
<u>MATHEMATICS</u>	1,006	730	276	Geomorphology & Glacial Geology	10	7	3
Applied Mathematics	214	158	56	Geological & Related Sci., General	16	10	6
Algebra	67	48	19	Geological & Related Sci., Other	34	24	10
Analysis & Functional Analysis	91	71	20	Environmental Science	120	72	48
Geometry	40	33	7	Hydrology & Water Resources	45	31	14
Logic	24	18	6	Oceanography	85	54	31
Number Theory	35	27	8	Marine Sciences	34	20	14
Mathematical Statistics	198	135	63	Misc. Physical Sciences, Other	31	21	10
Topology	53	38	15	<u>ENGINEERING</u>	5,502	4,564	925
Computing Theory & Practice	11	9	2	Aerospace, Aeronautic., Astronautic.	203	174	28
Operations Research	14	12	2	Agricultural	52	44	8
Mathematics, General	156	119	37	Bioengineering & Biomedical	232	164	67
Mathematics, Other	103	62	41	Ceramic Sciences	17	14	3
<u>COMPUTER SCIENCE</u>	826	668	155	Chemical	631	475	155
Computer Science	687	573	111	Civil	499	416	82
Information Sciences & Systems	83	55	28	Communications	47	35	12
Computer/Info Science, Other	56	40	16	Computer	183	150	33
<u>PHYSICS &amp; ASTRONOMY</u>	1,379	1,181	196	Electrical, Electronics	1,347	1,187	158
Astronomy	89	68	21	Engineering Mechanics	75	70	5
Astrophysics	97	77	20	Engineering Physics	22	20	2
Acoustics	10	9	1	Engineering Science	53	44	9
Chemical & Atomic/Molecular	81	74	7	Environmental Health Engineering	94	65	29
Elementary Particles	121	112	9	Industrial/Manufacturing	205	160	44
Fluids	8	7	1	Materials Science	450	350	99
Nuclear	79	66	13	Mechanical	878	789	86
Optics	107	93	14	Metallurgical	32	29	3
Plasma & High-Temperature	39	36	3	Mining & Mineral	10	8	2
Polymer	18	13	5	Nuclear	75	68	6
Solid State & Low-Temperature	294	262	32	Ocean	28	25	3
Physics, General	207	182	23	Operations Research	55	38	17
Physics, Other	229	182	47	Petroleum	37	29	7
<u>CHEMISTRY</u>	1,979	1,348	628	Polymer/Plastics	58	40	18
Analytical	333	211	122	Systems	46	39	7
Inorganic	280	188	91	Engineering, General	26	22	4
Nuclear	4	4	0	Engineering, Other	147	109	38
Organic	521	388	132	<u>LIFE SCIENCES</u>	8,296	4,363	3,908
Medicinal/Pharmaceutical	115	69	45	<u>BIOLOGICAL SCIENCES</u>	5,678	3,125	2,545
Physical	286	194	92	Biochemistry	726	414	309
Polymer	106	73	33	Biomedical Sciences	154	72	81
Theoretical	40	34	6	Biophysics	162	115	47
Chemistry, General	203	130	73	Biotechnology Research	9	6	3
Chemistry, Other	91	57	34	Bacteriology	17	7	10
<u>EARTH, ATMOS., &amp; MARINE SCI.</u>	780	533	246	Plant Genetics	31	16	15
Atmospheric Physics & Chemistry	33	24	9	Plant Pathology	31	20	11
Atmospheric Dynamics	17	13	4	Plant Physiology	45	25	20
Meteorology	20	18	2	Botany, Other	75	42	33
Atmos. Sci./Meteorology, General	34	23	10	Anatomy	29	17	12
Atmos. Sci./Meteorology, Other	12	9	3	Biometrics and Biostatistics	90	44	46
Geology	115	77	38	Cell Biology	312	165	147
Geochemistry	42	31	11	Ecology	336	210	126
Geophysics & Seismology	88	66	22	Developmental Biology/Embryology	106	52	53
Paleontology	16	12	4	Endocrinology	17	10	7
				Entomology	89	59	30
				Biological Immunology	266	144	122
				Molecular Biology	707	383	324
				Microbiology	397	213	183
				Neuroscience	482	282	199
				Nutritional Sciences	135	36	99

**APPENDIX TABLE A-1. Number of doctorate recipients, by sex and subfield, 2001, continued**

Subfield of doctorate	Number of doctorates			Subfield of doctorate	Number of doctorates		
	Total <sup>a</sup>	Men	Women		Total <sup>a</sup>	Men	Women
Parasitology	22	12	10	International Relations/Affairs	89	59	30
Toxicology	133	71	62	Political Science and Government	659	445	214
Human & Animal Genetics	197	91	106	Public Policy Analysis	138	91	43
Human & Animal Pathology	116	60	56	Sociology	565	236	329
Human & Animal Pharmacology	258	143	115	Statistics	49	27	22
Human & Animal Physiology	214	124	90	Urban Affairs/Studies	80	47	33
Zoology, Other	103	63	40	Social Sciences, General	24	5	19
Biological Sciences, General	197	110	87	Social Sciences, Other	173	66	107
Biological Sciences, Other	222	119	102				
<b>HEALTH SCIENCES</b>	<b>1,613</b>	<b>574</b>	<b>1,027</b>	<b>PSYCHOLOGY</b>	<b>3,433</b>	<b>1,134</b>	<b>2,296</b>
Speech-Lang. Pathology & Audiology	92	19	73	Clinical	1,256	370	886
Environmental Health	57	31	24	Cognitive & Psycholinguistics	142	65	77
Health Systems/Services Admin.	49	24	25	Comparative	5	4	1
Public Health	211	66	143	Counseling	480	148	332
Epidemiology	167	53	113	Developmental and Child	193	34	159
Exercise Physiology/Sci., Kinesiology	153	92	61	Human/Indv. & Family Development	135	40	95
Nursing	361	24	335	Experimental	134	62	72
Pharmacy	147	90	57	Educational	47	17	30
Rehabilitation/Therapeutic Services	118	49	66	Family & Marriage Counseling	45	23	22
Veterinary Medicine	60	34	25	Industrial & Organizational	172	67	104
Health Sciences, General	35	15	20	Personality	11	5	6
Health Sciences, Other	163	77	85	Physiological/Psychobiology	93	47	46
				Psychometrics	2	0	2
<b>AGRICULTURAL SCIENCES</b>	<b>1,005</b>	<b>664</b>	<b>336</b>	Quantitative	10	5	5
Agricultural Economics	154	108	46	School	109	19	90
Agricultural Business & Management	3	1	2	Social	198	91	107
Animal Breeding & Genetics	16	12	4	Psychology, General	228	70	156
Animal Nutrition	45	39	6	Psychology, Other	173	67	106
Dairy Science	2	2	0				
Poultry Science	11	6	5	<b>HUMANITIES</b>	<b>5,589</b>	<b>2,759</b>	<b>2,823</b>
Fisheries Science & Management	44	34	9	<b>GENERAL HUMANITIES</b>	<b>3,798</b>	<b>2,070</b>	<b>1,723</b>
Animal Sciences, Other	71	51	19	History, American	423	265	158
Agronomy & Crop Science	75	54	21	History, Asian	51	35	16
Plant Breeding & Genetics	37	27	10	History, European	245	141	104
Plant Pathology	51	35	16	History/Philosophy of Sci. & Tech.	40	32	8
Plant Sciences, Other	23	14	9	History, General	75	40	35
Food Engineering	13	6	7	History, Other	190	98	92
Food Sciences, Other	128	64	62	Classics	54	35	19
Soil Chemistry/Microbiology	23	8	15	Comparative Literature	203	78	125
Soil Sciences, Other	55	40	15	Linguistics	229	93	136
Horticulture Science	37	24	13	Speech & Rhetorical Studies	126	52	74
Forest Biology	27	20	7	Letters, General	34	10	24
Forest Engineering	0	0	0	Letters, Other	94	40	54
Forest Management	13	9	4	American Studies	127	40	87
Wood Sci. & Pulp/Paper Tech.	20	15	4	Archaeology	40	21	19
Conservation/Renewable Nat. Res.	32	14	18	Art History/Criticism/Conservation	223	64	159
Forestry & Related Sci., Other	48	32	16	Music	784	436	344
Wildlife/Range Management	40	26	14	Philosophy	413	308	104
Agricultural Sciences, General	2	2	0	Religion	343	233	110
Agricultural Sciences, Other	35	21	14	Drama/Theater Arts	104	49	55
<b><u>SOCIAL SCIENCES &amp; PSYCHOLOGY</u></b>	<b>6,825</b>	<b>3,109</b>	<b>3,707</b>	<b>LANGUAGE &amp; LITERATURE</b>	<b>1,596</b>	<b>603</b>	<b>991</b>
<b>SOCIAL SCIENCES</b>	<b>3,392</b>	<b>1,975</b>	<b>1,411</b>	American Literature	383	146	237
Anthropology	408	165	243	English Literature	469	183	286
Area Studies	17	9	8	English Language	125	57	67
Criminology	62	33	29	French	141	31	110
Demography/Population Studies	12	4	8	German	84	36	48
Economics	917	657	258	Italian	16	4	12
Econometrics	13	11	2	Spanish	233	88	144
Geography	186	120	66	Russian	27	5	22
				Slavic	12	6	6



**APPENDIX TABLE A-1. Number of doctorate recipients, by sex and subfield, 2001, continued**

Subfield of doctorate	Number of doctorates			Subfield of doctorate	Number of doctorates		
	Total <sup>a</sup>	Men	Women		Total <sup>a</sup>	Men	Women
Chinese	16	9	7	Social Science Education	12	6	6
Japanese	17	5	12	Technical Education	10	7	3
Hebrew	6	3	3	Trade & Industrial Education	7	4	3
Arabic	6	2	4	Teacher Ed./Spec. Acad. & Voc., Other	56	18	38
Other Language & Literature	61	28	33	OTHER EDUCATION	638	203	432
OTHER HUMANITIES	195	86	109	Education, General	264	75	188
Humanities, General	29	18	11	Education, Other	374	128	244
Humanities, Other	166	68	98	<u>PROFESSIONAL/OTHER FIELDS</u>	2,238	1,280	952
<u>EDUCATION</u>	6,324	2,234	4,085	BUSINESS AND MANAGEMENT	1,049	691	356
RESEARCH & ADMINISTRATION	4,966	1,764	3,200	Accounting	115	73	41
Curriculum & Instruction	881	254	626	Banking/Financial Support Services	66	55	11
Educational Admin. & Supervision	835	333	502	Business Admin. & Management	343	232	111
Educational Leadership	1,213	484	729	Business/Managerial Economics	50	40	10
Educ./Instruct. Media Design	140	65	75	International Business	29	16	13
Educ. Stat./Research Methods	65	20	45	Mgmt. Info. Sys./Bus. Data Proc.	98	72	26
Educ. Assess., Test., & Meas.	44	25	19	Marketing Management & Research	113	65	48
Educational Psychology	280	90	190	Operations Research	39	32	7
School Psychology	123	27	96	Organizational Behavior	117	59	57
Social/Phil. Found. Of Educ.	141	56	85	Bus. Mgmt./Admin. Serv., General	22	11	11
Special Education	230	50	180	Bus. Mgmt./Admin. Serv., Other	57	36	21
Counseling Educ./Couns. & Guidance	210	70	139	COMMUNICATIONS	389	187	201
Higher Educ./Evaluation & Research	511	207	304	Communications Research	60	31	29
Pre-elementary/Early Childhood	47	6	41	Mass Communications	153	85	68
Elementary Education	55	8	47	Communications Theory	39	18	21
Secondary Education	22	10	12	Communications, General	76	28	48
Adult & Continuing Education	169	59	110	Communications, Other	61	25	35
TEACHING FIELDS	720	267	453	OTHER PROFESSIONAL FIELDS	800	402	395
Agricultural Education	22	11	11	Architectural/Environmental Design	67	39	28
Art Education	31	6	25	Home Economics	20	2	18
Business Education	19	6	13	Law	32	16	15
English Education	56	23	33	Library Science	40	10	29
Foreign Languages Education	47	15	32	Parks/Recreation/Leisure/Fitness	41	25	16
Health Education	65	18	47	Public Administration	96	55	41
Home Economics Education	8	0	8	Social Work	259	73	185
Technical/Industrial Arts Education	16	7	9	Theology/Religious Education	195	162	33
Mathematics Education	81	34	47	Professional Fields, General	7	5	2
Music Education	62	29	33	Professional Fields, Other	43	15	28
Nursing Education	5	1	4	OTHER FIELDS	0	0	0
Physical Education and Coaching	80	42	38				
Reading Education	72	6	66				
Science Education	71	34	37				

NOTE: Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates.

<sup>a</sup>Totals include doctorate recipients whose gender was unknown (total is 74).

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, 2001**

Subfield of doctorate	Total doctorate recipients <sup>b</sup>	Non-U.S. citizens temporary visas	U.S. citizens and non-U.S. with permanent visas <sup>a</sup>								
			Total	American Indian <sup>c</sup>	Asian <sup>d</sup>	Black	White	Puerto Rican	Mexican American	Other Hispanic	Other/Unknown Race <sup>e</sup>
<b>TOTAL ALL FIELDS</b>	40,744	9,780	28,729	151	2,154	1,721	22,587	301	401	560	854
<b>PHYSICAL SCIENCES</b>	5,970	2,256	3,449	15	340	93	2,787	20	29	54	111
<b>MATHEMATICS</b>	1,006	435	522	2	48	19	427	2	6	7	11
Applied Mathematics	214	97	115	0	13	8	88	0	0	4	2
Algebra	67	27	40	0	3	0	33	1	3	0	0
Analysis & Functional Analysis	91	52	38	0	2	0	36	0	0	0	0
Geometry	40	27	13	0	0	0	12	0	0	1	0
Logic	24	6	16	0	3	0	11	0	0	1	1
Number Theory	35	16	19	0	2	0	16	0	0	0	1
Mathematical Statistics	198	96	94	2	13	4	71	0	1	0	3
Topology	53	23	29	0	0	0	27	0	1	1	0
Computing Theory & Practice	11	4	6	0	1	0	5	0	0	0	0
Operations Research	14	8	6	0	0	0	6	0	0	0	0
Mathematics, General	156	46	76	0	7	5	60	0	1	0	3
Mathematics, Other	103	33	70	0	4	2	62	1	0	0	1
<b>COMPUTER SCIENCE</b>	826	356	420	1	61	15	319	1	2	5	16
Computer Science	687	315	330	1	56	8	248	1	2	2	12
Information Sciences & Systems	83	21	55	0	3	4	44	0	0	1	3
Computer/Info Science, Other	56	20	35	0	2	3	27	0	0	2	1
<b>PHYSICS &amp; ASTRONOMY</b>	1,379	533	799	1	75	12	658	3	9	10	31
Astronomy	89	22	59	0	1	0	53	0	3	0	2
Astrophysics	97	31	64	1	5	1	50	0	0	4	3
Acoustics	10	3	7	0	1	0	6	0	0	0	0
Chemical & Atomic/Molecular	81	28	52	0	1	1	46	1	0	1	2
Elementary Particles	121	54	67	0	7	0	53	0	0	1	6
Fluids	8	3	5	0	0	0	4	0	0	0	1
Nuclear	79	29	50	0	1	0	48	0	0	0	1
Optics	107	49	58	0	8	1	46	1	0	0	2
Plasma & High-Temperature	39	12	27	0	2	1	24	0	0	0	0
Polymer	18	14	4	0	1	0	2	0	1	0	0
Solid State & Low-Temperature	294	138	155	0	20	1	124	1	3	2	4
Physics, General	207	65	112	0	9	1	94	0	1	1	6
Physics, Other	229	85	139	0	19	6	108	0	1	1	4
<b>CHEMISTRY</b>	1,979	671	1,229	11	122	42	974	11	7	25	37
Analytical	333	90	238	2	15	10	200	2	1	2	6
Inorganic	280	80	196	1	15	10	155	0	3	7	5
Nuclear	4	1	3	0	0	0	3	0	0	0	0
Organic	521	180	333	1	43	11	254	4	1	8	11
Medicinal/Pharmaceutical	115	51	58	0	9	1	42	0	0	3	3
Physical	286	102	180	3	23	1	146	2	1	2	2
Polymer	106	49	55	1	4	3	45	0	0	0	2
Theoretical	40	22	18	0	3	1	14	0	0	0	0
Chemistry, General	203	56	97	2	3	4	77	2	1	3	5
Chemistry, Other	91	40	51	1	7	1	38	1	0	0	3
<b>EARTH, ATMOS., &amp; MARINE SCI.</b>	780	261	479	0	34	5	409	3	5	7	16
Atmospheric Physics & Chemistry	33	16	17	0	1	0	16	0	0	0	0
Atmospheric Dynamics	17	8	9	0	1	0	8	0	0	0	0
Meteorology	20	6	13	0	1	0	11	0	0	0	1
Atmos. Sci./Meteorology, General	34	15	15	0	2	0	11	0	0	0	2
Atmos. Sci./Meteorology, Other	12	4	7	0	0	0	5	0	0	1	1

APPENDIX TABLE A-2. Number of doctorate recipients, by citizenship, race/ethnicity, and subfield, 2001, continued

Subfield of doctorate	Total doctorate recipients <sup>b</sup>	Non-U.S. citizens temporary visas	U.S. citizens and non-U.S. with permanent visas <sup>a</sup>								
			Total	American Indian <sup>c</sup>	Asian <sup>d</sup>	Black	White	Puerto Rican	Mexican American	Other Hispanic	Other/Unknown Race <sup>e</sup>
Geology	115	25	88	0	4	0	79	0	2	1	2
Geochemistry	42	12	29	0	6	0	21	1	0	0	1
Geophysics & Seismology	88	43	41	0	4	1	35	0	0	0	1
Paleontology	16	4	12	0	1	0	11	0	0	0	0
Mineralogy, Petrology	15	7	8	0	1	0	7	0	0	0	0
Stratigraphy, Sedimentation	13	8	5	0	0	0	5	0	0	0	0
Geomorphology & Glacial Geology	10	1	9	0	0	0	9	0	0	0	0
Geological & Related Sci., General	16	6	9	0	0	0	9	0	0	0	0
Geological & Related Sci., Other	34	8	25	0	2	1	17	0	1	1	3
Environmental Science	120	42	71	0	7	0	58	2	1	3	0
Hydrology & Water Resources	45	11	33	0	0	0	30	0	1	0	2
Oceanography	85	25	50	0	1	2	45	0	0	0	2
Marine Sciences	34	11	23	0	3	1	17	0	0	1	1
Misc. Physical Sciences, Other	31	9	15	0	0	0	15	0	0	0	0
<b>ENGINEERING</b>	<b>5,502</b>	<b>2,772</b>	<b>2,435</b>	<b>7</b>	<b>417</b>	<b>92</b>	<b>1,746</b>	<b>13</b>	<b>18</b>	<b>60</b>	<b>82</b>
Aerospace, Aeronautic., Astronautic.	203	87	102	0	12	1	79	1	1	3	5
Agricultural	52	29	23	0	1	1	19	0	0	2	0
Bioengineering & Biomedical	232	59	159	0	21	6	122	1	1	2	6
Ceramic Sciences	17	10	7	0	0	0	7	0	0	0	0
Chemical	631	272	325	0	45	15	248	2	0	5	10
Civil	499	263	219	0	28	10	160	2	0	5	14
Communications	47	34	13	0	4	0	8	0	0	1	0
Computer	183	117	65	0	12	1	48	0	2	1	1
Electrical & Electronics	1,347	776	483	1	116	21	314	2	6	10	13
Engineering Mechanics	75	37	37	0	4	1	29	0	0	2	1
Engineering Physics	22	10	12	0	1	0	11	0	0	0	0
Engineering Science	53	29	22	1	4	2	14	0	0	1	0
Environmental Health Engineering	94	34	50	0	9	1	34	0	1	1	4
Industrial/Manufacturing	205	108	88	1	21	6	53	2	0	1	4
Materials Science	450	219	205	1	34	5	149	1	3	5	7
Mechanical	878	454	390	1	71	16	271	1	4	14	12
Metallurgical	32	19	13	0	3	1	9	0	0	0	0
Mining & Mineral	10	5	5	0	1	0	3	0	0	1	0
Nuclear	75	25	43	1	4	0	34	0	0	3	1
Ocean	28	14	10	0	0	0	10	0	0	0	0
Operations Research	55	27	22	0	3	0	17	0	0	1	1
Petroleum	37	30	6	0	2	0	4	0	0	0	0
Polymer/Plastics	58	33	24	1	5	2	16	0	0	0	0
Systems	46	20	21	0	1	1	19	0	0	0	0
Engineering, General	26	5	12	0	2	1	7	0	0	1	1
Engineering, Other	147	56	79	0	13	1	61	1	0	1	2
<b>LIFE SCIENCES</b>	<b>8,296</b>	<b>2,004</b>	<b>5,844</b>	<b>21</b>	<b>665</b>	<b>215</b>	<b>4,570</b>	<b>56</b>	<b>58</b>	<b>99</b>	<b>160</b>
<b>BIOLOGICAL SCIENCES</b>	<b>5,678</b>	<b>1,239</b>	<b>4,216</b>	<b>15</b>	<b>540</b>	<b>136</b>	<b>3,240</b>	<b>48</b>	<b>47</b>	<b>69</b>	<b>121</b>
Biochemistry	726	178	523	4	73	13	400	3	6	9	15
Biomedical Sciences	154	39	111	0	20	5	80	1	2	0	3
Biophysics	162	53	107	0	15	2	82	0	0	1	7
Biotechnology Research	9	3	6	0	3	1	2	0	0	0	0
Bacteriology	17	2	15	0	0	0	14	0	0	0	1
Plant Genetics	31	7	22	0	1	0	20	0	1	0	0
Plant Pathology	31	10	20	0	1	0	18	0	0	0	1
Plant Physiology	45	19	25	0	2	0	22	0	0	0	1
Botany, Other	75	19	54	1	2	2	46	0	1	0	2
Anatomy	29	4	25	0	2	2	20	0	0	1	0
Biometrics and Biostatistics	90	28	54	0	14	3	34	1	0	0	2
Cell Biology	312	66	241	1	44	3	180	2	4	2	5
Ecology	336	44	286	1	6	1	265	2	4	2	5
Developmental Biology/Embryology	106	23	77	0	20	5	50	1	0	0	1
Endocrinology	17	4	13	0	3	0	9	1	0	0	0
Entomology	89	29	59	0	1	1	51	1	1	3	1
Biological Immunology	266	44	216	1	43	9	148	0	2	6	7
Molecular Biology	707	189	488	1	76	10	366	6	6	8	15

APPENDIX TABLE A-2. Number of doctorate recipients, by citizenship, race/ethnicity, and subfield, 2001, continued

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			Total	American Indian <sup>c</sup>	Asian <sup>d</sup>	Black	White	Puerto Rican	Mexican American	Other Hispanic	Other/Unknown Race <sup>e</sup>
Microbiology	397	94	286	0	37	18	197	13	1	8	12
Neuroscience	482	82	391	2	43	7	311	2	6	7	13
Nutritional Sciences	135	28	93	1	12	6	66	1	1	2	4
Parasitology	22	9	12	0	2	3	7	0	0	0	0
Toxicology	133	27	105	0	9	4	85	0	2	2	3
Human & Animal Genetics	197	31	157	0	22	6	121	2	0	2	4
Human & Animal Pathology	116	23	86	0	9	3	67	0	0	2	5
Human & Animal Pharmacology	258	69	176	1	26	11	130	4	1	2	1
Human & Animal Physiology	214	39	168	1	17	10	126	2	2	5	5
Zoology, Other	103	11	90	0	5	2	79	1	0	1	2
Biological Sciences, General	197	28	137	0	14	4	111	2	3	1	2
Biological Sciences, Other	222	37	173	1	18	5	133	3	4	5	4
<b>HEALTH SCIENCES</b>	<b>1,613</b>	<b>317</b>	<b>1,139</b>	<b>6</b>	<b>104</b>	<b>64</b>	<b>910</b>	<b>4</b>	<b>7</b>	<b>18</b>	<b>26</b>
Speech-Lang. Pathology & Audiology	92	16	73	0	0	3	65	0	1	0	4
Environmental Health	57	10	33	0	1	2	29	0	0	1	0
Health Systems/Services Admin.	49	14	32	0	0	0	31	0	0	0	1
Public Health	211	35	169	2	22	20	118	1	1	4	1
Epidemiology	167	25	130	0	17	7	95	2	1	5	3
Exercise Physiology/Sci., Kinesiology	153	24	120	1	5	4	107	0	1	1	1
Nursing	361	50	300	3	13	15	259	0	2	1	7
Pharmacy	147	74	62	0	23	2	36	0	0	0	1
Rehabilitation/Therapeutic Services	118	4	58	0	11	3	39	1	1	1	2
Veterinary Medicine	60	27	29	0	3	0	23	0	0	1	2
Health Sciences, General	35	4	29	0	1	1	25	0	0	1	1
Health Sciences, Other	163	34	104	0	8	7	83	0	0	3	3
<b>AGRICULTURAL SCIENCES</b>	<b>1,005</b>	<b>448</b>	<b>489</b>	<b>0</b>	<b>21</b>	<b>15</b>	<b>420</b>	<b>4</b>	<b>4</b>	<b>12</b>	<b>13</b>
Agricultural Economics	154	90	57	0	5	3	46	0	0	1	2
Agricultural Business & Management	3	0	3	0	0	0	3	0	0	0	0
Animal Breeding & Genetics	16	9	7	0	1	0	6	0	0	0	0
Animal Nutrition	45	16	29	0	0	0	28	0	0	1	0
Dairy Science	2	1	1	0	0	0	1	0	0	0	0
Poultry Science	11	8	3	0	0	0	3	0	0	0	0
Animal Sciences, Other	71	24	41	0	2	0	38	0	1	0	0
Agronomy & Crop Science	75	34	35	0	1	2	31	0	0	1	0
Plant Breeding & Genetics	37	21	16	0	1	0	12	0	1	1	1
Plant Pathology	51	24	27	0	1	0	25	1	0	0	0
Plant Sciences, Other	23	10	12	0	0	1	10	0	0	1	0
Food Engineering	13	11	2	0	0	0	2	0	0	0	0
Food Sciences, Other	128	73	45	0	4	1	35	1	0	0	4
Soil Chemistry/Microbiology	23	9	14	0	1	1	11	0	1	0	0
Soil Sciences, Other	55	30	23	0	1	0	19	2	0	0	1
Horticulture Science	37	19	17	0	0	1	15	0	0	0	1
Fisheries Science & Management	44	5	26	0	1	0	23	0	0	1	1
Forest Biology	27	7	17	0	0	0	16	0	0	0	1
Forest Engineering	0	0	0	0	0	0	0	0	0	0	0
Forest Management	13	5	7	0	0	0	6	0	0	0	1
Wood Sci. & Pulp/Paper Tech.	20	7	7	0	0	0	7	0	0	0	0
Conservation/Renewable Nat. Res.	32	9	20	0	1	3	16	0	0	0	0
Forestry & Related Sci., Other	48	14	32	0	2	0	26	0	0	4	0
Wildlife/Range Management	40	8	30	0	0	1	28	0	0	0	1
Agricultural Sciences, General	2	1	1	0	0	0	1	0	0	0	0
Agricultural Sciences, Other	35	13	17	0	0	2	12	0	1	2	0
<b><u>SOCIAL SCIENCES &amp; PSYCHOLOGY</u></b>	<b>6,825</b>	<b>1,081</b>	<b>5,296</b>	<b>34</b>	<b>265</b>	<b>324</b>	<b>4,226</b>	<b>66</b>	<b>85</b>	<b>128</b>	<b>168</b>
<b>SOCIAL SCIENCES</b>	<b>3,392</b>	<b>929</b>	<b>2,283</b>	<b>17</b>	<b>151</b>	<b>150</b>	<b>1,788</b>	<b>21</b>	<b>29</b>	<b>55</b>	<b>72</b>
Anthropology	408	61	340	8	18	13	264	7	4	9	17
Area Studies	17	2	15	0	0	2	11	0	1	1	0
Criminology	62	6	54	1	3	0	47	0	0	1	2
Demography/Population Studies	12	0	12	0	0	2	9	0	1	0	0
Economics	917	482	395	2	47	9	310	3	2	11	11
Econometrics	13	6	7	0	4	0	2	0	0	1	0

APPENDIX TABLE A-2. Number of doctorate recipients, by citizenship, race/ethnicity, and subfield, 2001, continued

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			Total	American Indian <sup>c</sup>	Asian <sup>d</sup>	Black	White	Puerto Rican	Mexican American	Other Hispanic	Other/Unknown Race <sup>e</sup>
Geography	186	40	135	0	5	4	119	0	1	5	1
International Relations/Affairs	89	19	67	0	6	6	48	0	0	2	5
Political Science and Government	659	115	508	4	22	40	410	3	4	5	20
Public Policy Analysis	138	26	96	0	4	11	76	0	1	3	1
Sociology	565	80	457	2	27	42	340	7	15	15	9
Statistics	49	33	13	0	2	0	11	0	0	0	0
Urban Affairs/Studies	80	24	48	0	3	8	34	0	0	0	3
Social Sciences, General	24	5	17	0	1	1	15	0	0	0	0
Social Sciences, Other	173	30	119	0	9	12	92	1	0	2	3
<b>PSYCHOLOGY</b>	<b>3,433</b>	<b>152</b>	<b>3,013</b>	<b>17</b>	<b>114</b>	<b>174</b>	<b>2,438</b>	<b>45</b>	<b>56</b>	<b>73</b>	<b>96</b>
Clinical	1,256	23	1,121	5	48	61	911	22	18	29	27
Cognitive & Psycholinguistics	142	26	113	1	5	2	99	1	1	0	4
Comparative	5	0	5	0	1	0	4	0	0	0	0
Counseling	480	4	469	3	19	48	351	4	11	14	19
Developmental and Child	193	10	176	0	9	6	141	2	8	5	5
Human/Individual & Family	135	16	114	0	1	7	100	0	1	3	2
Experimental	134	5	128	0	3	2	114	0	0	1	8
Educational	47	3	43	1	0	0	39	0	0	1	2
Family & Marriage Counseling	45	4	40	0	0	2	36	1	0	0	1
Industrial & Organizational	172	13	146	3	4	8	122	2	2	3	2
Personality	11	1	10	0	0	0	10	0	0	0	0
Physiological/Psychobiology	93	8	82	0	0	2	74	0	3	1	2
Psychometrics	2	0	1	0	0	0	1	0	0	0	0
Quantitative	10	2	8	0	1	0	6	0	0	0	1
School	109	3	102	0	1	3	93	2	2	0	1
Social	198	14	180	1	6	11	146	5	4	4	3
Psychology, General	228	8	137	1	12	12	86	4	4	6	12
Psychology, Other	173	12	138	2	4	10	105	2	2	6	7
<b>HUMANITIES</b>	<b>5,589</b>	<b>671</b>	<b>4,665</b>	<b>23</b>	<b>197</b>	<b>189</b>	<b>3,847</b>	<b>43</b>	<b>72</b>	<b>123</b>	<b>171</b>
<b>GENERAL HUMANITIES</b>	<b>3,798</b>	<b>482</b>	<b>3,138</b>	<b>11</b>	<b>148</b>	<b>116</b>	<b>2,615</b>	<b>25</b>	<b>48</b>	<b>56</b>	<b>119</b>
History, American	423	14	404	1	3	19	339	4	16	3	19
History, Asian	51	14	37	0	11	0	23	0	0	0	3
History, European	245	18	226	0	1	1	207	0	1	2	14
History/Philosophy of Sci. & Tech.	40	1	39	0	3	1	31	1	1	0	2
History, General	75	4	51	0	1	3	40	1	1	1	4
History, Other	190	33	150	1	5	18	100	7	3	8	8
Classics	54	4	48	0	0	0	48	0	0	0	0
Comparative Literature	203	29	170	0	12	2	132	5	2	13	4
Linguistics	229	101	123	0	9	6	97	1	0	3	7
Speech & Rhetorical Studies	126	6	118	0	4	4	102	0	4	0	4
Letters, General	34	1	32	0	1	1	28	0	1	0	1
Letters, Other	94	6	82	1	0	3	71	1	1	1	4
American Studies	127	9	115	2	4	15	87	0	2	1	4
Archeology	40	7	27	0	0	0	25	0	0	0	2
Art History/Criticism/Conservation	223	18	199	0	8	7	170	0	3	5	6
Music	784	111	614	3	49	16	517	2	8	6	13
Philosophy	413	51	328	1	5	5	293	2	4	7	11
Religion	343	45	286	2	28	13	227	0	1	4	11
Drama/Theater Arts	104	10	89	0	4	2	78	1	0	2	2
<b>LANGUAGE &amp; LITERATURE</b>	<b>1,596</b>	<b>174</b>	<b>1,361</b>	<b>9</b>	<b>42</b>	<b>57</b>	<b>1,110</b>	<b>18</b>	<b>22</b>	<b>62</b>	<b>41</b>
American Literature	383	18	364	7	13	25	300	1	7	2	9
English Literature	469	36	430	2	16	15	383	3	2	0	9
English Language	125	13	83	0	2	6	65	2	1	3	4
French	141	21	116	0	2	7	100	0	1	3	3
German	84	9	70	0	0	0	68	0	0	0	2
Italian	16	4	12	0	0	0	10	0	0	0	2
Spanish	233	49	176	0	1	2	97	12	9	53	2
Russian	27	3	24	0	0	0	23	0	0	0	1
Slavic	12	0	10	0	1	0	7	0	0	0	2
Chinese	16	7	7	0	1	0	5	0	0	1	0

