

Summary Report 1994

Doctorate Recipients from United States Universities

Highlights

The following data are derived from the Survey of Earned Doctorates, an annual census of new doctorate recipients. These data summarize the characteristics of all recipients of research doctorates earned in the U.S. from July 1, 1993 through June 30, 1994, a period referred to hereafter as 1994.

- The number of new Ph.D.s reached a record high of 41,011 in 1994: 7,734 in life sciences; 6,821 in physical sciences; 6,683 in education; 6,624 in social sciences; 5,826 in engineering; 4,743 in humanities; and 2,580 in professional/other fields.
- Women once again earned a record number of Ph.D.s (15,806 in 1994). Still, doctoral awards to men surpassed those to women in every broad field except education. Women were most outnumbered in the field of engineering.
- Non-U.S. citizens earned 33 percent of all doctorates awarded in 1994, including 61 percent of Ph.D.s in engineering and 46 percent in physical sciences. The majority of non-U.S. citizen Ph.D.s were from Asia. Among non-U.S. citizen Ph.D.s, those on temporary visas outnumbered those on permanent visas by two-and-a-half to one. This ratio was four to one in 1993, and would have remained the same in 1994 but for citizens of the People's Republic of China.
- Over 11 percent of the doctorates awarded to U.S. citizens in 1994 were earned by racial/ethnic minorities—Asian, Black, Hispanic and Native Americans. The fields with the largest percentages of minorities were education, in which Black Americans were the predominant minority group, and engineering, in which Asian Americans were the predominant minority.
- All U.S. minority groups have increased their numbers and proportions of new Ph.D.s since 1975. Black Americans, however, increased their numbers and proportions of new Ph.D.s only slightly since 1975 and not at all since 1993.
- Median time-to-degree was 10.8 years since the baccalaureate and 7.2 years since first enrollment in any graduate program.
- University funding (such as a teaching or research assistantship) was the primary source of support for the majority of 1994 Ph.D.s.
- Almost half (47 percent) of new Ph.D.s in 1994 reported debt related to their combined undergraduate and graduate education. The majority of those with debt reported owing more than \$10,000.
- Compared to 1974, a smaller proportion of Ph.D.s in 1994 reported definite postgraduation commitments. Of those with definite commitments, a smaller proportion of Ph.D.s planned to be employed and a larger proportion planned postdoctoral study than in 1974.

Summary Report 1994

Doctorate Recipients from United States Universities

The Survey of Earned Doctorates is conducted for the following agencies of the U.S. government:

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

Robert O. Simmons *Project Manager*

Delores H. Thurgood Senior Research Associate

OFFICE OF SCIENTIFIC AND ENGINEERING PERSONNEL NATIONAL RESEARCH COUNCIL

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NOTICE: The project that is the subject of this report was approved by the Governing Board of the National Research Council, whose members are drawn from the councils of the National Academy of Sciences, the National Academy of Engineering, and the Institute of Medicine. The survey project is part of the program of the Office of Scientific and Engineering Personnel (OSEP).

This report has been reviewed by a group of persons other than the authors according to procedures approved by a Report Review Committee consisting of members of the National Academy of Sciences, the National Academy of Engineering, and the Institute of Medicine.

The National Academy of Sciences is a private, nonprofit, self-perpetuating society of distinguished scholars engaged in scientific and engineering research, dedicated to the furtherance of science and technology and to their use for the general welfare. Under authority of the charter granted by Congress in 1863, the Academy has a mandate that requires it to advise the federal government on scientific and technical matters. Dr. Bruce M. Alberts is president of the National Academy of Sciences.

The National Academy of Engineering was established in 1964, under the charter of the National Academy of Sciences, as a parallel organization of outstanding engineers. It is autonomous in its administration and in the selection of its members, sharing with the National Academy of Sciences the responsibility for advising the federal government. The National Academy of Engineering sponsors engineering programs aimed at meeting national needs, encourages education and research, and recognizes the superior achievements of engineers. Dr. Harold Liebowitz is the president of the National Academy of Engineering.

The Institute of Medicine was established in 1970 by the National Academy of Sciences to secure the services of eminent members of appropriate professions in the examination of policy matters pertaining to the health of the public. The Institute acts under the responsibility given to the National Academy of Sciences by its congressional charter to be an adviser to the federal government and, upon its own initiative, to identify issues of medical care, areas of research, and topics for education. Dr. Kenneth I. Shine is president of the Institute of Medicine.

The National Research Council (NRC) was organized by the National Academy of Sciences in 1916 to associate the broad community of science and technology with the Academy's purposes of furthering knowledge and of advising the federal government. Functioning in accordance with general policies determined by the Academy, the Council has become the principal operating agency of both the National Academy of Sciences and the National Academy of Engineering in providing services to the government, the public, and the scientific and engineering communities. The Council is administered jointly by both Academies and the Institute of Medicine. Dr. Bruce M. Alberts and Dr. Harold Liebowitz are the chairman and vice-chairman, respectively, of the National Research Council.

This report is based on research conducted by OSEP with the support of the National Science Foundation (NSF), the National Institutes of Health (NIH), the National Endowment for the Humanities (NEH), the U.S. Department of Education (U.S. Dept. of Ed.), and the U.S. Department of Agriculture (USDA) under NSF Contract No. SRS-9309720. Opinions, findings, conclusions, or recommendations expressed in this publication are those of OSEP and do not necessarily reflect the views of the sponsoring agencies.

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PREFACE AND ACKNOWLEDGMENTS

This report presents a summary of the results of the 1993-94 Survey of Earned Doctorates (SED), which has been conducted each year since 1958 by the National Research Council's (NRC's) Office of Scientific and Engineering Personnel (OSEP) and its predecessor organizations. Questionnaires, distributed with the cooperation of the graduate deans of U.S. universities, are filled in by graduates as they complete requirements for their doctoral degrees. The doctorates are reported by academic year (from July 1 of one year through June 30 of the following year) and include research and applied-research doctorates in all fields. Doctoral degrees such as the Ph.D., D.Sc., and Ed.D. are covered by this survey; professional degrees (e.g., M.D., D.D.S., J.D., Psy.D.) are not covered. A full list of included degrees can be found inside the back cover. For convenience throughout this report, "Ph.D." is used to represent any of the doctoral degrees covered by the survey.

This Summary Report is the 28th in an annual series of reports that began in 1967.² All survey responses become part of the Doctorate Records File (DRF), a virtually complete database on doctorate recipients from 1920 to 1994. Almost 89 percent of the 1,144,206 records now in the DRF were created from results of the 1958-1994 surveys. For doctorates granted during the 1920-1957 period, information was compiled from commencement bulletins, registrars' records, and other published material.

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 National Endowment for the Humanities (NEH), the U.S. Department of Education (U.S. Dept. of Ed.), and the U.S. Department of Agriculture (USDA). The survey's relevance to national policy issues has increased, thanks to constructive reviews of the design and analysis of the survey by David Chananie (NIH), Nancy Schantz (U.S. Dept. of Ed.), Jay Jackman (USDA), Jeffrey Thomas and Julie Myers (NEH), and Mary Golladay and Susan Hill (NSF). Susan Hill (NSF) also serves as the project officer for the five sponsoring agencies. We would also like to acknowledge the graduate deans and their assistants in the doctorate-granting institutions for their interest and assistance. It is through their cooperation that

¹ The Survey of Earned Doctorates collects information on *research* doctorates only. This differs from the institutional collection of numbers of degrees that is done by the U.S. Department of Education on *all* doctorates. For an evaluation of the differences, see: National Science Foundation. 1993. *Science and Engineering Doctorates* 1960-1991. NSF 93-301. Detailed Statistical Tables. Washington, D.C. Pp. 2-6.

² Trend data from earlier periods can be found in Harmon, Lindsey R. 1978. A Century of Doctorates: Data Analysis of Growth and Change. Washington, D.C. National Academy of Sciences.

the DRF continues to serve as a useful resource for monitoring developments in graduate education in the country. Finally, we would like to thank all of the doctorate recipients who have completed the SED over the years.

The 1993-94 Survey of Earned Doctorates was conducted under the administrative supervision of Paula Ries. Robert Simmons collaborated with Delores Thurgood on the development of this year's report. Dr. Simmons analyzed the survey results and drafted all text in the body of the report. Dr. Simmons and Ms. Thurgood supervised the production of the figures. Ms. Thurgood drafted the technical notes and supervised the production of the tables. Ms. Thurgood, Julie Clarke, and George Orvis generated the data from the Doctorate Records File. Ms. Clarke and Martha Bohman prepared the final tables and figures for the report. Ms. Thurgood, Ms. Clarke, and Ms. Bohman reviewed the manuscript for accuracy.

Special appreciation is also expressed to the following people: Eileen Milner, manager of the unit responsible for collecting and processing the survey forms; John Hines, coding supervisor and institutional liaison; Gedamu Abraha and Daniel Fulwiler, coordinators of the follow-up effort; Joyce Hendrickson, Kevin Williams, Amy Dowd, and Barbara Schreiber, full-time coders; and the many hourly coders who contributed to the survey's processing. Special thanks are also expressed to Maren Herman, Joseph Finan, Cynthia Woods, George Boyce, and Daniel Fulwiler for their service on application development, project programming, database management, and computer operations.

The work of this project was overseen by the Advisory Committee of the Office of Scientific and Engineering Personnel, which is concerned with those activities of the NRC that contribute to the effective development and utilization of the nation's scholars and research personnel. In addition, an advisory panel made recommendations on the improvement of this important survey. Alan E. Fechter, Executive Director of OSEP, and Marilyn Baker, Associate Executive Director, also provided helpful guidance. Suggestions for improvement of the content or format of the report, other comments, and questions are welcome and may be directed to the authors of this report.

Linda Wilson, Chair Office of Scientific and Engineering Personnel Advisory Committee

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INTRODUCTION

Summary Report 1994 is the 28th in a series of reports on research doctorates awarded by U.S. colleges and universities. Like its predecessors, this report presents trends in doctorate production in the United States, describing the general demographic characteristics of doctorate recipients and the seven broad fields in which they earned their degrees. Each of the seven broad fields consists of several "major" fields (e.g., biological sciences is a major field within the broad field of life sciences, and psychology is a major field within the broad field of social sciences). The doctorate recipients themselves report their field of study and are counted accordingly. For a list of the fields discussed in this report, see the inside back cover and the specialties list in Appendix D. (Note: These field groupings may differ from those used by federal sponsors of the survey.)

The front section of Summary Report 1994 presents brief narratives of key survey findings, accompanied by figures showing selected trend data. The numbers and percentages from which the figures were drawn are provided in a set of tables following the front section; relevant tables are referenced at the bottom of the figures. The front section also includes major findings from data presented in tables but not in figures.

Although similar in content to last year's report, Summary Report 1994 presents additional data on citizenship, offers more sophisticated analyses of differences among demographic groups, and uses months as well as years to calculate medians.

Supplementary tables on 1994 doctorate recipients are displayed in Appendix A, and trend data on the 1984-1994 Ph.D. cohorts are presented in Appendix B. Appendix C provides technical notes that include nonresponse rates and other information related to tables and figures in the body of the report. Appendix D contains a copy of the survey questionnaire.

Additional information is available from the Doctorate Records Project upon request. For a cost, the Project offers tables on the baccalaureate origins of Ph.D.s by major field of doctorate and tables on the doctoral specialties of Ph.D.s by citizenship, race/ethnicity, and gender. Customized tables can also be prepared at cost. For more information, please contact:

Doctorate Records Project National Research Council OSEP—Room TJ 2006 2101 Constitution Avenue, N.W. Washington, D.C. 20418

Phone: (202) 334-3161 E-Mail: phdsurvy@nas.edu Fax: (202) 334-2753

*** IMPORTANT NOTICE ***

The estimates reported for the Survey of Earned Doctorates (SED) are simple tabulations of all available information with no adjustment for nonresponse. Therefore, differences in response rates from year to year can produce numerical fluctuations that are unrelated to real trends.

Although response to the SED has been 95 to 98 percent in most years, it declined to 92 percent during the 1980s. In an effort to improve the response rate, the survey methodology was modified in the years after 1989. Response has risen as hoped, stabilizing around 95 percent during the last four years (1991 to 1994). (Note: These percentages represent self-report rates, i.e., the proportion of questionnaires completed by doctorate recipients. While survey forms containing partial information filled in by either the doctoral institution or staff of the National Research Council are not included in these rates, tables in this report incorporate the available data from these forms.) The self-report rate for 1994 may increase slightly in the next year if additional questionnaires are received from doctorate recipients. See page 82 in Appendix C for a table giving survey response rates from 1964 to 1994.

Item response rates have shown a parallel improvement since 1990—a natural consequence of the increase in the overall self-report rate, as well as a result of format revisions to the questionnaire and follow-ups for missing information. In 1990, new follow-up procedures were implemented to increase coverage of several variables: birth year, gender, race/ethnicity, citizenship status, country of citizenship, baccalaureate year and institution, and postgraduation plans. Response rates for these variables have since improved—especially for citizenship and race/ethnicity, resulting in an increase in the reported numbers of minority Ph.D.s. The data for a given year are updated the following year with any responses received after survey closure. Postsurvey adjustment was most significant for 1990 and 1991 Ph.D.s, with the largest impact on the number of blacks. For both of these years, the total number of black Ph.D.s increased by about 7.5 percent in the year after survey closure. The survey cycle was then extended to allow receipt of more follow-up information before closure, resulting in much smaller postsurvey adjustments for both 1992 and 1993 data (a 1.4 percent increase in black Ph.D.s for 1992 and only a 0.2 percent increase for 1993). The same is expected for 1994 data.

Adjustments to data are presented in reports subsequent to the initial report for a survey. Updates for 1992 appeared in *Summary Report 1993*, and those for 1993 are included in this year's report (see Appendix Table B-2 for adjustments to racial/ethnic data). The data for 1994 will likewise be subject to further revision, but as for the last two years, adjustments are expected to be minimal. Updates to 1994 data will be presented in next year's report.

In using SED data, the reader should keep in mind that numerical trends are affected by fluctuations in response rates. Increasing or decreasing numbers in a citizenship or racial/ethnic group reflect to some degree any change in both overall survey response and item response.

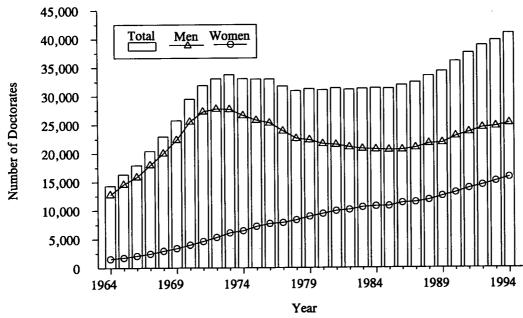
TRENDS IN DOCTORATE RECIPIENTS

Selected Demographic Characteristics

The number of new Ph.D.s increased to an all-time high of 41,011 in 1994. This record continues the upward trend in doctoral attainment that started in 1986 after a period of stagnation during the late 1970s and early 1980s. The doctorates awarded in 1994 were granted by 372 colleges and universities in the United States and Puerto Rico. "Ph.D." is used throughout this report to refer not just to the Doctor of Philosophy degree—and recipients of this degree—but also to any of the other doctoral degrees covered by the survey. Over 88 percent of the degrees earned in 1994 actually were the Doctor of Philosophy. More than two-thirds of the remaining degrees were Ed.D.s or other doctorates in education. A full list of included degrees can be found inside the back cover.

- Women once again earned a record number of Ph.D.s (15,806 in 1994), while men still fell short of their record number of doctorates in 1972 (25,205 in 1994 compared to 27,754 in 1972).
- While the number of male Ph.D.s in 1994 roughly doubled from 12,764 in 1964, the number of female Ph.D.s in 1994 increased more than ten-fold from 1,561 in 1964. Women's representation jumped from 11 percent in 1964 to an all-time high of 39 percent in 1994.

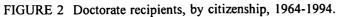
FIGURE 1 Doctorate recipients, total and by gender, 1964-1994.

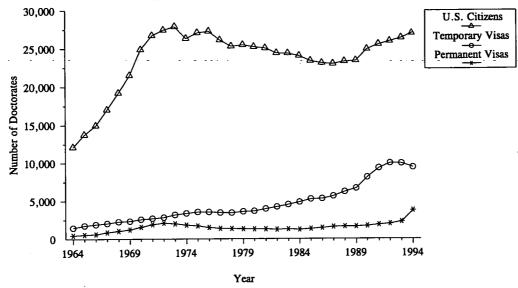


See Tables 1 and 2, page 21.

U.S. citizens earned over two-thirds of the doctorates awarded to those with known citizenship in 1994. (See Appendix Table B-2, page 78.) The 27,105 doctorates awarded to U.S. citizens is the highest such number since 1976 (27,269) and continues a recovery that began in 1988. Nevertheless, the share of doctorates awarded to non-U.S. citizens has increased steadily over the last 30 years, rising from less than 14 percent (1,931 Ph.D.s) in 1964 to almost 33 percent (13,134 Ph.D.s) in 1994.

- In 1994, non-U.S. citizen Ph.D.s on temporary visas outnumbered those on permanent visas by about two-and-a-half to one: 9,393 compared to 3,741. Temporary residents earned 23 percent of all Ph.D.s; permanent residents earned 9 percent. In 1993, the temporary-to-permanent ratio was four to one. (Note: Temporary residents are nonimmigrants who are granted visas for a specified temporary period. Permanent residents are immigrants who are granted permanent legal U.S. residence.)
- For the second consecutive year, the number of doctorates earned by temporary residents declined: from 9,921 Ph.D.s in 1993 to 9,323 Ph.D.s in 1994. The 23 percent share of Ph.D.s earned by temporary residents in 1994 is down from 26 percent in 1993, but is still much higher than their 10 percent share of Ph.D.s in 1964.
- Permanent residents surged from less than six percent of Ph.D.s in 1993 to over nine percent of Ph.D.s in 1994. Their 3,741 degrees in 1994 shattered 1993's record high of 2,254. (See Appendix Table B-2, page 78.)
- The four-to-one ratio of temporary to permanent residents' doctorates in 1993 would have been unchanged in 1994 but for citizens of the People's Republic of China (PRC). (See Table 4, page 23.) This can be explained by particular consequences of the 1989 Tiananmen Square massacre, an event widely reported to have given many temporary residents from the PRC the incentive to try to become eligible for permanent visas. The ratio of the numbers of doctorates earned by temporary and permanent residents began to change among PRC citizens in 1991. The change among PRC citizens, almost imperceptible at first, was large enough by 1993 to cause the first decline in 15 years in the number of doctorates earned by temporary residents overall. This process was then accelerated by the Chinese Student Protection Act of 1992, which made thousands of PRC citizens in the U.S. eligible to apply for permanent residency on July 1, 1993. Since this happened to be the date defined by this survey as the beginning of the 1994 academic year, the effect of this law on the 1994 figures was dramatic.
- Citizens of the People's Republic of China accounted for over a fifth (21 percent) of all non-U.S. Ph.D. recipients in 1994. (See Table 5, page 23.) Another third originated from three other Asian countries: Taiwan (12 percent), the Republic of Korea (11 percent), and India (10 percent).
- Among the leading countries of origin of non-U.S. Ph.D. recipients, Japan rose from tenth place in 1993 to seventh in 1994, accounting for almost two percent of non-U.S. doctorates. Lebanon entered the top 30, replacing the Netherlands.



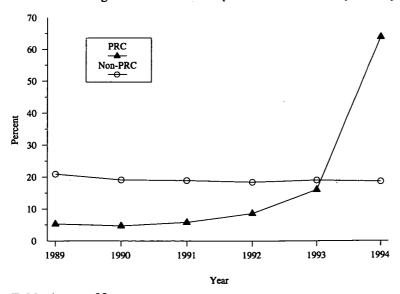


See Table 3 (page 22) and Appendix Table B-2 (page 78).

See technical notes in Appendix C for rates of nonresponse to the question on citizenship status.

SOURCE: National Research Council, Survey of Earned Doctorates.

FIGURE 3 Percentage of Ph.D.s who are permanent residents, by country of citizenship, 1989-1994.

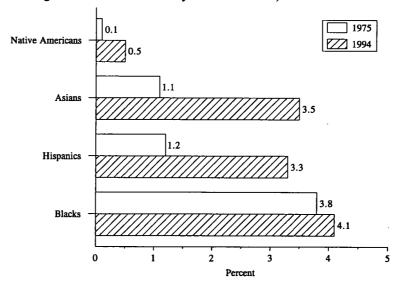


See Table 4, page 23.
See technical notes in Appendix C for rates of nonresponse to the questions on citizenship status and country.

Over 11 percent of the doctorates awarded to U.S. citizens in 1994 were earned by racial/ethnic minorities—Asian, Black, Hispanic and Native Americans. The minority share of these doctorates has increased by over five percentage points since 1975, and by almost two-tenths of a point since 1993.

- All U.S. minority groups have increased their numbers and proportions of Ph.D.s since 1975. Asian and Hispanic Americans roughly tripled their proportions, and the proportion of Native Americans earning doctorates increased even more sharply. These three groups also increased their shares of new doctorates from 1993 to 1994. (See Appendix Table B-2, page 78.)
- Black Americans decreased their share of Ph.D.s from 4.2 percent in 1993 to 4.1 percent in 1994 and also received fewer doctorates in 1994 than a year earlier (1,092 degrees compared to 1,107 in 1993). The 1,092 doctoral awards in 1994 did top the 998 Ph.D.s earned by blacks in 1975. Blacks' 4.1 percent share of doctorates in 1994 was higher than in 1975 (3.8 percent) but lower than in the peak year of 1977 (4.4 percent).
- Of the 20 institutions awarding the most baccalaureates to Black Americans who later received Ph.D.s between 1990 and 1994, 15 are Historically Black Colleges and Universities (HBCUs). (See Table 6, page 24.) Three HBCUs are also among the 20 institutions awarding the most Ph.D.s to Black Americans. (See Table 7, page 25.)

FIGURE 4 Percentage of doctorates earned by U.S. minorities, 1975 and 1994.



NOTE: Percentages are based on the number of U.S. citizen Ph.D.s with known race/ethnicity. The category of "Native Americans" includes American Indians and Alaskan Natives. The category "Asians" includes Pacific Islanders.

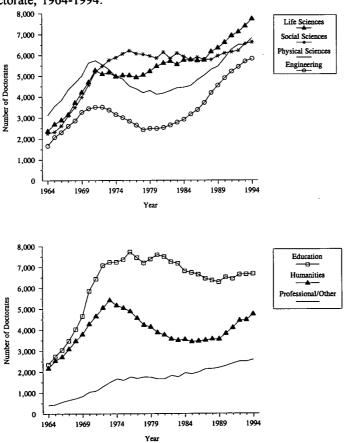
See Appendix Table B-2, page 78.

See technical notes in Appendix C for rates of nonresponse to citizenship and race/ethnicity.

Of the seven broad fields of study profiled in this report, life sciences had the largest number of Ph.D.s—7,734 in 1994. (See Table 2, page 21.)

- Within science and engineering, all broad fields reached new highs. Following life sciences was the field of physical sciences (6,821 Ph.D.s), which outnumbered social sciences (6,624 Ph.D.s) and engineering (5,826 Ph.D.s). Social science Ph.D.s had outnumbered physical science Ph.D.s in 1993, and social sciences outnumbered all three of these other broad fields every year but one from 1973 through 1987.
- Among the nonscience fields in 1994, education continued to outstrip humanities and professional/other fields, producing 6,683 Ph.D.s, compared to 4,743 in humanities and 2,580 in professional/other fields. However, the number of doctorates in humanities reached its highest level since 1976, and professional/other fields was the only broad nonscience field to break its previous record number of doctorates.

FIGURE 5 Field of doctorate, 1964-1994.

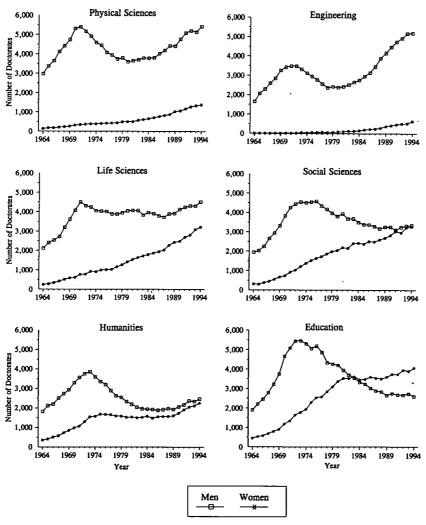


See Tables 2 (page 21), 3 (page 22) or 8 (page 26); and Appendix Table B-1, pages 74-77.

In 1994, doctoral awards to men surpassed those to women in all but one broad field—education. Women predominated in the field of education with 61 percent of all doctorates and were near parity in social sciences and humanities. However, women remained substantially outnumbered in the fields of life sciences (42 percent of Ph.D.s), physical sciences (20 percent), and engineering (11 percent).

• Although women Ph.D.s increased in every broad field over the last 30 years, men experienced major declines after the early 1970s in social sciences, humanities, and education. While men's numbers in social sciences have stabilized in recent years, and their numbers in humanities have slowly risen, their decline in the field of education has continued. The number of education doctorates awarded to men in 1994 was less than half the number in 1974.

FIGURE 6 Field of doctorate, by gender of doctorate recipients, 1964-1994.

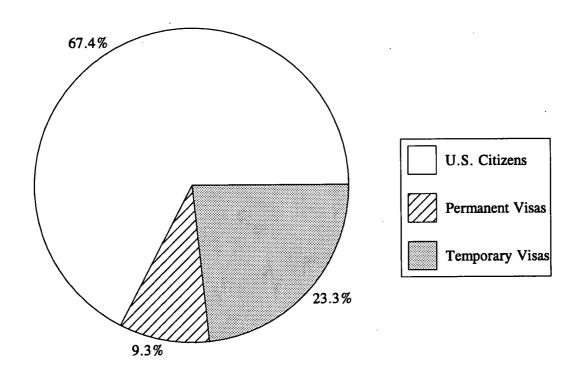


See Table 2, page 21.

Non-U.S. citizens earned 33 percent of all doctorates awarded in 1994. Fields varied in their proportions of non-U.S. citizens—ranging from 61 percent of Ph.D.s in engineering and 46 percent in physical sciences, to just 11 percent in education. U.S. citizens received more than three-quarters of the doctorates awarded in social sciences, humanities, and education.