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			Total	American Indian <sup>c</sup>	Asian <sup>d</sup>	Black	White	Puerto Rican	Mexican American	Other Hispanic	Other/Unknown Race <sup>e</sup>
Japanese	17	3	14	0	3	0	9	0	0	0	2
Hebrew	6	0	6	0	0	0	6	0	0	0	0
Arabic	6	1	5	0	0	0	5	0	0	0	0
Other Language & Literature	61	10	44	0	3	2	32	0	2	0	5
<b>OTHER HUMANITIES</b>	<b>195</b>	<b>15</b>	<b>166</b>	<b>3</b>	<b>7</b>	<b>16</b>	<b>122</b>	<b>0</b>	<b>2</b>	<b>5</b>	<b>11</b>
Humanities, General	29	1	25	0	1	2	20	0	0	0	2
Humanities, Other	166	14	141	3	6	14	102	0	2	5	9
<b>EDUCATION</b>	<b>6,324</b>	<b>500</b>	<b>5,431</b>	<b>42</b>	<b>145</b>	<b>667</b>	<b>4,188</b>	<b>87</b>	<b>115</b>	<b>70</b>	<b>117</b>
<b>RESEARCH &amp; ADMINISTRATION</b>	<b>4,966</b>	<b>331</b>	<b>4,406</b>	<b>34</b>	<b>102</b>	<b>559</b>	<b>3,405</b>	<b>75</b>	<b>93</b>	<b>53</b>	<b>85</b>
Curriculum & Instruction	881	77	767	4	17	74	590	31	19	11	21
Educational Admin. & Supervision	835	44	763	8	17	109	575	17	19	6	12
Educational Leadership	1,213	34	1,105	14	12	172	843	5	30	11	18
Educ./Instruct. Media Design	140	15	125	1	3	12	105	0	1	1	2
Educ. Stat./Research Methods	65	7	58	0	2	3	51	0	0	1	1
Educ. Assess., Test., & Meas.	44	10	33	0	3	3	26	0	0	0	1
Educational Psychology	280	22	237	2	4	16	196	1	6	6	6
School Psychology	123	3	116	0	2	11	93	1	3	4	2
Social/Phil. Found. Of Educ.	141	12	129	0	6	20	90	4	3	2	4
Special Education	230	26	199	1	12	18	156	1	1	3	7
Counseling Educ./Couns. & Guidance	210	8	173	0	7	31	124	7	2	1	1
Higher Educ./Evaluation & Research	511	42	458	2	12	61	362	7	6	2	6
Pre-elementary/Early Childhood	47	10	37	0	3	5	26	0	2	1	0
Elementary Education	55	7	43	0	2	4	35	0	1	1	0
Secondary Education	22	1	21	1	0	3	16	0	0	0	1
Adult & Continuing Education	169	13	142	1	0	17	117	1	0	3	3
<b>TEACHING FIELDS</b>	<b>720</b>	<b>117</b>	<b>581</b>	<b>5</b>	<b>27</b>	<b>54</b>	<b>457</b>	<b>5</b>	<b>8</b>	<b>8</b>	<b>17</b>
Agricultural Education	22	2	19	1	1	7	10	0	0	0	0
Art Education	31	5	26	0	2	2	20	0	0	1	1
Business Education	19	3	15	0	1	1	13	0	0	0	0
English Education	56	18	37	0	2	0	32	0	1	1	1
Foreign Languages Education	47	17	29	0	6	1	17	1	1	2	1
Health Education	65	2	58	0	3	5	46	0	0	1	3
Home Economics Education	8	1	7	0	0	0	7	0	0	0	0
Technical/Industrial Arts Education	16	2	13	0	1	1	11	0	0	0	0
Mathematics Education	81	7	72	0	2	11	55	1	0	1	2
Music Education	62	12	46	1	1	4	36	1	0	0	3
Nursing Education	5	1	4	0	0	1	3	0	0	0	0
Physical Education and Coaching	80	13	65	0	1	4	55	0	2	0	3
Reading Education	72	10	61	0	3	6	48	0	2	1	1
Science Education	71	14	57	0	1	5	48	1	1	1	0
Social Science Education	12	4	8	0	2	0	6	0	0	0	0
Technical Education	10	2	8	0	0	0	8	0	0	0	0
Trade & Industrial Education	7	0	7	0	0	0	6	0	1	0	0
Teacher Ed./Spec. Acad. & Voc., Other	56	4	49	3	1	6	36	1	0	0	2
<b>OTHER EDUCATION</b>	<b>638</b>	<b>52</b>	<b>444</b>	<b>3</b>	<b>16</b>	<b>54</b>	<b>326</b>	<b>7</b>	<b>14</b>	<b>9</b>	<b>15</b>
Education, General	264	21	152	1	3	26	109	1	3	4	5
Education, Other	374	31	292	2	13	28	217	6	11	5	10
<b>PROFESSIONAL/OTHER FIELDS</b>	<b>2,238</b>	<b>496</b>	<b>1,609</b>	<b>9</b>	<b>125</b>	<b>141</b>	<b>1,223</b>	<b>16</b>	<b>24</b>	<b>26</b>	<b>45</b>
<b>BUSINESS AND MANAGEMENT</b>	<b>1,049</b>	<b>275</b>	<b>707</b>	<b>2</b>	<b>58</b>	<b>61</b>	<b>542</b>	<b>2</b>	<b>11</b>	<b>15</b>	<b>16</b>
Accounting	115	26	88	0	5	8	71	0	1	0	3
Banking/Financial Support Services	66	36	29	0	5	0	22	1	0	0	1
Business Admin. & Management	343	81	223	1	13	23	171	0	4	6	5
Business/Managerial Economics	50	13	36	0	9	3	23	0	0	0	1
International Business	29	12	16	0	1	1	12	0	1	0	1
Mgmt. Info. Sys./Bus. Data Proc.	98	26	67	0	11	6	48	0	0	0	2

**APPENDIX TABLE A-2. Number of doctorate recipients, by citizenship, race/ethnicity, and subfield, 2001, continued**

Subfield of doctorate	Total doctorate recipients <sup>b</sup>	Non-U.S. citizens temporary visas	U.S. citizens and non-U.S. with permanent visas <sup>a</sup>								
			Total	American Indian <sup>c</sup>	Asian <sup>d</sup>	Black	White	Puerto Rican	Mexican American	Other Hispanic	Other/Unknown Race <sup>e</sup>
Marketing Management & Research	113	34	77	1	6	8	58	1	2	1	0
Operations Research	39	14	21	0	2	0	18	0	0	1	0
Organizational Behavior	117	13	102	0	3	7	83	0	3	4	2
Bus. Mgmt./Admin. Serv., General	22	3	16	0	2	2	11	0	0	1	0
Bus. Mgmt./Admin. Serv., Other	57	17	32	0	1	3	25	0	0	2	1
COMMUNICATIONS	389	71	299	0	11	27	235	4	6	6	10
Communications Research	60	10	49	0	0	5	37	2	0	3	2
Mass Communications	153	38	114	0	5	13	91	0	2	0	3
Communications Theory	39	6	32	0	1	3	23	1	1	1	2
Communications, General	76	7	59	0	3	4	49	1	1	0	1
Communications, Other	61	10	45	0	2	2	35	0	2	2	2
OTHER PROFESSIONAL FIELDS	800	150	603	7	56	53	446	10	7	5	19
Architectural Environmental Design	67	30	32	1	4	1	25	0	0	0	1
Home Economics	20	10	9	0	1	0	8	0	0	0	0
Law	32	15	10	0	0	1	9	0	0	0	0
Library Science	40	9	29	1	3	1	22	0	1	1	0
Parks/Recreation/Leisure/Fitness	41	14	25	0	1	1	21	0	0	0	2
Public Administration	96	11	76	1	4	14	52	2	1	0	2
Social Work	259	18	228	2	12	22	170	5	2	3	12
Theology/Religious Education	195	34	157	1	27	8	113	3	3	1	1
Professional Fields, General	7	1	3	0	0	0	2	0	0	0	1
Professional Fields, Other	43	8	34	1	4	5	24	0	0	0	0
OTHER FIELDS	0	0	0	0	0	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.

<sup>a</sup> Persons reporting an Hispanic ethnicity, whether singly or in combination with another race/ethnicity, are included in the respondent-selected Hispanic ethnicity category.

<sup>b</sup> Includes 2,235 individuals who did not report their citizenship at time of doctorate. See Appendix C for discussion of item response rate issues.

<sup>c</sup> Includes Alaskan Natives.

<sup>d</sup> Does not include Native Hawaiians and other Pacific Islanders.

<sup>e</sup> Includes Native Hawaiians and other Pacific Islanders, respondents choosing multiple races (excluding those selecting an Hispanic ethnicity), and respondents with unknown race/ethnicity.

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

**APPENDIX TABLE A-3a. Statistical profile of doctorate recipients, by major field, 2001**  
**Total all doctorates**

Characteristics	2001 Total	Physics & Astronomy	Chemistry	Earth, Atmos., & Marine Sci.	Mathematics	Computer Sciences	PHYSICAL SC ENCES <sup>a</sup>	ENGINEER NG	Biochemistry	Other Biosciences	Health Sciences	Agricultural Sciences	LIFE SC ENCES	Psychology	Economics
Number in field	40,744	1,379	1,979	780	1,006	826	5,970	5,502	726	4,952	1,613	1,005	8,296	3,433	930
Men	% 55.9	85.6	68.1	68.3	72.6	80.9	74.7	83.0	57.0	54.7	35.6	66.1	52.6	33.0	71.8
Women	43.9	14.2	31.7	31.5	27.4	18.8	25.1	16.8	42.6	45.2	63.7	33.4	47.1	66.9	28.0
Unknown <sup>b</sup>	0.2	0.1	0.2	0.1	0.0	0.4	0.2	0.2	0.4	0.1	0.7	0.5	0.3	0.1	0.2
U.S. Citizenship	% 66.0	52.3	56.9	56.5	46.5	44.2	52.3	38.9	66.7	68.5	66.3	44.7	65.0	85.6	38.0
Non-U.S., Permanent visa	4.5	5.7	5.2	4.9	5.4	6.7	5.5	5.4	5.4	6.1	4.3	4.0	5.4	2.2	5.3
Non-U.S., Temporary visa	24.0	38.7	33.9	33.5	43.2	43.1	37.8	50.4	24.5	21.4	19.7	44.6	24.2	4.4	52.5
Unknown	5.5	3.4	4.0	5.1	4.9	6.1	4.4	5.4	3.4	4.0	9.7	6.8	5.4	7.8	4.3
Never married	% 26.4	40.0	35.0	27.4	39.7	29.4	35.2	32.0	33.6	31.5	21.3	22.7	28.7	26.7	33.1
Married	52.8	45.3	48.7	53.5	45.0	51.7	48.3	53.5	48.1	50.8	52.4	59.9	52.0	47.1	51.2
Separated, Divorced	5.7	2.2	3.1	4.6	2.5	2.8	2.9	2.1	4.0	3.9	6.7	3.7	4.4	6.6	3.0
Marriage-like relationship	5.5	4.9	5.3	6.7	5.2	4.0	5.2	3.0	8.1	6.4	5.3	3.9	6.0	7.7	4.6
Widowed	0.2	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.1	0.6	0.0	0.2	0.3	0.0
Unknown	9.4	7.3	7.9	7.7	7.7	12.1	8.3	9.4	6.2	7.2	13.6	9.9	8.7	11.6	8.1
Median age at doctorate	Yrs 33.3	30.2	29.7	33.2	30.5	32.0	30.6	31.2	30.2	31.2	37.2	34.0	31.8	32.1	31.7
Percent with baccalaureate in same field as doctorate	% 53.3	73.4	74.1	44.0	69.2	38.0	64.2	74.6	28.9	51.7	40.9	49.5	47.3	62.7	56.6
Percent with Masters	% 73.1	62.9	39.5	71.7	72.1	80.4	60.3	81.1	29.6	39.1	76.5	82.4	50.8	77.0	73.8
Median time lapse from bacc. to doct.															
Total time	Yrs 10.0	7.5	6.8	10.0	8.0	9.5	7.8	8.4	7.4	8.3	13.4	10.7	9.0	9.0	8.8
Registered time	7.5	6.8	6.0	7.5	6.7	7.4	6.7	6.7	6.5	7.0	7.7	7.3	7.0	7.3	7.0
Postdoctoral Study Plans	% 25.4	46.5	46.4	43.2	33.7	11.4	39.0	18.5	68.7	65.2	20.5	31.4	52.7	32.6	8.4
Fellowship	13.5	18.4	23.0	16.2	17.7	4.0	17.5	6.2	41.5	39.3	12.0	10.7	30.7	23.6	4.1
Research assoc.	8.9	25.8	21.2	26.0	13.3	6.7	19.5	10.2	19.3	17.4	5.9	18.9	15.5	5.5	3.0
Traineeship	1.0	1.3	0.6	0.4	1.6	0.2	0.8	1.4	0.7	1.8	1.1	1.2	1.5	2.0	0.5
Other Study	2.0	0.9	1.7	0.6	1.1	0.5	1.1	0.8	7.3	6.6	1.5	0.6	5.0	1.5	0.8
Planned Employment															
After Doctorate	% 64.3	45.5	45.2	48.8	58.2	77.1	52.3	71.5	24.5	27.0	65.2	57.4	37.9	55.5	82.9
Educ. institution <sup>c</sup>	34.8	8.4	7.2	17.1	29.8	27.2	15.3	12.3	5.8	9.3	37.3	25.3	16.4	22.6	40.6
Industry/Business	18.8	31.0	34.3	18.2	19.9	43.8	30.3	51.0	15.0	11.0	12.9	17.2	12.5	14.4	21.5
Government	4.3	2.9	1.9	7.9	2.8	2.4	3.1	5.3	1.0	3.2	6.6	10.5	4.5	6.3	14.6
Nonprofit	3.4	1.0	0.6	2.1	1.5	1.6	1.2	1.2	0.3	1.3	5.8	2.0	2.2	8.2	3.4
Other & Unknown	3.2	2.1	1.3	3.6	4.2	2.1	2.4	1.8	2.5	2.3	2.6	2.4	2.4	4.0	2.7
Postdoctoral plans unknown	% 10.3	8.0	8.3	7.9	8.2	11.5	8.6	10.0	6.7	7.8	14.3	11.1	9.4	12.0	8.7
Definite postdoctoral study	% 19.1	36.9	37.8	33.1	26.7	8.2	31.0	12.5	55.9	50.6	15.1	21.8	40.7	25.6	6.3
Seeking postdoctoral study	6.3	9.6	8.6	10.1	7.0	3.1	8.0	6.0	12.8	14.6	5.5	9.7	12.1	7.0	2.0
Definite employment	46.6	33.3	34.2	34.5	42.0	57.9	38.6	52.9	16.1	16.5	48.4	42.3	25.8	38.7	68.7
Seeking employment	17.8	12.2	11.1	14.4	16.1	19.2	13.7	18.6	8.4	10.5	16.7	15.1	12.1	16.7	14.2
Employment commitments after doctorate <sup>d</sup>	18,973	459	676	269	423	478	2,305	2,913	117	819	781	425	2,142	1,329	639
Primary activity															
R & D	% 33.4	65.6	72.2	44.5	39.7	67.7	60.8	72.0	51.7	45.2	32.6	53.2	42.5	21.4	55.7
Teaching	37.2	14.2	14.0	25.6	47.6	20.3	22.8	10.7	25.9	27.6	40.1	24.0	31.4	18.8	24.6
Administration	12.2	2.0	2.4	7.5	0.7	3.6	2.8	1.9	1.7	5.3	8.2	4.0	5.9	5.8	3.4
Prof. services	13.3	13.3	8.9	16.5	5.5	5.5	9.3	11.3	12.9	16.8	16.3	14.6	16.0	50.2	13.2
Other	0.4	0.7	0.2	0.0	0.5	0.0	0.3	0.7	0.9	0.6	0.0	0.2	0.3	0.3	1.0
Secondary activity															
R & D	% 31.6	21.0	15.4	35.4	44.6	22.4	25.7	16.2	22.8	26.9	35.0	28.8	30.1	26.9	32.5
Teaching	19.1	8.9	7.7	12.2	13.4	24.9	13.1	14.1	7.9	16.8	20.4	25.0	19.3	20.9	28.6
Administration	14.1	14.6	26.6	9.5	7.9	11.4	15.6	17.8	15.8	17.9	16.8	12.7	16.3	18.8	10.6
Prof. services	11.6	14.8	10.6	10.3	10.1	10.1	11.2	14.6	9.6	10.3	12.7	13.5	11.8	12.4	9.6
Other	0.3	0.5	0.5	0.4	0.5	0.4	0.4	0.4	0.9	0.3	0.1	0.5	0.3	0.4	0.5
No secondary activity	19.0	34.2	36.2	24.0	16.5	27.5	28.9	32.5	35.1	22.1	11.5	15.1	17.5	16.8	15.5
Activity(ies) unknown	% 3.4	4.2	2.4	5.7	6.0	2.9	3.9	3.4	6.9	4.3	2.8	3.8	3.8	3.5	2.0
Region of employment after doctorate															
New England	% 6.6	12.2	8.6	6.3	7.1	8.6	8.8	7.2	12.0	7.8	5.9	3.1	6.4	5.9	7.7
Middle Atlantic	14.7	18.7	21.6	12.3	16.5	18.4	18.4	15.5	18.8	14.3	11.8	4.5	11.7	15.7	13.2
East north central	13.2	7.2	15.2	8.6	13.9	6.3	10.8	11.7	10.3	10.7	12.5	9.9	11.2	14.7	9.1
West north central	6.5	1.7	6.5	3.7	5.9	2.7	4.3	3.8	1.7	6.1	6.4	9.9	6.7	7.5	3.9
South Atlantic	16.0	12.0	11.7	16.0	17.5	12.8	13.5	10.7	7.7	16.6	18.7	12.7	16.1	17.2	21.8
East south central	3.9	1.7	2.4	3.0	2.6	2.1	2.3	2.0	3.4	4.0	4.2	3.3	3.9	3.9	2.0
West south central	8.4	5.2	4.3	11.5	7.3	6.3	6.3	7.9	7.7	6.6	11.4	8.2	8.7	8.1	2.8
Mountain	5.2	6.3	3.8	9.7	4.3	2.5	4.8	5.5	4.3	3.4	5.4	7.5	5.0	5.7	2.4
Pacific & Insular	16.2	27.9	20.3	16.0	16.5	33.5	23.3	24.9	26.5	19.2	11.5	8.7	14.7	18.6	10.7
Foreign	9.0	6.8	4.6	12.6	7.6	6.9	7.0	10.4	7.7	10.7	11.7	32.0	15.1	2.4	26.2
Region unknown	0.3	0.2	1.0	0.4	0.7	0.0	0.5	0.3	0.0	0.5	0.5	0.2	0.4	0.2	0.3

NOTE: Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates.

<sup>a</sup> Physical Sciences includes mathematics and computer sciences.

<sup>b</sup> Includes 74 respondents not reporting gender.



**APPENDIX TABLE A-3a. Statistical profile of doctorate recipients, by major field, 2001, continued**  
**Total all doctorates**

Characteristics	Anthropology & Sociology	Political Sci./Internat'l Rel.	Other Social Sciences	SOCIAL SCI. NCL. PSYCH.	TOTAL SC ENCES & ENGINEERING	History	American Literature	English Lang. & Lit.	Foreign Lang. & Lit.	Other Humanities	HUMANITIES	EDUCATION	Business & Management	Other Professional Fields	PROFESSIONAL/ OTHER FIELDS	TOTAL NONSC ENCES
Number in field	973	748	741	6,825	26,593	1,024	383	594	619	2,969	5,589	6,324	1,049	1,189	2,238	14,151
Men	41.2	67.4	54.3	45.6	62.0	59.7	38.1	40.4	35.1	52.0	49.4	35.3	65.9	49.5	57.2	44.3
Women	58.8	32.6	45.2	54.3	37.8	40.3	61.9	59.4	64.8	47.8	50.5	64.6	33.9	50.1	42.5	55.5
Unknown <sup>b</sup>	0.0	0.0	0.5	0.1	0.2	0.0	0.0	0.2	0.2	0.2	0.1	0.1	0.2	0.3	0.3	0.1
U.S. Citizenship	77.6	72.3	63.6	74.1	59.1	85.7	93.2	82.5	65.8	75.7	78.4	84.0	62.5	70.9	67.0	79.1
Non-U.S., Permanent visa	4.3	4.5	5.1	3.5	4.9	2.8	1.8	3.9	12.4	5.0	5.1	1.8	4.9	5.0	4.9	3.6
Non-U.S., Temporary visa	14.5	17.9	22.4	15.8	30.5	8.2	4.7	8.2	17.3	13.9	12.0	7.9	26.2	18.6	22.2	11.8
Unknown	3.6	5.2	8.9	6.6	5.5	3.2	0.3	5.4	4.5	5.4	4.5	6.2	6.4	5.6	5.9	5.5
Never married	25.3	21.9	21.9	26.3	30.2	23.0	27.4	22.2	22.5	26.1	24.8	13.9	19.4	19.8	19.6	19.1
Married	50.4	56.0	52.9	49.7	50.9	54.9	52.7	50.3	52.3	50.2	51.5	60.3	56.1	57.4	56.8	56.3
Separated, Divorced	9.9	5.7	7.2	6.5	4.2	6.3	9.4	6.4	8.1	6.5	6.8	10.2	8.4	7.3	7.8	8.5
Marriage-like relationship	8.3	7.6	4.9	7.1	5.5	8.8	8.4	9.9	9.0	7.6	8.3	3.8	3.5	4.8	4.2	5.6
Widowed	0.1	0.1	0.5	0.2	0.1	0.2	0.5	0.2	0.3	0.3	0.3	0.6	0.5	0.3	0.4	0.4
Unknown	6.1	8.6	12.7	10.1	9.1	6.8	1.6	10.9	7.8	9.4	8.4	11.1	12.1	10.3	11.2	10.0
Median age at doctorate	Yrs 34.7	33.6	35.8	32.9	31.7	34.7	33.8	34.3	34.8	35.4	35.0	43.8	36.7	39.1	37.8	38.6
Percent with baccalaureate in same field as doctorate	% 76.9	51.5	21.6	58.2	59.5	57.2	59.0	68.0	52.5	51.7	55.1	33.2	34.1	28.6	31.2	41.5
Percent with Masters	% 84.4	78.3	83.4	78.5	66.3	85.2	91.4	79.3	87.2	83.1	84.1	87.7	79.1	89.8	84.8	85.8
Median time lapse from bacc. To doct. Total Time	Yrs 11.2	10.5	12.2	9.7	8.8	11.5	11.0	11.2	10.8	12.0	11.5	19.0	13.0	14.9	14.0	14.3
Registered Time	8.9	8.5	8.2	7.6	7.0	9.3	8.7	8.7	8.7	9.2	9.0	8.3	7.8	8.9	8.2	8.6
Postdoctoral study plans	% 18.5	13.4	12.0	22.9	34.9	13.3	8.6	7.4	7.6	8.6	9.2	6.6	4.6	7.9	6.3	7.6
Fellowship	11.4	9.2	5.8	15.7	18.8	8.5	6.8	4.4	3.9	5.4	5.8	2.2	1.2	3.4	2.4	3.6
Research assoc.	5.3	2.3	5.1	4.7	12.6	2.1	0.8	1.0	2.3	1.4	1.5	2.1	2.1	2.8	2.5	1.9
Traineeship	0.6	0.0	0.5	1.2	1.3	0.6	0.0	0.3	0.3	0.6	0.5	0.6	0.4	0.8	0.6	0.6
Other Study	1.1	1.9	0.5	1.3	2.3	2.1	1.0	1.7	1.1	1.2	1.4	1.7	0.9	1.0	0.9	1.5
Planned Employment After Doctorate	% 73.7	76.7	74.8	66.2	55.4	77.1	89.6	80.0	83.7	80.0	80.5	81.5	82.8	80.6	81.6	81.1
Educ. institution <sup>c</sup>	50.2	50.5	45.7	34.6	20.0	58.1	75.7	67.7	71.6	58.6	62.1	65.2	61.5	51.7	56.3	62.6
Industry/Business	6.8	10.3	12.6	13.6	24.7	6.3	6.5	4.4	5.0	8.6	7.2	5.9	16.1	10.2	13.0	7.5
Government	3.3	6.4	6.9	7.1	5.0	3.6	0.3	1.0	0.8	1.2	1.5	3.7	2.4	5.1	3.8	2.9
Nonprofit	6.7	5.1	6.2	6.8	2.9	3.5	1.8	2.5	1.3	6.2	4.5	3.4	1.0	10.3	5.9	4.2
Other & Unknown	6.8	4.4	3.4	4.2	2.7	5.6	5.2	4.4	5.0	5.4	5.3	3.3	1.8	3.3	2.6	4.0
Postdoctoral plans unknown	% 7.8	9.9	13.2	10.8	9.7	9.7	1.8	12.6	8.7	11.4	10.3	11.9	12.6	11.5	12.0	11.3
Definite Postdoctoral study	% 12.7	8.8	7.3	17.3	26.7	8.6	5.7	4.7	5.2	5.7	6.0	3.9	3.0	5.8	4.5	4.8
Seeking Postdoctoral study	5.8	4.5	4.7	5.6	8.3	4.7	2.9	2.7	2.4	2.9	3.1	2.7	1.6	2.1	1.9	2.8
Definite employment	51.7	54.1	54.3	48.0	40.0	51.6	58.7	54.2	56.7	52.3	53.3	61.7	70.4	60.1	64.9	58.9
Seeking employment	22.0	22.6	20.5	18.2	15.4	25.5	30.8	25.8	27.0	27.8	27.2	19.8	12.5	20.4	16.7	22.2
Employment commitments after doctorate <sup>d</sup>	503	405	402	3,278	10,638	528	225	322	351	1,552	2,978	3,904	738	715	1,453	8,335
Primary activity	% 32.9	25.2	35.5	32.0	51.3	11.4	4.1	6.9	7.5	9.0	8.7	6.6	35.8	14.4	25.3	10.6
R & D	48.4	56.8	41.4	31.9	24.0	73.8	83.0	75.9	84.1	75.2	76.7	39.0	46.1	52.1	49.0	54.0
Teaching	7.7	5.7	10.0	6.1	4.2	3.7	5.0	5.3	3.2	5.5	4.9	39.9	6.5	14.0	10.2	22.4
Administration	5.9	8.0	9.7	26.1	16.3	5.9	4.1	6.6	2.6	6.9	5.9	11.0	8.7	16.3	12.4	9.5
Prof. services	0.6	0.0	0.3	0.4	0.4	0.8	0.0	0.3	0.0	0.4	0.4	0.2	0.1	0.1	0.1	0.3
Other	45.1	48.5	42.2	35.3	27.0	55.8	53.7	48.1	63.7	47.2	51.4	25.7	42.5	41.7	42.1	37.6
R & D	23.3	18.5	25.0	23.0	17.7	13.2	6.4	10.6	9.5	14.3	12.5	24.1	34.7	22.2	28.6	20.8
Teaching	9.1	11.0	10.6	13.7	15.8	9.3	16.1	12.3	10.4	13.0	12.2	12.5	7.4	11.9	9.6	11.9
Administration	7.4	5.0	6.8	9.5	11.7	4.5	6.9	7.1	3.2	9.2	7.2	15.7	5.5	11.1	8.2	11.4
Prof. services	0.2	0.5	0.0	0.3	0.4	0.0	0.5	0.6	0.3	0.5	0.4	0.2	0.0	0.3	0.1	0.3
Other	9.5	10.0	11.1	13.9	22.9	11.8	11.0	16.1	10.1	11.2	11.7	18.0	6.7	9.2	7.9	14.0
No secondary activity	% 4.4	4.3	3.0	3.4	3.6	4.2	3.6	5.0	2.6	2.9	3.4	3.3	2.7	3.0	2.8	3.3
Activity(ies) unknown	8.7	8.6	8.0	7.3	7.4	7.0	6.7	6.2	6.8	7.6	7.2	3.9	7.5	5.3	6.4	5.5
Region of Employment After Doctorate	11.1	11.6	11.4	13.5	14.7	15.9	16.0	19.6	17.4	13.8	15.4	13.9	13.4	16.5	14.9	14.6
New England	15.3	11.1	12.4	13.0	11.8	14.2	12.9	20.2	19.1	14.9	15.7	14.9	14.9	13.4	14.2	15.1
Middle Atlantic	7.6	6.4	6.5	6.6	5.3	6.8	6.2	5.9	8.0	8.6	7.8	8.7	6.0	6.4	6.2	7.9
East north central	18.5	21.0	20.4	19.1	15.0	16.5	16.9	14.0	14.5	14.2	14.8	18.7	17.3	18.9	18.1	17.2
West north central	2.6	3.5	2.5	3.1	2.8	5.3	8.0	3.1	4.0	4.4	4.6	5.9	5.4	5.0	5.2	5.3
South Atlantic	4.2	9.6	6.0	6.4	7.3	8.3	10.7	7.5	6.3	8.6	8.3	11.2	9.1	8.8	8.9	9.8
East south central	5.8	5.4	4.0	4.8	5.0	5.1	7.1	5.9	3.4	4.5	4.8	5.9	5.0	5.3	5.2	5.4
West south central	18.3	10.9	13.9	15.5	19.6	12.7	11.6	11.2	12.5	14.5	13.4	11.1	11.5	10.1	10.8	11.9
Mountain	7.8	11.4	14.9	10.5	10.7	7.8	4.0	6.5	7.7	8.5	7.7	5.3	9.9	10.1	10.0	7.0
Pacific & Insular	0.2	0.5	0.0	0.2	0.4	0.4	0.0	0.0	0.3	0.3	0.2	0.4	0.0	0.1	0.1	0.3
Foreign	0.2	0.5	0.0	0.2	0.4	0.4	0.0	0.0	0.3	0.3	0.2	0.4	0.0	0.1	0.1	0.3
Region unknown																

<sup>c</sup> Includes 2-year, 4-year, and foreign colleges and universities, medical schools, and elementary/secondary schools.

<sup>d</sup> Includes only recipients with definite employment plans.