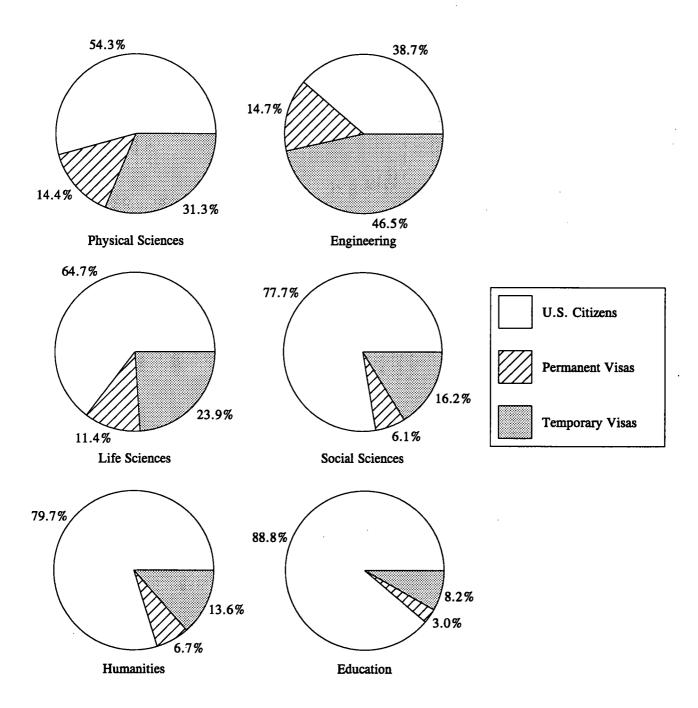
• Temporary residents earned their greatest number of doctorates in engineering (2,656), followed by physical sciences (2,085) and life sciences (1,829); permanent residents were most concentrated in physical sciences (964), followed by life sciences (873) and engineering (839). U.S. citizens most frequently selected education (5,842), although their numbers in social sciences (4,998) and life sciences (4,947) were also large.

FIGURE 7a Citizenship status of doctorate recipients in all fields, 1994.



See Table 3, page 22. See technical notes in Appendix C for rates of nonresponse to the question on citizenship status.

FIGURE 7b Citizenship status of doctorate recipients, by broad field, 1994.



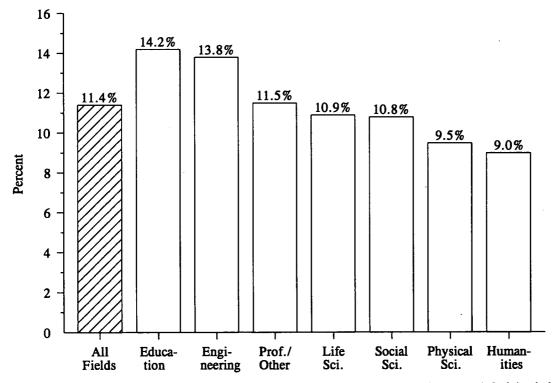
See Table 3, page 22.

See technical notes in Appendix C for rates of nonresponse to the question on citizenship status.

Racial/ethnic minorities received over 11 percent of all doctorates awarded to U.S. citizens in 1994. As a group, they accounted for 14 percent of the doctorates in education and engineering and 9 to 12 percent in each of the other broad fields.

- Black Americans received more than half of the doctorates awarded to minorities in the field of education in 1994; they were also the predominant minority recipients of degrees in social sciences and professional/other fields. Asian Americans accounted for well over half of minority Ph.D.s in engineering and physical sciences and also earned more doctorates in life sciences than any other minority group. Hispanic Americans were the predominant minority group receiving doctorates in humanities. (See Table 9, page 27.)
- Black, Hispanic, and Native Americans in 1994 earned their greatest numbers of doctorates in the field of education, followed by social sciences. Life sciences and engineering were the leading fields among Asian Americans.

FIGURE 8 Percentage of Ph.D.s awarded to U.S. minorities, by broad field, 1994.



NOTE: Percentages are based on the total number of U.S. citizen Ph.D.s whose race/ethnicity is known. Minorities include Asian, Black, Hispanic, and Native Americans.

See Table 9, page 27.

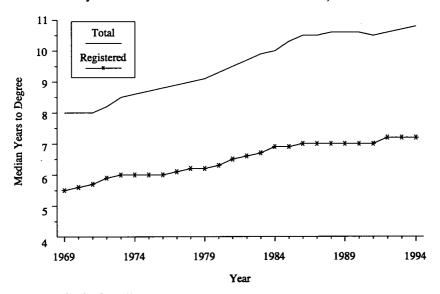
See technical notes in Appendix C for rates of nonresponse to the questions on citizenship and race/ethnicity.

Time-to-Degree

Total time-to-degree (TTD) measures the number of years elapsed between receipt of the baccalaureate and the Ph.D. Registered time-to-degree (RTD) gauges the amount of time actually enrolled in graduate school; RTD includes master's degrees, enrollment in nondegree programs, and time spent working on the dissertation.

- Median TTD has increased steadily since 1991 from 10.5 years to 10.8 years, nearly three years longer than the medians for 1969 to 1971 (8.0 years). Median RTD has been stable at 7.2 years since 1992, after growing to that level from 5.5 years in 1969. (See Table 10, page 28.)
- Both TTD and RTD varied considerably by field. In 1994, doctorate recipients in education had the longest median TTD (19.7 years), while those in physical sciences had the shortest median TTD (8.5 years). The longest median RTD was in the humanities (8.5 years), and the shortest median RTD was in engineering (6.4 years).
- Time-to-degree was longer for women than for men, but this difference often disappeared within the same broad field. (See Table 11, page 29.) Black Americans had the longest time-to-degree of all U.S. racial/ethnic groups, largely because their highest percentage of degrees was in the field of education. Both permanent residents and U.S. citizens exhibited longer time-to-degree than did temporary residents.

FIGURE 9 Median years to doctorate from baccalaureate award, 1969-1994.



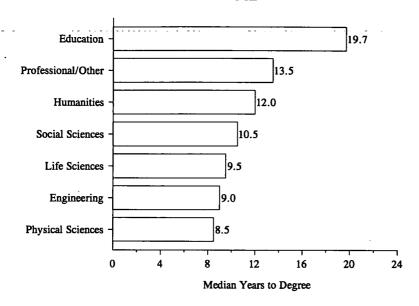
NOTE: The method of median computation has been revised since last year. See technical notes in Appendix C for explanation of the revision (page 89) and also for rates of nonresponse to the applicable questions (pages 84-85).

See Tables 10 and 11, pages 28 and 29.

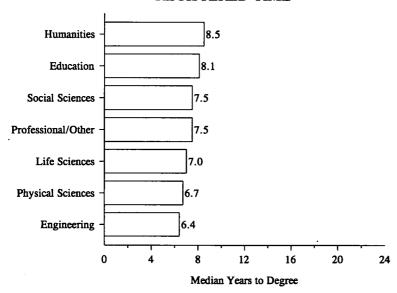
Time-to-Degree 13

FIGURE 10 Median years to doctorate from baccalaureate award, by broad field, 1994.

TOTAL TIME



REGISTERED TIME



NOTE: The method of median computation has been revised since last year. See technical notes in Appendix C for explanation of the revision (page 89) and also for rates of nonresponse to the applicable questions (pages 84-85).

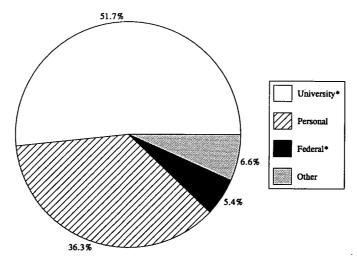
See Tables 10 and 11, pages 28 and 29.

Financial Support

As in the previous three years, university funding (mostly via teaching and research assistantships) was the primary source of graduate school support for the majority of 1994 Ph.D.s (52 percent). (See Table 12, page 30.) Another 36 percent of Ph.D.s were primarily supported by personal resources (own earnings; family contributions; loans) and the remaining 12 percent by other resources (federal or state governments; nonfederal competitive fellowships; businesses/employers).

- The type of primary support varied greatly by field. University sources were most common in the physical and life sciences and in engineering (reported by well over half of recipients). Personal resources were easily the most typical in education (reported by 79 percent of recipients).
- Male Ph.D. recipients were primarily supported by their university; female Ph.D. recipients relied primarily on personal resources. Over two-thirds of non-U.S. citizens reported university support as their primary source of financing, whereas U.S. citizens were somewhat more apt to be supported by personal than by university resources. In most U.S. racial/ethnic groups, the largest proportion of Ph.D.s also indicated personal funds as their primary source of financial support; however, university funding was the chief means of support for more than half of Asian Americans. These differences were due in large part to the field concentrations of the various demographic groups. Even within most fields, however, university funding was more likely to be the primary means of support for Asian Americans than it was for Black and Hispanic Americans.

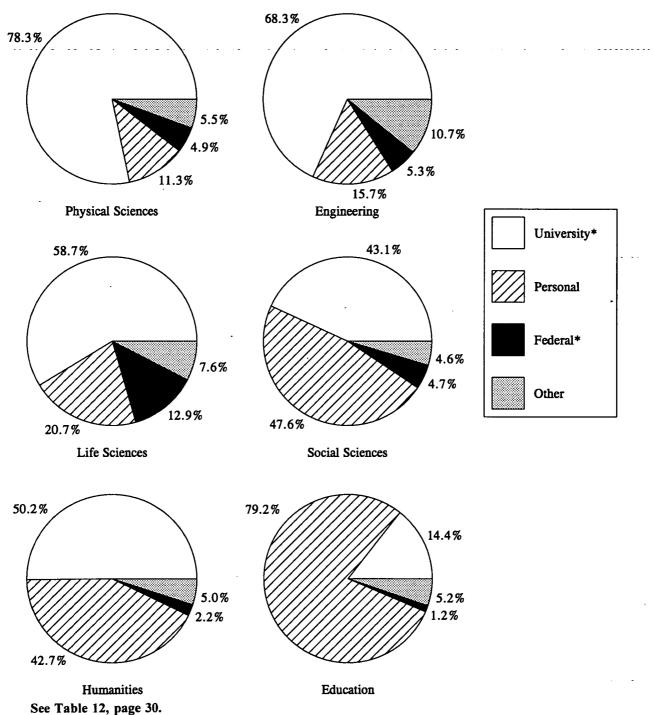
FIGURE 11a Primary sources of financial support for doctorate recipients, all fields, 1994.



See Table 12, page 30.
See technical notes in Appendix C for rates of nonresponse to this question.

^{*}Research assistantships funded by the federal government are counted as university support.

FIGURE 11b Primary sources of financial support for doctorate recipients, by broad field, 1994.



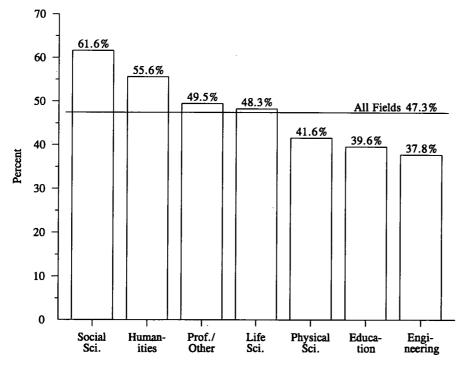
See technical notes in Appendix C for rates of nonresponse to this question.

^{*}Research assistantships funded by the federal government are counted as university support.

Almost half (47 percent) of all Ph.D.s in 1994 reported debt related to their combined undergraduate and graduate education. The majority of those with debt reported owing more than \$10,000.

- Doctorate recipients in engineering were the least likely to have incurred educational debt (38 percent), while those in social sciences were the most likely (62 percent). Indebted social scientists also owed the most money: over three-fifths of social science Ph.D.s with debt owed more than \$10,000, and over one-fifth owed more than \$30,000. In contrast, more than half of the indebted Ph.D.s in both the life sciences and the physical sciences owed \$10,000 or less. (See Table 13, page 31.)
- Men and women reported debt in equal proportions and had about the same levels of debt. Non-U.S. citizens were much less likely to have incurred debt than U.S. citizens, the majority of whom were indebted. Temporary residents were more likely than permanent residents to report debt and to report a very high level of debt (Table 14, page 31); this is surprising in that temporary residents rely less than permanent residents on personal sources of support, the category that includes loans (Table 12, page 30). Hispanic Americans were the most likely of U.S. racial/ethnic groups to have educational debt. Black Americans were the most likely to report the highest level of debt. (See Table 14, page 31.)

FIGURE 12 Percentage of Ph.D.s with debt, total and by broad field, 1994.



See Table 13, page 31.

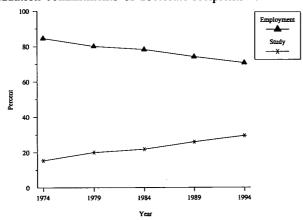
See technical notes in Appendix C for rates of nonresponse to the question on debt.

Postgraduation Plans

The proportion of Ph.D.s reporting definite postgraduation commitments declined from about two-thirds in the 1970s and 1980s to about three-fifths in 1994. (See "Definite commitments," page 87.) Of those Ph.D.s in 1994 who did report having definite postgraduation commitments, 71 percent planned to be employed while 29 percent planned postdoctoral study. (Postdoctoral appointments are considered to be study rather than employment in this report.) The proportion of new Ph.D.s with postdoctoral study plans has steadily increased since 1974, when only 15 percent planned further study. (See Table 15, page 32.)