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

**APPENDIX TABLE A-3b. Statistical profile of doctorate recipients, by major field, 2001**  
**Total all men**

Characteristics	2001 Total	Physics & Astronomy	Chemistry	Earth, Atmos. & Marine Sci.	Mathematics	Computer Sciences	PHYSICAL SCIENCES <sup>a</sup>	ENGINEERING	Biochemistry	Other Biosciences	Health Sciences	Agricultural Sciences	LIFE SCIENCES	Psychology	Economics	
Total men	22,769	1,181	1,348	533	730	668	4,460	4,564	414	2,711	574	664	4,363	1,134	668	
Men as a percent of total doctorates	%	55.9	85.6	68.1	68.3	72.6	80.9	74.7	83.0	57.0	54.7	35.6	66.1	52.6	33.0	71.8
U.S. Citizenship	%	59.7	52.6	56.5	54.6	45.5	42.1	51.3	37.9	65.9	67.5	53.3	42.0	61.6	84.2	36.7
Non-U.S., Permanent visa		4.4	5.3	4.5	4.3	5.1	6.1	5.0	5.1	5.1	5.0	4.9	3.2	4.7	2.0	3.9
Non-U.S., Temporary visa		30.7	39.0	35.2	37.1	44.5	46.3	39.6	51.8	25.1	23.5	29.3	48.3	28.2	6.0	54.9
Unknown		5.3	3.1	3.9	3.9	4.9	5.5	4.1	5.2	3.9	4.1	12.5	6.5	5.5	7.8	4.5
Never Married	%	27.5	41.4	34.9	25.9	43.0	30.4	36.2	32.0	31.2	31.7	20.6	20.6	28.5	24.1	31.9
Married		55.0	44.5	50.1	58.7	42.6	51.5	48.6	54.1	50.5	52.0	52.4	64.9	53.9	51.0	53.4
Separated, Divorced		3.5	2.0	2.7	2.8	1.8	2.1	2.3	1.9	4.3	3.2	4.4	2.7	3.4	4.6	2.7
Marriage-like relationship		4.8	4.8	4.7	5.4	4.8	4.2	4.8	2.7	7.5	5.7	5.2	2.9	5.4	9.1	3.4
Widowed		0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0
Unknown		9.1	7.1	7.6	7.1	7.8	11.8	8.1	9.2	6.5	7.4	17.2	8.9	8.8	11.1	8.5
Median age at doctorate	Yrs	32.8	30.2	29.8	33.5	30.5	31.8	30.7	31.3	30.3	31.4	34.8	34.2	31.8	32.3	32.0
Percent with bacc. in same field as doctorate	%	55.4	73.0	74.6	45.6	69.7	38.2	64.5	75.7	28.3	48.9	28.0	53.8	44.9	60.5	56.0
Percent with masters	%	72.0	62.1	40.3	74.7	71.5	80.2	61.3	81.5	30.2	39.7	67.9	83.7	49.2	76.5	73.1
Median time lapse from bacc. to doct.																
Total time registered time	Yrs	9.6	7.6	6.8	10.0	7.9	9.3	7.8	8.5	7.6	8.4	11.0	10.7	8.8	8.9	8.8
		7.3	6.8	6.0	7.6	6.5	7.3	6.7	6.6	6.7	7.0	7.3	7.0	7.3	7.0	7.0
Postdoctoral study plans	%	26.6	46.4	48.7	44.7	34.7	11.5	39.7	18.1	70.3	66.8	20.7	32.8	55.9	28.9	7.9
Fellowship		13.2	18.2	23.5	16.9	19.3	4.5	17.8	5.8	38.4	38.7	11.5	12.5	31.1	19.9	4.0
Research assoc.		10.1	26.1	22.6	26.8	12.9	6.3	20.0	10.1	22.2	17.4	6.4	18.2	16.6	6.2	2.5
Traineeship		1.1	1.3	0.7	0.4	1.9	0.1	0.9	1.3	1.0	2.3	1.0	1.5	1.9	1.8	0.6
Other study		2.1	0.8	1.9	0.6	0.5	0.6	1.1	0.8	8.7	8.3	1.7	0.6	6.3	1.1	0.7
Planned employment after doctorate	%	63.7	45.6	43.5	48.0	56.8	77.1	51.8	72.1	22.9	25.3	61.7	57.1	34.7	59.5	82.6
Educ. institution <sup>b</sup>		30.2	7.4	5.6	16.1	27.9	25.6	14.0	11.7	5.1	8.3	31.2	26.2	13.7	24.0	41.6
Industry/Business		23.5	32.4	34.3	19.9	21.4	45.4	31.6	52.5	15.5	10.5	17.6	16.7	12.8	17.6	19.9
Government		4.8	3.0	2.0	7.5	2.6	2.7	3.1	5.2	1.0	3.6	7.7	11.1	5.0	7.2	15.9
Non pro fit		2.8	0.8	0.6	1.1	1.2	1.6	1.0	1.2	0.2	1.1	3.3	1.4	1.4	8.2	3.3
Other & Unknown		2.3	1.9	1.0	3.4	3.7	1.8	2.1	1.6	1.2	1.8	1.9	1.7	1.7	2.5	1.9
Postdoctoral plans unknown	%	9.7	8.0	7.9	7.3	8.5	11.4	8.5	9.8	6.8	8.0	17.6	10.1	9.4	11.6	9.4
Definite postdoctoral study	%	20.1	37.2	40.5	34.5	27.7	8.8	32.1	12.2	57.7	52.7	14.3	22.3	43.5	22.5	6.1
Seeking postdoctoral study		6.4	9.2	8.2	10.1	7.0	2.7	7.7	5.8	12.6	14.1	6.4	10.5	12.4	6.4	1.8
Definite employment		47.0	33.4	34.1	34.0	41.2	59.3	38.8	53.5	15.7	16.8	45.6	44.0	24.6	44.4	68.7
Seeking employment		16.7	12.2	9.3	14.1	15.6	17.8	13.0	18.6	7.2	8.4	16.0	13.1	10.0	15.1	13.9
Employment commitments after doctorate <sup>c</sup>		10,699	394	460	181	301	396	1,732	2,442	65	456	262	292	1,075	504	459
Primary activity	%															
R & D		41.9	67.6	76.2	47.1	40.2	70.2	63.6	72.8	58.5	50.9	41.6	57.3	50.8	24.5	57.2
Teaching		31.9	11.8	10.0	22.4	45.6	18.1	19.8	9.9	23.1	22.9	31.9	21.9	24.9	20.6	23.8
Administration		10.0	2.4	2.4	7.6	1.0	3.6	3.0	2.0	0.0	5.0	8.2	3.2	5.0	5.1	4.0
Prof. services		11.9	12.9	8.2	17.1	6.8	5.6	9.3	11.3	12.3	15.6	14.4	13.3	14.5	44.7	11.8
Other		0.4	0.8	0.0	0.0	0.7	0.0	0.3	0.6	0.0	0.7	0.0	0.4	0.4	0.8	1.1
Secondary activity	%															
R & D		29.2	20.2	13.2	31.8	43.6	21.0	23.9	15.7	23.4	25.5	35.4	26.8	28.2	28.9	30.2
Teaching		19.2	9.3	7.6	12.3	12.5	24.7	13.3	13.9	4.7	18.7	21.2	26.5	20.6	22.1	30.4
Administration		15.0	15.9	27.1	11.7	8.4	10.9	16.0	18.7	17.2	19.8	13.8	12.2	16.1	18.7	12.0
Prof. services		11.7	15.4	11.7	12.8	11.1	10.6	12.3	15.2	14.1	9.1	11.9	15.0	11.7	12.2	10.0
Other		0.3	0.3	0.2	0.6	0.7	0.5	0.4	0.3	0.0	0.0	0.4	0.7	0.3	0.2	0.2
No secondary activity		19.9	32.4	36.1	22.3	17.2	29.4	28.9	31.8	34.4	20.3	12.7	15.0	17.8	13.1	14.6
Activity(ies) unknown	%	3.8	4.4	3.1	5.7	5.7	2.5	4.0	3.3	6.2	4.7	3.8	3.8	4.3	4.2	2.0
Region of employment after doctorate	%															
New England		7.0	11.9	10.0	4.4	8.0	9.8	9.5	7.3	18.5	8.3	3.8	3.4	6.5	4.2	8.1
Middle Atlantic		14.3	18.3	22.0	12.2	17.3	15.9	17.9	14.9	12.3	13.8	10.7	4.8	10.5	14.1	13.5
East north central		12.2	6.6	13.5	8.3	14.0	6.3	9.8	12.0	10.8	10.7	11.1	9.2	10.4	14.3	7.9
West north central		5.8	1.5	6.5	3.3	5.6	2.8	4.0	3.8	3.1	7.0	6.1	9.2	7.2	8.5	3.1
South Atlantic		14.9	12.2	11.5	14.4	16.3	11.9	12.9	11.1	9.2	15.6	17.2	13.0	14.9	15.7	20.5
East south central		3.6	1.0	2.6	3.3	1.7	2.0	2.0	2.0	1.5	3.9	5.3	2.4	3.7	5.4	2.0
West south central		8.0	6.1	4.1	12.2	7.3	6.1	6.4	7.9	7.7	5.0	10.7	8.9	7.6	8.5	3.5
Mountain		5.3	6.1	4.1	11.0	3.7	2.5	4.8	5.6	3.1	3.7	7.6	5.5	5.1	6.2	1.7
Pacific & Insular		17.5	29.7	20.7	16.0	17.6	35.1	25.0	24.3	26.2	19.3	11.1	9.2	15.0	19.2	9.2
Foreign		11.0	6.3	4.1	14.4	8.0	7.6	7.2	10.8	7.7	12.1	15.3	33.9	18.5	3.8	30.1
Region unknown		0.3	0.3	0.9	0.6	0.7	0.0	0.5	0.3	0.0	0.4	1.1	0.3	0.6	0.2	0.4

NOTE: Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates.

<sup>a</sup> Physical Sciences includes mathematics and computer sciences.

<sup>b</sup> Includes 2-year, 4-year, and foreign colleges and universities, medical schools, and elementary/secondary schools.

**APPENDIX TABLE A-3b. Statistical profile of doctorate recipients, by major field, 2001, continued**  
**Total all men**

Characteristics	Anthropology & Sociology	Political Sci./Internat'l Rel.	Other Social Sciences	SOCIAL SCI. NCL. PSYCH.	TOTAL SC ENCES & ENGINEERING	History	American Literature	English Lang. & Lit.	Foreign Lang. & Lit.	Other Humanities	HUMANITIES	EDUCATION	Business & Management	Other Professional Fields	PROFESSIONAL/ OTHER FIELDS	TOTAL NONSC ENCES	
Total men	401	504	402	3,109	16,496	611	146	240	217	1,545	2,759	2,234	691	589	1,280	6,273	
Men as a percent of total doctorates	%	41.2	67.4	54.3	45.6	62.0	59.7	38.1	40.4	35.1	52.0	49.4	35.3	65.9	49.5	57.2	44.3
U.S. Citizenship	%	73.3	70.0	61.7	67.4	53.3	85.1	91.8	81.7	61.3	76.8	78.7	82.1	58.2	66.2	61.9	76.4
Non-U.S., Permanent visa		4.7	3.2	3.7	3.2	4.6	2.9	1.4	3.3	11.5	3.7	4.0	2.4	5.6	5.8	5.7	3.8
Non-U.S., Temporary visa		18.5	20.2	25.1	22.9	36.8	8.7	6.8	9.2	21.2	13.9	12.5	9.5	31.4	22.9	27.5	14.5
Unknown		3.5	6.5	9.5	6.5	5.2	3.3	0.0	5.8	6.0	5.6	4.8	6.0	4.8	5.1	4.9	5.3
Never married	%	24.2	21.8	18.4	24.7	30.8	21.4	29.5	17.5	19.4	26.0	23.9	12.6	19.4	16.3	18.0	18.7
Married		57.4	56.5	59.0	54.3	52.6	59.6	58.2	52.9	56.2	52.4	54.7	68.3	61.6	65.9	63.6	61.3
Separated, Divorced		7.5	5.4	5.2	4.8	2.9	5.4	6.2	7.1	6.9	4.3	5.1	5.2	4.9	5.1	5.0	5.1
Marriage-like relationship		5.5	6.3	4.0	6.3	4.6	7.2	4.8	10.0	8.8	7.8	7.8	3.4	3.0	3.1	3.0	5.2
Widowed		0.0	0.0	0.5	0.1	0.1	0.0	0.7	0.0	0.5	0.2	0.2	0.1	0.6	0.0	0.3	0.2
Unknown		5.5	9.9	12.9	9.9	8.9	6.4	0.7	12.5	8.3	9.3	8.4	10.4	10.4	9.7	10.1	9.5
Median age at doct.	Yrs	35.1	34.0	35.7	33.3	31.7	34.7	33.6	34.2	35.0	35.6	35.0	43.0	35.9	38.7	37.2	37.7
Percent with bacc. in same field as doctorate	%	79.8	52.8	22.6	55.9	60.8	60.4	59.6	65.8	51.2	54.4	56.8	28.6	31.4	28.4	30.0	41.3
Percent with masters	%	83.8	77.6	83.8	77.8	66.8	86.1	90.4	77.1	85.7	81.9	83.1	88.8	80.5	90.7	85.2	85.6
Median time lapse from bacc. to doct.																	
Total time	Yrs	11.3	10.8	12.2	9.9	8.6	11.4	10.4	11.0	10.5	12.0	11.5	18.0	12.9	14.6	13.4	13.6
Registered time		9.0	8.6	8.3	7.7	7.0	9.0	8.5	8.3	8.6	9.0	9.0	8.3	7.8	8.8	8.2	8.6
Postdoctoral study plans	%	17.7	13.1	7.5	17.6	33.8	12.9	6.8	5.8	6.9	7.8	8.6	6.7	4.6	8.1	6.3	7.4
Fellowship		10.5	8.7	4.5	11.5	16.8	8.0	5.5	4.6	4.1	5.0	5.6	2.6	1.3	3.4	2.3	3.8
Research assoc.		5.0	2.6	2.2	4.1	13.4	2.3	0.0	0.4	2.3	1.1	1.3	1.8	1.9	2.5	2.2	1.7
Traineeship		0.5	0.0	0.5	0.9	1.3	1.0	0.0	0.0	0.0	0.6	0.7	0.6	1.2	0.9	0.7	0.7
Other study		1.7	1.8	0.2	1.1	2.4	1.6	1.4	0.8	0.5	1.0	1.1	1.5	0.9	1.0	0.9	1.2
Planned employment after doctorate	%	74.8	76.0	79.1	71.7	56.6	78.4	91.1	79.6	85.3	81.8	81.6	82.6	84.5	81.0	82.9	82.2
Educ. institution <sup>b</sup>		54.9	49.6	49.0	39.1	18.0	58.6	80.8	67.9	72.8	60.9	63.0	65.2	61.9	49.1	56.0	62.4
Industry/Business		7.7	10.9	14.7	15.4	29.4	6.4	4.1	4.6	6.5	8.4	7.2	6.2	17.4	10.5	14.2	8.3
Government		1.7	7.7	8.7	8.7	5.2	3.9	0.7	1.3	0.0	1.6	1.9	5.1	2.6	5.4	3.9	3.5
Nonprofit		4.7	4.2	4.7	5.6	2.0	3.9	0.7	2.1	1.4	7.2	5.3	3.6	1.0	13.4	6.7	5.0
Other & Unknown		5.7	3.6	2.0	2.9	2.0	5.6	4.8	3.8	4.6	3.7	4.2	2.5	1.6	2.5	2.0	3.2
Postdoctoral plans unknown	%	7.5	10.9	13.4	10.7	9.5	8.7	2.1	14.6	7.8	10.4	9.7	10.7	10.9	10.9	10.9	10.3
Definite postdoctoral study	%	11.7	7.9	4.2	12.9	26.0	8.7	4.8	3.8	5.5	5.3	5.9	3.6	2.9	6.1	4.4	4.8
Seeking postdoctoral study		6.0	5.2	3.2	4.8	7.9	4.3	2.1	2.1	1.4	2.5	2.7	3.0	1.7	2.0	1.9	2.7
Definite employment		55.1	54.0	60.7	54.7	42.1	50.2	56.8	53.3	57.6	53.1	53.1	63.7	72.1	61.8	67.3	59.8
Seeking employment		19.7	22.0	18.4	17.0	14.5	28.2	34.2	26.3	27.6	28.7	28.6	18.9	12.4	19.2	15.5	22.5
Employment commitments after doctorate <sup>c</sup>		221	272	244	1,700	6,949	307	83	128	125	821	1,464	1,424	498	364	862	3,750
Primary activity																	
R & D	%	34.7	24.5	32.8	35.9	58.1	12.4	2.4	8.7	5.7	9.0	9.0	5.7	39.1	11.7	27.7	12.0
Teaching		47.9	55.9	42.6	33.7	20.5	69.8	82.9	72.4	85.2	73.8	74.4	34.9	43.6	53.3	47.6	53.0
Administration		7.5	6.9	10.6	6.2	3.7	4.0	2.4	5.5	4.1	5.4	4.8	45.4	6.3	15.2	10.0	21.6
Prof. services		4.7	8.0	10.2	19.8	13.4	7.0	4.9	6.3	4.1	8.1	7.2	9.8	8.0	16.3	11.5	9.1
Other		0.5	0.0	0.0	0.6	0.5	0.7	0.0	0.0	0.0	0.5	0.4	0.1	0.2	0.0	0.1	0.2
Secondary activity																	
R & D	%	40.9	47.2	43.0	35.8	24.7	55.5	57.3	53.2	65.6	44.9	50.5	23.4	39.2	39.6	39.4	37.5
Teaching		29.1	17.7	23.1	24.7	17.4	14.3	3.7	12.9	11.2	15.3	13.8	25.6	36.2	23.9	31.0	22.4
Administration		9.1	11.4	11.6	13.4	16.3	9.3	13.4	10.5	11.2	14.3	12.6	13.9	7.5	14.0	10.2	12.5
Prof. services		5.5	6.3	5.8	8.9	12.4	4.0	4.9	7.3	2.4	9.6	7.3	14.4	6.7	11.5	8.7	10.4
Other		0.5	0.7	0.0	0.3	0.3	0.0	0.0	1.6	0.0	0.7	0.5	0.3	0.0	0.6	0.2	0.4
No secondary activity		9.1	10.0	11.2	12.2	24.1	10.3	12.2	7.3	8.0	10.4	10.0	17.8	7.1	6.5	6.8	12.2
Activity(ies) unknown	%	4.6	4.5	3.8	3.6	3.7	5.9	7.3	7.0	0.8	3.1	4.1	4.1	2.8	3.3	3.0	3.8
Region of employment after doctorate																	
New England	%	8.6	8.8	8.6	7.2	7.7	6.5	7.2	5.5	5.6	8.4	7.4	3.7	7.4	4.9	6.4	5.8
Middle Atlantic		9.5	10.3	12.7	12.5	14.4	14.3	18.1	21.9	17.6	13.6	15.1	13.6	13.9	12.9	13.5	14.2
East north central		14.0	11.4	11.1	11.6	11.1	15.6	16.9	18.0	20.0	12.8	14.7	14.4	13.7	12.1	13.0	14.2
West north central		7.2	5.9	5.7	6.1	5.0	5.9	6.0	3.9	8.0	8.3	7.2	8.6	5.2	6.9	5.9	7.4
South Atlantic		16.3	21.3	21.3	18.8	14.0	18.6	14.5	14.1	8.8	15.1	15.2	17.1	17.3	19.2	18.1	16.6
East south central		1.8	3.3	2.5	3.2	2.6	6.5	9.6	4.7	3.2	4.4	5.1	5.8	6.0	5.5	5.8	5.5
West south central		6.3	10.3	4.9	6.7	7.2	7.2	8.4	7.0	7.2	9.7	8.7	11.0	8.0	9.6	8.7	9.6
Mountain		6.3	5.5	4.5	4.6	5.1	4.6	4.8	7.8	3.2	4.6	4.8	6.7	5.0	5.5	5.2	5.6
Pacific & Insular		21.3	9.2	12.7	14.2	20.6	12.1	10.8	9.4	12.8	13.3	12.5	11.7	12.4	8.8	10.9	11.8
Foreign		8.6	13.6	16.0	14.8	12.1	8.1	3.6	7.8	13.6	9.6	9.2	7.0	11.0	14.6	12.5	9.1
Region unknown		0.0	0.4	0.0	0.2	0.4	0.7	0.0	0.0	0.0	0.1	0.2	0.4	0.0	0.0	0.0	0.2

<sup>c</sup> Includes only recipients with definite employment plans.

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

**APPENDIX TABLE A-3c. Statistical profile of doctorate recipients, by major field, 2001**  
**Total all women**

Characteristics	2001 Total	Physics & Astronomy	Chemistry	Earth, Atmos., & Marine Sci.	Mathematics	Computer Sciences	PHYSICAL SCIENCES <sup>a</sup>	ENGINEERING	Biochemistry	Other Biosciences	Health Sciences	Agricultural Sciences	LIFE SCIENCES	Psychology	Economics	
Total women	17,901	196	628	246	276	155	1,501	925	309	2,236	1,027	336	3,908	2,296	260	
Women as a percent of total doctorates	%	43.9	14.2	31.7	31.5	27.4	18.8	25.1	16.8	42.6	45.2	63.7	33.4	47.1	66.9	28.0
U.S. Citizenship	%	74.4	51.0	58.1	61.0	49.3	54.2	55.6	44.2	68.3	69.9	74.4	50.6	69.3	86.4	41.5
Non-U.S., Permanent visa		4.6	7.7	6.8	6.1	6.2	9.0	6.9	7.0	5.8	7.4	4.0	5.7	6.2	2.3	8.8
Non-U.S., Temporary visa		15.6	37.2	31.2	25.6	39.9	30.3	32.6	44.0	23.9	19.0	14.5	37.8	19.8	3.7	46.5
Unknown		5.4	4.1	3.8	7.3	4.7	6.5	4.9	4.8	1.9	3.7	7.1	6.0	4.7	7.7	3.1
Never married	%	25.0	32.1	35.4	30.9	30.8	25.8	32.4	32.3	37.2	31.4	21.9	27.1	29.0	28.0	36.5
Married		50.1	50.5	45.9	42.3	51.4	53.5	47.7	51.0	45.3	49.5	53.1	50.9	50.2	45.3	45.8
Separated, Divorced		8.4	3.6	4.0	8.5	4.3	5.8	4.9	3.4	3.6	4.8	8.1	5.7	5.6	7.6	3.8
Marriage-like relationship		6.5	5.6	6.4	9.3	6.2	3.2	6.4	4.3	9.1	7.2	5.5	6.0	6.8	7.1	7.7
Widowed		0.4	0.5	0.3	0.4	0.0	0.0	0.3	0.0	0.0	0.2	0.9	0.0	0.3	0.3	0.0
Unknown		9.5	7.7	8.1	8.5	7.2	11.6	8.3	9.0	4.9	6.9	10.6	10.4	8.0	11.8	6.2
Median Age at Doct.	Yrs	34.3	30.2	29.3	32.7	30.5	32.9	30.4	30.4	29.8	30.8	39.4	33.3	31.8	31.9	31.1
Percent with bacc. in same field as doctorate	%	50.7	76.5	73.4	40.7	67.8	37.4	63.7	69.9	30.1	55.2	48.4	41.4	50.2	63.9	58.5
Percent with masters	%	74.8	68.9	37.9	65.4	73.6	82.6	57.6	79.9	29.1	38.6	82.0	80.4	52.8	77.4	76.2
Median time lapse from bacc. to doct.																
Total time	Yrs	11.0	7.5	6.7	9.5	8.0	10.4	7.6	8.0	7.3	8.1	15.0	10.5	9.0	9.0	8.5
Registered time		7.7	6.9	6.0	7.3	7.0	7.6	6.6	6.8	6.3	6.8	8.0	7.5	7.0	7.2	6.9
Postdoctoral study plans	%	24.1	47.4	41.9	40.2	31.2	11.0	37.2	20.8	67.3	63.4	20.6	29.2	49.5	34.4	9.6
Fellowship		14.0	19.9	22.0	14.6	13.4	1.9	16.9	7.9	46.0	40.1	12.5	7.4	30.5	25.4	4.2
Research assoc.		7.3	24.5	18.3	24.4	14.5	8.4	18.4	10.7	15.5	17.4	5.6	20.5	14.5	5.2	4.2
Traineeship		0.9	1.5	0.3	0.4	0.7	0.6	0.6	1.5	0.3	1.3	1.1	0.6	1.1	2.1	0.4
Other study		1.9	1.5	1.3	0.8	2.5	0.0	1.3	0.6	5.5	4.5	1.5	0.6	3.5	1.7	0.8
Planned employment after doctorate	%	65.4	45.4	49.2	50.8	61.6	78.1	54.2	69.8	26.9	29.2	67.9	58.6	41.7	53.5	84.2
Educ. institution <sup>b</sup>		40.7	14.8	10.7	19.1	34.8	34.8	19.5	15.7	6.8	10.6	41.1	23.5	19.4	22.0	38.5
Industry/Business		12.7	23.0	34.4	14.6	15.9	37.4	26.6	44.3	14.6	11.7	10.4	18.5	12.2	12.8	25.8
Government		3.7	2.0	1.8	8.9	3.3	1.3	3.2	5.7	1.0	2.6	6.1	9.5	4.0	5.8	11.5
Nonprofit		4.1	2.6	0.6	4.1	2.2	1.3	1.8	1.1	0.3	1.5	7.2	3.3	3.0	8.1	3.8
Other & Unknown		4.2	3.1	1.8	4.1	5.4	3.2	3.1	3.0	4.2	2.9	3.0	3.9	3.1	4.8	4.6
Postdoctoral plans unknown	%	10.5	7.1	8.9	8.9	7.2	11.0	8.6	9.4	5.8	7.4	11.5	12.2	8.8	12.1	6.2
Definite postdoctoral Study	%	17.8	35.7	32.2	30.1	24.3	5.8	28.1	13.6	54.0	48.1	15.7	21.1	37.7	27.1	6.9
Seeking postdoctoral Study		6.3	11.7	9.7	10.2	6.9	5.2	9.1	7.1	13.3	15.3	5.0	8.0	11.8	7.3	2.7
Definite Employment		46.2	33.2	34.4	35.8	44.2	52.9	38.2	50.9	16.8	16.2	50.5	39.6	27.3	35.9	69.2
Seeking Employment		19.2	12.2	14.8	15.0	17.4	25.2	16.1	18.9	10.0	13.0	17.3	19.0	14.4	17.6	15.0
Employment commitments after doctorate <sup>c</sup>		8,274	65	216	88	122	82	573	471	52	363	519	133	1,067	825	180
Primary activity	%															
R & D		22.4	53.8	63.9	39.3	38.3	56.1	52.6	68.0	43.1	38.2	28.1	44.0	34.1	19.5	51.8
Teaching		44.1	27.7	22.2	32.1	52.5	30.5	31.9	15.0	29.4	33.3	44.2	28.8	38.0	17.7	26.5
Administration		15.0	0.0	2.3	7.1	0.0	3.7	2.5	1.5	3.9	5.7	8.1	5.6	6.8	6.2	1.8
Prof. services		15.1	15.4	10.2	15.5	2.5	4.9	9.2	11.1	13.7	18.2	17.2	17.6	17.4	53.5	17.1
Other		0.3	0.0	0.5	0.0	0.0	0.0	0.2	0.9	2.0	0.6	0.0	0.0	0.3	0.0	0.6
Secondary activity	%															
R & D		34.9	25.8	20.0	42.9	47.1	28.8	31.1	18.8	22.0	28.7	34.8	33.3	32.0	25.6	38.5
Teaching		19.0	6.5	7.9	11.9	15.7	26.3	12.6	15.5	12.0	14.3	20.0	21.7	17.9	20.2	24.1
Administration		12.8	6.5	25.6	4.8	6.6	13.8	14.6	13.1	14.0	15.5	18.3	14.0	16.6	18.8	6.9
Prof. services		11.5	11.3	8.4	4.8	7.4	7.5	7.8	11.6	4.0	11.7	13.0	10.1	11.8	12.5	8.6
Other		0.3	1.6	0.9	0.0	0.0	0.0	0.5	0.7	2.0	0.6	0.0	0.0	0.3	0.5	1.1
No secondary activity		17.8	45.2	36.3	27.4	14.9	18.8	28.8	36.2	36.0	24.4	10.9	15.5	17.2	19.1	17.8
Activity(ies) unknown	%	3.0	3.1	0.9	5.8	6.7	4.9	3.7	3.4	7.8	3.9	2.3	3.8	3.3	3.0	2.2
Region of employment after doctorate	%															
New England		6.0	13.8	5.6	10.2	4.9	2.4	6.6	6.8	3.8	7.2	6.9	2.3	6.3	6.9	6.7
Middle Atlantic		15.2	21.5	20.8	12.5	14.8	30.5	19.7	18.7	26.9	14.9	12.3	3.8	12.8	16.7	12.2
East north central		14.6	10.8	19.0	9.1	13.9	6.1	13.6	10.4	9.6	10.7	13.3	11.3	12.0	15.0	12.2
West north central		7.3	3.1	6.5	4.5	6.6	2.4	5.2	3.4	0.0	5.0	6.6	11.3	6.3	6.9	6.1
South Atlantic		17.4	10.8	12.0	19.3	20.5	17.1	15.5	9.1	5.8	17.9	19.5	12.0	17.3	18.1	25.0
East south central		4.3	6.2	1.9	2.3	4.9	2.4	3.1	2.3	5.8	4.1	3.7	5.3	4.1	3.0	2.2
West south central		8.8	0.0	4.6	10.2	7.4	7.3	5.9	7.6	7.7	8.5	11.8	6.8	9.8	7.9	1.1
Mountain		5.1	7.7	3.2	6.8	5.7	2.4	4.7	4.9	5.8	3.0	4.2	12.0	4.9	5.5	3.9
Pacific & Insular		14.5	16.9	19.4	15.9	13.9	25.6	18.3	27.8	26.9	19.0	11.8	7.5	14.4	18.2	14.4
Foreign		6.5	9.2	5.6	9.1	6.6	3.7	6.5	8.5	7.7	9.1	9.8	27.8	11.7	1.6	16.1
Region unknown		0.3	0.0	1.4	0.0	0.8	0.0	0.7	0.4	0.0	0.6	0.2	0.0	0.3	0.2	0.0

NOTE: Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates.

<sup>a</sup> Physical Sciences includes mathematics and computer sciences.