- Doctorate recipients in education and professional/other fields were the most likely to have work plans (96 percent), followed closely by Ph.D.s in the humanities (93 percent). Study plans were by far most common in the life sciences (64 percent).
- The majority of Ph.D.s in every major demographic group planned to work rather than pursue further study after graduation. However, women were even more inclined towards employment than were men, and U.S. citizens were even more apt to work than were foreign citizens. A significant proportion of permanent visa-holders (45 percent) planned to continue their studies. Among the aggregate of U.S. citizens and permanent residents, blacks had the largest proportion with work plans (about 83 percent), and Asians had the largest proportion with study plans (49 percent). (See Table 16, page 33.) These patterns are explained mainly—and for blacks and women, entirely—by the fields in which these different groups tend to earn degrees.

FIGURE 13 Postgraduation commitments of doctorate recipients for selected years, 1974-1994.



NOTE: Only Ph.D.s with definite commitments are included. Percentages are based on the number of Ph.D.s whose specific plans are known.

See Tables 15 and 16, pages 32 and 33.

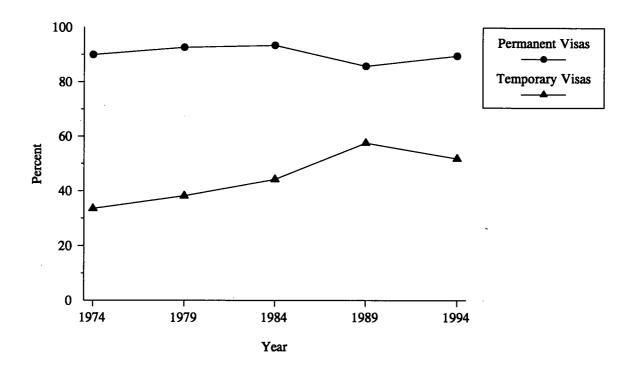
See technical notes in Appendix C for rates of nonresponse to the applicable questions and for further explanation of postgraduation plans.

Postgraduation Plans

Of those who reported definite postdoctoral commitments in 1994, permanent residents were much more likely than temporary residents to plan to remain in the United States immediately after graduation (90 percent versus 52 percent). However, the proportion of temporary resident Ph.D.s planning to stay was higher in 1994 than in 1974 (34 percent). Among permanent residents, the percentage of Ph.D.s reporting plans to stay in the United States was about the same as twenty years ago. (See Table 17, page 34.)

• Postdoctoral study was planned by over half of the temporary residents who intended to remain in the United States, while permanent residents who intended to remain in the United States were more apt to work than to study. (See Table 18, page 35.)

FIGURE 14 Percentage of non-U.S. citizen doctorate recipients with definite plans to remain in the United States after graduation, by visa status for selected years, 1974-1994.



NOTE: Only Ph.D.s with definite commitments are included in the percentage computations.

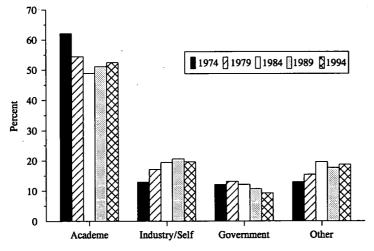
See Table 17, page 34.

See technical notes in Appendix C for rates of nonresponse to the applicable questions.

In 1994, as in earlier years, academe was the primary employer of U.S. citizens and permanent residents who had definite commitments for employment in the United States after graduation. However, the proportion of Ph.D.s intending to work in academe was smaller than 20 years ago (52 percent in 1994 versus 62 percent in 1974). (See Table 19, page 36.)

- Plans for employment in industry (including self-employment) increased from 13 percent of Ph.D.s in 1974 to 20 percent of Ph.D.s in 1994. "Other" employment sectors (namely K-12 schools and nonprofit organizations) showed almost as great an increase as industry, from 13 percent in 1974 to 19 percent in 1994.
- The sector of planned employment varied by field. In 1994, academic employment plans were most predominant in the humanities (85 percent) and professional/other fields (73 percent). Industry was most frequently reported among engineers (61 percent) and physical scientists (47 percent).
- Academic employment plans were more prevalent among women than men (59 percent versus 47 percent), and the proportion of men in industry (26 percent) was more than twice that of women. The majority of Ph.D.s in every racial/ethnic group but Asians reported plans to work in academe. Asians favored industry (49 percent) over academic employment (38 percent). (See Table 20, page 37.) The sectors chosen by the various demographic groups are partially explained by their fields of specialization.

FIGURE 15 Employment sector of doctorate recipients with postgraduation commitments in the United States for selected years, 1974-1994 (U.S. citizens and permanent residents).



NOTE: Only Ph.D.s with definite commitments for employment are included. Foreign locations are excluded. Percentages are based on the number of Ph.D.s whose employment sector is known. Government includes federal, state, and local government agencies in the United States.

See Tables 19 and 20, pages 36 and 37.

See technical notes in Appendix C for rates of nonresponse to this question.

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TABLE 1 Doctorates Awarded by U.S. Colleges and Universities, 1964-1994

Year	Number	Year	Number	Year	Number	Year	Number
-1964 -	14,325	1972	- 33,041-	1980	31,020	1988	33,499
1965	16,340	1973	33,755	1981	31,356	1989	34,324
1966	17,949	1974	33,047	1982	31,111	1990	36,067
1967	20,403	1975	32,952	1983	31,283	1991	37,518
1968	22,937	1976	32,946	1984	31,337	1992	38,850
1969	25,743	1977	31,716	1985	31,298	1993	39,755
1970	29,498	1978	30,875	1986	31,899	1994	41,011
1971	31,867	1979	31,239	1987	32,367		

SOURCE: National Research Council, Survey of Earned Doctorates.

TABLE 2 Gender of Doctorate Recipients, by Broad Field for Selected Years, 1964-1994

Field/Gender	1964	1969	1974	1979	1984	1989	1994
All Fields	14,325	25,743	33,047	31,239	31,337	34,324	41,011
Men	12,764	22,355	26,594	22,302	20,638	21,812	25,205
Women	1,561	3,388	6,453	8,937	10,699	12,512	15,806
Physical Sciences*	3,115	5,005	4,976	4,299	4,452	5,455	6,821
Men	2,979	4,743	4,592	3,803	3,795	4,425	5,438
Women	136	262	384	496	657	1,030	1,383
Engineering	1,664	3,265	3,147	2,490	2,913	4,543	5,826
Men	1,654	3,255	3,114	2,428	2,762	4,168	5,191
Women	10	10	33	62	151	375	635
Life Sciences	2,361	4,204	4,964	5,223	5,758	6,341	7,734
Men	2,117	3,622	4,058	3,952	3,965	3,917	4,516
Women	244	582	906	1,271	1,793	2,424	3,218
Social Sciences	2,258	3,984	5,882	5,961	5,929	5,961	6,624
Men	1,946	3,317	4,501	3,969	3,503	3,265	3,349
Women	312	667	1,381	1,992	2,426	2,696	3,275
Humanities	2,169	3,788	5,170	4,141	3,536	3,553	4,743
Men	1,819	2,937	3,594	2,549	1,947	1,940	2,479
Women	350	851	1,576	1,592	1,589	1,613	2,264
Education	2,351	4,659	7,241	7,385	6,808	6,278	6,683
Men	1,902	3,753	5,302	4,277	3,337	2,669	2,610
Women	449	906	1,939	3,108	3,471	3,609	4,073
Professional/Other	407	838	1,667	1,740	1,941	2,193	2,580
Men	347	728	1,433	1,324	1,329	1,428	1,622
Women	60	110	234	416	612	765	958

^{*}Includes mathematics and computer sciences.

TABLE 3 Citizenship Status of Doctorate Recipients, by Broad Field for Selected Years, 1964-1994

							
Field/Citizenship	1964	1969	1974	1979	1984	1989	1994
All Fields	14,325	25,743	33,047	31,239	31,337	34,324	41,011
U.S. Citizens	12,121	21,541	26,343	25,464	24,027	23,400	27,105
Non-U.S., Permanent Visas	468	1,235	1,826	1,320	1,224	1,626	3,741
Non-U.S., Temporary Visas	1,463	2,334	3,359	3,587	4,832	6,646	9,393
Unknown Citizenship	273	633	1,519	868	1,254	2,652	772
Physical Sciences*	3,115	5,005	4,976	4,299	4,452	5,455	6,821
U.S. Citizens	2,600	4,114	3,672	3,287	3,130	3,233	3,623
Non-U.S., Permanent Visas	103	252	375	262	197	269	964
Non-U.S., Temporary Visas	349	527	738	667	991	1,536	2,085
Unknown Citizenship	63	1,12	191	83	134	417	149
Engineering	1,664	3,265	3,147	2,490	2,913	4,543	5,826
U.S. Citizens	1,288	2,387	1,752	1,293	1,239	1,864	2,211
Non-U.S., Permanent Visas	109	349	515	322	274	365	839
Non-U.S., Temporary Visas	247	460	704	815	1,269	1,940	2,656
Unknown Citizenship	20	69	176	60	131	374	120
Life Sciences	2,361	4,204	4,964	5,223	5,758	6,341	7,734
U.S. Citizens	1,830	3,334	3,690	4,197	4,566	4,533	4,947
Non-U.S., Permanent Visas	81	200	320	208	193	264	873
Non-U.S., Temporary Visas	413	617	727	683	821	1,152	1,829
Unknown Citizenship	37	53	227	135	178	392	85
Social Sciences	2,258	3,984	5,882	5,961	5,929	5,961	6,624
U.S. Citizens	1,915	3,400	4,862	5,074	4,782	4,306	4,998
Non-U.S., Permanent Visas	76	159	213	181	194	227	393
Non-U.S., Temporary Visas	203	327	520	506	635	824	1,045
Unknown Citizenship	64	98	287	200	318	604	188
Humanities	2,169	3,788	5,170	4,141	3,536	3,553	4,743
U.S. Citizens	1,957	3,373	4,518	3,652	2,962	2,725	3,713
Non-U.S., Permanent Visas	70	167	224	157	145	210	313
Non-U.S., Temporary Visas	80	140	216	200	252	346	632
Unknown Citizenship	62	108	212	132	1 7 7	272	85
Education	2,351	4,659	7,241	7,385	6,808	6,278	6,683
U.S. Citizens	2,199	4,266	6,558	6,568	5,912	5,245	5,842
Non-U.S., Permanent Visas	16	70	102	117	130	164	198
Non-U.S., Temporary Visas	120	191	302	481	540	450	537
Unknown Citizenship	16	132	279	219	226	419	106
Professional/Other	407	838	1,667	1,740	1,941	2,193	2,580
U.S. Citizens	332	667	1,291	1,393	1,436	1,494	1,771
Non-U.S., Permanent Visas	13	38	77	73	91	127	161
Non-U.S., Temporary Visas	51	72	152	235	324	398	609
Unknown Citizenship	<u> 11</u>	61	147	• 39	90	174	39

NOTE: See Table 4 for information related to the changing visa status of non-U.S. citizen Ph.D.s in recent years. See technical notes in Appendix C for rates of nonresponse to the question on citizenship status.

^{*}Includes mathematics and computer sciences.

TABLE 4 Visa Status of Ph.D.s from the People's Republic of China Versus Other Non-U.S. Citizens, 1989-1994

		1989	1990	1991	1992	1993	1994
Total Non-U.S. Citizens	N	8,272	9,791	11,165	11,929	12,175	13,134
Permanent Visas	%	19.7	17.3	16.6	16.6	18.5	28.5
Temporary Visas	%	80.3	82.7	83.4	83.4	81.5	71.5
People's Republic of China Citizens	N	656	1,225	1,919	2,238	2,416	2,768
Permanent Visas	%	5.3	4.7	5.8	8.6	16.1	64.6
Temporary Visas	%	94.7	95.3	94.2	91.4	83.9	35.4
Other Non-U.S. Citizens	N	7,616	8,566	9,246	9,691	9,759	10,366
Permanent Visas	%	20.9	19.1	18.9	18.4	19.1	18.8
Temporary Visas	%	79.1	80.9	81.1	81.6	80.9	81.2

NOTE: See technical notes in Appendix C for rates of nonresponse to the questions on country of citizenship and citizenship status.

SOURCE: National Research Council, Survey of Earned Doctorates.

TABLE 5 Leading Countries of Origin of Non-U.S. Citizens Earning Ph.D.s at U.S. Colleges and Universities, 1994 (ranked on number of Ph.D.s)

Co	untry	Number	Country	Number
1.	People's Republic of China*	2,768	16. Pakistan	137
2.	Taiwan*	1,577	17. France	132
3.	Republic of Korea†	1,473	Hong Kong	130
4.	India	1,287	19. Egypt	125
5.	Canada	490	20. Spain	113
6.	Germany	257	21. Nigeria	112
7.	Japan	235	22. Italy	108
8.	England	215	23. Malaysia	108
9.	Brazil	202	24. Saudi Arabia	107
10.	Iran	193	25. Indonesia	98
11.	Greece	188	26. Australia	96
12.	Mexico	176	27. Jordan	92
13.	Turkey	163	28. Lebanon	89
14.	Thailand	155	29. The Philippines	89
15.	Israel	142	30. Sri Lanka	83
			Top 30 Countries of Origin	11,140
			Total Countries Reported (150)	13,049

NOTE: The total number of non-U.S. citizens who earned doctorates in 1994 was 13,134; nearly all (13,049 Ph.D.s) reported their country of origin. See technical notes in Appendix C for rates of nonresponse to the questions on country of citizenship and citizenship status.

^{*}An additional 16 Ph.D.s indicated "China" as their country of citizenship, but the specific origin could not be determined. Data for these recipients are excluded from this table.
†Includes "Korea" (unspecified). The Democratic People's Republic of Korea (North Korea) does not permit its citizens to study in the United States.

TABLE 6 Leading U.S. Baccalaureate Institutions of U.S. Minority Ph.D.s, 1990-1994 (ranked on number of Ph.D.s)

Institution	Number	Institution	Number
Asians		<u>Hispanics</u>	
Univ. of California-Berkeley	255	Univ. of Puerto Rico-Rio Piedras	497
Univ. of California-Los Angeles	134	Univ. of Puerto Rico-Mayaguez	91
Univ. of Hawaii-Manoa	123	Univ. of California-Berkeley	źi
Massachusetts Inst. of Technology	109 '	Univ. of Texas-Austin	63
Harvard Univ.	81	Univ. of California-Los Angeles	59
Cornell Univ.	70	Univ. of Miami	53
Univ. of California-Davis	60	Univ. of New Mexico	51
Univ. of Illinois-Urbana/Champaign	59	Univ. of Arizona	40
Stanford Univ.	54	Catholic Univ. of Puerto Rico	40
California Inst. of Technology	52	Univ. of Texas-El Paso	39
Univ. of Washington	49	California State UnivLos Angeles	39
Univ. of Michigan	46	Univ. of California-Santa Barbara	39
Univ. of California-Irvine	46	Cornell Univ.	36
Yale Univ.	43	Inter American UnivSan German	34
Univ. of Southern California	39	Florida International Univ.	32
Univ. of Maryland-College Park	37	Harvard Univ.	30
Columbia Univ.	30	Univ. of California-Irvine	30
Univ. of Chicago	30	City Univ. of NY-City College	29
Johns Hopkins Univ. Univ. of Texas-Austin	28	Univ. of Florida	29
Univ. of Texas-Austin	28	Univ. of California-San Diego	29
Top 20 U.S. Institutions	1.373	Top 20 U.S. Institutions	1,331
Total U.S. Institutions Reported (492)	3,026	Total U.S. Institutions Reported (658)	3,695
Blacks		Native Americans	
Howard Univ.*	122	Univ. of Oklahoma	17
Spelman College*	73	Northeastern State Univ.	15
Hampton Univ.*	71	Oklahoma State Univ.	15
Tuskegee Univ.*	66	Pembroke State Univ.	19
North Carolina A & T St. Univ.*	63	Univ. of Arkansas-Fayetteville	9
Wayne State Univ.	58	Univ. of Central Oklahoma	8
Southern Univ. & A&M UnivBaton Rou	ige* 55	Univ. of Montana	8
North Carolina Central Univ.*	50	Univ. of Colorado-Boulder	7
Florida A & M Univ.*	50	Northern Arizona Univ.	8 8 7 7 7 7 6
South Carolina State Univ.*	46	Univ. of California-Berkeley	7
Jackson State Univ.*	46	Univ. of California-Santa Barbara	7
Chicago State Univ.	44	Univ. of Illinois-Urbana/Champaign	6
Fisk Univ.*	44	Western Washington Univ.	6
Texas Southern Univ.*	44	Cornell Univ.	5
Tennessee State Univ.*	43	Michigan State Univ.	5
Morgan State Univ.*	42	Univ. of South Dakota	6 5 5 5 5 5
Univ. of Maryland-College Park	40	Univ. of Virginia	5
Univ. of Michigan	39	Arizona State Univ.	5
Temple Univ.	37	Univ. of Washington	5
Clark Atlanta Univ.*	37	Tom 10 II C to did at a con-	150
Ton 20 II C Institutions	1.070	Top 19 U.S. Institutions	150
Top 20 U.S. Institutions Total U.S. Institutions Paperted (835)	1,070 4,026	Total U.S. Institutions Reported (356)	635
Total U.S. Institutions Reported (835)	4,926		

Note: Approximately 1,850 U.S. institutions awarded baccalaureate degrees to U.S. citizens who received Ph.D.s between 1990 and 1994.

NOTE: See technical notes in Appendix C for total numbers of U.S. minority Ph.D.s in this period, the percentage reporting foreign institutions, and rates of nonresponse to baccalaureate institution, citizenship, and race/ethnicity.

^{*}This institution is one of the "Historically Black Colleges and Universities" (HBCUs) that were founded during legal segregation in the late 1800s and early 1900s for the specific purpose of educating blacks. There are currently 103 HBCUs, 90 of which award baccalaureates.

TABLE 7 Leading Ph.D. Institutions of U.S. Minority Ph.D.s, 1990-1994 (ranked on number of Ph.D.s)

Institution	Number	Institution	Number
Asians		Hispanics	
Univ. of California-Berkeley	208	Univ. of Texas-Austin	122
Univ. of California-Los Angeles	203	Univ. of Puerto Rico-Rio Piedras	118
Stanford Univ.	155	Univ. of California-Los Angeles	109
Univ. of Southern California	125	Univ. of California-Berkeley	100
Univ. of Illinois-Urbana/Champaign	112	Texas A & M Univ.	96
Harvard Univ.	93	Univ. of Massachusetts-Amherst	76
Massachusetts Inst. of Technology	91	Harvard Univ.	75
Univ. of Hawaii-Manoa	84	New York Univ.	75
Univ. of Michigan	81	Stanford Univ.	71
Univ. of Washington	68	Univ. of Michigan	68
Cornell Univ.	64	Univ. of Southern California	65
Univ. of California-Davis	57	Univ. of Miami	64
Univ. of California-Irvine	56	Univ. of New Mexico	62
Univ. of Maryland-College Park	54	CUNY-Grad. School & Univ. Center	59
Yale Univ.	53	Univ. of Arizona	59
Univ. of Texas-Austin	52	Univ. of Wisconsin-Madison	58
Northwestern Univ.	51	Univ. of Illinois-Urbana/Champaign	50
Univ. of Wisconsin-Madison	51	Columbia UnivTeachers College	47
Univ. of California-San Diego	51	Penn State Univ.	46
Oliv, Or California Ban 210go	51	Univ. of Florida	46
Top 19 Institutions	1,709	Univ. of California-Davis	46
Total Institutions Reported (285)	4,103	Onv. of Camonia Davis	.0
Total Institutions Reported (200)	4,105	Top 21 Institutions	1,512
Blacks		Total Institutions Reported (280)	3,942
Diagram		10th Institutions 1top over (200)	-,
Howard Univ.*	180	Native Americans	
Clark Atlanta Univ.*	168	170027 V 131104140110	
Nova Southeastern Univ.	161	Oklahoma State Univ.	22
Columbia UnivTeachers College	130	Univ. of Oklahoma	22
Univ. of Maryland-College Park	113	Penn State Univ.	13
Ohio State Univ.	111	Northern Arizona Univ.	12
Wayne State Univ.	110	Univ. of California-Berkeley	12
Univ. of Massachusetts-Amherst	91	Univ. of Wisconsin-Madison	11
Temple Univ.	90	Univ. of Texas-Austin	10
Univ. of Michigan	88	Univ. of Washington	10
Florida State Univ.	74	Univ. of Oregon	10
Univ. of North Carolina-Chapel Hill	$7\overline{0}$	Stanford Univ.	10
Univ. of Pittsburgh	64	Harvard Univ.	ğ
Texas Southern Univ.*	64	Univ. of Michigan	ģ
Univ. of South Carolina	62	Univ. of Arkansas-Fayetteville	ģ
Univ. of California-Berkeley	60	Texas A&M Univ.	ģ
Michigan State Univ.	58	Univ. of Arizona	ģ
Univ. of Florida	58 58	Univ. of Illinois-Urbana/Champaign	8
Univ. of Texas-Austin	58	Univ. of Missouri-Columbia	8
Harvard Univ.	57	Univ. of South Dakota	8
George Washington Univ.	57 57	Univ. of North Carolina-Chapel Hill	8
Goorge washington Only.	31	Univ. of Tennessee-Knoxville	8
			U
Top 21 Institutions	1.924	0.11. 02 2 0.11.00000 2.11.01.01.01.01	
Top 21 Institutions Total Institutions Reported (278)	1,924 5,062	Top 20 Institutions Total Institutions Reported (194)	217 637

Note: 381 institutions awarded doctorates between 1990 and 1994.

NOTE: See technical notes in Appendix C for rates of nonresponse to citizenship and race/ethnicity.

^{*}This institution is one of the "Historically Black Colleges and Universities" (HBCUs) that were founded during legal segregation in the late 1800s and early 1900s for the specific purpose of educating blacks. There are currently 103 HBCUs, 12 of which award doctorates.

TABLE 8 Major Field of Doctorate Recipients for Selected Years, 1964-1994

Field	1964	1969	1974	1979	1984	1989	1994
All Fields	14,325	25,743	33,047	31,239	31,337	34,324	41,011
Physical Sciences	3,115	5,005	4,976	4,299	4,452	5,455	6,821
Physics/Astronomy	866	1,461	1,339	1,108	1,080	1,274	1,692
Chemistry	1,351	1,967	1,797	1,566	1,765	1,970	2,254
Earth, Atmos., & Marine Sci.	310	507	629	646	614	740	853
Mathematics .	588	1,070	1,211	769	698	859	1,118
Computer Sciences*	NA	NA	NA	210	295	612	904
Engineering	1,664	3,265	3,147	2,490	2,913	4,543	5,826
Life Sciences	2,361	4,204	4,964	5,223	5,758	6,341	7,734
Biological Sciences	1,702	3,092	3,484	3,646	3,880	4,115	5,197
Health Sciences	142	297	476	568	. 722	974	1,297
Agricultural Sciences	517	815	1,004	1,009	1,156	1,252	1,240
Social Sciences	2,258	3,984	5,882	5,961	5,929	5,961	6,624
Psychology	1,013	1,766	2,598	3,091	3,257	3,208	3,260
Anthropology	83	181	379	383	335	325	384
Economics	527	708	851	802	793	898	940
Poli. Sci. & Int'l. Relations	337	558	909	603	514	524	703
Sociology	201	413	645	632	515	436	524
Other Social Sciences	97	358	500	450	515	570	813
Humanities	2,169	3,788	5,170	4,141	3,536	3,553	4,743
History	530	886	1,186	829	617	538	800
Amer. & Eng. Lang. & Lit.	528	1,029	1,369	909	733	720	943
Foreign Lang. & Lit.	271	584	887	646	492	432	595
Other Humanities	. 840	1,289	1,728	1,757	1,694	1,863	2,405
Education	2,351	4,659	7,241	7,385	6,808	6,278	6,683
Teacher Education	277	393	658	492	431	451	400
Teaching Fields	564	1,100	1,479	1,411	1,170	968	960
Other Education	1,510	3,166	5,104	5,482	5,207	4,859	5,323
Professional/Other	407	838	1,667	1,740	1,941	2,193	2,580
Business & Management	246	516	796	715	869	1,067	1,285
Communications	21	38	311	285	255	306	371
Other Professional Fields	121	189	474	717	802	766	885
Other Fields	19	95	86	23	15	54	39

^{*&}quot;Computer sciences" first appeared on the survey form in 1978.

TABLE 9 Major Field of U.S. Citizen Ph.D.s, by Race/Ethnicity, 1994

	Total U.S. Citize	Known			III	Notice	
Field	Ph.D.s	Ethnicity	Asians*	Blacks	His- panics	Native Amers.†	
All Fields	27,105	26,852	949	1,092	882	142	23,787
Physical Sciences	3,623	3,590	179	52	99	10	3,250
Physics/Astronomy	891	879	51	9	26	2	791
Chemistry	1,289	1,283	69	23	49	4	1,138
Earth, Atmos., & Marine Sci.	521	518	8	4	7	1	498
Mathematics	496	489	18	9	12	2	448
Computer Sciences	426	421	33	7	5	. 1	375
Engineering	2,211	2,183	202	44	49	6	1,882
Life Sciences	4,947	4,897	246	116	146	24	4,365
Biological Sciences	3,415	3,386	194	63	110	16	3,003
Health Sciences	961	949	36	41	20	6	846
Agricultural Sciences	571	562	16	12	16	2	516
Social Sciences	4,998	4,946	132	200	176	27	4,411
Psychology	2,954	2,931	81	110	126	11	2,603
Anthropology	303	298	5	9	5	6	273
Economics	392	390	14	9	8	0	359
Poli. Sci. & Int'l. Relations	463	455	13	24	16	4	398
Sociology	364	360	10	20	11	4	315
Other Social Sciences	522	512	. 9	28	10	2	463
Humanities	3,713	3,679	68	102	138	23	3,348
History	675	668	8	18	22	6	614
Amer. & Eng. Lang. & Lit.	834	828	13	25	22	7	761
Foreign Lang. & Lit.	368	364	6	8	46	0	304
Other Humanities	1,836	1,819	41	51	48	10	1,669
Education	5,842	5,796	80	482	225	36	4,973
Teacher Education	361	361	· 4	42	11	2	302
Teaching Fields	770	768	16	34	20	4	694
Other Education	4,711	4,667	60	406	194	30	3,977
Professional/Other	1,771	1,761	42	96	49	16	1,558
Business & Management	811	808	20	29	16	7	736
Communications	267	266	3	22	9	3	229
Other Professional Fields	669	663	19	45	24	5	570
Other Fields	24	24	0	0	0	11	23

NOTE: See technical notes in Appendix C for the rate of nonresponse to the question on race/ethnicity.