**APPENDIX TABLE A-3c. Statistical profile of doctorate recipients, by major field, 2001, continued**  
**Total all women**

Characteristics	Anthropology & Sociology	Political Sci./Internat'l Rel.	Other Social Sciences	SOCIAL SCI. INCL. PSYCH.	TOTAL SCIENCES & ENGINEERING	History	American Literature	English Lang. & Lit.	Foreign Lang. & Lit.	Other Humanities	HUMANITIES	EDUCATION	Business & Management	Other Professional Fields	PROFESSIONAL/ OTHER FIELDS	TOTAL NONSCIENCES	
Total women	572	244	335	3,707	10,041	413	237	353	401	1,419	2,823	4,085	356	596	952	7,860	
Women as a percent of total doctorates	%	58.8	32.6	45.2	54.3	37.8	40.3	61.9	59.4	64.8	47.8	50.5	64.6	33.9	50.1	42.5	55.5
U.S. Citizenship	%	80.6	77.0	66.6	79.9	68.9	86.7	94.1	83.3	68.3	74.8	78.3	85.2	71.3	76.0	74.3	81.4
Non-U.S., Permanent visa		4.0	7.4	6.9	3.7	5.5	2.7	2.1	4.2	13.0	6.5	6.2	1.5	3.4	4.2	3.9	3.5
Non-U.S., Temporary visa		11.7	13.1	19.4	10.0	20.3	7.5	3.4	7.6	15.2	14.0	11.5	7.0	16.3	14.4	15.1	9.6
Unknown		3.7	2.5	7.2	6.4	5.3	3.1	0.4	4.8	3.5	4.8	4.0	6.2	9.0	5.4	6.7	5.5
Never married	%	26.0	22.1	26.3	27.8	29.4	25.4	26.2	25.5	24.2	26.4	25.8	14.6	19.4	23.3	21.8	19.5
Married		45.5	54.9	46.3	46.0	48.4	47.9	49.4	48.7	50.4	47.9	48.5	56.1	45.8	49.5	48.1	52.4
Separated, Divorced		11.5	6.6	9.6	8.1	6.2	7.5	11.4	5.9	8.7	8.9	8.5	13.0	15.2	9.6	11.7	11.2
Marriage-like relationship		10.3	10.2	6.0	7.7	6.8	11.1	10.5	9.9	9.2	7.4	8.8	4.1	4.5	6.5	5.8	6.0
Widowed		0.2	0.4	0.6	0.3	0.3	0.5	0.4	0.3	0.2	0.4	0.4	0.8	0.3	0.7	0.5	0.6
Unknown		6.5	5.7	11.3	10.1	8.9	7.5	2.1	9.6	7.2	9.1	8.1	11.4	14.9	10.4	12.1	10.3
Median age at doct.	Yrs	34.4	32.8	36.0	32.7	31.7	34.7	34.0	34.5	34.7	35.2	34.9	44.3	38.6	39.9	39.1	39.4
Percent with bacc. in same field as doctorate	%	74.8	48.8	20.6	60.3	57.8	52.5	58.6	69.7	53.4	48.9	53.5	35.7	39.6	29.0	33.0	41.8
Percent with masters	%	84.8	79.9	83.9	79.2	65.8	83.8	92.0	81.0	88.3	84.7	85.2	87.3	77.0	89.6	84.9	86.2
Median time lapse from bacc. to doct.																	
Total time	Yrs	11.2	10.3	12.2	9.6	9.0	11.6	11.3	11.3	11.0	12.0	11.6	19.3	13.3	15.0	14.7	15.0
Registered time		8.7	8.3	8.2	7.6	7.1	9.6	8.9	9.0	8.9	9.3	9.1	8.3	7.8	8.9	8.2	8.6
Postdoctoral study plans	%	19.1	13.9	17.6	27.4	36.9	13.8	9.7	8.5	8.0	9.4	9.8	6.6	4.5	7.7	6.5	7.7
Fellowship		12.1	10.2	7.5	19.2	22.2	9.2	7.6	4.2	3.7	5.8	6.0	1.9	1.1	3.4	2.5	3.4
Research assoc.		5.6	1.6	8.7	5.3	11.3	1.7	1.3	1.4	2.2	1.7	1.7	2.3	2.5	3.0	2.8	2.1
Traineeship		0.7	0.0	0.6	1.5	1.2	0.0	0.0	0.6	0.5	0.6	0.4	0.6	0.0	0.3	0.2	0.5
Other study		0.7	2.0	0.9	1.5	2.1	2.9	0.8	2.3	1.5	1.4	1.7	1.9	0.8	1.0	0.9	1.7
Planned employment after doctorate	%	72.9	78.3	70.4	61.8	53.6	75.1	88.6	80.5	83.0	78.4	79.7	81.0	80.1	80.7	80.5	80.4
Educ. institution <sup>b</sup>		46.9	52.5	42.4	30.8	23.3	57.4	72.6	67.7	71.1	56.3	61.4	65.3	61.0	54.7	57.0	62.9
Industry/Business		6.1	9.0	10.1	12.2	17.3	6.1	8.0	4.2	4.2	8.9	7.2	5.7	13.8	9.9	11.3	6.9
Government		4.4	3.7	4.8	5.7	4.7	3.1	0.0	0.8	1.2	0.9	1.2	2.9	2.0	4.9	3.8	2.4
Nonprofit		8.0	7.0	8.1	7.7	4.4	2.9	2.5	2.8	1.2	5.0	3.7	3.3	1.1	7.2	4.9	3.6
Other & Unknown		7.5	6.1	5.1	5.3	3.9	5.6	5.5	4.8	5.2	7.3	6.3	3.8	2.2	4.0	3.4	4.6
Postdoctoral plans unknown	%	8.0	7.8	11.9	10.7	9.5	11.1	1.7	11.0	9.0	12.2	10.6	12.4	15.4	11.6	13.0	11.8
Definite postdoctoral study	%	13.5	10.7	11.0	21.1	27.9	8.5	6.3	5.4	5.0	6.1	6.2	4.0	3.1	5.5	4.6	4.9
Seeking postdoctoral study		5.6	3.3	6.6	6.4	8.9	5.3	3.4	3.1	3.0	3.4	3.6	2.6	1.4	2.2	1.9	2.8
Definite employment		49.3	54.5	47.2	42.6	36.7	53.5	59.9	55.0	56.4	51.5	53.6	60.7	67.4	58.9	62.1	58.3
Seeking employment		23.6	23.8	23.3	19.3	16.9	21.5	28.7	25.5	26.7	26.8	26.0	20.3	12.6	21.8	18.4	22.1
Employment commitments after doctorate <sup>c</sup>		282	133	158	1,578	3,689	221	142	194	226	731	1,514	2,480	240	351	591	4,585
Primary activity	%	31.5	26.6	39.7	27.9	38.7	10.0	5.1	5.7	8.4	9.1	8.3	7.1	28.9	17.2	21.9	9.4
R & D		48.7	58.6	39.7	29.9	30.6	79.4	83.1	78.2	83.6	76.6	78.9	41.3	51.5	50.9	51.1	54.8
Teaching		7.9	3.1	9.0	6.0	5.1	3.3	6.6	5.2	2.7	5.7	4.9	36.7	6.8	12.8	10.4	23.0
Administration		6.8	7.8	9.0	32.7	21.9	4.3	3.7	6.7	1.8	5.5	4.8	11.7	10.2	16.3	13.8	9.7
Prof. services		0.7	0.0	0.6	0.3	0.3	1.0	0.0	0.5	0.0	0.3	0.3	0.2	0.0	0.3	0.2	0.3
Other		48.4	51.2	40.9	34.8	31.4	56.3	51.5	44.6	62.6	49.8	52.2	27.1	49.4	43.8	46.1	37.7
R & D	%	18.8	20.2	27.9	21.1	18.2	11.6	8.1	9.1	8.6	13.1	11.2	23.3	31.6	20.5	25.0	19.6
Teaching		9.0	10.1	9.1	14.0	14.7	9.3	17.6	13.4	9.9	11.6	11.8	11.7	7.2	9.8	8.7	11.3
Administration		9.0	2.3	8.4	10.2	10.5	5.1	8.1	7.0	3.6	8.7	7.1	16.5	3.0	10.7	7.5	12.3
Prof. services		0.0	0.0	0.0	0.4	0.4	0.0	0.7	0.0	0.5	0.3	0.3	0.2	0.0	0.0	0.0	0.2
Other		9.7	10.1	11.0	15.7	20.8	14.0	10.3	22.0	11.3	12.0	13.3	18.1	5.9	12.1	9.6	15.4
No secondary activity		4.3	3.8	1.9	3.1	3.3	1.8	1.4	3.6	3.5	2.8	2.7	2.9	2.5	2.6	2.6	2.8
Activity(ies) unknown	%	8.9	8.3	7.0	7.4	6.9	7.7	6.3	6.7	7.5	6.7	6.9	4.0	7.5	5.7	6.4	5.3
Region of employment after doctorate	%	12.4	14.3	9.5	14.5	15.4	18.1	14.8	18.0	17.3	14.0	15.7	14.1	12.5	20.2	17.1	15.0
New England		16.3	10.5	14.6	14.5	13.1	12.2	10.6	21.6	18.6	17.4	16.7	15.2	17.5	14.8	15.9	15.8
Middle Atlantic		7.8	7.5	7.6	7.1	6.1	8.1	6.3	7.2	8.0	9.0	8.3	8.8	7.5	6.0	6.6	8.3
East north central		20.2	20.3	19.0	19.5	16.9	13.6	18.3	13.9	17.7	13.3	14.5	19.6	17.5	18.5	18.1	17.8
West north central		3.2	3.8	2.5	3.0	3.3	3.6	7.0	2.1	4.4	4.4	4.2	5.9	4.2	4.6	4.4	5.2
South Atlantic		2.5	8.3	7.6	6.1	7.4	10.0	12.0	7.7	5.8	7.4	8.0	11.3	11.3	8.0	9.3	10.0
East south central		5.3	5.3	3.2	5.0	4.9	5.9	8.5	4.6	3.5	4.4	4.9	5.5	5.0	5.1	5.1	5.2
West south central		16.0	14.3	15.8	16.8	17.8	13.6	12.0	12.4	12.4	15.9	14.2	10.7	9.6	11.4	10.7	11.9
Mountain		7.1	6.8	13.3	5.8	8.0	7.2	4.2	5.7	4.4	7.3	6.3	4.4	7.5	5.4	6.3	5.3
Pacific & Insular		0.4	0.8	0.0	0.3	0.4	0.0	0.0	0.0	0.4	0.3	0.4	0.0	0.3	0.2	0.3	0.3
Foreign																	
Region unknown																	

<sup>b</sup> Includes 2-year, 4-year, and foreign colleges and universities, medical schools, and elementary/secondary schools. <sup>c</sup> Includes only recipients with definite employment plans.  
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, 2001**

Characteristics		Total <sup>a</sup>				American Indian <sup>b</sup>				Asian <sup>c</sup>				Black/African-American			
		Total	U.S.	Non-U.S.		Total	U.S.	Non-U.S.		Total	U.S.	Non-U.S.		Total	U.S.	Non-U.S.	
				Perm.	Temp.			Perm.	Temp.			Perm.	Temp.			Perm.	Temp.
Total number		40,744	26,907	1,822	9,780	164	149	2	12	8,061	1,382	772	5,885	2,000	1,604	117	265
Male	%	55.9	50.5	54.6	71.4	47.6	45.0	100.0	66.7	66.9	53.6	54.7	71.6	43.1	36.6	71.8	70.2
Female		43.9	49.5	45.4	28.6	52.4	55.0	0.0	33.3	33.1	46.4	45.3	28.4	56.9	63.4	28.2	29.8
Doctoral field																	
Physical Sciences <sup>e</sup>	%	14.7	11.6	18.0	23.1	9.1	8.7	100.0	0.0	20.5	14.3	18.4	22.3	6.6	5.0	11.1	14.0
Engineering		13.5	8.0	16.2	28.3	8.5	4.7	0.0	58.3	29.1	18.5	20.9	32.6	6.3	5.1	8.5	12.5
Life Sciences		20.4	20.1	24.6	20.5	12.8	14.1	0.0	0.0	24.0	31.1	30.4	21.6	14.1	11.8	21.4	24.5
Social Sciences		16.8	18.8	13.1	11.1	22.6	22.8	0.0	16.7	9.5	14.3	8.8	8.5	18.1	18.6	21.4	14.0
Humanities		13.7	16.3	15.6	6.9	14.6	15.4	0.0	8.3	5.8	9.4	8.7	4.6	11.0	11.0	10.3	11.7
Education		15.5	19.8	6.4	5.1	26.8	28.2	0.0	16.7	5.7	7.4	5.6	5.3	35.9	40.3	17.9	15.8
Professional/Other		5.5	5.6	6.0	5.1	5.5	6.0	0.0	0.0	5.3	5.0	7.3	5.1	8.1	8.1	9.4	7.5
Median age at doctorate	Yrs	33.3	33.9	34.3	32.3	38.7	39.7	28.2	33.1	32.3	31.2	33.9	32.3	37.8	37.7	39.7	37.3
Median time lapse from baccalaureate to doctorate																	
Total time	Yrs	10.0	10.5	10.7	9.3	13.0	13.3	6.2	11.0	9.5	8.5	11.0	9.7	12.5	12.6	14.0	12.0
Registered time		7.5	7.6	8.0	7.1	8.0	8.0	5.2	6.8	7.3	7.3	8.4	7.2	7.9	7.9	8.3	7.6
Doctoral program support <sup>f</sup>																	
Teaching assistantships	%	17.8	17.0	21.7	19.2	13.2	13.0	50.0	8.3	16.6	12.7	18.1	17.4	11.9	8.7	21.7	27.2
Research assistantships/Traineeships		26.3	19.9	31.9	43.4	8.6	8.0	0.0	16.7	46.4	31.4	42.2	50.5	11.7	9.3	14.2	25.1
Fellowships/Dissertation grants		20.3	21.0	20.2	18.5	27.6	27.5	50.0	25.0	18.2	30.3	18.2	15.4	31.0	31.9	22.6	29.3
Own resources		29.3	36.9	22.8	9.3	42.8	45.7	0.0	16.7	12.8	21.4	18.2	10.1	39.3	44.5	37.7	7.9
Foreign government		2.3	0.1	1.6	8.7	1.3	0.0	0.0	16.7	4.4	0.4	0.8	5.8	1.1	0.0	0.9	8.4
Employer		3.9	5.1	1.9	1.0	6.6	5.8	0.0	16.7	1.5	3.7	2.4	0.8	4.9	5.5	2.8	2.1
Other		0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Postdoctoral plans																	
Postdoctoral study plans	%	25.4	24.6	29.0	32.8	19.5	18.8	0.0	33.3	32.3	35.3	28.2	32.3	22.6	20.4	29.1	33.6
Postdoctoral employment plans																	
Educational institution <sup>f</sup>	%	64.3	70.6	65.0	61.4	73.2	74.5	100.0	58.3	62.7	60.9	65.7	62.9	69.4	72.0	64.1	59.6
Industry/Business		34.8	41.7	27.8	24.7	40.9	45.0	0.0	0.0	21.7	23.8	20.3	21.4	45.4	48.3	29.9	36.6
Government		18.8	15.8	28.7	29.3	14.0	12.8	50.0	25.0	34.0	26.8	38.3	35.2	10.6	9.5	22.2	12.5
Nonprofit		4.3	4.9	2.2	3.8	5.5	6.0	0.0	0.0	3.2	4.0	1.4	3.2	6.2	6.4	5.1	5.7
Other/Unknown		3.4	4.3	3.0	1.7	7.3	6.7	0.0	16.7	2.0	3.8	3.0	1.5	3.4	3.6	3.4	1.9
		3.2	3.8	3.3	2.0	5.5	4.0	50.0	16.7	1.8	2.5	2.6	1.6	3.9	4.1	3.4	3.0
Postdoctoral plans unknown	%	10.3	4.8	6.0	5.8	7.3	6.7	0.0	8.3	5.0	3.8	6.1	4.8	8.0	7.5	6.8	6.8
Definite postdoctoral study	%	19.1	19.1	19.4	23.2	12.2	12.1	0.0	16.7	22.4	26.3	19.3	22.0	15.2	14.3	15.4	21.1
Seeking postdoctoral study		6.3	5.4	9.5	9.6	7.3	6.7	0.0	16.7	9.9	9.0	8.9	10.3	7.4	6.1	13.7	12.5
Definite employment		46.6	51.5	43.2	44.0	51.8	54.4	50.0	25.0	43.3	40.9	44.8	43.8	48.0	51.1	38.5	35.5
Seeking employment		17.8	19.1	21.7	17.3	21.3	20.1	50.0	33.3	19.4	20.0	20.9	19.1	21.5	20.9	25.6	24.2
Employment location after doctorate <sup>h</sup>																	
U.S.	%	90.6	97.9	92.4	67.0	94.1	97.5	100.0	0.0	79.0	96.6	93.9	73.1	94.8	99.1	95.6	56.4
Foreign		9.0	1.8	7.2	32.7	5.9	2.5	0.0	100.0	20.7	3.2	5.8	26.6	5.2	0.9	4.4	43.6
Unknown		0.3	0.3	0.4	0.3	0.0	0.0	0.0	0.0	0.3	0.2	0.3	0.3	0.0	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.

<sup>a</sup> Totals include 74 individuals who did not report their gender and 2,235 individuals who did not report their citizenship at time of doctorate.

<sup>b</sup> Includes Alaskan Native.

<sup>c</sup> Does not include Native Hawaiians and other Pacific Islanders.

<sup>d</sup> Includes Native Hawaiians and other Pacific Islanders, respondents choosing multiple races (excluding those selecting an Hispanic ethnicity), and respondents with unknown race/ethnicity.

<sup>e</sup> Includes mathematics and computer sciences.

**Appendix Table A-4. Statistical profile of doctorate recipients, by race/ethnicity and citizenship, 2001, continued**

Characteristics		White				Puerto Rican	Mexican American				Other Hispanic				Other/Unknown Race <sup>d</sup>			
		Total	U.S.	Non-U.S.			Total	U.S.	Non-U.S.		Total	U.S.	Non-U.S.		Total	U.S.	Non-U.S.	
				Perm.	Temp.				Perm.	Temp.			Perm.	Temp.			Perm.	Temp.
Total number		25,354	21,842	745	2,634	301	484	377	24	83	1,103	441	119	530	3,277	811	43	371
Male	%	53.7	51.5	52.3	71.3	40.2	53.1	50.1	37.5	71.1	57.5	42.4	52.9	71.7	55.3	54.7	58.1	70.1
Female		46.3	48.5	47.7	28.7	59.8	46.9	49.9	62.5	28.9	42.5	57.6	47.1	28.3	42.4	45.3	41.9	29.6
Doctoral field																		
Physical Sciences <sup>e</sup>	%	13.8	12.1	20.8	26.9	6.6	9.9	6.9	12.5	22.9	13.1	10.4	6.7	16.8	13.6	13.1	11.6	24.0
Engineering		9.5	7.5	13.6	23.4	4.3	7.4	4.5	4.2	21.7	14.4	9.8	14.3	18.7	12.5	9.4	14.0	22.1
Life Sciences		19.7	20.2	20.7	15.9	18.6	17.1	15.1	4.2	30.1	23.0	16.6	21.8	28.7	20.1	18.7	18.6	19.7
Social Sciences		18.3	18.9	13.3	14.6	21.9	20.0	19.1	54.2	14.5	20.2	23.8	19.3	16.8	19.0	19.5	23.3	14.6
Humanities		16.3	16.9	21.6	10.4	14.3	15.5	17.8	20.8	3.6	16.8	20.4	27.7	11.5	13.7	20.2	16.3	8.6
Education		17.0	19.0	5.4	3.6	28.9	24.8	30.5	0.0	6.0	8.1	14.1	6.7	3.4	15.5	13.9	9.3	6.7
Professional/Other		5.4	5.4	4.7	5.1	5.3	5.2	6.1	4.2	1.2	4.4	5.0	3.4	4.2	5.6	5.2	7.0	4.3
Median age at doctorate	Yrs	33.5	33.9	33.7	31.4	36.1	34.7	34.7	33.4	35.3	34.8	34.2	35.8	35.1	33.5	34.2	34.9	32.6
Median time lapse from baccalaureate to doctorate																		
Total time	Yrs	10.1	10.6	9.8	8.1	12.0	11.0	11.0	9.0	11.8	10.3	10.0	11.0	10.3	10.1	10.6	10.7	9.1
Registered time		7.6	7.6	7.5	6.7	8.5	7.7	7.8	7.9	7.2	7.3	7.9	7.6	6.8	7.6	7.9	8.0	7.0
Doctoral program support <sup>f</sup>																		
Teaching assistantships	%	18.8	18.1	25.4	22.8	9.6	11.6	12.0	21.7	6.5	18.6	17.2	22.9	18.9	18.2	16.7	12.1	21.5
Research assistantships/Traineeships		22.2	20.3	26.8	36.4	13.2	12.2	11.7	13.0	14.3	18.7	12.8	21.1	23.0	21.4	19.9	21.2	24.4
Fellowships/Dissertation grants		19.1	18.8	20.3	21.3	34.6	33.0	33.1	39.1	31.2	28.5	32.7	22.9	26.3	25.2	24.8	30.3	28.9
Own resources		34.0	37.3	24.0	8.8	36.8	33.3	39.6	26.1	5.2	19.2	33.2	26.6	6.5	27.6	34.9	33.3	4.5
Foreign government		1.1	0.0	1.8	9.8	0.0	6.7	0.0	0.0	40.3	12.8	0.5	6.4	24.0	5.1	0.3	0.0	20.3
Employer		4.7	5.3	1.6	1.0	5.5	3.2	3.6	0.0	2.6	2.1	3.7	0.0	1.4	2.3	3.2	3.0	0.0
Other		0.1	0.1	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.0	0.4
Postdoctoral plans																		
Postdoctoral study plans	%	25.6	24.3	30.3	35.9	26.2	28.1	26.0	41.7	33.7	27.8	24.7	26.1	31.5	8.1	21.7	20.9	19.7
Postdoctoral employment plans	%	69.7	71.4	64.8	59.9	66.8	68.6	70.8	58.3	61.4	66.2	68.0	67.2	65.8	22.1	64.5	53.5	43.1
Educational institution <sup>g</sup>		40.5	42.5	31.9	28.5	44.5	46.5	48.5	50.0	36.1	39.3	41.0	42.9	38.1	11.4	33.9	30.2	21.0
Industry/Business		16.6	15.7	23.1	23.5	10.3	9.7	10.3	4.2	8.4	14.9	15.0	16.8	14.7	6.5	18.0	16.3	14.3
Government		4.7	4.9	2.6	3.8	5.6	5.8	4.8	0.0	12.0	6.5	5.0	3.4	8.7	1.3	3.9	0.0	3.0
Nonprofit		4.1	4.4	3.4	1.7	3.0	3.5	3.7	0.0	3.6	3.0	4.1	1.7	2.3	1.3	3.7	2.3	2.4
Other/Unknown		3.7	3.9	3.9	2.5	3.3	3.1	3.4	4.2	1.2	2.4	2.9	2.5	2.1	1.7	4.9	4.7	2.4
Postdoctoral plans unknown	%	4.8	4.3	4.8	4.2	7.0	3.3	3.2	0.0	4.8	6.0	7.3	6.7	2.6	69.7	13.8	25.6	37.2
Definite postdoctoral study	%	20.0	19.2	21.1	27.3	19.3	21.7	20.7	16.7	27.7	21.2	19.5	17.6	24.0	5.6	15.9	11.6	12.1
Seeking postdoctoral study		5.6	5.1	9.3	8.6	7.0	6.4	5.3	25.0	6.0	6.6	5.2	8.4	7.5	2.6	5.8	9.3	7.5
Definite employment		51.2	52.5	42.0	45.6	47.8	52.7	54.9	50.0	43.4	50.4	50.8	47.1	52.1	15.1	43.4	34.9	32.1
Seeking employment		18.4	18.9	22.8	14.3	18.9	15.9	15.9	8.3	18.1	15.8	17.2	20.2	13.8	7.0	21.1	18.6	11.1
Employment location after doctorate <sup>h</sup>																		
U.S.	%	94.5	97.8	92.0	62.9	100.0	88.6	99.0	83.3	30.6	70.1	97.8	87.5	44.2	85.0	96.6	80.0	51.3
Foreign		5.2	1.8	7.3	36.7	0.0	11.4	1.0	16.7	69.4	29.9	2.2	12.5	55.8	14.0	2.6	20.0	47.9
Unknown		0.4	0.3	0.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.9	0.0	0.8

<sup>f</sup> In this table a recipient counts once in each source category from which he or she received support. Because 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.)

<sup>g</sup> Includes 2-year, 4-year, and foreign colleges and universities, medical schools, and elementary/secondary schools.

<sup>h</sup> 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, 2001

Financial Resource		Total		Physical Sciences <sup>a</sup>		Engineering		Life Sciences		Social Sciences		Humanities		Education		Professional/ Other Fields	
		Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women
Unduplicated Total <sup>b</sup>	N	20,866	16,318	4,133	1,386	4,182	851	4,002	3,614	2,819	3,361	2,548	2,614	2,016	3,641	1,166	851
Loans (from any source)	N	6,530	6,245	874	289	591	115	1,150	973	1,412	1,920	1,316	1,300	778	1,293	409	355
	V <sup>c</sup>	31.3%	38.3%	21.1%	20.9%	14.1%	13.5%	28.7%	26.9%	50.1%	57.1%	51.6%	49.7%	38.6%	35.5%	35.1%	41.7%
	H <sup>c</sup>	100.0%	100.0%	13.4%	4.6%	9.1%	1.8%	17.6%	15.6%	21.6%	30.7%	20.2%	20.8%	11.9%	20.7%	6.3%	5.7%
Foreign (non-U.S.) Support	N	1,951	910	310	70	516	86	340	213	332	153	234	224	93	106	126	58
	V	9.4%	5.6%	7.5%	5.1%	12.3%	10.1%	8.5%	5.9%	11.8%	4.6%	9.2%	8.6%	4.6%	2.9%	10.8%	6.8%
	H	100.0%	100.0%	15.9%	7.7%	26.4%	9.5%	17.4%	23.4%	17.0%	16.8%	12.0%	24.6%	4.8%	11.6%	6.5%	6.4%
Fellowship, Scholarship	N	11,336	9,183	2,179	830	1,881	500	2,465	2,288	1,780	1,993	1,818	1,868	604	1,242	609	462
	V	54.3%	56.3%	52.7%	59.9%	45.0%	58.8%	61.6%	63.3%	63.1%	59.3%	71.4%	71.5%	30.0%	34.1%	52.2%	54.3%
	H	100.0%	100.0%	19.2%	9.0%	16.6%	5.4%	21.7%	24.9%	15.7%	21.7%	16.0%	20.3%	5.3%	13.5%	5.4%	5.0%
Dissertation Grant	N	2,856	3,120	275	118	193	65	506	608	711	904	839	892	141	358	191	175
	V	13.7%	19.1%	6.7%	8.5%	4.6%	7.6%	12.6%	16.8%	25.2%	26.9%	32.9%	34.1%	7.0%	9.8%	16.4%	20.6%
	H	100.0%	100.0%	9.6%	3.8%	6.8%	2.1%	17.7%	19.5%	24.9%	29.0%	29.4%	28.6%	4.9%	11.5%	6.7%	5.6%
Teaching Assistant	N	12,428	9,082	3,256	1,129	2,082	459	1,784	1,561	2,056	2,309	2,039	2,155	485	973	726	496
	V	59.6%	55.7%	78.8%	81.5%	49.8%	53.9%	44.6%	43.2%	72.9%	68.7%	80.0%	82.4%	24.1%	26.7%	62.3%	58.3%
	H	100.0%	100.0%	26.2%	12.4%	16.8%	5.1%	14.4%	17.2%	16.5%	25.4%	16.4%	23.7%	3.9%	10.7%	5.8%	5.5%
Research Assistant	N	12,719	7,992	3,354	1,100	3,496	700	2,497	2,165	1,647	2,006	741	769	412	843	572	409
	V	61.0%	49.0%	81.2%	79.4%	83.6%	82.3%	62.4%	59.9%	58.4%	59.7%	29.1%	29.4%	20.4%	23.2%	49.1%	48.1%
	H	100.0%	100.0%	26.4%	13.8%	27.5%	8.8%	19.6%	27.1%	12.9%	25.1%	5.8%	9.6%	3.2%	10.5%	4.5%	5.1%
Traineeship	N	912	1,060	112	52	85	26	498	546	162	364	21	14	19	44	15	14
	V	4.4%	6.5%	2.7%	3.8%	2.0%	3.1%	12.4%	15.1%	5.7%	10.8%	0.8%	0.5%	0.9%	1.2%	1.3%	1.6%
	H	100.0%	100.0%	12.3%	4.9%	9.3%	2.5%	54.6%	51.5%	17.8%	34.3%	2.3%	1.3%	2.1%	4.2%	1.6%	1.3%
Internship or Residency	N	1,442	1,662	254	78	357	81	93	75	503	1,086	71	64	124	249	40	29
	V	6.9%	10.2%	6.1%	5.6%	8.5%	9.5%	2.3%	2.1%	17.8%	32.3%	2.8%	2.4%	6.2%	6.8%	3.4%	3.4%
	H	100.0%	100.0%	17.6%	4.7%	24.8%	4.9%	6.4%	4.5%	34.9%	65.3%	4.9%	3.9%	8.6%	15.0%	2.8%	1.7%
Personal Savings	N	10,256	8,925	1,473	496	1,628	286	1,695	1,574	1,693	2,022	1,584	1,502	1,405	2,474	778	571
	V	49.2%	54.7%	35.6%	35.8%	38.9%	33.6%	42.4%	43.6%	60.1%	60.2%	62.2%	57.5%	69.7%	67.9%	66.7%	67.1%
	H	100.0%	100.0%	14.4%	5.6%	15.9%	3.2%	16.5%	17.6%	16.5%	22.7%	15.4%	16.8%	13.7%	27.7%	7.6%	6.4%
Other Personal Earnings During Grad School	N	8,023	8,120	881	266	855	162	1,003	1,074	1,570	1,974	1,773	1,698	1,335	2,466	606	480
	V	38.5%	49.8%	21.3%	19.2%	20.4%	19.0%	25.1%	29.7%	55.7%	58.7%	69.6%	65.0%	66.2%	67.7%	52.0%	56.4%
	H	100.0%	100.0%	11.0%	3.3%	10.7%	2.0%	12.5%	13.2%	19.6%	24.3%	22.1%	20.9%	16.6%	30.4%	7.6%	5.9%
Family Earnings or Savings <sup>d</sup>	N	7,528	7,897	1,062	460	1,018	253	1,369	1,546	1,334	1,876	1,340	1,447	876	1,890	529	425
	V	36.1%	48.4%	25.7%	33.2%	24.3%	29.7%	34.2%	42.8%	47.3%	55.8%	52.6%	55.4%	43.5%	51.9%	45.4%	49.9%
	H	100.0%	100.0%	14.1%	5.8%	13.5%	3.2%	18.2%	19.6%	17.7%	23.8%	17.8%	18.3%	11.6%	23.9%	7.0%	5.4%
Employer Reimbursement/ Assistance	N	2,326	2,112	266	70	427	77	318	383	229	258	227	172	642	1,009	217	143
	V	11.1%	12.9%	6.4%	5.1%	10.2%	9.0%	7.9%	10.6%	8.1%	7.7%	8.9%	6.6%	31.8%	27.7%	18.6%	16.8%
	H	100.0%	100.0%	11.4%	3.3%	18.4%	3.6%	13.7%	18.1%	9.8%	12.2%	9.8%	8.1%	27.6%	47.8%	9.3%	6.8%
Other	N	38	46	0	3	8	0	5	12	11	6	4	6	5	15	5	4
	V	0.2%	0.3%	0.0%	0.2%	0.2%	0.0%	0.1%	0.3%	0.4%	0.2%	0.2%	0.2%	0.2%	0.4%	0.4%	0.5%
	H	100.0%	100.0%	0.0%	6.5%	21.1%	0.0%	13.2%	26.1%	28.9%	13.0%	10.5%	13.0%	13.2%	32.6%	13.2%	8.7%

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 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.

<sup>a</sup> Includes mathematics and computer sciences.

<sup>b</sup> The 3,556 Ph.D.s who did not report sources of support are omitted from this total. Percentages are based only on known responses.

<sup>c</sup> V denotes vertical percentage; H denotes horizontal percentage.

<sup>d</sup> This category includes spouses and significant others.

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



**APPENDIX TABLE A-6. State of doctoral institution of doctorate recipients, by broad field and sex, 2001**

State	Total <sup>a</sup>		Physical Sciences <sup>b</sup>		Engineering		Life Sciences		Social Sciences		Humanities		Education		Professional/ Other Fields	
	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women
U.S. Total <sup>c</sup>	22,769	17,901	4,460	1,501	4,564	925	4,363	3,908	3,109	3,707	2,759	2,823	2,234	4,085	1,280	952
Alabama	271	210	45	14	45	16	84	59	18	33	16	11	42	69	21	8
Alaska	10	17	5	5	1	1	4	9	0	1	0	1	0	0	0	0
Arizona	373	302	81	27	86	15	59	46	32	60	47	48	42	86	26	20
Arkansas	65	73	6	1	5	0	22	22	4	9	3	5	20	31	5	5
California	2,707	2,102	628	195	582	134	467	452	422	589	319	343	173	302	116	87
Colorado	394	312	89	34	99	24	80	74	46	68	36	14	30	77	14	21
Connecticut	313	255	60	27	27	7	73	67	48	59	81	61	10	24	14	10
Delaware	103	88	24	12	32	6	9	10	15	17	6	14	17	28	0	1
District of Columbia	245	248	46	14	33	7	22	43	52	71	43	43	17	47	32	23
Florida	900	858	146	54	154	25	120	106	87	142	63	45	228	410	102	76
Georgia	517	452	90	31	145	39	98	95	64	76	49	59	49	129	22	23
Hawaii	76	68	13	5	6	2	21	12	21	15	14	21	1	10	0	3
Idaho	55	31	5	1	9	2	22	7	6	2	1	0	12	19	0	0
Illinois	1,213	904	249	79	247	58	198	171	188	180	177	158	81	204	73	54
Indiana	667	454	120	41	142	18	107	80	83	81	118	121	61	94	36	19
Iowa	335	252	56	20	72	14	79	61	40	50	29	43	42	51	17	13
Kansas	234	190	36	19	46	3	49	46	37	34	29	27	33	51	4	10
Kentucky	195	141	18	9	13	2	51	27	26	36	27	19	33	35	27	13
Louisiana	331	245	76	25	37	10	79	59	48	29	40	48	18	60	33	14
Maine	23	18	10	0	3	3	7	5	0	3	2	2	1	5	0	0
Maryland	521	418	102	33	124	28	147	169	81	81	53	62	6	32	8	13
Massachusetts	1,278	820	274	80	292	58	247	204	183	166	165	140	54	125	63	47
Michigan	749	589	134	57	217	42	116	128	103	136	70	85	71	107	38	34
Minnesota	413	369	51	27	94	17	104	83	49	68	38	66	42	86	35	22
Mississippi	186	150	27	7	17	3	30	27	14	14	37	21	49	68	12	10
Missouri	403	336	57	25	62	8	98	86	56	66	45	48	54	88	31	15
Montana	40	18	13	4	2	0	11	4	4	4	0	0	10	6	0	0
Nebraska	156	118	26	9	9	3	49	24	26	24	14	14	21	35	11	9
Nevada	44	47	16	2	2	2	5	5	6	15	5	3	8	20	2	0
New Hampshire	58	35	17	11	9	0	23	15	2	2	5	5	2	2	0	0
New Jersey	531	409	129	50	118	41	64	79	67	73	81	97	31	43	41	26
New Mexico	144	118	37	12	25	8	19	12	17	15	14	29	21	38	11	4
New York	1,852	1,564	374	106	281	55	364	298	326	385	297	349	124	277	86	94
North Carolina	613	492	113	53	119	36	158	143	67	78	84	86	46	85	26	11
North Dakota	30	36	10	2	2	0	9	7	3	10	3	3	3	14	0	0
Ohio	984	713	178	59	243	40	185	166	101	137	119	107	98	170	60	34
Oklahoma	247	179	34	7	42	7	46	35	35	29	21	22	58	67	11	12
Oregon	220	159	49	19	23	5	63	39	32	32	21	17	21	40	11	7
Pennsylvania	1,182	935	215	69	283	57	198	170	141	192	143	150	119	239	83	58
Puerto Rico	44	107	7	5	1	1	13	17	9	44	2	6	12	34	0	0
Rhode Island	126	99	35	17	23	3	12	15	26	31	24	28	1	3	5	2
South Carolina	210	179	37	8	41	9	48	51	21	30	19	21	26	48	18	12
South Dakota	43	52	4	1	0	0	9	5	3	10	0	2	27	34	0	0
Tennessee	357	301	56	18	49	10	81	73	52	60	30	24	65	98	24	18
Texas	1,506	1,174	287	96	324	53	269	269	176	209	197	199	170	284	83	64
Utah	229	119	59	14	45	2	51	32	32	24	10	14	25	26	7	7
Vermont	27	35	7	0	4	2	11	16	2	10	0	2	3	5	0	0
Virginia	542	426	104	44	146	23	80	93	83	79	38	31	68	136	23	20
Washington	389	269	85	27	66	15	100	87	63	49	34	43	25	35	16	13
West Virginia	74	54	9	2	11	4	11	7	13	10	10	4	19	27	1	0
Wisconsin	503	332	102	23	104	7	81	94	75	61	80	62	29	65	32	20
Wyoming	41	29	9	1	2	0	10	4	4	8	0	0	16	16	0	0

NOTE: Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates.