^{*&}quot;Asians" includes Pacific Islanders.

^{†&}quot;Native Americans" includes American Indians and Alaskan Natives.

TABLE 10 Median Years to Doctorate from Baccalaureate Award, by Broad Field for Selected Years, 1969-1994

		•				
Field	1969	1974	1979	1984	1989	1994
All Fields						
Total	8.0	8.6	9.1	10.0	10.6	10.8
Registered	5.5	6.0	6.2	6.9	7.0	7.2
Physical Sciences*			•			
Total	6.0	6.9	6.9	7.2	7.5	8.5
Registered	5.2	5.7	5.9	6.0	6.2	6.7
Engineering						
Total	7.0	7.7	7.6	8.0	8.3	9.0
Registered	5.2	5.7	5.7	5.9	6.1	6.4
Life Sciences						
Total	7.0	7.3	7.4	8.3	9.2	9.5
Registered	5.3	5.6	5.9	6.3	6.7	7.0
Social Sciences						
Total	7.5	7.9	8.5	9.8	10.5	10.5
Registered	5.5	5.9	6.3	7.1	7.5	7.5
Humanities						
Total	9.3	9.4	10.3	11.6	12.6	12.0
Registered	6.0	6.7	7.6	8.3	8.5	8.5
Education						
Total	13.4	12.5	12.9	14.8	17.3	19.7
Registered	6.2	6.3	6.7	7.7	8.2	8.1
Professional/Other						
Total	10.6	10.0	10.9	12.3	13.3	13.5
Registered	5.3	6.0	6.3	7.2	7.6	7.5

NOTE: Median calculations are based on the number of individuals who provided complete information about their postbaccalaureate education. "Total" time-to-degree measures the number of years elapsed between receipt of the baccalaureate and the Ph.D. "Registered" time-to-degree gauges the amount of time enrolled in graduate school, including master's degrees and enrollment in nondegree programs. Please note that the method of median computation has been revised since last year. See technical notes in Appendix C for explanation of the revision and also for rates of nonresponse to the applicable questions.

^{*}Includes mathematics and computer sciences.

TABLE 11 Median Years to Doctorate from Baccalaureate Award, by Demographic Group and Broad Field, 1994

-	All Fields	Physical Sci.*	Engi- neering -	Life - Sci.	Social Sci.	Human- ities	Educa- tion	Prof./ Other-
Total Time from Baccalaurea	te							
All Ph.D.s	10.8	8.5	9.0	9.5	10.5	12.0	19.7	13.5
Men	10.1	8.5	9.1	9.4	10.7	11.7	19.0	13.0
Women	12.0	8.1	8.6	9.8	10.2	12.3	20.0	14.6
U.S. Citizens	11.5	7.5	8.3	9.0	10.3	12.3	20.3	15.3
Non-U.S., Permanent Visas	10.9	10.7	10.7	10.4	11.5	11.8	13.0	11.5
Non-U.S., Temporary Visas	9.8	9.0	9.0	10.0	10.2	10.0	13.0	11.0
U.S. Citizens								
Asians†	9.0	7.6	8.0	8.6	9.3	10.6	17.1	13.7
Blacks	17.2	8.4	8.4	11.0	12.1	14.6	21.2	17.0
Hispanics	11.3	7.0	8.0	8.7	9.3	11.8	19.0	16.0
Native Americans‡	14.6	7.8	8.7	8.6	13.1	16.7	18.0	17.8
Whites	11.4	7.5	8.3	9.1	10.4	12.3	20.4	15.0
Registered Time from Baccal	aureate							
All Ph.D.s	7.2	6.7	6.4	7.0	7.5	8.5	8.1	7.5
Men	7.0	6.8	6.4	6.9	7.5	8.3	8.2	7.4
Women	7.5	6.6	6.3	7.0	7.5	8.6	8.1	7.5
U.S. Citizens	7.3	6.5	6.2	7.0	7.5	8.6	8.4	7.6
Non-U.S., Permanent Visas	7.4	7.5	7.0	7.0	7.5	8.5	7.8	7.4
Non-U.S., Temporary Visas	6.8	6.9	6.3	6.7	7.4	7.5	6.4	7.1
U.S. Citizens								
Asians†	7.1	6.5	6.5	7.0	7.5	8.3	9.0	8.3
Blacks	7.9	6.2	6.6	7.0	8.1	8.2	8.0	7.5
Hispanics	7.5	6.5	6.3	7.0	7.6	8.6	8.4	7.7
Native Americans‡	7.5	6.0	6.5	7.1	6.5	9.0	8.6	7.7
Whites	7.3	6.4	6.2	7.0	7.5	8.6	8.4	7.6

NOTE: Median calculations are based on the number of individuals who provided complete information about their postbaccalaureate education. "Total time" measures the number of years elapsed between receipt of the baccalaureate and the Ph.D. "Registered time" gauges the amount of time enrolled in graduate school, including master's degrees and enrollment in nondegree programs. Please note that the method of median computation has been revised since last year. See technical notes in Appendix C for explanation of the revision and also for rates of nonresponse to the applicable questions.

^{*}Includes mathematics and computer sciences.

^{†&}quot;Asians" includes Pacific Islanders.

^{‡&}quot;Native Americans" includes American Indians and Alaskan Natives.

TABLE 12 Primary Sources of Support for Doctorate Recipients, by Broad Field and Demographic Group, 1994 (includes only Ph.D.s who reported primary source of support)

Primary Source									U.	S. Citiz	zens*	
of Support (responses only)		All Ph.D.s	Men	Women	U.S. Cits.	Perm. Visas	Temp. Visas	Asians	Blacks		Native Amers.	Whites
All Fields	N	29,658	18,193		20,600	2,565	6,478	683	703	608	101	18,385
Personal	%	36.3	29.9	46.4	45.8	17.1	13.8	26.6	56.0	46.9	54.5	46.1
University	%	51.7	57.1	43.3	43.0	77.4	69.3	54.5	28.9	35.0	38.6	43.4
Federal	%	5.4	5.2	5.7	7.1	1.1	1.5		7.8	13.7	2.0	6.7
Other	%	6.6	7.9	4.6	4.1	4.4	15.4	5.6	7.3	4.4	5.0	3.9
Physical Sciences†	N	5,084	4,029	1,055	2,939	691	1,451	139	39	70	8	2,663
Personal	%	11.3	11.5	10.4	15.4	5.8	5.5	12.2	17.9	11.4	25.0	15.7
University	%	78.3	78.1	79.2	72.0	90.7	85.3	71.9	59.0	62.9	75.0	72.4
Federal	%	4.9	4.8	5.3	8.1	0.7	0.5		7.7	17.1	0.0	7.7
Other	%	5.5	5.6	5.0	4.5	2.7	8.8	5.8	15.4	8.6	0.0	4.2
Engineering	N	4,327	3,850	477	1,803	608	1,914	158	36	40	6	1,546
Personal	%	15.7	16.4	10.3	19.6	13.7	12.8	19.6	5.6	17.5	50.0	19.9
University	%	68.3	68.2	69.4	58.6	80.6	73.5	61.4	36.1	42.5	50.0	59.2
Federal	%	5.3	4.5	11.5	12.1	0.5	0.4	7.6	30.6	37.5	0.0	11.6
Other	%	10.7	10.9	8.8	9.7	5.3	13.3	11.4	27.8	2.5	0.0	9.2
Life Sciences	N	5,694	3,299	2,395	3,826	611	1,255	182	77	100	17	3,429
Personal	%	20.7	17.8	24.8	26.7	8.5	8.4	18.1	26.0	22.0	35.3	27.3
University	%	58.7	61.8	54.4	51.4	84.8	68.4	51.6	45.5	43.0	58.8	51.6
Federal	%	12.9	11.5	14.9	18.0	2.5	2.4	27.5	19.5	32.0	5.9	17.1
Other	%	7.6	8.9	5.9	3.9	4.3	20.8	2.7	9.1	3.0	0.0	3.9
Social Sciences	N	4,741	2,333	2,408	3,804	232	701	95	124	127	21	3,412
Personal	%	47.6	43.5	51.7	53.4	37.5	19.4	41.1	42.7	47.2	57.1	54.4
University	%	43.1	45.2	41.0	39.7	55.2	57.2	46.3	38.7	33.9	33.3	39.9
Federal	%	4.7	4.7	4.8	5.1	1.3	4.0	9.5	11.3	13.4	0.0	4.4
Other	%	4.6	6.6	2.6	1.7	6.0	19.4	3.2	7.3	5.5	9.5	1.3
Humanities	N	3,282	1,701	1,581	2,672	191	418	35	57	88	17	2,453
Personal	%	42.7	43.2	42.1	46.0	36.1	24.4	31.4	49.1	39.8	47.1	46.3
University	%	50.2	48.9	51.6	47.8	58.6	61.5	51.4	38.6	52.3	35.3	48.0
Federal	%	2.2	2.5	1.8	2.2	1.0	2.6	11.4	3.5	2.3	0.0	2.0
Other	%	5.0	5.3	4.6	4.0	4.2	11.5	5.7	8.8	5.7	17.6	3.7
Education	N	4,681	1,818	2,863	4,232	130	319	46	312	147	22	3,693
Personal	%	79.2	78.3	79.7	83.1	53.8	37.6	69.6	82.4	87.1	86.4	83.2
University	%	14.4	13.5	15.0	12.2	40.8	32.6	23.9	13.8	8.2	9.1	12.1
Federal	%	1.2	1.4	1.0	1.1	0.0	2.5	4.3	1.6	3.4	4.5	0.9
Other	%	5.2	6.8	4.2	3.6	5.4	27.3	2.2	2.2	1.4	0.0	3.8
Professional/Other	N	1,849	1,163	686	1,324	102	420	28	58	36	10	1,189
Personal	%	52.2	50.5	55.2	62.2	37.3	25.0	67.9	46.6	69.4	50.0	62.7
University	%	37.8	37.8	37.8	31.6	55.9	53.3	28.6	32.8	22.2	50.0	31.6
Federal	%	1.5	1.4	1.7	1.8	0.0	1.0	0.0	8.6	0.0	0.0	1.6
Other	%	8.4	10.3	5.2	4.5	6.9	20.7	3.6	12.1	8.3	0.0	4.0
		٥.,										

NOTE: Numbers represent those Ph.D.s with known primary support; percentages are based on these numbers. Because nonresponse to "primary" source of support is much greater than for other variables and fluctuates from year to year, the reader is advised *not* to compare percentages in this table with those published in earlier reports. The overall nonresponse rate for "primary" source of support was 27.7 percent in 1994, compared to 33.9 percent in 1993, 30.4 percent in 1992, and 22.5 percent in 1991. See technical notes in Appendix C for further information.

"Personal" includes loans as well as own earnings and contributions from the spouse/family. Federally funded research assistantships (RAs) are grouped under "University" because not all recipients of such support are aware of the actual source of funding. For further definition of "Federal" support, see item 17 on the survey questionnaire in Appendix D. "Other" support includes U.S. nationally competitive fellowships, business/employer funds, foreign government, and state government.

^{*&}quot;Asians" includes Pacific Islanders. "Native Americans" includes American Indians and Alaskan Natives. †Includes mathematics and computer sciences.

SOURCE: National Research Council, Survey of Earned Doctorates.

TABLE 13 Cumulative Debt Related to the Education of Doctorate Recipients, by Broad Field, 1994

		All Fields	Physical Sci.*	Engi- neering	Life Sci.	Social Sci.	Human- ities	Educa- tion	Prof./ Other
All Ph.D.s	N	41,011	6,821	5,826	7,734	6,624	4,743	6,683	2,580
Responses to Debt Status	N	38,009	6,383	5,368	7,216	6,086	4,450	6,120	2,386
Without Debt	%	52.7	58.4	62.2	51.7	38.4	44.4	60.4	50.5
With Debt	%	47.3	41.6	37.8	48.3	61.6	55.6	39.6	49.5
\$5,000 or less	%	12.3	12.9	10.9	13.2	11.9	14.1	11.2	11.3
\$5,001 to \$10,000	%	10.1	11.1	7.6	11.2	10.9	12.1	7.7	9.6
\$10,001 to \$15,000	%	7.3	7.0	5.9	7.8	8.7	9.9	5.2	7.2
\$15,001 to \$20,000	%	5.0	3.9	3.8	4.9	6.9	6.4	4.2	5.0
\$20,001 to \$25,000	%	3.4	2.1	2.1	3.2	5.5	4.4	2.9	4.8
\$25,001 to \$30,000	%	2.7	1.3	1.8	2.4	4.6	3.1	2.9	3.4
\$30,001 or more	%	6.5	3.3	5.6	5.6	13.1	5.6	5.4	8.2

NOTE: This table displays information on debt related to a recipient's *combined undergraduate and graduate education*. "All Ph.D.s" includes recipients whose debt status is unknown. Percentages are based on the number with "Responses to Debt Status." The "With Debt" and "Without Debt" percentages add to 100.0. Percentages for levels of debt add to the total percentage of Ph.D.s "With Debt." See technical notes in Appendix C for the rate of nonresponse to this question.

SOURCE: National Research Council, Survey of Earned Doctorates.

TABLE 14 Cumulative Debt Related to the Education of Doctorate Recipients, by Demographic Group, 1994

									U.S	S. Citiz		
		All					Temp.			_	Native	
		Ph.D.s	Men	Women	Cits.	Visas	Visas	Asians	Blacks	panics	Amers.	Whites
All Ph.D.s	N	41,011	25,205	15,806	27,105	3,741	9,393	949	1,092	882	142	23,787
Responses to Debt												
Status	N	38,009	23,319	14,690	25,814	3,519	8,656	911	1,018	825	137	22,775
Without Debt	%	52.7	52.8	52.5	44.6	72.9	68.4	45.3	37.5	34.9	38.7	45.4
With Debt	%	47.3	47.2	47.5	55.4	27.1	31.6	54.7	62.5	65.1	61.3	54.6
\$5,000 or less	%	12.3	12.5	12.0	13.7	7.7	10.0	12.4	15.2	16.7	15.3	13.5
\$5,001 to \$10,000	%	10.1	10.2	9.9	12.1	6.3	5.5	5 13.1	9.9	13.2	9.5	12.2
\$10,001 to \$15,000	%	7.3	7.3	7.5	9.1	3.9	3.4	9.8	9.4	10.7	8.8	9.0
\$15,001 to \$20,000	%	5.0	5.0	4.9	6.2	2.0	2.4	6.3	7.2	7.0	4.4	6.1
\$20,001 to \$25,000	%	3.4	3.2	3.7	4.3	1.7	1.6	3.0	4.8	4.6	8.0	4.3
\$25,001 to \$30,000	%	2.7	2.6	2.8	3.2	1.8	1.6	5 2.4	4.4	4.4	6.6	3.1
\$30,001 or more	%	6.5	6.4	6.8	6.7	3.8	7.	7.8	11.5	8.5	8,8	6.4

NOTE: This table displays information on debt related to a recipient's *combined undergraduate and graduate education*. "All Ph.D.s" includes recipients whose debt status is unknown. Percentages are based on the number with "Responses to Debt Status." The "With Debt" and "Without Debt" percentages add to 100.0. Percentages for levels of debt add to the total percentage of Ph.D.s "With Debt." See technical notes in Appendix C for the rate of nonresponse to this question.

^{*}Includes mathematics and computer sciences.

^{*&}quot;Asians" includes Pacific Islanders. "Native Americans" includes American Indians and Alaskan Natives.

TABLE 15 Postgraduation Commitments of Doctorate Recipients, by Type of Plans and Broad Field for Selected Years, 1974-1994

		All Fields	Physical Sci.*	Engi- neering	Life Sci.	Social Sci.	Human- ities	Educa- tion	Prof./ Other
All Definite						-			· · · · · · · · · · · · · · · · · · ·
Commitments	;								
1974	N	22,283	3,278	2,070	3,418	4,115	3,127	5,028	1,247
1979	N	21,411	3,196	1,815	3,807	3,999	2,279	4,935	1,380
1984	N	20,788	3,148	1,833	3,939	3,688	1,994	4,746	1,440
1989	N	22,813	3,756	2,675	4,537	3,768	2,176	4,327	1,574
1994	N	24,898	4,065	2,953	5,113	4,003	2,580	4,439	1,745
Definite Com	mitmen	ts with							•
Responses to	Type of	Plans							
1974	N	22,123	3,270	2,061	3,398	4,089	3,090	4,979	1,236
1979	N	21,228	3,185	1,809	3,782	3,958	2,250	4,880	1,364
1984	N	20,735	3,139	1,825	3,932	3,680	1,984	4,735	1,440
1989	N	22,697	3,743	2,667	4,525	3,753	2,151	4,294	1,564
1994	N	24,732	4,058	2,942	5,093	3,970	2,546	4,392	1,731
Employment									
1974	%	84.6	63.5	89.8	58.2	91.6	96.7	97.7	98.4
1979	%	80.0	62.8	87.6	45.7	87.7	94.3	97.3	97.4
1984	%	78.2	59.5	84.9	42.6	86.5	95.5	97.7	98.3
1989	%	74.1	52.5	80.0	41.4	84.0	94.3	96.6	97.2
1994	%	70.6	48.5	75.8	36.0	80.0	92.9	96.3	96.3
Study									
1974	%	15.4	36.5	10.2	41.8	8.4	3.3	2.3	1.6
1979	%	20.0	37.2	12.4	54.3	12.3	5.7	2.7	2.6
1984	%	21.8	40.5	15.1	57.4	13.5	4.5	2.3	1.7
1989	%	25.9	47.5	20.0	58.6	16.0	5.7	3.4	2.8
1994	%	29.4	51.5	24.2	64.0	20.0	7.1	3.7	3.7

NOTE: Only Ph.D.s with definite commitments are included. "All Definite Commitments" includes recipients who reported definite commitments but not type of plans (employment or study). Percentages are based on the number of Ph.D.s who reported a definite commitment and a type of plan. See technical notes in Appendix C for rates of nonresponse to the applicable questions and for further explanation of postgraduation plans.

^{*}Includes mathematics and computer sciences.

TABLE 16 Postgraduation Commitments of Doctorate Recipients, by Type of Plans and Demographic Group for Selected Years, 1974-1994

-		-						U.S. Ci	tizens &	Perman	ent Resi	dents*
		All			Û.S.	Perm.	Temp.			His-	Native	
		Ph.D.s	Men V	Vomen	Cits.	Visas	Visas	Asians	Blacks	panics	Amers.	Whites
All Defir	nite									<u>-</u>		
Commitr	nents											
1974	N	22,283	18,391	3,892	18,979		2,181					NA
1979	N	21,411	15,789	5,622	18,137	820	2,422			348		16,279
1984	N	20,788	13,979	6,809	17,087	686	2,979	617		389		15,756
1989	N	22,813	14,481	8,332	17,610	948	4,222	802				16,251
1994	N	24,898	14,972	9,926	18,105	1,808	4,974	1,792	792	665	95	16,464
Definite	Comn	nitments v	vith									
Response	es to T	ype of Pla	ans									
1974	N	22,123	18,262	3,861	18,871	1,060	2,149) NA				NA
1979	N	21,228	15,655	5,573	18,010	811	2,376					16,177
1984	N	20,735	13,937	6,798	17,058	683	2,958	617	673	388	43	15,731
1989	N	22,697	14,413	8,284	17,531	940	4,194	800	640	486	67	16,188
1994	N	24,732	14,882	9,850	17,991	1,797	4,933	1,784	783	655	94	16,367
Employr	nent											
1974	%	84.6	84.5	85.1	86.1	74.1	76.5	NA NA	. NA	NA	NA NA	NA
1979	%	80.0	79.1	82.5	80.6	77.3	76.3	73.2	93.8	86.7	86.8	80 .1
1984	%	78.2	76.3	82.0	78.7	78.8	75.2	72.4	93.0	84.8	90.7	78.2
1989	%	74.1	71.7	78.2	76.6	72.7	64.0	66.6	88.8	74.5	80.6	76.5
1994	%	70.6	68.2	74.3	74.3		63.0	51.1	82.5	73.6	74.5	74.4
Study												
1974	%	15.4	15.5	14.9	13.9	25.9	23.5	NA	. NA	. NA	NA	NA
1979	%	20.0	20.9	17.5	19.4		23.7		6.2	13.3	3 13.2	19.9
1984	%	21.8	23.7	18.0	21.3						9.3	21.5
1989	%	25.9	28.3	21.8	23.4							
1994	%	29.4	31.8	25.7	25.7		37.0					

NOTE: Only Ph.D.s with definite commitments are included. "All Definite Commitments" includes recipients who reported definite commitments but not type of plans (employment or study). Percentages are based on the number of Ph.D.s who reported a definite commitment and a type of plan. See technical notes in Appendix C for rates of nonresponse to the applicable questions and for further explanation of postgraduation plans.

^{*}Race/ethnicity was not available in 1974. "Asians" includes Pacific Islanders. "Native Americans" includes American Indians and Alaskan Natives.

TABLE 17 Postdoctoral Location of Non-U.S. Citizen Doctorate Recipients with Postgraduation Commitments, by Visa Status for Selected Years, 1974-1994

•		All Non-U.S. Citizens	Permanent Visas	Temporary Visas
All Definite Cor	nmitments			
1974	N	3,257	1,076	2,181
1979	N	3,242	820	2,422
1984	N	3,665	686	2,979
1989	N	5,170	948	4,222
1994	N	6,782	1,808	4,974
Definite Commi Responses to Lo			•	
1974	N	3,163	1,028	2,135
1979	N	3,061	767	2,294
1984	N	3,375	624	2,751
1989	N	4,656	854	3,802
1994	N	6,727	1,795	4,932
U.S. Location				
1974	%	51.8	89.9	33.5
1979	%	51.8	92.6	38.2
1984	%	53.3	93.4	44.2
1989	%	62.8	85.8	57.6
1994	%	61.9	89.6	51.9
Foreign Location	1			
1974	%	48.2	10.1	66.5
1979	%	48.2	7.4	61.8
1984	%	46.7	6.6	55.8
1989	%	37.2	14.2	42.4
1994	%	38.1	10.4	48.1

NOTE: Only non-U.S. citizen Ph.D.s with definite commitments are included. "All Definite Commitments" includes recipients who reported definite commitments but not location (U.S. or foreign). Percentages are based on the number of Ph.D.s who reported a definite commitment and a location. See technical notes in Appendix C for rates of nonresponse to the applicable questions and for further explanation of postgraduation plans.

TABLE 18 Postdoctoral Location of Non-U.S. Citizen Doctorate Recipients with Postgraduation Commitments, by Major Field and Visa Status, 1994

				Postdoctoral Location						
		Perman	ent Visa	as			Tempo	orary Vi	sas	
	Resp. to		V 10.			Resp. to				
	Location	U.	S.	For	eign	Locatio		.S.	Foreign	
	Type of	<u>Loça</u>			ation	Type of				ation
Field of Doctorate	Plans	Empl.	Study	Empl.		Plans		Study		Study
(responses only)	(N)	(%)	(%)	(%)	(%)	(N)	(%)	(%)	(%)	(%)
All Fields	1,785	46.9	42.7	8.2	2.2	4,893	24.6	27.5	38.7	9.2
Physical Sciences	438	41.3	52.7	3.0	3.0	1,171	22.7	40.8	21.3	15.1
Physics/Astronomy	102	24.5	67.6	2.9	4.9	275	10.2	54.2	9.8	25.8
Chemistry	152	25.7	71.1	1.3	2.0	364	12.4	61.0	11.5	15.1
Earth, Atmos., Marine	63	38.1	54.0	3.2	4.8	111	13.5	33.3	42.3	10.8
Mathematics	57	68.4	22.8	5.3	3.5	226	33.6	22.1	31.4	12.8
Computer Sciences	64	84.4	10.9	4.7	0.0	195	52.3	10.3	32.3	5.1
Engineering	339	65.5	23.0	10.3	1.2	1,172	33.5	21.6	39.2	5.7
Life Sciences	526	15.2	78.1	3.6	3.0	1,051	7.2	49.9	32.6	10.3
Biological Sciences	430	10.7	85.1	1.4	2.8	651	5.5	67.3	15.1	12.1
Health Sciences	46	50.0	39.1	10.9	0.0	118	23.7	17.8	52.5	5.9
Agricultural Sciences	50	22.0	54.0	16.0	8.0	282	4.3	23.0	64.9	7.8
Social Sciences*	170	69.4	13.5	14.7	2.4	579	30.6	8.6	53.2	7.6
Psychology	44	56.8	27.3	11.4	4.5	82	17.1	34.1	30.5	18.3
Economics	53	79.2	3.8	17.0	0.0	231	39.8	3.5	53.2	3.5
Poli. Sci./Int'l. Relat.	19	68.4	5.3	21.1	5.3	84	27.4	4.8	63.1	4.8
Sociology	12	83.3	8.3	8.3	0.0	49	34.7	12.2	44.9	8.2
Humanities	144	79.9	6.2	13.2	0.7	309	39.8	7.1	46.9	6.1
Education	87	60.9	9.2	28.7	1.1	256	15.6	3.9	71.5	9.0
Professional/Other*	81	84.0	2.5	13.6	0.0	355	36.3	2.8	57.5	3.4
Business & Mgmt.	50	86.0	0.0	14.0	0.0	222	46.4	1.8	49.5	2.3

NOTE: Only Ph.D.s with definite commitments are included; see Table 17 for numbers of non-U.S. citizens with commitments. Numbers in this table represent those Ph.D.s who responded to both postdoctoral location and type of plans; percentages are based on these numbers. See technical notes in Appendix C for rates of nonresponse to these questions and for further explanation of postgraduation-plans.

^{*}Totals include other fields not shown.