<sup>a</sup> Totals exclude doctorate recipients whose gender was unknown (total is 74).

<sup>b</sup> Includes mathematics and computer sciences.

<sup>c</sup> Includes the 50 states, District of Columbia, and Puerto Rico.

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

APPENDIX TABLE A-7. Institutions Granting Doctorates, by Major Field, 2001

	2001 Total	Physics & Astronomy	Chemistry	Earth, Atmos., & Marine Sci.	Math & Computer Sci.	Engineering	Biosciences	Health Sciences	Agricultural Sciences	Psychology	Other Social Sciences	History	American Lang. & Lit.	English Lang. & Lit.	Other Humanities	Education	Professional/ Other Fields
TOTAL ALL INSTITUTIONS	40,744	1,379	1,979	780	1,832	5,502	5,678	1,613	1,005	3,433	3,392	1,024	383	594	3,588	6,324	2,238
ALABAMA	482	13	21	6	19	61	92	33	19	33	18	7	0	5	15	111	29
Auburn University-Main Campus	153	1	7	0	14	25	16	7	19	11	9	5	0	3	0	32	4
United States Sports Academy	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	1
Univ of Alabama-Birmingham	120	0	4	0	2	10	61	22	0	7	1	0	0	0	0	13	0
Univ of Alabama-Huntsville	29	7	2	2	1	16	1	0	0	0	0	0	0	0	0	0	0
Univ of Alabama	164	5	8	3	2	10	11	4	0	15	8	2	0	2	15	55	24
Univ of South Alabama	8	0	0	1	0	0	3	0	0	0	0	0	0	0	0	4	0
ALASKA	27	2	1	7	0	2	12	0	1	0	1	0	0	0	1	0	0
Univ of Alaska-Fairbanks	27	2	1	7	0	2	12	0	1	0	1	0	0	0	1	0	0
ARIZONA	675	32	25	37	14	101	70	16	19	42	50	17	7	9	62	128	46
Arizona State Univ-Main Campus	274	5	10	5	4	61	16	5	0	22	21	9	3	4	22	63	24
Northern Arizona Univ	40	0	0	0	0	0	6	0	6	0	2	1	0	0	3	22	0
Univ of Arizona	361	27	15	32	10	40	48	11	13	20	27	7	4	5	37	43	22
ARKANSAS	138	4	1	0	2	5	24	7	13	11	2	3	1	1	3	51	10
Univ of Arkansas-Fayetteville	90	4	1	0	2	5	6	4	13	11	2	3	1	1	3	24	10
Univ of Arkansas-Little Rock	28	0	0	0	0	0	1	0	0	0	0	0	0	0	0	27	0
Univ of Arkansas for Med Sci	20	0	0	0	0	0	17	3	0	0	0	0	0	0	0	0	0
CALIFORNIA	4,824	207	257	115	246	718	683	193	48	551	462	122	34	59	450	476	203
Azusa Pacific University	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Biola University	20	0	0	0	0	0	0	0	0	7	0	0	0	0	0	10	3
California Inst of Integral Studies	37	0	0	0	0	0	0	0	0	15	16	0	0	0	6	0	0
California Inst of Technology	159	26	30	13	8	64	12	0	0	6	0	0	0	0	0	0	0
Calif Sch Prof Psych-Alameda	51	0	0	0	0	0	0	0	0	51	0	0	0	0	0	0	0
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	33	0	0	0	0	0	0	0	0	33	0	0	0	0	0	0	0
Calif Sch Prof Psych-San Diego	49	0	0	0	0	0	0	0	0	49	0	0	0	0	0	0	0
Claremont Graduate Univ	97	0	0	0	3	0	4	0	0	16	18	5	1	2	17	23	8
Claremont School of Theology	8	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	4
Fielding Graduate Institute	111	0	0	0	0	0	0	3	0	47	10	0	0	0	0	29	22
Fuller Theological Seminary in California	53	0	0	0	0	0	0	0	0	17	1	1	0	0	13	0	21
Graduate Theological Union	24	0	0	0	0	0	0	0	1	1	1	0	0	0	17	1	3
La Sierra Univ	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0
Loma Linda Univ	30	0	0	0	0	0	15	7	0	8	0	0	0	0	0	0	0
Naval Postgraduate School	9	1	0	2	2	4	0	0	0	0	0	0	0	0	0	0	0
Pacific Grad School of Psychology	40	0	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0
Pepperdine Univ	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	0
Rand Grad Schl of Policy Studies	4	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
Scripps Research Institute	23	0	10	0	0	0	13	0	0	0	0	0	0	0	0	0	0
San Diego State Univ	22	1	1	0	0	0	4	0	0	7	1	0	0	0	0	8	0
Santa Clara University	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Saybrook Grad School and Research Ctr	26	0	0	0	0	0	0	3	0	21	0	0	0	0	0	1	1
Stanford University	547	37	24	20	37	168	70	1	2	17	57	12	5	8	42	23	24
United States International Univ	22	0	0	0	0	0	0	0	0	10	1	0	0	0	0	6	5
Univ of California-Berkeley	751	42	57	8	61	150	96	26	9	18	92	21	6	12	81	39	33
Univ of California-Davis	332	18	17	4	18	60	102	9	32	7	17	7	1	1	17	22	0
Univ of California-Irvine	187	4	21	6	16	24	30	3	0	12	25	9	2	5	17	5	8
Univ of California-Los Angeles	609	26	26	16	36	83	96	24	0	36	74	34	5	12	75	49	17
Univ of California-Riverside	94	8	13	1	1	1	21	0	5	9	13	4	4	6	4	4	0
Univ of California-San Diego	267	11	12	19	21	29	80	0	0	15	31	9	3	3	28	0	6
Univ of California-San Francisco	92	0	10	0	1	6	56	17	0	0	2	0	0	0	0	0	0
Univ of California-Santa Barbara	259	15	12	10	12	58	23	0	0	21	35	7	2	2	44	18	0
Univ of California-Santa Cruz	104	11	8	14	8	2	15	0	0	9	13	9	3	1	11	0	0
Univ of La Verne	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	0
Univ of the Pacific	19	0	3	0	0	0	1	3	0	0	0	0	0	0	0	12	0
Univ of San Diego	19	0	0	0	0	0	0	3	0	0	0	0	0	0	0	16	0
Univ of San Francisco	76	0	0	0	0	0	0	0	0	9	0	0	0	0	0	67	0
Univ of Southern California	529	7	13	2	22	68	45	94	0	22	45	3	2	7	74	77	48
The Wright Institute	17	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0
COLORADO	707	22	27	30	44	123	102	29	23	52	62	3	3	3	41	107	36
Colorado School of Mines	42	4	0	7	1	29	0	0	0	0	1	0	0	0	0	0	0
Colorado State Univ	157	3	13	5	11	20	34	4	22	17	8	0	0	0	0	19	1
Colorado Technical Univ	13	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	8
Univ of Colorado-Boulder	287	15	13	17	21	69	32	8	1	14	38	3	2	1	32	10	11
Univ of Colorado-Colorado Springs	3	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
Univ of Colorado-Denver	28	0	0	0	2	2	0	4	0	0	0	0	0	0	0	18	2
Univ of Colorado-Health Sci Center	40	0	0	0	0	0	31	9	0	0	0	0	0	0	0	0	0
Univ of Denver	68	0	0	1	0	0	3	0	0	17	13	0	1	2	2	15	14
Univ of Northern Colorado	69	0	1	0	4	0	2	4	0	4	2	0	0	0	7	45	0

APPENDIX TABLE A-7. Institutions Granting Doctorates, by Major Field, 2001, continued

	2001 Total	Physics & Astronomy	Chemistry	Earth, Atmos., & Marine Sci.	Math & Computer Sci.	Engineering	Biosciences	Health Sciences	Agricultural Sciences	Psychology	Other Social Sciences	History	American Lang. & Lit.	English Lang. & Lit.	Other Humanities	Education	Professional/ Other Fields
CONNECTICUT	569	22	37	6	22	34	108	17	15	38	69	26	6	13	98	34	24
Univ of Connecticut	237	5	19	2	11	23	35	11	8	21	28	5	2	5	13	34	15
Univ of New Haven	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Wesleyan Univ	17	0	2	0	2	0	10	0	0	0	0	0	0	0	3	0	0
Yale Univ	311	17	16	4	9	11	63	6	7	17	41	21	4	8	82	0	5
DELAWARE	191	4	9	14	9	38	12	0	7	14	18	5	2	5	8	45	1
Univ of Delaware	162	4	9	14	9	38	12	0	7	14	18	5	2	5	8	16	1
Wilmington College	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	0
DISTRICT OF COLUMBIA	494	11	19	1	29	41	54	11	0	52	71	20	2	4	60	64	55
American Univ	67	3	5	0	3	1	0	0	0	12	26	4	0	0	0	10	3
Catholic Univ of America	89	3	0	0	0	7	2	9	0	6	5	3	0	1	38	2	13
Gallaudet Univ	12	0	0	0	0	0	0	0	0	7	0	0	0	0	0	5	0
George Washington Univ	174	2	3	1	23	29	18	1	0	16	8	2	1	2	5	44	19
Georgetown Univ	70	0	6	0	1	0	21	0	0	16	8	0	0	0	17	0	1
Howard Univ	82	3	5	0	2	4	13	1	0	11	16	3	1	1	0	3	19
FLORIDA	1,761	39	53	31	77	180	124	67	35	153	76	15	7	14	72	640	178
Argosy University-Sarasota	118	0	0	0	0	0	0	0	0	5	0	0	0	0	0	94	19
Barry Univ	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2
Florida A&M Univ	8	0	1	0	0	2	2	3	0	0	0	0	0	0	0	0	0
Florida Atlantic Univ-Boca Raton	34	1	0	0	1	11	3	0	0	2	0	0	0	0	0	5	11
Florida Inst of Technology-Melbourne	17	0	1	2	6	5	0	0	0	0	0	0	0	0	0	3	0
Florida International Univ	69	0	0	4	4	5	9	0	0	11	14	1	0	0	0	18	3
Florida State Univ	258	9	10	11	10	4	15	4	1	26	19	8	4	4	43	63	27
Lynn University	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0
Nova Southeastern Univ	469	0	0	0	23	0	0	18	0	27	1	0	0	0	2	314	84
Univ of West Florida	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	0
Univ of Central Florida	89	6	0	0	7	36	0	0	0	5	0	0	0	0	0	35	0
Univ of Florida	417	20	30	2	17	91	56	26	33	33	30	4	2	5	9	36	23
Univ of Miami	91	3	4	5	0	11	15	4	0	17	7	2	0	2	12	8	1
Univ of South Florida	151	0	7	7	9	15	24	12	1	27	5	0	1	3	6	26	8
GEORGIA	970	22	48	8	43	184	135	35	24	77	63	17	11	14	66	178	45
Clark Atlanta Univ	29	0	0	0	0	0	1	0	0	2	8	0	0	1	2	9	6
Emory University	164	0	16	0	7	0	51	4	0	10	15	10	5	4	38	4	0
Georgia Inst of Technology-Main Campus	255	11	14	1	24	178	6	0	0	8	3	1	0	0	0	9	0
Georgia Southern Univ	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0
Georgia State Univ	134	2	3	0	2	0	13	9	0	22	15	2	0	6	1	53	6
Institute of Paper Sci & Tech	8	0	0	0	0	2	0	0	6	0	0	0	0	0	0	0	0
Medical College of Georgia	13	0	0	0	0	0	9	4	0	0	0	0	0	0	0	0	0
Mercer University	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Morehouse School of Medicine	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Univ of Georgia	352	9	14	7	10	4	54	18	18	35	22	4	6	3	25	99	24
Valdosta State Univ	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
HAWAII	144	9	1	6	2	8	24	4	5	11	25	2	0	0	33	11	3
Univ of Hawaii at Manoa	144	9	1	6	2	8	24	4	5	11	25	2	0	0	33	11	3
IDAHO	86	1	1	1	3	11	16	3	10	4	4	1	0	0	0	31	0
Idaho State Univ	23	0	0	0	2	1	6	2	0	4	3	0	0	0	0	5	0
Univ of Idaho	63	1	1	1	1	10	10	1	10	0	1	1	0	0	0	26	0
ILLINOIS	2,119	76	131	14	108	305	258	64	47	165	203	80	20	30	205	285	128
Benedictine Univ	15	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	14
Chicago Theological Seminary	7	0	0	0	0	0	0	0	0	0	0	1	0	0	3	0	3
DePaul Univ	12	0	0	0	0	0	0	0	0	10	0	0	0	0	2	0	0
Finch Univ of Hlth Sci-Chicago Med Sch	24	0	0	0	0	0	11	0	0	13	0	0	0	0	0	0	0
Illinois Inst of Technology	57	3	3	0	13	20	3	0	0	8	0	0	0	0	0	0	7
Illinois State Univ	30	0	0	0	0	0	2	0	0	2	0	4	0	1	1	20	0
Inst for Clinical Social Work	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Loyola Univ of Chicago	118	0	8	0	0	0	16	4	0	22	6	1	4	0	3	50	4
Lutheran School of Theol-Chicago	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
National-Louis Univ	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0
Northern Illinois Univ	93	0	3	0	5	0	0	0	0	8	5	4	2	3	0	62	1
Northwestern Univ	350	5	23	2	16	98	54	3	0	23	36	11	1	3	49	9	17
Roosevelt Univ	11	0	0	0	0	0	0	0	0	3	0	0	0	0	0	8	0
Rush Univ	21	2	0	0	0	0	12	7	0	0	0	0	0	0	0	0	0
Southern Il Univ-Carbondale	120	0	2	0	0	2	13	5	1	17	12	2	1	2	15	30	18
Southern Il Univ-Edwardsville	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Univ of Chicago	370	24	19	7	18	0	59	1	0	9	90	34	8	5	67	10	19
Univ of Illinois-Chicago	198	3	25	1	11	25	33	24	0	13	16	8	1	6	6	15	11
Univ of Illinois-Urbana	673	39	48	4	45	160	55	20	46	37	37	15	3	10	58	68	28

APPENDIX TABLE A-7. Institutions Granting Doctorates, by Major Field, 2001, continued

	2001 Total	Physics & Astronomy	Chemistry	Earth, Atmos., & Marine Sci.	Math & Computer Sci.	Engineering	Biosciences	Health Sciences	Agricultural Sciences	Psychology	Other Social Sciences	History	American Lang. & Lit.	English Lang. & Lit.	Other Humanities	Education	Professional/ Other Fields
INDIANA	1,121	29	78	16	38	160	119	32	36	77	87	37	9	29	164	155	55
Ball State Univ	43	0	0	0	0	0	0	0	0	11	0	0	1	1	9	21	0
Indiana State Univ	44	0	0	0	0	0	4	0	0	11	3	0	0	0	0	26	0
Indiana Univ-Bloomington	430	9	16	11	11	0	54	9	0	23	42	23	2	13	105	82	30
Indiana Univ-Purdue Univ-Indianapolis	4	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
Purdue Univ-Main Campus	469	11	50	3	23	140	44	19	36	23	20	3	6	12	34	26	19
Univ of Notre Dame	131	9	12	2	4	20	17	0	0	9	22	11	0	3	16	0	6
IOWA	588	11	38	5	22	86	90	29	21	45	46	6	5	9	52	93	30
Drake Univ	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0
Iowa State Univ	232	8	25	2	7	53	36	1	21	24	18	4	0	0	2	28	3
Maharishi Univ of Management	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Univ of Iowa	334	3	13	3	15	23	54	28	0	20	28	2	5	9	50	54	27
Univ of Northern Iowa	12	0	0	0	0	10	0	0	0	0	0	0	0	0	0	2	0
KANSAS	425	9	30	2	14	49	41	22	33	44	27	8	2	3	43	84	14
Kansas State University	145	5	7	0	7	22	17	1	33	6	13	2	0	0	0	27	5
University of Kansas	248	4	21	2	5	15	24	18	0	31	14	6	2	3	43	51	9
Wichita State University	32	0	2	0	2	12	0	3	0	7	0	0	0	0	0	6	0
KENTUCKY	336	5	9	0	13	15	45	11	22	30	32	9	5	0	32	68	40
Asbury Theological Seminary	4	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	1
Southern Bapt Theol Seminary	41	0	0	0	0	0	0	0	0	0	0	1	0	0	13	14	13
Spalding Univ	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0
Univ of Kentucky	219	5	7	0	13	11	34	10	21	15	28	8	5	0	9	28	25
Univ of Louisville	65	0	2	0	0	4	11	1	1	15	4	0	0	0	7	19	1
LOUISIANA	578	15	41	15	30	47	82	34	22	37	41	14	12	15	47	79	47
Grambling State University	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0
Louisiana State University & A&M College	263	9	30	12	14	23	18	8	22	19	15	7	5	7	18	42	14
Louisiana State University-Health Sci Center	20	0	0	0	0	0	13	7	0	0	0	0	0	0	0	0	0
Louisiana State University-Shreveport	18	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0
Louisiana Tech University	28	0	1	0	4	8	0	0	0	3	0	0	0	0	0	3	9
New Orleans Bapt Theol Seminary	24	0	0	0	0	0	0	0	0	4	0	0	0	0	3	1	16
Northwestern State Univ of Louisiana	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
University of Louisiana-Monroe	10	0	1	0	0	0	1	2	0	2	0	0	0	0	0	4	0
Southern University and A&M College	4	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	1
Tulane University of Louisiana	119	5	7	1	2	11	22	16	0	5	14	6	5	2	17	1	5
University of New Orleans	45	1	2	1	0	3	0	1	0	4	9	1	0	0	0	21	2
University of Louisiana-Lafayette	40	0	0	1	10	2	10	0	0	0	0	0	2	6	9	0	0
MAINE	41	3	3	1	3	6	4	1	7	3	0	4	0	0	0	6	0
Univ of Maine	41	3	3	1	3	6	4	1	7	3	0	4	0	0	0	6	0
MARYLAND	939	41	21	17	56	152	190	110	16	56	106	26	9	9	71	38	21
Johns Hopkins Univ	366	7	8	5	12	45	111	78	0	5	48	21	3	4	19	0	0
Loyola College	8	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	3
Morgan State Univ	3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0
Peabody Inst of Johns Hopkins Univ	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0
Uniformed Svcs. Univ of Hlth Sci	13	0	0	0	0	0	11	1	0	1	0	0	0	0	0	0	0
Univ of Maryland-Baltimore County	48	2	2	0	6	14	7	0	0	12	5	0	0	0	0	0	0
Univ of Maryland-College Park	421	32	7	12	38	93	27	6	16	33	52	4	6	5	44	36	10
Univ of Maryland-Baltimore	72	0	4	0	0	0	34	25	0	0	0	0	0	0	0	0	8
MASSACHUSETTS	2,106	116	109	40	90	351	344	95	14	93	258	66	20	26	194	179	111
American Internatl College	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0
Boston College	108	2	6	0	0	0	8	7	0	11	22	10	1	1	12	20	8
Boston Univ	300	11	11	4	17	25	61	16	0	18	33	1	1	2	50	37	13
Brandeis Univ	96	6	6	0	5	0	23	1	0	2	28	10	1	5	8	0	1
Clark Univ	40	0	2	0	0	0	4	0	0	13	19	0	0	0	1	1	0
Harvard Univ	508	27	19	8	17	13	103	43	0	14	72	34	5	5	67	47	34
Mass Coll Pharm & Allied Health Sci	2	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Mass Inst of Technology	492	48	26	21	24	226	55	8	0	1	35	2	0	0	20	1	25
New England Conserv of Music	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0
Northeastern Univ	70	5	10	0	6	19	4	0	0	4	16	2	3	0	0	0	1
Simmons College	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Smith College	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Springfield College	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Suffolk University	88	4	5	0	3	2	39	1	0	6	10	1	4	4	9	0	0
Tufts Univ	4	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
Univ of Massachusetts-Amherst	261	8	18	3	14	32	26	11	14	15	22	6	5	9	19	42	17
Univ of Massachusetts-Boston	23	0	0	3	0	0	0	6	0	5	0	0	0	0	0	9	0
Univ of Massachusetts-Lowell	50	4	5	1	3	19	1	1	0	0	1	0	0	0	0	15	0
Univ of Massachusetts Med Sch-Worcester	20	0	0	0	0	1	19	0	0	0	0	0	0	0	0	0	0
Worcester Polytechnic Inst	17	1	0	0	1	14	1	0	0	0	0	0	0	0	0	0	0

APPENDIX TABLE A-7. Institutions Granting Doctorates, by Major Field, 2001, continued

	2001 Total	Physics & Astronomy	Chemistry	Earth, Atmos., & Marine Sci.	Math & Computer Sci.	Engineering	Biosciences	Health Sciences	Agricultural Sciences	Psychology	Other Social Sciences	History	American Lang. & Lit.	English Lang. & Lit.	Other Humanities	Education	Professional/ Other Fields
MICHIGAN	1,343	46	68	10	67	259	155	54	39	119	121	26	6	20	103	178	72
Andrews Univ	25	0	0	0	0	0	0	0	0	6	0	0	0	0	5	12	2
Calvin College	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Central Michigan Univ	9	0	0	0	2	0	0	0	0	5	0	0	0	0	0	2	0
Eastern Michigan Univ	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Michigan State Univ	403	12	22	2	23	43	43	9	32	31	43	6	1	11	27	59	39
Michigan Tech Univ	21	2	2	1	1	5	1	0	5	0	0	0	0	0	3	0	1
Oakland Univ	17	0	0	0	1	8	1	0	0	0	0	0	0	0	0	7	0
Univ of Detroit Mercy	9	0	0	0	0	2	0	0	0	7	0	0	0	0	0	0	0
Univ of Michigan	565	22	27	7	29	166	58	40	2	26	58	18	4	4	58	29	17
Wayne State Univ	236	8	16	0	10	33	52	5	0	30	14	0	0	2	8	47	11
Western Michigan Univ	55	2	1	0	1	2	0	0	0	14	6	2	1	3	1	20	2
M NNESOTA	784	12	27	10	29	111	107	51	29	67	50	17	4	5	79	129	57
Hamline Univ	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Luther Seminary	7	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	2
Mayo Graduate School	25	1	0	0	0	3	21	0	0	0	0	0	0	0	0	0	0
Saint Mary's Univ of Minnesota	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0
Univ of Minnesota-Twin Cities	633	11	27	9	28	108	86	42	29	37	47	17	4	5	73	87	23
Univ of St Thomas	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0
Walden University	97	0	0	1	1	0	0	9	0	30	3	0	0	0	1	22	30
MISSISSIPPI	338	3	20	5	7	20	26	13	19	19	9	10	10	4	34	117	22
Delta State Univ	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Jackson State Univ	15	0	0	0	0	0	0	0	0	0	1	0	0	0	0	13	1
Mississippi State Univ	100	0	4	1	3	13	9	0	18	1	5	4	0	0	17	19	6
Reformed Theological Seminary	8	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	6
Univ of Mississippi-Main Campus	92	2	7	0	2	6	6	8	0	5	2	6	7	3	4	30	4
Univ of Mississippi-Med Ctr	10	0	0	0	0	0	6	4	0	0	0	0	0	0	0	0	0
Univ of Southern Mississippi	111	1	9	4	2	1	5	1	1	13	1	0	3	1	11	53	5
MISSOURI	739	17	38	7	20	70	132	26	26	64	58	14	7	9	63	142	46
Concordia Seminary	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
St. Louis Univ-Main Campus	145	0	0	2	1	0	11	12	0	17	8	4	3	3	12	57	15
Univ of Missouri-Columbia	277	4	14	1	7	14	50	3	26	25	4	1	3	13	67	19	19
Univ of Missouri-Kansas City	75	2	6	0	4	0	7	4	0	11	3	4	0	0	22	10	2
Univ of Missouri-Rolla	42	3	5	1	2	31	0	0	0	0	0	0	0	0	0	0	0
Univ of Missouri-St Louis	30	0	4	0	0	0	6	4	0	3	5	0	0	0	0	8	0
Washington Univ	169	8	9	3	6	25	58	3	0	7	17	2	3	3	16	0	9
MONTANA	58	5	4	2	6	2	10	0	5	7	1	0	0	0	0	16	0
Montana State Univ	31	5	4	0	6	2	3	0	1	0	1	0	0	0	0	9	0
Univ of Montana	27	0	0	2	0	0	7	0	4	7	0	0	0	0	0	7	0
NEBRASKA	274	3	9	5	18	12	37	7	29	32	18	6	3	6	13	56	20
Creighton Univ	5	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0
Univ of Nebraska-Lincoln	235	3	8	5	18	12	14	3	29	32	15	6	3	6	13	49	19
Univ of Nebraska-Med Center	23	0	1	0	0	0	18	4	0	0	0	0	0	0	0	0	0
Univ of Nebraska-Omaha	11	0	0	0	0	0	0	0	0	0	3	0	0	0	0	7	1
NEVADA	92	6	5	7	0	4	9	2	0	18	3	2	0	3	3	28	2
Univ of Nevada-Las Vegas	32	3	0	1	0	3	0	0	0	2	1	1	0	1	0	19	2
Univ of Nevada-Reno	60	3	5	6	0	1	9	2	0	18	1	1	0	2	3	9	0
NEW HAMPSH RE	93	9	9	6	4	9	30	3	5	3	1	6	1	1	2	4	0
Dartmouth College	50	5	5	2	4	6	24	3	0	1	0	0	0	0	0	0	0
Univ of New Hampshire-Main Campus	43	4	4	4	0	3	6	0	5	2	1	6	1	1	2	4	0
NEW JERSEY	941	52	42	26	59	159	121	15	8	50	90	42	6	11	119	74	67
Drew Univ	33	0	0	0	0	0	0	0	0	1	0	3	1	1	23	0	4
Fairleigh Dickinson Univ-All Campuses	13	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0
New Jersey Inst of Technology	61	5	0	4	10	42	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	6	0	13
Princeton University	267	33	12	3	22	45	32	1	0	3	42	23	0	4	45	0	2
Rutgers Univ-New Brunswick	371	9	17	19	21	59	48	6	8	18	44	15	5	6	45	33	18
Rutgers Univ-Newark	53	0	3	0	3	0	9	8	0	1	4	0	0	0	0	1	24
Seton Hall Univ	63	0	9	0	0	0	1	0	0	13	0	0	0	0	0	40	0
Stevens Inst of Technology	29	5	1	0	3	13	0	0	0	1	0	0	0	0	0	0	6
Univ of Med & Dent of NJ	31	0	0	0	0	0	31	0	0	0	0	0	0	0	0	0	0
NEW MEXICO	263	16	14	8	11	34	15	6	10	16	16	8	7	5	23	59	15
New Mexico Inst of Mining & Tech	12	0	4	5	0	3	0	0	0	0	0	0	0	0	0	0	0
New Mexico State Univ-Main Campus	78	5	2	2	4	16	4	0	10	3	0	0	0	1	4	20	7
Univ of New Mexico-Main Campus	173	11	8	1	7	15	11	6	0	13	16	8	7	4	19	39	8

APPENDIX TABLE A-7. Institutions Granting Doctorates, by Major Field, 2001, continued

	2001 Total	Physics & Astronomy	Chemistry	Earth, Atmos., & Marine Sci.	Math & Computer Sci.	Engineering	Biosciences	Health Sciences	Agricultural Sciences	Psychology	Other Social Sciences	History	American Lang. & Lit.	English Lang. & Lit.	Other Humanities	Education	Professional/ Other Fields
NEW YORK	3,420	108	142	59	172	338	536	73	54	345	366	113	56	72	405	401	180
Adelphi Univ	35	0	0	0	0	0	0	6	0	25	0	0	0	0	0	0	4
Albany Medical College	11	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0
Alfred Univ	11	0	0	0	0	4	0	0	0	5	0	0	0	0	0	2	0
CUNY Grad School & Univ Center	249	5	13	3	11	16	24	5	0	44	37	8	6	10	48	7	12
Clarkson Univ	21	0	2	0	1	16	2	0	0	0	0	0	0	0	0	0	0
Columbia Univ	407	15	18	12	19	41	68	13	0	8	63	33	9	11	69	0	28
Columbia Univ -Teachers College	194	0	0	1	0	0	1	1	0	24	3	0	0	1	2	161	0
Cornell Univ	417	19	27	10	31	71	73	5	47	6	48	13	4	6	27	12	18
Cornell Univ Medical Campus	33	0	0	0	0	0	33	0	0	0	0	0	0	0	0	0	0
Fordham University	111	0	0	0	0	0	0	0	0	38	14	3	4	2	10	27	13
Hebrew Union College	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Hofstra Univ	41	0	0	0	0	0	0	0	0	31	0	0	0	0	0	10	0
Jewish Theol Sem of America	4	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0
The Juilliard School	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0
Long Island Univ-Brooklyn Campus	14	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0
Long Island Univ-C.W. Post Campus	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Mount Sinai School of Medicine	21	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0
New School University	50	0	0	0	0	0	0	0	0	21	23	0	0	0	6	0	0
New York Medical College	12	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0
New York Univ	358	6	4	1	28	0	39	18	0	23	42	18	5	12	78	38	46
Pace Univ-New York	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Polytechnic Univ	38	2	13	0	5	18	0	0	0	0	0	0	0	0	0	0	0
Rensselaer Polytechnic Inst	100	8	6	1	14	56	2	1	0	0	6	0	0	0	2	0	4
Rochester Institute of Technology	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Rockefeller Univ	15	1	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0
St Johns Univ-Queens	45	0	0	0	0	0	4	1	0	14	0	2	1	0	1	22	0
SUNY-Albany	150	8	1	8	6	3	15	3	0	17	26	1	6	2	13	27	14
SUNY-Binghamton	118	0	7	2	11	7	10	0	0	10	20	11	3	6	26	3	2
SUNY-Buffalo	292	9	29	2	8	46	46	8	0	19	12	6	12	8	29	52	6
SUNY-Stony Brook	228	16	6	17	23	22	51	1	0	12	24	9	4	7	35	1	0
SUNY Coll-Environ Sci & Forestry	16	0	1	2	0	1	5	0	7	0	0	0	0	0	0	0	0
SUNY College of Optometry	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
SUNY-Hlth Sci Ctr-Brooklyn	6	0	0	0	0	0	4	1	0	0	0	0	0	0	0	0	1
SUNY-Hlth Sci Ctr-Syracuse	8	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0
Syracuse Univ	129	4	7	0	9	13	7	1	0	12	27	4	0	1	10	24	10
Union Theol Seminary	14	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	8
Univ of Rochester	195	15	8	0	5	23	45	7	0	12	21	5	2	6	30	13	3
Yeshiva Univ	59	0	0	0	0	0	41	0	0	10	0	0	0	0	0	1	7
NORTH CAROLINA	1,106	17	66	24	59	155	220	45	36	69	76	32	15	24	99	131	38
Appalachian State Univ	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Duke Univ	251	5	17	6	11	37	72	0	0	8	20	16	2	7	45	2	3
East Carolina Univ	15	0	0	0	0	0	6	0	0	0	0	0	0	0	0	9	0
Fayetteville State Univ	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0
North Carolina A & T St Univ	6	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0
North Carolina St U-Raleigh	306	8	10	11	29	88	43	1	36	18	11	0	0	0	0	47	4
Southeastern Baptist Theological Seminary	4	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	1
Univ of N Carolina-Chapel Hill	397	4	38	7	17	12	74	40	0	31	45	16	9	14	42	20	28
Univ of N Carolina-Charlotte	24	0	0	0	2	9	1	0	0	0	0	0	0	0	0	11	1
Univ of N Carolina-Greensboro	69	0	0	0	0	0	3	4	0	12	0	0	4	3	9	33	1
Wake Forest University	25	0	1	0	0	3	21	0	0	0	0	0	0	0	0	0	0
NORTH DAKOTA	66	0	8	1	3	2	9	0	7	13	0	2	0	3	1	17	0
North Dakota State Univ-Main Campus	22	0	6	0	3	1	5	0	7	0	0	0	0	0	0	0	0
Univ of North Dakota-Main Campus	44	0	2	1	0	1	4	0	0	13	0	2	0	3	1	17	0
OHIO	1,697	74	87	30	46	283	240	78	33	154	84	49	20	20	137	268	94
Air Force Inst of Tech	8	1	0	0	1	6	0	0	0	0	0	0	0	0	0	0	0
Bowling Green State Univ-Main Campus	100	0	4	0	4	0	4	0	0	17	4	8	2	4	29	16	8
Case Western Reserve Univ	195	6	15	2	2	47	45	25	0	8	9	4	1	3	6	0	22
Cleveland State Univ	36	0	4	0	2	10	8	0	0	1	1	0	0	0	0	7	3
Hebrew Union College-Jewish Inst of Religion	3	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0
Kent State Univ-Main Campus	119	11	2	1	7	0	12	5	0	17	9	4	3	2	4	34	8
Medical College of Ohio	12	0	0	0	0	0	11	1	0	0	0	0	0	0	0	0	0
Miami Univ-Oxford	47	0	3	0	0	0	12	0	0	6	3	4	4	1	3	10	1
Ohio State Univ-Main Campus	591	31	23	23	24	90	84	26	33	37	42	21	3	3	54	78	19
Ohio Univ-Main Campus	105	6	3	0	2	6	7	0	0	13	0	4	1	1	6	38	18
Univ of Akron-Main Campus	120	10	15	0	1	42	3	0	0	21	4	1	0	0	0	20	3
Univ of Cincinnati-Main Campus	249	4	15	4	3	53	39	17	0	23	12	2	4	3	33	29	8
Univ of Dayton	28	3	0	0	0	12	1	0	0	0	0	0	0	0	0	12	0
Univ of Toledo	77	2	3	0	0	16	10	4	0	11	0	0	2	3	0	22	4
Wright State Univ-Main Campus	5	0	0	0	0	1	4	0	0	0	0	0	0	0	0	0	0
Youngstown State Univ	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0

APPENDIX TABLE A-7. Institutions Granting Doctorates, by Major Field, 2001, continued

	2001 Total	Physics & Astronomy	Chemistry	Earth, Atmos., & Marine Sci.	Math & Computer Sci.	Engineering	Biosciences	Health Sciences	Agricultural Sciences	Psychology	Other Social Sciences	History	American Lang. & Lit.	English Lang. & Lit.	Other Humanities	Education	Professional/ Other Fields
OKLAHOMA	427	7	12	10	12	50	44	3	34	35	29	8	9	6	20	125	23
Oklahoma State Univ-Main Campus	228	2	6	2	4	16	20	1	34	16	7	3	5	0	4	99	9
Univ of Oklahoma-Norman Campus	176	5	6	7	6	25	23	2	0	11	22	5	4	5	15	26	14
Univ of Tulsa	23	0	0	1	2	9	1	0	0	8	0	0	0	1	1	0	0
OREGON	383	15	17	22	14	28	65	12	28	24	41	4	3	5	26	61	18
Oregon Graduate Inst of Sci & Eng	10	0	0	1	2	4	3	0	0	0	0	0	0	0	0	0	0
Oregon Health & Science Univ	21	0	0	3	0	0	9	3	0	1	0	0	0	0	5	0	0
Oregon State Univ	159	7	13	11	5	18	36	6	28	3	7	0	0	0	0	23	2
Portland State Univ	38	0	0	2	3	6	2	1	0	2	8	0	0	0	0	6	8
Univ of Oregon	155	8	4	5	4	0	15	2	0	18	26	4	3	5	21	32	8
PENNSYLVANIA	2,121	57	109	18	102	340	250	104	14	169	164	42	20	41	190	358	143
Bryn Mawr College	21	0	1	1	0	0	3	0	0	1	0	0	1	0	10	0	4
Carnegie Mellon Univ	175	10	8	1	31	78	4	0	0	5	15	4	0	0	8	1	10
Drexel Univ	51	0	7	2	0	19	3	0	0	8	5	0	0	0	0	3	4
Duquesne Univ	37	0	7	0	0	0	2	0	0	14	0	0	0	4	6	0	4
Indiana Univ of Pennsylvania	88	0	0	0	0	0	0	0	0	17	6	0	7	17	15	25	1
Lehigh Univ	101	9	6	2	3	41	5	0	0	9	0	1	2	6	0	15	2
Marywood Univ	5	0	0	0	0	0	0	0	0	2	1	0	0	0	0	2	0
MCP Hahnemann University	29	0	0	0	0	0	10	0	0	19	0	0	0	0	0	0	0
Pennsylvania State Univ-Main Campus	541	20	32	12	16	126	62	15	14	35	34	3	4	6	34	93	35
University of the Sciences in Philadelphia	10	0	3	0	0	0	1	6	0	0	0	0	0	0	0	0	0
Temple Univ	238	0	3	0	13	1	30	17	0	24	24	14	2	4	32	63	11
Thomas Jefferson Univ	13	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0
Univ of Pennsylvania	373	11	21	0	18	29	75	14	0	12	51	13	1	4	42	35	47
Univ of Pittsburgh-Main Campus	359	7	19	0	21	46	42	41	0	23	28	7	3	0	32	69	21
Villanova Univ	4	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0
Westminster Theol Seminary	13	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	4
Widener Univ-Main Campus	63	0	0	0	0	0	0	11	0	0	0	0	0	0	0	52	0
PUERTO RICO	151	0	12	0	0	2	27	0	3	53	0	4	0	0	4	46	0
Carlos Albizu University-San Juan Campus	36	0	0	0	0	0	0	0	0	36	0	0	0	0	0	0	0
Inter Amer Univ PR-Metro	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0
Univ of Puerto Rico-Mayaguez	7	0	0	0	0	2	2	0	3	0	0	0	0	0	0	0	0
Univ of Puerto Rico-Med Science Campus	10	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0
Univ of Puerto Rico-Rio Piedras	74	0	12	0	0	0	15	0	0	17	0	4	0	0	4	22	0
RHODE ISLAND	225	10	12	14	16	26	20	6	1	29	28	7	4	8	33	4	7
Brown Univ	135	9	8	6	11	13	15	2	0	5	25	5	2	7	27	0	0
Providence College	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
Salve Regina Univ	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0
Univ of Rhode Island	84	1	4	8	5	13	5	4	1	24	3	0	2	1	2	4	7
SOUTH CAROLINA	389	7	20	2	16	50	53	33	13	29	22	7	5	6	22	74	30
Clemson University	110	3	10	1	9	33	18	0	13	0	3	0	0	0	0	9	11
Medical Univ of South Carolina	23	0	0	0	0	0	21	2	0	0	0	0	0	0	0	0	0
South Carolina State Univ	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0
Univ of South Carolina	231	4	10	1	7	17	14	31	0	29	19	7	5	6	22	40	19
SOUTH DAKOTA	97	0	2	4	0	1	8	0	6	8	5	0	1	1	0	61	0
South Dakota Sch of Mines & Tech	4	0	0	3	0	1	0	0	0	0	0	0	0	0	0	0	0
South Dakota State Univ	19	0	2	1	0	0	5	0	6	0	5	0	0	0	0	0	0
Univ of South Dakota	74	0	0	0	0	0	3	0	0	8	0	0	1	1	0	61	0
TENNESSEE	659	22	27	2	23	60	123	27	4	75	37	3	3	5	43	163	42
East Tennessee State Univ	13	0	0	0	0	0	4	0	0	0	0	0	0	0	0	9	0
Meharry Medical College	15	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0
Mid-America Baptist Sem	4	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3
Middle Tennessee State Univ	16	0	1	0	0	0	0	2	0	0	1	0	2	3	0	7	0
Tennessee State Univ	52	0	0	0	0	0	0	0	0	10	0	0	0	0	0	39	3
Tennessee Technological Univ	5	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0
Univ of Memphis	92	0	4	0	10	4	4	3	0	20	0	0	0	0	9	26	12
Univ of Tennessee-Knoxville	238	13	9	2	8	32	27	11	4	30	23	1	1	2	6	47	22
Univ of Tennessee-Memphis	32	0	4	0	0	0	21	7	0	0	0	0	0	0	0	0	0
Vanderbilt Univ	192	9	9	0	5	19	52	4	0	15	13	2	0	0	27	35	2
TEXAS	2,683	78	119	69	117	378	356	114	69	219	166	57	30	49	261	454	147
Baylor College of Medicine	47	0	0	0	0	0	47	0	0	0	0	0	0	0	0	0	0
Baylor Univ	62	2	2	0	3	0	5	0	0	1	3	0	3	3	8	32	0
Dallas Theological Seminary	17	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	9
Lamar Univ-Beaumont	10	0	0	0	0	9	0	0	0	0	0	0	0	0	0	1	0
Rice Univ	128	11	13	5	18	20	2	0	0	9	11	6	7	3	23	0	0
St. Mary's Univ	6	0	0	0	0	0	0	0	2	0	0	0	0	0	0	4	0
Sam Houston State Univ	6	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0

APPENDIX TABLE A-7. Institutions Granting Doctorates, by Major Field, 2001, continued

	2001 Total	Physics & Astronomy	Chemistry	Earth, Atmos., & Marine Sci.	Math & Computer Sci.	Engineering	Biosciences	Health Sciences	Agricultural Sciences	Psychology	Other Social Sciences	History	American Lang. & Lit.	English Lang. & Lit.	Other Humanities	Education	Professional/ Other Fields
TEXAS, continued																	
Southern Methodist Univ	37	1	0	0	6	15	2	0	0	6	4	0	0	0	3	0	0
Southwestern Baptist Theol Sem	42	0	0	0	0	0	0	0	0	1	0	0	0	0	18	1	22
Southwest Texas State Univ	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Stephen F Austin St Univ	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
Texas A&M Univ-College Station	506	8	26	27	33	111	52	10	52	24	40	8	4	4	4	82	21
Texas A&M Univ-Commerce	42	0	0	0	0	0	0	0	0	10	0	0	0	1	0	31	0
Texas A&M Univ-Corpus Christi	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0
Texas A&M Univ-Kingsville	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Texas Christian Univ	21	2	5	0	0	0	0	0	0	6	0	4	1	3	0	0	0
Texas Southern Univ	20	0	0	0	0	0	1	0	0	0	0	0	0	0	0	19	0
Texas Tech Univ	139	0	7	2	3	15	10	0	14	27	5	6	1	3	11	28	7
Texas Tech Univ Health Sci Ctr	7	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0
Texas Woman's Univ	86	0	0	0	0	0	5	36	0	14	5	0	1	0	5	13	7
Univ of Dallas	10	0	0	0	0	0	0	0	0	0	3	0	0	1	6	0	0
Univ of Houston	202	7	15	4	7	25	11	3	0	21	6	6	2	12	13	65	5
Univ of North Texas	159	3	5	4	9	2	10	0	0	28	9	5	5	4	13	58	4
Univ of North Texas-Hlth Sci Ctr	18	0	0	0	0	0	17	1	0	0	0	0	0	0	0	0	0
University of St. Thomas	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
Univ of Texas-Arlington	90	2	3	0	10	21	2	0	0	3	5	5	1	1	23	3	11
Univ of Texas-Austin	732	34	34	12	21	143	49	30	0	53	60	17	5	13	115	95	51
Univ of Texas-Dallas	66	6	9	8	7	7	6	0	0	1	8	0	0	1	8	0	5
Univ of Texas-El Paso	27	0	0	5	0	10	0	0	0	3	0	0	0	0	0	9	0
Univ of Texas-Pan American	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5
Univ Tex-Hlth Sci Ctr-Houston	75	1	0	2	0	0	45	26	0	0	0	0	0	0	1	0	0
Univ Tex-Hlth Sci Ctr-San Antonio	35	0	0	0	0	0	30	5	0	0	0	0	0	0	0	0	0
Univ Tex-Med Branch-Galveston	27	0	0	0	0	0	24	3	0	0	0	0	0	0	0	0	0
Univ Tex-Southwestern Med Ctr	42	1	0	0	0	0	31	0	0	10	0	0	0	0	0	0	0
UTAH	348	19	30	8	16	47	55	23	5	39	17	2	0	5	17	51	14
Brigham Young Univ	79	2	8	0	2	10	8	5	1	21	1	1	0	0	5	15	0
Univ of Utah	204	14	19	8	9	30	35	18	0	8	10	1	0	5	12	22	13
Utah State Univ	65	3	3	0	5	7	12	0	4	10	6	0	0	0	0	14	1
VERMONT	62	0	7	0	0	6	24	0	3	12	0	0	0	0	2	8	0
Middlebury College	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
Univ of Vermont	60	0	7	0	0	6	24	0	3	12	0	0	0	0	0	8	0
VERGINIA	970	44	37	14	53	169	114	39	21	75	88	20	3	7	39	204	43
College of William & Mary	54	10	1	6	3	0	3	0	2	1	0	4	0	0	5	19	0
George Mason Univ	138	0	1	3	26	9	5	6	1	15	38	1	0	0	0	32	1
Hampton University	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Norfolk State Univ	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Old Dominion Univ	62	6	0	0	5	12	15	2	0	2	12	0	0	0	0	3	5
Regent Univ	6	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	5
Union Theol Seminary in Virginia	9	0	0	0	0	0	0	0	0	0	0	0	0	0	4	3	2
Univ of Virginia-Main Campus	314	17	14	3	14	43	45	9	0	21	26	15	3	7	25	71	1
Virginia Commonwealth Univ and Med Coll	103	0	9	0	0	2	34	15	0	18	5	0	0	0	4	10	6
Virginia Polytech Inst & St Univ	276	5	12	2	5	103	12	7	18	18	7	0	0	0	0	66	21
WASHINGTON	660	24	30	23	35	82	116	40	32	35	77	16	6	14	41	60	29
Gonzaga Univ	9	0	0	0	0	0	0	0	0	1	2	0	0	0	1	5	0
Seattle Pacific Univ	11	0	0	0	0	0	0	0	0	8	0	0	0	0	0	3	0
Seattle Univ	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0
Univ of Washington	484	19	26	19	32	66	89	37	13	18	56	10	4	10	39	28	18
Washington State Univ	149	5	4	4	3	16	27	3	19	8	19	6	2	4	1	17	11
WEST VIRGINIA	128	5	3	1	2	15	16	1	1	17	6	8	3	1	2	46	1
Marshall University	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
West Virginia Univ	126	5	3	1	2	15	14	1	1	17	6	8	3	1	2	46	1
WISCONSIN	836	28	40	19	38	111	120	25	31	43	93	31	6	15	90	94	52
Cardinal Strich University	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0
Marquette Univ	56	0	2	0	2	13	5	0	0	9	0	3	0	1	9	7	5
Medical College of Wisconsin	16	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0
Univ of Wisconsin-Madison	656	26	32	16	31	83	94	21	31	26	78	28	4	8	74	65	39
Univ of Wisconsin-Milwaukee	96	2	6	3	5	15	5	4	0	8	15	0	2	6	7	10	8
WYOMING	70	2	3	2	3	2	11	0	3	7	5	0	0	0	0	32	0
Univ of Wyoming	70	2	3	2	3	2	11	0	3	7	5	0	0	0	0	32	0

NOTE: Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates.

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



**APPENDIX TABLE A-8. Top 50 Doctorate-Granting Institutions, 2001**

Rank	Institution	Number		Rank	Institution	Number
1.	University of California-Berkeley	751		26.	Rutgers University-New Brunswick	371
2.	The University of Texas at Austin	732		27.	University of Chicago	370
3.	University of Illinois at Urbana-Champaign	673		28.	Johns Hopkins University	366
4.	University of Wisconsin-Madison	656		29.	University of Arizona	361
5.	University of Minnesota-Twin Cities	633		30.	University of Pittsburgh	359
6.	University of California-Los Angeles	609		31.	New York University	358
7.	Ohio State University	591		32.	University of Georgia	352
8.	University of Michigan-Ann Arbor	565		33.	Northwestern University	350
9.	Stanford University	547		34.	University of Iowa	334
10.	Pennsylvania State University-Main Campus	541		35.	University of California-Davis	332
11.	University of Southern California	529		36.	University of Virginia-Main Campus	314
12.	Harvard University	508		37.	Yale University	311
13.	Texas A & M University	506		38.	North Carolina State University-Raleigh	306
14.	Massachusetts Institute of Technology	492		39.	Boston University	300
15.	University of Washington-Seattle Campus	484		40.	SUNY at Buffalo	292
[ 16.	Nova Southeastern University	469		41.	University of Colorado at Boulder	287
16.	Purdue University-Main Campus	469		42.	University of Missouri-Columbia	277
18.	Indiana University-Bloomington	430		43.	Virginia Polytechnic Institute and State University	276
19.	University of Maryland-College Park	421		44.	Arizona State University-Main Campus	274
[ 20.	University of Florida	417		45.	University of California-San Diego	267
20.	Cornell University-Endowed Colleges	417	[	45.	Princeton University	267
22.	Columbia University	407		47.	Louisiana State University & A&M College	263
23.	Michigan State University	403		48.	University of Massachusetts-Amherst	261
24.	University of North Carolina-Chapel Hill	397		49.	University of California-Santa Barbara	259
25.	University of Pennsylvania	373		50.	Florida State University	258

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



## APPENDIX B: Trend Tables, 1991-2001

Appendix B includes the following two tables:

B-1: Number of doctorate recipients, by subfield, 1991-2001

B-2: Number of doctorate recipients, by sex, race/ethnicity, and citizenship, 1991-2001

**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 published 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 1991-2001. 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 or more of the various racial group categories: American Indian (indicating Tribal Affiliation in 2001), Asian, Native Hawaiians and Pacific Islanders, 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 or as "Other/Unknown" (which includes only those who did not indicate a specific race/ethnicity through 2000, and also includes those choosing "Multiple Race" or “Native Hawaiians and Pacific Islanders” in 2001). (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, 1991-2001

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
<u>TOTAL ALL FIELDS</u>	37,533	38,890	39,800	41,037	41,747	42,438	42,559	42,654	41,097	41,340	40,744
<u>PHYSICAL SCIENCES</u>	6,279	6,502	6,496	6,822	6,808	6,674	6,679	6,743	6,322	6,073	5,970
<u>MATHEMATICS</u>	1,038	1,058	1,146	1,118	1,190	1,122	1,123	1,177	1,083	1,049	1,006
Applied Mathematics	192	213	188	206	211	230	242	265	252	238	214
Algebra	72	69	84	78	82	78	78	75	84	82	67
Analysis & Functional Analysis	132	105	105	107	99	100	103	130	86	81	91
Geometry	66	45	44	35	45	72	70	54	65	59	40
Logic	23	28	19	29	35	16	23	16	23	19	24
Number Theory	30	25	42	37	35	42	46	46	50	40	35
Mathematical Statistics	206	217	228	205	205	178	181	204	174	195	198
Topology	57	58	54	38	51	55	62	65	65	50	53
Computing Theory & Practice	19	12	18	16	14	18	14	18	14	17	11
Operations Research	16	22	37	26	36	21	20	17	21	19	14
Mathematics, General	180	209	276	269	305	233	153	163	116	150	156
Mathematics, Other	45	55	51	72	72	79	131	124	133	99	103
<u>COMPUTER SCIENCE</u>	800	869	880	903	997	920	909	927	855	859	826
Computer Science	720	791	825	833	913	836	828	821	741	721	687
Information Sciences & Systems	80	78	55	70	84	84	81	106	114	138	83
Computer/Info Science, Other	----	----	----	----	----	----	----	----	----	----	56
<u>PHYSICS AND ASTRONOMY</u>	1,411	1,537	1,544	1,692	1,652	1,677	1,599	1,585	1,430	1,390	1,379
Astronomy	50	55	76	66	89	84	71	91	59	78	89
Astrophysics	75	79	69	78	84	108	127	116	100	107	97
Acoustics	13	18	27	20	18	19	19	18	16	10	10
Chem. & Atomic/Molecular	76	85	95	140	110	129	106	100	100	110	81
Electron	1	----	----	----	----	----	----	----	----	----	----
Elementary Particles	182	153	170	176	183	176	170	173	169	147	121
Fluids	14	17	19	12	18	21	24	26	23	10	8
Nuclear	66	86	82	90	91	87	106	92	77	74	79
Optics	85	94	96	104	98	129	123	104	98	117	107
Plasma & High-Temperature	58	65	62	79	46	48	39	55	49	38	39
Polymer	17	17	29	29	23	33	19	24	28	21	18
Solid State & Low-Temperature	372	408	336	388	371	364	328	314	307	279	294
Physics, General	247	297	340	343	355	323	255	191	202	225	207
Physics, Other	155	163	143	167	166	156	212	281	202	174	229
<u>CHEMISTRY</u>	2,194	2,214	2,137	2,257	2,162	2,148	2,148	2,216	2,132	1,989	1,979
Analytical	304	304	286	334	317	346	350	383	333	326	333
Inorganic	260	268	237	262	258	249	279	287	279	221	280
Nuclear	14	7	8	10	5	5	8	6	10	9	4
Organic	538	512	518	544	483	506	567	598	563	524	521
Medicinal/Pharmaceutical	83	69	99	102	96	96	105	114	131	107	115
Physical	364	398	336	334	338	300	334	279	310	270	286
Polymer	111	83	107	117	116	121	110	122	95	107	106
Theoretical	45	59	53	52	40	57	48	41	56	52	40
Chemistry, General	400	449	431	447	458	396	261	285	196	263	203
Chemistry, Other	75	65	62	55	51	72	86	101	159	110	91
<u>EARTH, ATMOS., &amp; MARINE SCI.</u>	836	824	789	852	807	807	900	838	822	786	780
Atmospheric Physics & Chemistry	20	36	13	27	27	22	45	38	43	39	33
Atmospheric Dynamics	21	23	23	27	16	21	25	24	16	17	17
Meteorology	31	28	34	32	25	35	28	25	22	34	20
Atmos. Sci./Meteorology, General	26	27	22	37	44	33	36	22	33	36	34
Atmos. Sci./Meteorology, Other	10	6	7	6	18	14	15	16	10	17	12
Geology	192	166	197	194	186	162	165	171	157	124	115
Geochemistry	64	62	50	59	42	49	49	58	55	48	42
Geophysics & Seismology	117	108	101	106	93	101	108	106	100	70	88
Paleontology	24	25	21	17	20	14	23	23	15	31	16
Mineralogy, Petrology	36	29	9	21	19	23	19	14	14	5	15
Stratigraphy, Sedimentation	29	23	28	27	16	12	23	24	17	13	13
Geomorphology & Glacial Geology	18	12	16	13	11	11	26	20	18	14	10
Applied Geology	1	----	----	----	----	----	----	----	----	----	----
Geological & Related Sci., General	30	18	15	18	21	27	16	13	9	20	16
Geological & Related Sci., Other	33	31	17	24	22	22	17	40	35	18	34
Environmental Science	35	57	68	61	81	83	96	73	99	94	120
Hydrology & Water Resources	16	29	25	30	24	31	43	35	32	43	45
Oceanography	85	82	98	91	83	107	114	94	100	99	85

APPENDIX TABLE B-1. Number of doctorate recipients, by subfield, 1991-2001

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Marine Sciences	27	32	27	34	32	27	30	18	30	35	34
Misc. Physical Sci., Other	21	30	18	28	27	13	22	24	17	29	31
<b>ENGINEERING</b>	<b>5,214</b>	<b>5,438</b>	<b>5,698</b>	<b>5,822</b>	<b>6,008</b>	<b>6,309</b>	<b>6,118</b>	<b>5,927</b>	<b>5,332</b>	<b>5,320</b>	<b>5,502</b>
Aerospace, Aeronautic. & Astronautic.	207	234	228	230	252	287	273	242	207	215	203
Agricultural	83	84	86	89	73	104	79	74	59	60	52
Bioeng. & Biomedical	149	147	171	173	189	220	211	208	245	251	232
Ceramic Sciences	58	42	42	39	39	41	39	24	33	22	17
Chemical	621	607	624	630	602	681	662	669	576	619	631
Civil	509	540	563	602	572	600	593	587	506	479	499
Communications	21	30	22	33	29	32	33	40	39	42	47
Computer	178	175	167	202	189	208	227	210	204	172	183
Electrical, Electronics	1,206	1,278	1,354	1,438	1,513	1,501	1,461	1,346	1,235	1,328	1,347
Engineering Mechanics	113	132	128	132	108	105	93	86	68	57	75
Engineering Physics	23	25	21	17	17	37	24	15	28	26	22
Engineering Science	42	51	55	46	56	52	45	50	49	34	53
Environmental Health Engineering	66	54	61	82	84	98	63	63	78	76	94
Ind./Manufacturing	165	196	236	228	284	259	246	229	212	176	205
Materials Science	361	365	416	433	476	472	483	482	393	404	450
Mechanical	762	855	902	883	917	947	930	937	787	806	878
Metallurgical	70	78	77	67	73	61	60	59	43	25	32
Mining & Mineral	38	26	24	23	19	31	33	21	18	10	10
Naval Architecture, Marine Eng.	5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Nuclear	107	120	108	85	105	113	103	96	76	98	75
Ocean	21	21	24	29	21	26	34	29	16	18	28
Operations Research	76	56	56	47	48	74	74	62	67	51	55
Petroleum	28	54	52	42	48	52	51	48	45	44	37
Polymer/Plastics	42	64	61	53	58	65	54	59	53	62	58
Systems	48	37	57	51	47	47	49	68	42	34	46
Engineering, General	78	64	47	39	60	60	51	29	40	42	26
Engineering, Other	137	103	116	129	129	136	147	194	213	169	147
<b>LIFE SCIENCES</b>	<b>6,933</b>	<b>7,115</b>	<b>7,395</b>	<b>7,739</b>	<b>7,917</b>	<b>8,255</b>	<b>8,326</b>	<b>8,540</b>	<b>8,107</b>	<b>8,525</b>	<b>8,296</b>
<b>BIOLOGICAL SCIENCES</b>	<b>4,650</b>	<b>4,799</b>	<b>5,092</b>	<b>5,203</b>	<b>5,375</b>	<b>5,724</b>	<b>5,789</b>	<b>5,846</b>	<b>5,583</b>	<b>5,849</b>	<b>5,678</b>
Biochemistry	765	715	846	804	824	794	832	800	760	776	726
Biomedical Sciences	-----	-----	-----	-----	93	141	158	183	176	155	154
Biophysics	100	125	103	123	155	142	147	166	173	164	162
Biotechnology Research	-----	-----	8	14	4	6	11	12	19	14	9
Bacteriology	11	13	14	18	13	16	13	13	13	15	17
Plant Genetics	23	33	41	30	35	41	30	40	31	35	31
Plant Pathology	50	32	41	40	32	38	33	18	36	25	31
Plant Physiology	65	68	48	70	55	73	47	61	54	39	45
Botany, Other	105	107	105	117	102	105	91	113	67	92	75
Anatomy	77	75	76	66	64	47	50	35	33	39	29
Biometrics & Biostatistics	59	63	74	72	67	81	84	75	76	92	90
Cell Biology	149	188	231	237	236	233	251	300	281	337	312
Ecology	189	180	177	201	203	245	255	293	273	296	336
Developmental Biology/Embryology	37	48	57	62	64	96	115	127	108	111	106
Endocrinology	33	27	16	26	20	24	17	30	19	20	17
Entomology	138	139	114	123	121	136	123	138	114	137	89
Biological Immunology	177	181	169	161	190	238	214	245	223	239	266
Molecular Biology	481	527	582	598	617	651	775	736	716	705	707
Microbiology	372	377	433	423	426	444	410	383	383	382	397
Neuroscience	238	238	276	284	308	404	437	413	431	495	482
Nutritional Sciences	106	132	134	147	136	142	124	139	102	150	135
Parasitology	20	17	17	22	14	22	17	15	13	19	22
Toxicology	86	105	100	120	126	138	180	155	114	123	133
Human & Animal Genetics	160	142	172	203	202	212	217	197	216	227	197
Human & Animal Pathology	122	114	130	128	109	135	106	90	120	105	116
Human & Animal Pharmacology	266	279	274	259	278	316	300	255	254	267	258
Human & Animal Physiology	272	266	271	289	262	275	227	258	244	241	214
Zoology, Other	125	134	114	117	145	100	97	111	126	133	103
Biological Sciences, General	278	315	305	288	348	291	209	217	182	199	197
Biological Sciences, Other	146	159	164	161	126	138	219	228	226	217	222
<b>HEALTH SCIENCES</b>	<b>1,041</b>	<b>1,112</b>	<b>1,197</b>	<b>1,296</b>	<b>1,330</b>	<b>1,324</b>	<b>1,421</b>	<b>1,500</b>	<b>1,407</b>	<b>1,592</b>	<b>1,613</b>
Speech-Lang. Pathology & Audiology	90	82	98	95	106	94	88	95	86	106	92
Environmental Health	38	44	38	51	51	58	67	54	69	52	57
Health Systems/Services Admin.	-----	-----	35	53	62	60	66	62	62	59	49
Public Health	132	157	153	142	152	156	138	156	173	207	211
Epidemiology	115	108	120	168	153	149	151	165	179	191	167
Exercise Physiology/Sci., Kinesiology	-----	-----	-----	87	118	105	105	129	104	130	153
Nursing	325	338	373	336	354	354	420	399	353	414	361

APPENDIX TABLE B-1. Number of doctorate recipients, by subfield, 1991-2001

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Pharmacy	115	160	146	148	144	145	142	156	137	164	147
Rehabilitation/Therapeutic Services	17	25	36	43	20	26	34	35	26	40	118
Veterinary Medicine	56	63	61	56	55	65	47	49	49	50	60
Health Sciences, General	28	30	38	41	35	22	45	17	32	50	35
Health Sciences, Other	125	105	99	76	80	90	118	183	137	129	163
<b>AGRICULTURAL SCIENCES</b>	<b>1,242</b>	<b>1,204</b>	<b>1,106</b>	<b>1,240</b>	<b>1,212</b>	<b>1,207</b>	<b>1,116</b>	<b>1,194</b>	<b>1,117</b>	<b>1,084</b>	<b>1,005</b>
Agricultural Economics	168	141	137	162	173	169	133	155	149	137	154
Agricultural Business and Management	1	0	1	0	3	2	1	2	2	5	3
Animal Breeding & Genetics	18	23	18	17	19	12	24	18	21	22	16
Animal Nutrition	57	41	52	58	50	54	55	45	47	45	45
Dairy Science	19	14	11	11	14	9	14	10	12	9	2
Poultry Science	13	22	16	21	11	12	9	11	8	9	11
Fisheries Science & Management	39	26	38	48	49	46	45	30	38	43	44
Animal Sciences, Other	92	97	74	86	85	90	62	60	70	73	71
Agronomy & Crop Science	117	123	104	143	114	110	77	97	106	70	75
Plant Breeding & Genetics	69	82	68	81	72	63	67	69	44	68	37
Plant Pathology	90	63	58	55	52	90	65	66	66	63	51
Plant Protection-Pest Management	2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Plant Sciences, Other	17	29	28	24	30	21	20	37	38	29	23
Food Distribution	-----	-----	-----	1	-----	-----	-----	-----	-----	-----	-----
Food Engineering	12	14	9	16	7	7	11	13	7	10	13
Food Sciences, Other	137	151	141	152	135	142	175	153	137	142	128
Soil Chemistry/Microbiology	24	24	26	21	27	29	32	27	29	26	23
Soil Sciences, Other	78	63	59	69	72	78	56	74	67	64	55
Horticulture Science	78	65	62	65	67	73	44	60	66	55	37
Forest Biology	17	29	18	20	24	19	22	20	14	22	27
Forest Engineering	2	2	3	0	4	0	13	2	1	3	0
Forest Management	22	16	17	17	20	22	21	27	17	13	13
Wood Sci. & Pulp/Paper Tech.	16	21	20	26	26	18	25	25	21	11	20
Conserv./Renewable Nat. Res.	19	9	13	21	24	13	17	25	25	19	32
Forestry & Related Sci., Other	45	62	55	59	71	55	50	69	50	54	48
Wildlife/Range Mgt	59	55	54	52	50	64	50	56	44	56	40
Agricultural Sciences, General	3	9	10	4	6	5	10	8	8	10	2
Agricultural Sciences, Other	28	23	14	11	7	4	18	35	30	26	35
<b>SOCIAL SCIENCES &amp; PSYCHOLOGY</b>	<b>6,152</b>	<b>6,216</b>	<b>6,545</b>	<b>6,613</b>	<b>6,637</b>	<b>6,825</b>	<b>7,047</b>	<b>7,074</b>	<b>7,046</b>	<b>7,107</b>	<b>6,825</b>
<b>SOCIAL SCIENCES</b>	<b>2,902</b>	<b>2,953</b>	<b>3,125</b>	<b>3,234</b>	<b>3,207</b>	<b>3,328</b>	<b>3,485</b>	<b>3,398</b>	<b>3,373</b>	<b>3,489</b>	<b>3,392</b>
Anthropology	341	320	342	384	375	397	434	425	463	446	408
Area Studies	24	33	36	34	27	28	10	14	11	14	17
Criminology	35	37	39	41	44	60	49	55	51	66	62
Demography/Population Studies	28	17	22	23	15	11	24	30	28	19	12
Economics	861	885	906	913	952	979	999	976	911	933	917
Econometrics	24	25	24	26	27	29	31	25	15	15	13
Geography	108	111	137	146	150	165	149	154	144	197	186
International Relations/Affairs	88	76	102	112	73	99	88	96	119	77	89
Political Science & Government	434	513	507	589	600	622	665	662	655	669	659
Public Policy Analysis	111	107	98	94	94	104	127	97	125	137	138
Sociology	465	495	513	525	540	517	577	549	544	614	565
Statistics	31	29	48	46	48	48	56	61	72	60	49
Urban Affairs/Studies	90	86	123	132	103	108	93	77	57	78	80
Social Sciences, General	36	33	32	21	35	26	26	30	25	38	24
Social Sciences, Other	226	186	196	148	124	135	157	147	153	126	173
<b>PSYCHOLOGY</b>	<b>3,250</b>	<b>3,263</b>	<b>3,420</b>	<b>3,379</b>	<b>3,430</b>	<b>3,497</b>	<b>3,562</b>	<b>3,676</b>	<b>3,673</b>	<b>3,618</b>	<b>3,433</b>
Clinical	1,305	1,309	1,373	1,285	1,291	1,329	1,259	1,344	1,444	1,354	1,256
Cognitive & Psycholinguistics	94	101	104	129	104	128	166	113	143	140	142
Comparative	7	2	5	8	4	3	6	6	11	7	5
Counseling	497	507	488	497	471	465	488	448	460	475	480
Developmental and Child	155	170	202	179	152	188	215	267	193	203	193
Human/Individual & Family Develop.	-----	-----	-----	129	150	151	126	119	135	148	135
Experimental	142	154	143	139	151	128	146	149	139	133	134
Educational	110	91	91	69	74	92	61	61	64	97	47
Family & Marriage Counseling	-----	-----	-----	-----	57	51	64	51	56	54	45
Industrial & Organizational	142	138	159	137	155	162	187	189	159	188	172
Personality	13	17	22	19	16	24	26	25	16	23	11
Physiological/Psychobiology	45	55	85	93	92	80	77	92	87	89	93
Psychometrics	9	5	9	5	10	11	11	9	15	13	2
Quantitative	7	10	16	17	13	19	17	15	14	8	10
School	82	88	95	84	91	82	84	106	121	99	109
Social	147	139	125	153	155	170	181	186	176	207	198
Psychology, General	324	295	306	280	306	281	318	300	236	239	228
Psychology, Other	171	182	197	156	138	133	130	196	204	141	173

APPENDIX TABLE B-1. Number of doctorate recipients, by subfield, 1991-2001

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
<b>HUMANITIES</b>	4,099	4,444	4,481	4,744	5,062	5,115	5,436	5,513	5,458	5,633	5,589
GENERAL HUMANITIES	2,642	2,879	2,852	3,103	3,208	3,366	3,564	3,611	3,655	3,750	3,798
History, American	251	277	269	310	344	355	373	408	418	442	423
History, Asian	----	----	----	----	43	54	54	70	68	51	51
History, European	127	176	162	180	185	187	245	230	235	243	245
History/Philosophy of Sci. & Tech.	27	28	37	27	41	37	36	43	50	42	40
History, General	121	102	116	140	148	101	82	86	75	103	75
History, Other	137	141	142	144	128	123	176	152	164	179	190
Classics	55	58	61	84	62	72	53	85	77	64	54
Comparative Literature	150	163	153	163	191	164	181	164	166	188	203
Linguistics	227	266	214	221	201	230	244	220	251	229	229
Speech & Rhetorical Studies	86	98	111	142	139	155	138	169	150	143	126
Letters, General	17	18	18	22	43	28	23	22	19	55	34
Letters, Other	44	38	37	25	34	61	60	82	82	92	94
American Studies	92	81	101	88	94	115	84	100	98	113	127
Archeology	33	33	38	34	35	21	35	34	26	36	40
Art History/Criticism/Conservation	125	154	158	182	181	177	188	221	188	228	223
Music	587	641	613	685	713	697	727	696	766	748	784
Philosophy	285	279	274	302	298	369	446	410	389	364	413
Religion	187	231	257	252	248	317	303	327	334	348	343
Drama/Theater Arts	91	95	91	102	80	103	116	92	99	82	104
<b>LANGUAGE AND LITERATURE</b>	1,350	1,465	1,523	1,537	1,718	1,618	1,747	1,721	1,648	1,711	1,596
American Literature	253	291	293	296	327	314	408	389	372	460	383
English Language & Literature	599	612	655	647	752	699	686	689	650	610	594
French	100	124	137	129	151	142	150	137	148	143	141
German	71	96	105	67	93	88	82	106	90	83	84
Italian	32	20	19	32	35	24	23	33	20	16	16
Spanish	173	179	178	212	209	196	250	207	201	218	233
Russian	25	28	28	38	28	37	39	43	25	29	27
Slavic	14	15	13	10	16	11	9	15	17	14	12
Chinese	19	20	21	25	20	29	23	19	27	21	16
Japanese	7	12	11	12	7	10	19	11	10	18	17
Hebrew	11	20	15	10	11	12	7	8	4	11	6
Arabic	4	12	10	4	8	6	4	9	12	15	6
Other Language & Literature	42	36	38	55	61	50	47	55	72	73	61
<b>OTHER HUMANITIES</b>	107	100	106	104	136	131	125	181	155	172	195
Humanities, General	29	21	30	32	25	39	25	23	24	40	29
Humanities, Other	78	79	76	72	111	92	100	158	131	132	166
<b>EDUCATION</b>	6,454	6,677	6,689	6,711	6,649	6,784	6,580	6,575	6,545	6,419	6,324
<b>RESEARCH &amp; ADMINISTRATION</b>	4,675	4,894	4,997	4,929	4,941	5,234	5,039	4,995	5,064	4,936	4,966
Curriculum & Instruction	807	900	856	819	896	899	918	885	993	966	881
Educational Admin. and Supervision	1,428	1,290	1,340	1,207	1,086	1,172	1,020	952	895	812	835
Educational Leadership	485	694	783	793	889	992	1,033	1,117	1,148	1,201	1,213
Educ./Instruct. Media Design	73	62	96	112	121	107	92	91	123	138	140
Educ. Stat./Research Methods	80	61	64	68	63	76	58	56	57	55	65
Educ. Assess., Test., & Meas.	32	45	23	28	19	32	30	35	39	45	44
Educational Psychology	323	346	290	311	297	309	359	327	298	278	280
School Psychology	90	88	86	97	71	114	118	112	108	137	123
Social/Phil. Found. of Educ.	109	101	109	140	130	125	138	129	125	135	141
Special Education	226	260	277	241	254	278	270	248	262	259	230
Counseling Educ./Couns. & Guidance	270	259	288	284	268	278	207	270	260	212	210
Higher Educ./ Evaluation & Research	344	381	357	428	457	481	506	431	464	438	511
Pre-elementary/Early Childhood	85	98	97	91	70	81	43	54	49	34	47
Elementary Education	73	73	65	71	61	46	56	62	59	53	55
Secondary Education	40	28	33	24	24	34	27	54	31	23	22
Adult & Continuing Education	210	208	233	215	235	210	164	172	153	150	169
<b>TEACHING FIELDS</b>	973	1,008	943	960	924	864	919	954	892	827	720
Agricultural Education	49	43	54	52	35	32	38	25	38	22	22
Art Education	28	46	38	33	39	41	30	46	47	31	31
Business Education	32	16	27	25	21	20	26	31	45	37	19
English Education	58	61	53	56	60	57	62	53	64	44	56
Foreign Languages Education	46	50	48	54	60	45	47	73	62	43	47
Health Education	78	98	83	97	99	90	58	70	58	71	65
Home Economics Education	21	12	14	11	15	13	13	8	10	14	8
Technical/Industrial Arts Education	13	11	16	20	15	11	19	30	21	21	16
Mathematics Education	73	62	69	74	92	100	93	115	101	90	81

APPENDIX TABLE B-1. Number of doctorate recipients, by subfield, 1991-2001

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Music Education	96	96	80	89	96	91	101	93	79	78	62
Nursing Education	18	29	19	24	18	23	21	14	22	11	5
Physical Education & Coaching	185	167	161	139	104	101	109	109	115	83	80
Reading Education	102	121	95	97	85	66	70	76	68	89	72
Science Education	72	73	73	85	73	96	77	109	58	60	71
Social Science Education	19	19	9	10	14	12	26	15	9	40	12
Speech Education	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Technical Education	25	35	21	30	20	24	32	18	27	20	10
Trade & Industrial Education	17	11	24	24	13	12	16	14	14	12	7
Teacher Ed./Spec. Acad. & Voc., Other	40	58	59	40	65	30	81	55	54	61	56
<b>OTHER EDUCATION</b>	<b>806</b>	<b>775</b>	<b>749</b>	<b>822</b>	<b>784</b>	<b>686</b>	<b>622</b>	<b>626</b>	<b>589</b>	<b>656</b>	<b>638</b>
Education, General	428	443	411	484	429	353	336	235	197	254	264
Education, Other	378	332	338	338	355	333	286	391	392	402	374
<b>PROFESSIONAL/OTHER FIELDS</b>	<b>2,402</b>	<b>2,498</b>	<b>2,496</b>	<b>2,586</b>	<b>2,666</b>	<b>2,476</b>	<b>2,373</b>	<b>2,282</b>	<b>2,287</b>	<b>2,263</b>	<b>2,238</b>
<b>BUSINESS AND MANAGEMENT</b>	<b>1,163</b>	<b>1,248</b>	<b>1,281</b>	<b>1,283</b>	<b>1,328</b>	<b>1,277</b>	<b>1,244<sup>a</sup></b>	<b>1,172<sup>b</sup></b>	<b>1,107<sup>c</sup></b>	<b>1,069<sup>d</sup></b>	<b>1,049</b>
Accounting	172	180	183	179	168	156	150	154	154	110	115
Banking/Financial Support Services	172	172	170	134	163	114	69	83	74	72	66
Business Admin. & Management	204	241	324	319	340	393	426	348	315	325	343
Business/Managerial Economics	19	21	33	40	37	38	48	57	42	52	50
International Business	-----	-----	-----	22	23	36	39	33	34	34	29
Mgmt. Inf. Sys./Business Data Proc.	72	103	102	117	111	95	100	86	83	85	98
Marketing Mgmt. & Research	134	139	166	167	153	153	153	142	127	140	113
Business Statistics	5	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Operations Research	58	67	63	54	60	64	45	57	52	61	39
Organizational Behavior	72	81	73	102	100	108	122	103	100	99	117
Bus. Mgmt./Admin. Serv., General	123	112	87	87	92	67	28	38	49	36	22
Bus. Mgmt./Admin. Serv., Other	132	132	80	62	81	53	64	71	77	55	57
<b>COMMUNICATIONS</b>	<b>332</b>	<b>330</b>	<b>321</b>	<b>371</b>	<b>381</b>	<b>389</b>	<b>332</b>	<b>373</b>	<b>379</b>	<b>390</b>	<b>389</b>
Communications Research	72	45	33	40	40	60	51	52	50	53	60
Journalism	7	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Mass Communications	68	85	117	156	121	137	117	142	153	154	153
Radio and Television	6	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Communication Theory	25	47	41	45	53	37	40	48	47	39	39
Communications, General	70	76	69	68	78	81	74	62	69	78	76
Communications, Other	84	77	61	62	89	74	50	69	60	66	61
<b>OTHER PROFESSIONAL FIELDS</b>	<b>836</b>	<b>880</b>	<b>867</b>	<b>891</b>	<b>931</b>	<b>771</b>	<b>773</b>	<b>721</b>	<b>769</b>	<b>797</b>	<b>800</b>
Architectural Environmental Design	67	60	54	67	55	61	66	52	65	60	67
Home Economics	29	58	57	31	31	28	36	18	23	23	20
Law	23	20	29	33	37	24	27	31	37	41	32
Library Science	52	51	70	42	47	49	40	34	39	45	40
Parks/Recreation/Leisure/Fitness	0	0	44	37	54	29	24	38	29	45	41
Public Administration	107	108	117	135	128	103	95	104	117	103	96
Social Work	240	248	237	272	303	256	247	235	225	258	259
Theology/Religious Education	273	292	243	262	273	213	178	158	162	170	195
Professional Fields, General	3	1	1	1	1	2	4	0	9	3	7
Professional Fields, Other	42	42	15	11	2	6	56	51	63	49	43
<b>OTHER FIELDS</b>	<b>71</b>	<b>40</b>	<b>27</b>	<b>41</b>	<b>26</b>	<b>39</b>	<b>24</b>	<b>16</b>	<b>32</b>	<b>7</b>	<b>0</b>

NOTE: Dashes (-----) indicate 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.

<sup>a</sup> Includes 5 respondents with missing data for doctoral field 1997.

<sup>b</sup> Includes 7 respondents with missing data for doctoral field 1998.

<sup>c</sup> Includes 1 respondent with missing data for doctoral field 1999.

<sup>d</sup> Includes 6 respondents with missing data for doctoral field 2000.

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, 1991-2001**  
**Total all doctorates**

	Year of doctorate										
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Total all doctorates <sup>a</sup>	37,533	38,890	39,800	41,037	41,747	42,438	42,559	42,654	41,097	41,340	40,744
U.S. citizens	25,572	26,010	26,448	27,150	27,743	27,777	28,162	28,459	27,984	27,955	26,907
Permanent visas	1,857	1,980	2,259	3,747	4,318	3,765	2,931	2,702	2,306	1,957	1,822
Temporary visas	9,382	9,989	9,973	9,425	8,829	9,649	9,193	9,496	9,059	9,649	9,780
Unknown citizenship	722	911	1,120	715	857	1,247	2,273	1,997	1,748	1,779	2,235
Total known race/ethnicity	35,784	37,205	38,296	39,851	40,347	40,708	38,913	39,394	38,681	38,764	37,878
U.S. citizens	25,087	25,662	26,220	26,901	27,448	27,447	27,076	27,543	27,525	27,399	26,435
Permanent visas	1,796	1,906	2,225	3,700	4,276	3,732	2,868	2,614	2,267	1,899	1,790
Temporary visas	8,854	9,571	9,718	9,133	8,563	9,403	8,852	9,089	8,801	9,358	9,450
Unknown citizenship	47	66	133	117	60	126	117	148	88	108	203
American Indian <sup>b</sup>	132	152	121	146	147	189	167	191	214	169	164
U.S. citizens	130	149	120	143	147	186	167	190	214	169	149
Permanent visas	2	0	0	0	0	1	0	0	0	0	2
Temporary visas	0	3	1	3	0	2	0	0	0	0	12
Unknown citizenship	0	0	0	0	0	0	0	1	0	0	1
Asian <sup>d</sup>	7,524	8,280	8,659	9,353	9,691	9,802	9,007	8,563	7,997	8,049	8,061
U.S. citizens	787	839	876	937	1,129	1,066	1,297	1,155	1,308	1,362	1,382
Permanent visas	742	915	1,126	2,596	3,168	2,608	1,813	1,552	1,191	909	772
Temporary visas	5,979	6,517	6,623	5,806	5,382	6,105	5,865	5,826	5,470	5,755	5,885
Unknown citizenship	16	9	34	14	12	23	32	30	28	23	22
Black/ African-American	1,465	1,427	1,610	1,682	1,807	1,826	1,760	1,915	2,050	2,094	2,000
U.S. citizens	1,009	966	1,109	1,100	1,293	1,306	1,335	1,487	1,627	1,630	1,604
Permanent visas	156	143	169	178	168	141	139	119	133	119	117
Temporary visas	295	315	325	391	336	366	276	297	281	333	265
Unknown citizenship	5	3	7	13	10	13	10	12	9	12	14
Hispanic <sup>e</sup>	1,320	1,402	1,430	1,534	1,544	1,632	1,695	1,879	1,898	1,961	1,888
U.S. citizens	732	778	833	884	922	957	1,064	1,205	1,184	1,179	1,119
Permanent visas	136	131	139	146	142	156	135	122	139	128	143
Temporary visas	452	486	454	503	475	514	484	543	561	648	613
Unknown citizenship	0	7	4	1	5	5	12	9	14	6	13
White	25,331	25,913	26,433	27,087	27,084	27,158	26,250	26,786	26,410	26,363	25,354
U.S. citizens	22,420	22,904	23,244	23,795	23,893	23,847	23,181	23,454	23,092	22,945	21,842
Permanent visas	760	714	791	779	796	823	781	819	800	742	745
Temporary visas	2,125	2,248	2,310	2,424	2,362	2,404	2,225	2,417	2,481	2,609	2,634
Unknown citizenship	26	47	88	89	33	84	63	96	37	67	133
Other/Unknown race/ethnicity <sup>f</sup>	1,761	1,716	1,547	1,235	1,474	1,831	3,680	3,320	2,528	2,704	3,277
U.S. citizens	494	374	266	291	359	415	1,118	968	559	670	811
Permanent visas	61	77	34	48	44	36	63	90	43	59	43
Temporary visas	531	420	260	298	274	258	343	413	266	304	371
Unknown citizenship	675	845	987	598	797	1,122	2,156	1,849	1,660	1,671	2,052

<sup>a</sup> Total includes doctorate recipients whose gender was unknown.

<sup>b</sup> Includes Alaskan Natives.

<sup>c</sup> In most cases, non-U.S. American Indians are citizens of Canada or of a Latin American country.

<sup>d</sup> Includes Native Hawaiians/Other Pacific Islanders through 2000, but excludes them in 2001 per revised OMB guidelines issued for 2001.

<sup>e</sup> Persons reporting an Hispanic ethnicity, whether singly or in combination with another race/ethnicity, are included in the respondent-selected Hispanic ethnicity category.

<sup>f</sup> Includes only those with unknown race/ethnicity through 2000. In 2001 this category was expanded to include Native Hawaiians and other Pacific Islanders and respondents choosing multiple races (excluding those selecting an Hispanic ethnicity).

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, 1991-2001**  
**Total men**

	Year of doctorate										
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Total men	23,524	24,235	24,384	25,061	25,161	25,286	24,951	24,641	23,435	23,155	22,769
U.S. citizens	14,384	14,518	14,512	14,734	14,966	14,721	15,049	14,875	14,513	14,146	13,593
Permanent visas	1,223	1,290	1,468	2,636	2,908	2,483	1,834	1,665	1,378	1,141	995
Temporary visas	7,562	7,974	7,865	7,322	6,853	7,415	6,974	7,007	6,632	6,840	6,985
Unknown citizenship	355	453	539	369	434	667	1,094	1,094	912	1,028	1,196
Total Known race/ethnicity	22,355	23,172	23,537	24,330	24,308	24,275	23,017	22,730	22,067	21,610	21,160
U.S. citizens	14,031	14,266	14,345	14,568	14,760	14,499	14,439	14,334	14,221	13,816	13,309
Permanent visas	1,177	1,236	1,444	2,602	2,882	2,461	1,795	1,605	1,351	1,102	974
Temporary visas	7,124	7,633	7,672	7,107	6,640	7,233	6,717	6,714	6,446	6,638	6,753
Unknown citizenship	23	37	76	53	26	82	66	77	49	54	124
American Indian <sup>a</sup>	74	82	61	74	80	103	79	105	96	76	78
U.S. citizens	74	82	60	71	80	102	79	105	96	76	67
Permanent visas	0	0	0	0	0	0	0	0	0	0	2
Temporary visas	0	0	1	3	0	1	0	0	0	0	8
Unknown citizenship	0	0	0	0	0	0	0	0	0	0	1
Asian <sup>c</sup>	5,869	6,414	6,596	7,052	7,094	7,197	6,426	6,027	5,529	5,341	5,393
U.S. citizens	481	529	543	582	662	603	743	641	766	739	741
Permanent visas	489	603	732	1,877	2,197	1,787	1,142	985	711	501	422
Temporary visas	4,890	5,274	5,297	4,584	4,226	4,792	4,522	4,385	4,031	4,085	4,213
Unknown citizenship	9	8	24	9	9	15	19	16	21	16	17
Black/ African-American	788	768	839	889	877	930	858	822	908	878	862
U.S. citizens	421	394	441	411	487	532	529	526	608	559	587
Permanent visas	131	122	138	142	125	107	108	86	91	82	84
Temporary visas	234	250	255	330	261	287	212	203	204	232	186
Unknown citizenship	2	2	5	6	4	4	9	7	5	5	5
Hispanic <sup>d</sup>	807	860	874	866	914	935	981	1,060	990	1,070	1,012
U.S. citizens	371	410	423	438	463	480	544	610	510	546	497
Permanent visas	88	72	94	80	79	87	81	72	68	63	72
Temporary visas	348	374	356	347	370	364	350	375	405	459	439
Unknown citizenship	0	4	1	1	2	4	6	3	7	2	4
White	14,812	15,032	15,145	15,422	15,308	15,062	14,657	14,683	14,495	14,187	13,611
U.S. citizens	12,681	12,838	12,858	13,042	13,038	12,743	12,529	12,423	12,199	11,845	11,257
Permanent visas	469	437	480	503	480	480	464	461	478	455	390
Temporary visas	1,650	1,734	1,761	1,840	1,779	1,781	1,632	1,748	1,802	1,856	1,879
Unknown citizenship	12	23	46	37	11	58	32	51	16	31	85
Other/Unknown race/ethnicity <sup>e</sup>	1,174	1,079	869	758	888	1,059	1,950	1,944	1,417	1,603	1,813
U.S. citizens	356	265	187	190	236	261	625	570	334	381	444
Permanent visas	46	56	24	34	27	22	39	61	30	40	25
Temporary visas	440	342	195	218	217	190	258	296	190	208	260
Unknown citizenship	332	416	463	316	408	586	1,028	1,017	863	974	1,084

<sup>a</sup> Includes Alaskan Natives.

<sup>b</sup> In most cases, non-U.S. American Indians are citizens of Canada or of a Latin American country.

<sup>c</sup> Includes Native Hawaiians/Other Pacific Islanders through 2000, but excludes them in 2001 per revised OMB guidelines issued for 2001.

<sup>d</sup> Persons reporting an Hispanic ethnicity, whether singly or in combination with another race/ethnicity, are included in the respondent-selected Hispanic ethnicity category.

<sup>e</sup> Includes only those with unknown race/ethnicity through 2000. In 2001 this category was expanded to include Native Hawaiians and other Pacific Islanders and respondents choosing multiple races (excluding those selecting an Hispanic ethnicity).

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, 1991-2001**  
**Total women**

	Year of doctorate										
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Total women	13,873	14,436	15,121	15,821	16,416	16,957	17,249	17,849	17,484	18,114	17,901
U.S. citizens	11,185	11,491	11,931	12,413	12,775	13,056	13,079	13,570	13,471	13,806	13,314
Permanent visas	633	687	788	1,110	1,409	1,282	1,096	1,021	928	814	827
Temporary visas	1,809	1,997	2,080	2,080	1,959	2,221	2,204	2,469	2,423	2,808	2,794
Unknown citizenship	246	261	322	218	273	398	870	789	662	686	966
Total Known race/ethnicity	13,419	14,020	14,740	15,506	16,031	16,428	15,883	16,639	16,613	17,152	16,718
U.S. citizens	11,054	11,396	11,873	12,330	12,688	12,948	12,634	13,206	13,304	13,582	13,126
Permanent visas	619	669	779	1,097	1,393	1,271	1,072	1,001	916	797	816
Temporary visas	1,722	1,927	2,033	2,018	1,917	2,166	2,126	2,362	2,354	2,720	2,697
Unknown citizenship	24	28	55	61	33	43	51	70	39	53	79
American Indian <sup>a</sup>	58	70	60	72	67	86	88	86	118	93	86
U.S. citizens	56	67	60	72	67	84	88	85	118	93	82
Permanent visas	2	0	0	0	0	1	0	0	0	0	0
Temporary visas	0	3	0	0	0	1	0	0	0	0	4
Unknown citizenship	0	0	0	0	0	0	0	1	0	0	0
Asian <sup>c</sup>	1,647	1,855	2,049	2,291	2,590	2,600	2,574	2,520	2,467	2,708	2,668
U.S. citizens	305	310	332	354	467	463	553	513	542	623	641
Permanent visas	253	311	392	718	970	821	671	560	480	408	350
Temporary visas	1,082	1,233	1,316	1,216	1,150	1,309	1,337	1,434	1,438	1,670	1,672
Unknown citizenship	7	1	9	3	3	7	13	13	7	7	5
Black/ African-American	677	659	769	791	930	896	902	1,091	1,142	1,216	1,138
U.S. citizens	588	572	668	689	806	774	806	961	1,019	1,071	1,017
Permanent visas	25	21	31	36	43	34	31	32	42	37	33
Temporary visas	61	65	69	60	75	79	64	93	77	101	79
Unknown citizenship	3	1	1	6	6	9	1	5	4	7	9
Hispanic <sup>d</sup>	513	542	555	668	630	697	714	817	908	890	876
U.S. citizens	361	368	410	446	459	477	520	594	674	632	622
Permanent visas	48	59	45	66	63	69	54	50	71	65	71
Temporary visas	104	112	97	156	105	150	134	167	156	189	174
Unknown citizenship	0	3	3	0	3	1	6	6	7	4	9
White	10,517	10,879	11,286	11,662	11,775	12,096	11,587	12,098	11,915	12,175	11,743
U.S. citizens	9,738	10,066	10,385	10,751	10,855	11,104	10,650	11,030	10,893	11,100	10,585
Permanent visas	291	277	311	276	316	343	316	358	322	287	355
Temporary visas	474	513	548	583	583	623	590	665	679	753	755
Unknown citizenship	14	23	42	52	21	26	31	45	21	35	48
Other/Unknown race/ethnicity <sup>e</sup>	461	431	402	337	424	582	1,384	1,237	934	1,032	1,390
U.S. citizens	137	108	76	101	121	154	462	387	225	287	367
Permanent visas	14	19	9	14	17	14	24	21	13	17	18
Temporary visas	88	71	50	65	46	59	79	110	73	95	110
Unknown citizenship	222	233	267	157	240	355	819	719	623	633	895

<sup>a</sup> Includes Alaskan Natives.

<sup>b</sup> In most cases, non-U.S. American Indians are citizens of Canada or of a Latin American country.

<sup>c</sup> Includes Native Hawaiians/Other Pacific Islanders through 2000, but excludes them in 2001 per revised OMB guidelines issued for 2001.

<sup>d</sup> Persons reporting an Hispanic ethnicity, whether singly or in combination with another race/ethnicity, are included in the respondent-selected Hispanic ethnicity category.

<sup>e</sup> Includes only those with unknown race/ethnicity through 2000. In 2001 this category was expanded to include Native Hawaiians and other Pacific Islanders and respondents choosing multiple races (excluding those selecting an Hispanic ethnicity).

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



## Appendix C: Technical Notes

### Survey Overview

The Survey of Earned Doctorates (SED) is designed to obtain data on the number and characteristics of individuals receiving research doctoral degrees from U.S. institutions. The results of the survey are used to assess trends in doctorate production. This information is vital for educational and labor force planners within the Federal Government and in academia. The survey has been completed by individuals receiving research doctorates since 1958. The graduate schools are responsible for submitting completed forms and sending them to be compiled in the Doctorate Records File (DRF).

Key variables of the survey include:

- Academic institution attended
- Citizenship status at graduation
- Country of birth
- Country of citizenship
- Date of birth
- Disability status
- Educational attainment of parents
- Educational history after high school
- Field of degree specialty (N= 287)
- Field of employment
- Field of science and engineering
- Level of degree
- Marital status
- Number of dependents
- Place of birth
- Postgraduate plans
- Primary type of financial support
- Race and Hispanic ethnicity (by subgroup)
- Sex
- Type of academic institution that conferred degrees
- Type of employment planned
- Type of financial support (e.g., fellowship, research assistantship, etc.)
- Type of institutional control (public versus private)
- Work activity planned after doctoral degree

A complete questionnaire is contained in appendix D.

## **Data Collection**

The population eligible for the 2001 survey consisted of all individuals who received a research doctorate (only first doctorates are included) from a U.S. academic institution in the 12-month period ending on June 30, 2001. The total universe consisted of 40,744 persons in over 400 institutions that confer research doctorates awards in 2001.

Survey instruments were mailed to institutional coordinators in the graduate schools who distributed the survey forms to individuals receiving a research doctorate. The institutional coordinators also collected the forms and returned them to the contractor for editing/processing. Follow-up of missing critical items and forms is also conducted.

Since the survey collects a complete college education history, coding of institutions is very important. Because one-third of doctorate recipients from U.S. universities are from foreign countries, a coding manual for foreign institutions of higher education was developed by the U.S. Department of Education, entitled "Mapping the World of Education: The Comparative Database System" (3 Volumes).

The survey was conducted by the National Research Council of the National Academy of Sciences under contract to the National Science Foundation until 1997; the National Opinion Research Center (Chicago, Illinois) currently conducts the survey under contract.

## **Survey Response Rates**

Of the 40,744 new research doctorates granted in 2001, 92.1 percent of degree recipients returned their completed survey instruments. Limited records (containing field of study, doctorate institution and sex) for nonrespondents are constructed based on information collected from administrative lists of the university -- commencement programs, graduation lists, and other similar public records. Nonresponse was concentrated in certain institutions; graduates from 10 institutions accounted for 28 percent of the total nonrespondents.

**Appendix Table C-1. Survey response rates <sup>a</sup>**

Year	Self-report rate	Year	Self-report rate
1967	97.3	1985	94.8
1968	97.6	1986	93.5
1969	96.6	1987	93.1
1970	98.1	1988	92.9
1971	97.5	1989	92.3
1972	97.3	1990	93.6
1973	97.5	1991	94.6
1974	94.2	1992	95.1
1975	97.3	1993	94.7
1976	97.2	1994	94.6
1977	96.6	1995	94.1
1978	96.3	1996	92.9
1979	96.4	1997	91.5
1980	96.2	1998	91.9
1981	95.7	1999	91.9
1982	95.3	2000	92.3
1983	95.5	2001	92.1
1984	95.1		

<sup>a</sup> The rates for 1967-2000 reflect late responses. The rate for 2001 may increase slightly in the next year if additional questionnaires are received after survey closure.

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

The percentage of doctorate recipients completing the survey form is referred to as the “self-report” rate. The remaining doctorate recipients have either “skeletal” records containing only doctoral institution, degree date, field of degree, and gender, or "institution provided" records including the skeletal information above as well as information provided by the institution in "missing information rosters (MIRs)" where available.

Wherever possible this report includes data from all Ph.D. records whether complete or skeletal; thus the reported total number of doctorate recipients for 2001 (40,744) 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**

Table C-2 presents the results of a chi-square test comparing respondent-completed cases and nonresponding cases where institutions supplied data on critical items. The profile of nonrespondents is 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, as there is a high proportion of missing data from institutions on bachelor's institution, year of bachelor's degree and post-graduation location.

**Appendix Table C-2. Profiles of respondents versus nonrespondents for critical item data, by source of response, 2001**

Critical item (variable name)	Respondents (self-report)	Nonrespondents (institution-provided)	Difference
Year of Birth*			
Missing data	1.6	8.5	
Before 1970	65.7	71.7	-6.0
1970 and later	34.2	28.3	5.9
Sex			
Missing data	0.0	0.3	
Male	56.1	54.6	1.5
Female	43.9	45.1	-1.2
Citizenship Status*			
Missing data	0.7	20.3	
U.S. citizen	70.1	65.6	4.5
Permanent resident	4.7	5.7	-1.0
Temporary resident	25.3	28.7	-3.4
Country of Citizenship (for non-U.S. citizens only)*			
Country reported	99.4	82.1	17.3
Country not reported	0.6	17.9	-17.3
Race/Ethnicity* (U.S. citizens & perm residents only)			
Missing data	0.8	8.5	
American Indian a	0.6	0.7	-0.1
Asian b	7.5	7.7	-0.2
Black	5.9	11.4	-5.5
Hispanic c	4.4	6.0	-1.6
White	79.6	73.2	6.4
Other d	2.0	1.0	1.0
Bachelor's institution			
Missing data	2.6	35.5	
U.S.	72.9	73.5	-0.6
Non-U.S.	27.1	26.5	0.6
Year of bachelor's degree			
Missing data	5.4	93.5	
Before 1992	58.0	78.2	-20.2
1992-after	42.0	21.8	20.2
Post-graduation location			
Missing data	1.8	58.9	
U.S.	89.9	89.3	0.6
Non-U.S.	10.1	10.7	-0.6

\*Significant at .05 level, chi-square test performed on non-missing data.

Note: Missing data percentages calculated from all data, missing and non-missing. All other percentages calculated on non-missing data.

<sup>a</sup> Includes Alaskan Natives. <sup>b</sup> Does not include Native Hawaiians and other Pacific Islanders.

<sup>c</sup> Persons reporting an Hispanic ethnicity, whether singly or in combination with another race/ethnicity, are included in the respondent-selected Hispanic ethnicity category.

<sup>d</sup> Includes Native Hawaiians and other Pacific Islanders, respondents choosing multiple races (excluding those selecting an Hispanic ethnicity), and respondents with unknown race/ethnicity.

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



## Item Response Rates

Item nonresponse rates in 2001 for the main SED demographic variables ranged from 0.2 percent for sex to 6.2 percent for race/ethnicity. No imputation was performed for missing data items.

<u>Key variable</u>	<u>Item response rate</u>
Sex	99.8%
Citizenship	94.1
Country of non-U.S. citizens	98.8
Race/ethnicity	93.8
Postgraduation location (U.S. or foreign)	92.1

Appendix table C-3 on the following pages shows the response rates for each item in the Survey of Earned Doctorates for 1991 through 2001. 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.

Appendix Table C-3. Item response rates, 1991-2001

Variable name	Field	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000 (Prelim)	2000 (Adjusted)	2001 (Prelim)
RACE <sup>a</sup>	Race/Ethnic group (recoded)	95.3	95.6	96.2	97.6	97.1	96.4	93.0	93.6	95.1	94.5	94.8	93.8
PHDENTRY	First graduate year in Ph.D. institution	NA	NA	86.9	86.7	86.5	85.5	79.0	83.7	85.9	84.8	85.2	84.8
EDFATHER	Father's education	92.3	93.1	92.7	92.7	92.3	91.4	89.4	89.8	90.4	90.4	90.8	90.5
EDMOTHER	Mother's education	92.2	93.0	92.6	92.5	92.1	91.6	89.6	90.0	90.7	90.7	91.0	90.7
BIRTHYR	Year of birth	98.2	97.7	97.3	98.2	97.5	96.8	92.8	92.7	95.0	95.0	95.2	94.2
BIRTHPL	Place of birth	94.1	95.1	94.9	94.9	94.5	93.0	90.5	90.9	91.2	91.0	91.4	91.0
SEX	Sex	99.6	99.4	99.2	99.6	99.6	99.5	99.2	99.6	99.6	99.8	99.8	99.8
MARITAL	Marital status	91.5	92.0	91.6	91.5	91.0	91.7	89.2	90.2	90.8	90.7	91.1	90.6
DEPENDS	Number of dependents	89.5	89.8	89.8	89.7	89.4	89.5	88.2	88.7	89.1	89.0	89.3	89.0
DEPEND5	Dependents aged 5 or younger	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	64.6
DEPEND18	Dependents aged 6-18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	62.9
DEPEND19	Dependents aged 19 or older	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	56.6
CITIZ	Citizenship	97.9	97.6	97.1	98.2	97.9	97.0	94.6	95.3	95.7	95.4	95.7	94.5
CNTRYCIT <sup>b</sup>	Country of citizenship	29.2 (98.0)	30.3 (98.5)	30.2 (98.6)	31.8 (99.3)	31.3 (99.4)	31.3 (98.5)	26.5 (95.6)	26.9 (94.1)	26.6 (99.1)	27.4 (97.6)	27.4 (99.3)	28.1 (98.8)
HANDICAP <sup>c</sup>	Handicap indicated (including "no")	93.4	93.9	93.6	93.7	93.3	91.8	90.0	90.0	90.1	90.3	90.8	90.4
HSPLACE	Place of high school	93.5	94.5	94.0	93.9	93.5	92.2	90.1	90.8	91.4	91.4	91.8	90.5
HSYEAR	Year of high school graduation	90.9	92.1	92.1	91.7	91.6	90.5	89.0	94.1	93.0	90.7	94.0	NA
JRCOLL	Junior college indicated (including "no")	92.0	92.7	92.9	92.5	92.4	90.6	91.4	91.9	91.8	91.8	92.2	91.6
REGNURSE <sup>d</sup>	Registered nurse	0.2	0.1	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	91.8	92.7	92.8	92.3	92.1	90.6	82.5	90.4	90.6	89.5	89.8	91.7
CEYEAR	Year of college entrance	91.3	92.2	91.7	91.5	91.3	89.1	82.6	88.7	89.1	86.9	87.2	89.0
BAINST	Baccalaureate institution	96.5	96.4	96.3	96.6	95.8	94.9	89.0	90.6	91.9	90.5	90.8	92.2
BAFIELD	Field of baccalaureate	92.3	92.4	91.9	91.6	90.9	89.3	82.7	85.2	84.5	86.2	86.5	86.5
BAYEAR	Year of baccalaureate	95.5	96.0	95.7	96.2	95.5	94.7	88.1	90.1	91.7	89.8	90.1	91.7
BANONE <sup>d,e</sup>	No baccalaureate/master's	1.1	0.9	8.6	9.1	9.7	11.4	6.9	8.1	8.0	2.7	2.7	9.5
GEYEAR	Year of graduate entrance	89.4	89.5	88.6	88.2	87.4	85.7	77.3	81.4	84.8	83.2	83.6	83.8

Appendix Table C-3. Item response rates, 1991-2001, continued

Variable Name	Field	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000 (Prelim)	2000 (Adjusted)	2001 (Prelim)
MAINST	Master's institution	78.4	79.0	78.6	78.9	78.0	77.2	72.5	73.0	73.0	73.1	73.4	73.0
MAFIELD	Field of master's	76.3	77.0	76.1	76.1	75.3	74.6	68.7	70.4	70.7	70.8	71.2	70.9
MAYEAR	Year of master's	77.1	77.7	77.0	77.1	76.3	75.5	71.2	72.8	72.0	72.1	72.4	71.8
PROFDEG <sup>d</sup>	Type of professional doctorate	1.6	1.6	1.6	1.7	1.8	1.9	1.9	2.2	2.0	2.2	2.2	1.8
PROFYEAR <sup>d</sup>	Year of professional doctorate	1.6	1.5	1.6	1.7	1.8	1.9	1.8	2.2	2.8	2.2	2.2	1.8
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 <sup>d</sup>	Applied research doctorate	2.3	2.4	2.4	2.7	2.5	2.2	1.0	1.0	1.4	1.4	1.4	1.6
TOCEBA <sup>d</sup>	Time out college entry-baccalaureate	89.7	90.5	89.7	89.7	88.9	86.8	82.7	82.9	83.9	84.3	84.7	85.5
TOBAGE <sup>d</sup>	Time out baccalaureate-graduate entry	89.5	89.6	88.6	88.2	87.4	85.7	77.3	81.4	84.8	83.2	83.6	83.7
TOGEMA <sup>d</sup>	Time out graduate entry-master's	73.3	74.0	73.1	73.1	72.0	70.5	61.7	63.9	66.4	65.6	65.9	66.2
TOMAPHD <sup>d</sup>	Time out master's-Ph.D.	69.9	71.1	69.9	70.0	69.0	68.2	68.0	65.4	66.4	65.2	65.5	65.2
TOGEPHD	Time out graduate entry-Ph.D.	84.0	84.5	83.1	82.5	81.8	80.2	75.9	74.9	79.5	77.5	77.8	86.3
TICEPHD	Time in college entry-Ph.D.	83.4	84.3	83.0	82.9	82.4	80.9	75.7	78.3	79.8	78.6	78.9	84.5
YEARSFT	Full-time enrollment	73.9	75.7	75.7	75.2	74.5	77.1	82.6	89.7	90.4	90.4	90.8	NA
PHDDISS <sup>f</sup>	Field of dissertation	NA	65.0 <sup>b</sup>	92.7	93.3	92.4	92.1	89.1	90.1	90.9	91.1	91.4	90.1
SRCEPRIM <sup>g</sup>	Primary source of support	77.7	69.7	66.1	72.4	74.9	87.9 <sup>c</sup>	87.8	88.7	89.9	90.0	90.2	89.6
SRCE1ED <sup>g</sup>	Primary source of support (Edited)	77.6	69.7	66.2	72.4	74.9	87.9	87.8	88.6	89.9	90.0	90.2	89.6
DEBTIND	Debt level	93.1	93.3	92.8	92.8	92.4	91.1	89.3	89.7	90.6	91.0	91.0	90.3
TUITREMS	Received tuition remission	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	74.2
UDEBTLVL	Undergraduate debt level	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	75.9
GDEBTLVL	Graduate debt level	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	75.7
YRSGRAD	Years in graduate school	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	76.4
YRSCOURS	Years in coursework	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	76.4
YRDISST	Years working on dissertation	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	76.5
PRESTAT	Predoctoral status	93.5	93.5	93.1	93.0	92.6	91.8	88.2	90.1	90.8	91.0	91.4	NA
PDOCSTAT	Postdoctoral status	91.6	92.1	91.8	91.7	91.0	91.0	88.9	89.7	90.4	90.8	91.1	90.6
PDOCPLAN	Postdoctoral plans	NA	92.1	92.5	92.4	92.4	91.9	91.2	88.0	89.3	90.3	90.7	89.7

**Appendix Table C-3. Item response rates, 1991-2001, continued**

Variable Name	Field	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000 (Prelim)	2000 (Adjusted)	2001 (Prelim)
PDSTDFLD <sup>h</sup>	Postdoctoral study field	24.4 (95.1)	24.3 (93.4)	25.1 (94.0)	25.3 (93.8)	25.0 (93.9)	25.4 (97.4)	25.6 (99.0)	25.4 (96.0)	25.4 (96.9)	24.9 (96.6)	25.0 (96.6)	NA NA
PDSTDSUP <sup>h</sup>	Sources of study support	24.0 (93.4)	24.2 (92.9)	24.7 (92.4)	25.1 (93.1)	24.6 (92.5)	24.7 (94.9)	25.0 (100.0)	25.2 (95.8)	25.3 (96.5)	24.8 (96.1)	24.8 (96.1)	26.1 (98.3)
PDEMPLOY <sup>i</sup>	Type of employer	63.3 (94.9)	62.9 (94.3)	61.4 (93.5)	61.1 (93.5)	60.9 (93.4)	61.4 (94.2)	60.2 (92.7)	62.0 (95.5)	60.5 (96.0)	61.6 (94.3)	62.7 (96.5)	63.1 (98.1)
PDWKPRIM <sup>i</sup>	Primary work activity	55.9 (83.8)	55.7 (83.5)	54.7 (83.3)	56.3 (86.1)	56.6 (86.8)	60.8 (93.3)	60.4 (93.0)	61.3 (94.5)	60.2 (95.3)	62.0 (95.0)	62.3 (95.7)	61.0 (95.6)
PDWKSEC <sup>i</sup>	Secondary work activity	39.6 (59.3)	37.4 (56.0)	36.7 (55.9)	38.2 (58.4)	38.4 (58.8)	48.5 (74.4)	49.7 (76.4)	50.3 (78.0)	49.9 (79.2)	51.5 (78.7)	51.6 (79.7)	49.0 (77.0)
PDWK1ED <sup>i</sup>	Primary work activity (edited)	55.9 (83.8)	55.7 (83.5)	54.7 (83.3)	56.3 (86.1)	56.6 (86.8)	60.8 (93.3)	60.3 (92.8)	61.1 (94.3)	60.2 (94.9)	62.0 (95.0)	62.3 (95.7)	61.0 (95.6)
PDWK2ED <sup>i</sup>	Secondary work activity (edited)	39.5 (59.3)	37.4 (56.0)	36.7 (55.8)	38.2 (58.4)	38.4 (58.8)	48.5 (74.4)	51.7 (79.6)	52.3 (80.9)	49.9 (79.2)	51.5 (78.7)	51.6 (79.7)	49.0 (77.0)
PDEMPFLD <sup>i</sup>	Field of employment	47.3 (70.8)	45.3 (68.0)	44.0 (67.0)	45.4 (69.4)	45.7 (70.1)	58.4 (89.6)	59.5 (91.5)	60.3 (93.3)	60.2 (95.4)	61.2 (93.6)	61.5 (94.6)	NA NA
PDUSFOR	Postdoctoral location U.S. or foreign	NA	NA	NA	94.6	94.2	92.7	91.4	89.6	92.0	92.0	92.3	92.1

NA = not available because it was not collected in that year.

NOTE: The first year a variable is collected will have a lower response rate because some respondents would have completed an older survey form.

<sup>a</sup> The percentage represents the race/ethnic groups conventionally reported by the Doctorate Data Project; multiple and "other" races are excluded.

<sup>b</sup> The percentages on the first line are based on the total doctoral cohort for a fiscal year. The percentages on the second line (enclosed in parentheses) are based on the number of non-U.S. citizens in that year.

<sup>c</sup> The percentages from 1985-1988 represent the numbers of doctorate recipients with handicaps. Beginning 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.

<sup>d</sup> Because this field is not applicable to all doctorate recipients, the response rate will always be under 100%.

<sup>e</sup> "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.

<sup>f</sup> The percentage was low in 1992 because 28% of the doctorate recipients completed earlier survey forms that did not request field of dissertation.

<sup>g</sup> As of FY 1996, the percentage included recipients who said they had no primary source of support.

<sup>h</sup> The percentages on the first line are based on the total doctoral cohort for a fiscal year. The percentages on the second line (enclosed in parentheses) are based on the number of recipients who reported plans for postdoctoral study.

<sup>i</sup> The percentages on the first line are based on the total doctoral cohort for a fiscal year. The percentages on the second line (enclosed in parentheses) are based on the number of recipients who reported plans for postdoctoral employment.

## 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.

## Changes to the 2001 SED

### Race and Hispanic Ethnicity

In 2001, a new set of questionnaire items was used to collect information about citizenship. Just as in the past, respondents have been asked to first indicate whether or not they are Hispanic, and then check one or more of the various racial group categories (e.g., American

Indian, indicating Tribal Affiliation, Asian (including Native Hawaiians and Pacific Islanders through the year 2000), black, or white). *Doctorate recipients who reported Hispanic heritage, regardless of racial designation, are counted as Hispanic in this report.* The remaining survey respondents are then counted in their respective racial groups or as "Other/Unknown" (which includes only those who did not indicate a specific race/ethnicity through 2000, and also includes those choosing "Multiple Race" in 2001). (Note: Doctorate recipients who checked the category "American Indian or Alaskan Native" are identified as American Indian in this report.) For a complete view of the new questionnaire items, see the reproduction of the SED questionnaire, items C-12 through C-14 below.

### Citizenship

As in the past, the variable CITIZ is used to identify non-U.S. citizens for whom visa status was unknown. The new code frame for the data introduced in the year 2000 was 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

Beginning 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 (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';
```

### Debt

This item indexing debt was changed this year to allow the identification of debt due to undergraduate education separately from that due to graduate education (see item A9). The

resulting variables identify 8 ranges of debt for each referent (undergraduate or graduate). To estimate overall debt, we took the midpoint of the chosen range for undergraduate and for graduate debt. These two values were summed to yield a total debt amount. These amounts were then assigned to the appropriate range as shown below:

#### **Cumulative Debt**

No Debt  
\$5,000 OR LESS  
\$5,001-\$10,000  
\$10,001-\$15,000  
\$15,001-\$20,000  
\$20,001-\$25,000  
\$25,001-\$30,000  
\$30,001 and up

### **Availability of Data**

The survey has collected information on doctoral recipients annually since 1957. More limited information is contained on the SED data file for research doctorate recipients from 1920-1956.

The data from this survey are published annually in Detailed Statistical Tables in the series Science and Engineering Doctorate Awards, available on the SRS Website at ([www.nsf.gov/sbe/srs/ssed/ssedmeth.htm](http://www.nsf.gov/sbe/srs/ssed/ssedmeth.htm)). These reports focus on science and engineering fields of study. (The list of how fields of study are grouped for this report is shown at the end of the Technical Notes.) Companion data from this survey for earlier years (1960-1991) were published in Detailed Statistical Tables in the report *Science and Engineering Doctorates: 1960-91* (NSF 93-301). This report is out of print, but tables from it are available on request.

Information from the survey is also included in the report series *Science and Engineering Degrees*; in *Science and Engineering Indicators*; in *Women, Minorities, and Persons With Disabilities in Science and Engineering*; in *Foreign Participation in U.S. Academic Science and Engineering*; and in special occasional publications such as *Undergraduate Origins of Recent Science and Engineering Doctorate Recipients*.

Results are also included in a publication series on ALL fields of study -- *Doctorate Recipients from United States Universities: Summary Report*; this interagency report is sponsored by the Federal agencies that support the Survey of Earned Doctorates (6 in 2001). The report is available on the Web at: [www.norc.uchicago.edu/issues/docdata.htm](http://www.norc.uchicago.edu/issues/docdata.htm).



Selected summary data from this survey are available on the NSF-SRS Website and in the NSF-SRS WebCASPAR database by institution. Access to restricted data for researchers interested in analyzing microdata can be arranged through a licensing agreement.

A complete methodology report for the 2001 SED is available upon request from NSF-SRS. A complete list of methodological research concerning the Survey of Earned Doctorates is also available upon request from NSF-SRS.

Additional information about this survey can be obtained by contacting:

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Or

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## **APPENDIX D**

### **Survey of Earned Doctorates Questionnaire Academic Year 2001**



*Please print your name in full:*

---

<b>First Name</b>	<b>Middle Name</b>	<b>Last Name</b>	<b>Suffix (e.g., Jr.)</b>
-------------------	--------------------	------------------	---------------------------

---

**Cross reference: Birth name or former name legally changed**

---

<b>Name of Doctoral Institution</b>	<b>City or Branch</b>	<b>Date Degree Granted (mm/yyyy)</b>
-------------------------------------	-----------------------	--------------------------------------

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# *Survey of Earned Doctorates*

## *July 1, 2000, to June 30, 2001*

### *Conducted by*

**The National Opinion Research Center at the University of Chicago**

**for**

**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**

**The National Aeronautics and Space Administration**

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 collaborating researchers for the purpose of analyzing data, preparing scientific reports and articles, and selecting samples for a limited number of carefully defined follow-up studies. 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. 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.

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.

## INSTRUCTIONS

Thank you for taking the time to complete this 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.
- Please print all responses; you may use either a pen or pencil.
- When answering questions that require marking a box, please use an "X."
- If you need to change an answer, please make sure that your old answer is either completely erased or clearly crossed out.
- On page 7 (inside the back cover) is a Specialties List for classifying your field(s) of specialization in questions A2 and A8.

### PART A - Education

#### A1. What is the title of your dissertation?

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

#### A2. Using the Specialties List (page 7), please write the name and number of the primary field of your dissertation research.

Name of Field   
 Number of Field

If you had a secondary field for your dissertation research, list the name and number.

Name of Field   
 Number of Field

#### A3. Please name the department (or interdisciplinary committee, center, institute, etc.) of the university that supervised your doctoral program.

Mark (X) box if none

Department/Committee/Center/Institute/Program

#### A4. Please name the school or college within the university that supervised your doctoral program.

Mark (X) box if not applicable

School or College within University

#### A5. Which of the following were sources of support during graduate school?

Mark (X) Yes or No for each

	Yes	No
a. Fellowship, scholarship	1 <input type="checkbox"/>	2 <input type="checkbox"/>
b. Dissertation grant	1 <input type="checkbox"/>	2 <input type="checkbox"/>
c. Teaching assistantship	1 <input type="checkbox"/>	2 <input type="checkbox"/>
d. Research assistantship	1 <input type="checkbox"/>	2 <input type="checkbox"/>
e. Traineeship	1 <input type="checkbox"/>	2 <input type="checkbox"/>
f. Internship or residency	1 <input type="checkbox"/>	2 <input type="checkbox"/>
g. Loans (from any source)	1 <input type="checkbox"/>	2 <input type="checkbox"/>
h. Foreign (non-U.S.) support	1 <input type="checkbox"/>	2 <input type="checkbox"/>
i. Personal savings	1 <input type="checkbox"/>	2 <input type="checkbox"/>
j. Personal earnings during graduate school (other than sources listed above)	1 <input type="checkbox"/>	2 <input type="checkbox"/>
k. Spouse's, partner's, or family earnings or savings	1 <input type="checkbox"/>	2 <input type="checkbox"/>
l. Employer reimbursement/assistance	1 <input type="checkbox"/>	2 <input type="checkbox"/>
m. Other - Specify	1 <input type="checkbox"/>	2 <input type="checkbox"/>
<input style="width: 300px; height: 25px;" type="text"/>		

#### A6. Which TWO sources listed in A5 provided the most support?

Enter letters of primary and secondary sources

1. \_\_\_\_\_ Primary source of support  
 Mark (X) if no primary source
2. \_\_\_\_\_ Secondary source of support  
 Mark (X) if no secondary source

#### A7. If you received full or partial tuition remission for your doctoral studies, was it:

- 0  I did not receive any tuition remission
- 1  for less than 1/3 of tuition
- 2  between 1/3 and 2/3 of tuition
- 3  more than 2/3 of tuition

**A8.** 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 DOCTORAL DEGREE AT THE END.

Mark (X) box if bachelor's degree (or equivalent) was never received.  Mark (X) box if master's degree (or equivalent) was never received.

EXAMPLE Institution and Location	Years Attended		Field of Study		Degree (if any)		
	From	To	Use Specialties List, page 7		Granted		
Institution <i>Indian Institute of Technology</i>	1990	1992	Field Name <i>Mathematics</i>	Number 498	Title -	Mo. -	Yr. -
Branch or City <i>Madras</i>	State or Province <i>India</i>		Country (if not U S ) <i>India</i>				

Institution <i>University of California</i>	From 1993	To 1995	Field Name <i>Mechanical Engineering</i>	Number 345	Title <i>B.S.</i>	Mo. 6	Yr. 1995
Branch or City <i>Berkeley</i>	State or Province <i>CA</i>		Country (if not U S )				

Institution <i>University of California</i>	From 1997	To 2000	Field Name <i>Mechanical Engineering</i>	Number 345	Title <i>M.S.</i>	Mo. 6	Yr. 2000
Branch or City <i>Berkeley</i>	State or Province <i>CA</i>		Country (if not U S )				

Institution and Location	Years Attended		Field of Study		Degree (if any)		
	From	To	Use specialties List, page 7		Granted		
Institution	From	To	Field Name	Number	Title	Mo.	Yr.
Branch or City	State or Province		Country (if not U.S.)				

Institution	From	To	Field Name	Number	Title	Mo.	Yr.
Branch or City	State or Province		Country (if not U.S.)				

Institution	From	To	Field Name	Number	Title	Mo.	Yr.
Branch or City	State or Province		Country (if not U.S.)				

Institution	From	To	Field Name	Number	Title	Mo.	Yr.
Branch or City	State or Province		Country (if not U.S.)				

Institution	From	To	Field Name	Number	Title	Mo.	Yr.
Branch or City	State or Province		Country (if not U.S.)				

Institution	From	To	Field Name	Number	Title	Mo.	Yr.
Branch or City	State or Province		Country (if not U.S.)				

If you have attended more than six institutions of higher education, please continue this list in the "Comments" section on the back cover. Remember to include your doctoral institution and degree.

**A9. When you receive your doctoral degree, how much money will you owe that is directly related to your undergraduate and graduate education?**

Mark (X) one in each column

Undergraduate	Graduate
0 <input type="checkbox"/> None	0 <input type="checkbox"/> None
1 <input type="checkbox"/> \$5,000 or less	1 <input type="checkbox"/> \$5,000 or less
2 <input type="checkbox"/> \$5,001 - \$10,000	2 <input type="checkbox"/> \$5,001 - \$10,000
3 <input type="checkbox"/> \$10,001 - \$15,000	3 <input type="checkbox"/> \$10,001 - \$15,000
4 <input type="checkbox"/> \$15,001 - \$20,000	4 <input type="checkbox"/> \$15,001 - \$20,000
5 <input type="checkbox"/> \$20,001 - \$25,000	5 <input type="checkbox"/> \$20,001 - \$25,000
6 <input type="checkbox"/> \$25,001 - \$30,000	6 <input type="checkbox"/> \$25,001 - \$30,000
7 <input type="checkbox"/> \$30,001 - \$35,000	7 <input type="checkbox"/> \$30,001 - \$35,000
8 <input type="checkbox"/> \$35,001 - or more	8 <input type="checkbox"/> \$35,001 - or more

**A10. How many years were there between the date you first entered graduate school in any program or capacity and the date your doctorate was granted?**

Years   Round to whole years

**A11. How many years were you taking courses or preparing for exams required for or related to your doctoral degree?**

Years   Round to whole years

**A12. How many years did you spend on your dissertation (non-course related preparation or research, writing and defense)?**

Years   Round to whole years

## PART B - Postgraduation Plans

**B1. How definite are your immediate (within the next year) postgraduate plans?**

Mark (X) one

- 0  Am returning to, or continuing in, predoctoral employment → GO TO B2
- 1  Have signed contract or made definite commitment for other work or study → GO TO B2
- 2  Am negotiating with one or more specific organizations → SKIP TO B3
- 3  Am seeking position but have no specific prospects → SKIP TO B3
- 4  Other - Specify

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

Name  → SKIP TO B4

City  State  Country   
(if U.S.) (if not U.S.)

**B3. In what state or country do you intend to live after graduation (within the next year)?**

0  in U.S. → State

1  not in U.S. → Country

**B4. What best describes your immediate (within the next year) postgraduate plans?**

Mark (X) one

**Further Training or Study**

- 0  Postdoctoral fellowship → GO TO B5
- 1  Postdoctoral research associateship
- 2  Traineeship
- 3  Other study - Specify

**Career Employment**

- 4  Employment (other than 0, 1, 2, 3) → SKIP TO B6
- 5  Military service
- 6  Other - Specify

**B5. What will be the main source of financial support for your postdoctoral study/research within the next year?**

Mark (X) one

- 0  U.S. Government → SKIP TO C1
- 1  Industry/Business
- 2  College or university
- 3  Private foundation
- 4  Nonprofit, other than private foundation
- 5  Other - Specify
- 6  Unknown



**B6. For what type of employer will you be working within the next year?**

Mark (X) one

**EDUCATION**

- a.  U.S. 4-year college or university other than medical school
- b.  U.S. medical school (including university-affiliated hospital or medical center)
- c.  U.S. junior or community college or technical institute
- d.  Preschool, elementary, or secondary school in the U.S.
- e.  Foreign educational institution

**GOVERNMENT**

- f.  Foreign government
- g.  U.S. federal government
- h.  U.S. state government
- i.  U.S. local government

**PRIVATE SECTOR**

- j.  Nonprofit organization
- k.  Industry or business
- l.  Self-employed

**OTHER**

- m.  Other - Specify

**B7. 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.  Primary Activity

b.  Secondary Activity

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

**PART C - Background Information**

**C1. Are you -**

- 1  Male
- 2  Female

**C2. What is your marital status?**

Mark (X) one

- 1  Married
- 2  Living in a marriage-like relationship
- 3  Widowed
- 4  Separated/divorced
- 5  Never married

**C3. Not including yourself (or your spouse/partner), how many dependents do you have - that is, how many others receive at least one half of their support from you?**

Mark (X) box if none

	Number
5 years of age or younger	<input style="width: 30px; height: 15px;" type="text"/>
6 to 18 years	<input style="width: 30px; height: 15px;" type="text"/>
19 years or older	<input style="width: 30px; height: 15px;" type="text"/>

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

Mark (X) one for each parent

	a. Mother	b. Father
Less than high school/secondary school	1 <input style="width: 15px; height: 15px;" type="text"/>	1 <input style="width: 15px; height: 15px;" type="text"/>
High-school/secondary-school graduate	2 <input style="width: 15px; height: 15px;" type="text"/>	2 <input style="width: 15px; height: 15px;" type="text"/>
Some college	3 <input style="width: 15px; height: 15px;" type="text"/>	3 <input style="width: 15px; height: 15px;" type="text"/>
Bachelor's degree	4 <input style="width: 15px; height: 15px;" type="text"/>	4 <input style="width: 15px; height: 15px;" type="text"/>
Master's degree	5 <input style="width: 15px; height: 15px;" type="text"/>	5 <input style="width: 15px; height: 15px;" type="text"/>
Professional degree	6 <input style="width: 15px; height: 15px;" type="text"/>	6 <input style="width: 15px; height: 15px;" type="text"/>
Doctoral degree	7 <input style="width: 15px; height: 15px;" type="text"/>	7 <input style="width: 15px; height: 15px;" type="text"/>

**C5. What is your place of birth?**

State (if U.S.)

**OR**

Country (if not U.S.)

**C6. What is your date of birth?**

Month   Day   Year  1  9

**C7. What is your citizenship status?**

Mark (X) one

**U.S. Citizen:**

- 0  Native Born → **SKIP TO C9**
- 1  Naturalized → **SKIP TO C9**

**Non-U.S. Citizen:**

- 2  With a Permanent U.S. Resident Visa ("Green Card") → **GO TO C8**
- 3  With a Temporary U.S. Visa → **GO TO C8**

**C8. (IF A NON-U.S. CITIZEN) Of which country are you a citizen?**

(Specify country of present citizenship)

**C9. In what state or country was the high school/secondary school that you last attended?**

State (if U.S.)

**OR**

Country (if not U.S.)

**C10. Are you a person with a disability?**

1  Yes → **GO TO C11**

2  No → **SKIP TO C12**

**C11. (IF YES) Which of the following categories describes your disability(ies)?**

Mark (X) one or more

- a.  Blind/Visually Impaired
- b.  Deaf/Hard of Hearing
- c.  Physical/Orthopedic Disability
- d.  Learning/Cognitive Disability
- e.  Vocal/Speech Disability
- f.  Other - Specify

**C12. Are you Hispanic (or Latino)?**

1  Yes → **GO to C13**

2  No → **SKIP to C14**

**C13. (IF YES TO C12) Which of the following describes your Hispanic origin or descent?**

- 1  Mexican American or Chicano
- 2  Puerto Rican
- 3  Cuban
- 4  Other Hispanic - Specify

**C14. What is your racial background?**

Mark (X) one or more

a.  American Indian or Alaska Native

Specify tribal affiliation(s)

- b.  Native Hawaiian or other Pacific Islander
- c.  Asian
- d.  Black or African-American
- e.  White

**C15. Please fill in your U.S. Social Security number.**

**C16. In case we need to clarify some of the information you have provided, please list an E-mail address, website address (if applicable), and telephone numbers where you can be reached.**

E-mail address

Website address

Daytime telephone

Evening telephone

**C17. Please provide your address and the name and address of a person through which you could always be reached.**

**Current Address**

Number Street

City State Country Zip or Postal Code

**Contact Person**

Name

Number Street

City State Country Zip or Postal Code

Phone Number (including area or country code)

E-mail Address

**C18. 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's World Wide Web page at <http://www.nsf.gov/sbe/srs/srs00410>

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, NORC 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.



**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 agencies—listed on the cover—sponsor 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. If you have any comments about the survey, please provide them in the space below.

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

Best wishes,

Dr. Lynda Carlson  
National Science Foundation

**Comments About This Survey**

**Please return this questionnaire to your GRADUATE DEAN for forwarding to Survey of Earned Doctorates, NORC 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		C A D E	
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) } Combined in Table A -7  
 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) } Combined in Table A -7  
 Other Humanities  
 (720-729, 736-739, 770-799)

#### 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

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