TABLE 19 Employment Sector of Doctorate Recipients with Postgraduation Commitments in the United States, by Broad Field for Selected Years, 1974-1994 (U.S. citizens and permanent residents)

						-			
		All Fields	Physical Sci.*	Engi- neering	Life Sci.	Social Sci.	Human- ities	Educa-	Prof./
A 11 72 1	<u> </u>			neering	<u> </u>	BCI.	ittes	tion	Other
All Employment			1.000						
1974 1979	N	16,601	1,802	1,495	1,586	3,287	2,760	4,590	1,081
	N	14,880	1,754	1,157	1,373	3,088	1,943	4,434	1,131
1984	N	13,767	1,527	977	1,294	2,814	1,708	4,283	1,164
1989	N	13,836	1,539	1,301	1,445	2,673	1,775	3,865	1,238
1994	N	13,887	1,413	1,312	1,346	2,590	2,013	3,933	1,280
Employment Con with Responses to									
1974	N	16,531	1,795	1,492	1,580	3,272	2,754	4,557	1,081
1979	N	14,779	1,746	1,154	1,366	3,061	1,933	4,395	1,124
1984	N	13,604	1,519	976	1,288	2,773	1,686	4,211	1,124
1989	N	13,684	1,536	1,294	1,431	2,629	1,755	3,812	1,131
1994	N	13,665	1,398	1,301	1,321	2,532	1,988	3,855	1,227
Academe†								-	·
1974	%	62.1	45.1	20.8	61.6	67.8	88.8	58.0	80.6
1979	%	54.4	34.1	24.4	59.6	55.6	79.2	52.3	73.5
1984	%	48.9	33.7	26.8	50.3	45.9	78.3	42.7	73.0
1989	%	51.1	36.5	27.5	52.2	47.7	80.6	45.3	76.0
1994	%	52.4	39.4	20.1	51.4	52.2	84.7	44.9	73.1
Industry/Self-Emp	loyed								
1974	%.	12.9	34.8	55.3	16.3	6.0	2.4	2.2	6.1
1979	%	17.1	49.7	56.2	19.4	11.6	4.9	4.5	8.1
1984	%	19.4	51.6	53.6	26.5	17.8	6.2	6.6	9.5
1989	%	20.6	50.9	56.0	25.1	18.4	5.5	7.0	8.9
1994	%	19.6	47.0	61.3	24.1	17.4	4.5	6.4	10.4
Government									
1974	%	12.1	17.0	19.4	16.5	15.0	2.8	11.4	5.8
1979	%	13.1	13.9	17.1	15.2	18.4	4.6	12.3	8.9
1984	%	12.1	13.2	17.6	16.8	15.4	4.1	11.5	6.3
1989	%	10.7	10.8	14.6	15.0	15.4	2.8	10.1	4.6
1994	%	9.3	10.7	16.4	15.4	13.2	2.3	6.6	5.7
Other‡									
1974	%	12.9	3.2	4.5	5.6	11.3	6.1	28.4	7.5
1979	%	15.4	2.4	2.3	5.8	14.4	11.3	30.9	9.5
1984	%	19.6	1.5	1.9	6.4	20.8	11.4	39.1	11.2
1989	%	17.6	1.8	1.9	7.7	18.4	11.4	37.6	10.5
1994	%	18.7	2.9	2.2	9.1	17.3	8.6	42.1	10.3
				4.4	7.1	17.5	0.0	74.1	10.7

NOTE: Only Ph.D.s with definite commitments for employment are included. Foreign locations are excluded. "All Employment Commitments" includes recipients whose employment sector is unreported; percentages are based on the number of Ph.D.s who did report employment commitments in a specific sector. See technical notes in Appendix C for rates of nonresponse to this question and for further explanation of postgraduation plans.

^{*}Includes mathematics and computer sciences.

[†]Academe includes two- and four-year colleges and universities and medical schools. Elementary and secondary schools are included in "Other."

^{‡&}quot;Other" is mainly composed of elementary and secondary schools and nonprofit organizations.

TABLE 20 Employment Sector of Doctorate Recipients with Postgraduation Commitments in the United States, by Demographic Group for Selected Years, 1974-1994

U.S. Citizens & Permanent Residents*												
		All					His-	Native		U.S.	Perm.	Temp.
		Ph.D.s	Men	Women	Asians	Blacks	panics	Amers.	Whites	Cits.	Visas	Visas
All Employn												
1974	N	16,601	13,546	3,055	NA	NA	NA	NA	NA	15,903	698	374
1979	N	14,880	10,566	4,314	505	629	286	45	12,755	14,301	579	470
1984	N	13,767	8,567	5,200	430	613	323	39	12,163	13,264	503	646
1989	N	13,836	7,849	5,987	499	550	349	54	12,190	13,257	579	1,031
1994	N	13,887	7,377	6,510	820	636	460	70	11,849	13,048	839	1,198
Employment	t Commit	nents										
with Respon												
1974	N	16,531	13,491	3,040	NA	NA	NA	NA	NA	15,836	695	374
1979	N	14,779	10,502	4,277	502	618	286	45	12,680	14,205	574	469
1984	N	13,604	8,505	5,099	423	598	317	38	12,040	13,111	493	646
1989	N	13,684	7,787		491	536		. 54	12,070	13,118	566	1,031
1994	N	13,665	7,281	6,384	804	623	448	69	11,670	12,843	822	1,180
Academe†												
1974	%	62.1	59.3	74.7	NA	NA	NA	NA	NA	62.6	50.8	56.1
1974	%	54.4	51.2		31.9	60.4	70.3	60.0	54.6	54.9	42.9	54.6
1979	%	48.9	45.4		36.6	51.8	56.2	50.0	49.0	48.8	51.9	63.9
	%		46.9		38.7	57.3	54.5	38.9	51.2	50.8	58.1	62.9
1989 1994	%	51.1 52.4	46.9		38.2	55.5	59.4	68.1	52.8	52.8	45.6	49.2
In disperse /C old	f Emmloy	.d										
Industry/Self	1-Employe %	12.9	14.9	4.1	NA	NA	NA	NA	NA	11.7	39.3	32.4
1974					51.6	7.6	8.4	6.7	16.2	15.9	46.5	33.5
1979	%	17.1	20.6			8.2	12.9	7.9	19.2	18.8	35.5	30.7
1984	%	19.4	23.1		44.9							31.2
1989	%	20.6	26.0		45.6	8.4	16.4	29.6	20.1	20.1	33.4	
1994	%	19.6	26.0	12.4	49.3	7.4	12.1	14.5	18.5	18.0	44.4	42.9
Government												
1974	%	12.1	13.2		NA	NA	NA	NA	NA	12.5	4.5	2.9
1979	%	13.1	14.0		10.2	15.5	13.3	11.1	13.2	13.5	4.4	3.6
1984	%	12.1	13.5			13.5	14.8	15.8	12.0	12.4	4.3	1.2
1989	%	10.7	11.8		7.3	13.1	12.3	13.0	10.7	11.1	2.3	2.2
1994	%	9.3	10.9	7.5	6.2	9.5	8.9	10.1	9.5	9.6	4.6	1.7
Other‡												
1974 [.]	%	12.9	12.6	13.8	5.1	NA	NA	NA	NA	13.2	5.5	8.6
1979	%	15.4	14.3			16.5	8.0	22.2	16.0	15.8	6.3	8.3
1984	%	19.6	18.0			26.4	16.1	26.3	19.8	20.1	8.3	4.2
1989	%	17.6	15.3		8.4	21.3	16.7	18.5	17.9	18.1	6.2	3.6
1994	%	18.7	16.2		6.3	27.6	19.6	7.2	19.2	19.6	5.4	6.2

NOTE: Only doctorates with definite commitments for employment are included. Foreign locations are excluded. "All Employment Commitments" includes recipients whose employment sector is unreported; percentages are based on the number of Ph.D.s who did report employment commitments in a specific sector. See technical notes in Appendix C for rates of nonresponse to this question and for further explanation of postgraduation plans.

^{*}Race/ethnicity was not available in 1974. "Asians" includes Pacific Islanders. "Native Americans" includes American

[†]Academe includes two- and four-year colleges and universities and medical schools. Elementary and secondary schools are included in "Other."

^{‡&}quot;Other" is mainly composed of elementary and secondary schools and nonprofit organizations. SOURCE: National Research Council, Survey of Earned Doctorates.

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APPENDIX A: The Seven Basic Tables, 1994

Appendix A includes the following seven tables:

- A-1 Number of Doctorate Recipients, by Gender and Subfield, 1994
- A-2 Number of Doctorate Recipients, by Citizenship, Race/Ethnicity, and Subfield, 1994
- A-3 Statistical Profile of Doctorate Recipients, by Major Field, 1994
- A-4 Statistical Profile of Doctorate Recipients, by Race/Ethnicity and Citizenship, 1994
- A-5 Sources of Graduate School Support for Doctorate Recipients, by Broad Field and Gender, 1994
- A-6 State of Doctoral Institution of Doctorate Recipients, by Broad Field and Gender, 1994
- A-7 Institutions Granting Doctorates, by Major Field, 1994

*** IMPORTANT NOTICE ***

The estimates reported for the Survey of Earned Doctorates (SED) are simple tabulations of all available information with no adjustment for nonresponse. Therefore, differences in response rates from year to year can produce numerical fluctuations that are unrelated to real trends.

Although response to the SED has been 95 to 98 percent in most years, it declined to 92 percent during the 1980s. In an effort to improve the response rate, the survey methodology was modified in the years after 1989. Response has risen as hoped, stabilizing around 95 percent during the last four years (1991 to 1994). (Note: These percentages represent self-report rates, i.e., the proportion of questionnaires completed by doctorate recipients. While survey forms containing partial information filled in by either the doctoral institution or staff of the National Research Council are not included in these rates, tables in this report incorporate the available data from these forms.) The self-report rate for 1994 may increase slightly in the next year if additional questionnaires are received from doctorate recipients. See page 82 in Appendix C for a table giving survey response rates from 1964 to 1994.

Item response rates have shown a parallel improvement since 1990—a natural consequence of the increase in the overall self-report rate, as well as a result of format revisions to the questionnaire and follow-ups for missing information. In 1990, new follow-up procedures were implemented to increase coverage of several variables: birth year, gender, race/ethnicity, citizenship status, country of citizenship, baccalaureate year and institution, and postgraduation plans. Response rates for these variables have since improved—especially for citizenship and race/ethnicity, resulting in an increase in the reported numbers of minority Ph.D.s. The data for a given year are updated the following year with any responses received after survey closure. Postsurvey adjustment was most significant for 1990 and 1991 Ph.D.s, with the largest impact on the number of blacks. For both of these years, the total number of black Ph.D.s increased by about 7.5 percent in the year after survey closure. The survey cycle was then extended to allow receipt of more follow-up information before closure, resulting in much smaller postsurvey adjustments for both 1992 and 1993 data (a 1.4 percent increase in black Ph.D.s for 1992 and only a 0.2 percent increase for 1993). The same is expected for 1994 data.

Adjustments to data are presented in reports subsequent to the initial report for a survey. Updates for 1992 appeared in Summary Report 1993, and those for 1993 are included in this year's report (see Appendix Table B-2 for adjustments to racial/ethnic data). The data for 1994 will likewise be subject to further revision, but as for the last two years, adjustments are expected to be minimal. Updates to 1994 data will be presented in next year's report.

In using SED data, the reader should keep in mind that numerical trends are affected by fluctuations in response rates. Increasing or decreasing numbers in a citizenship or racial/ethnic group reflect to some degree any change in both overall survey response and item response.

TABLE A-1 and TABLE A-2: Tables A-1 and A-2 display data for the most recent year by subfield of doctorate. The subfields correspond to the fields on the questionnaire's Specialties List located at the back of this report. Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates (SED). See inside the back cover for a description of field groupings as reported in these tables. 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.

Table A-1 presents data by doctoral specialty and gender. 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. Refer to the notice on page 41 for important information on changes in response rates and their impact on time-series data.

TABLE A-3: Table A-3 is composed of three two-page tables. The first table includes data on *all* doctorate recipients from the most recent year; the other two tables present the same data by gender. Field groupings may differ from those in reports published by federal sponsors of the SED. See inside the back cover for a description of field groupings as reported in these tables; see the questionnaire's Specialties List at the back of the report for the names and codes of the subfields included. 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 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 at bottom of 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. Enrollment includes years of attendance not related to a recipient's doctoral program.

NOTE about medians: The method of computing medians has been revised. Beginning with Summary Report 1994, months (of birth, baccalaureate, and doctorate) are included in the calculations whenever available; if months are missing, only years are used in the calculations. Medians presented in all earlier 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 than are obtained by the old method. While differences are small (usually one- or two-tenths of a year), the reader should consider these differences when comparing medians presented in this report with those in earlier reports.

Postgraduation Plans: Each year's doctorate recipients provide information on post-graduation employment or study plans in response to items 20-24 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, also conducted by the National Research Council, is a follow-up employment survey of a sample of doctorate recipients in science, engineering, and humanities fields.) For a comparison of the immediate postgraduation plans of Ph.D.s in the 1992 SED with their employment status in the 1993 SDR, see the following table; refer to the footnote on page 86 in Appendix C for additional information on Ph.D.s who reported definite commitments at the time they completed the SED questionnaire.

COMPARISON OF PH.D.S' IMMEDIATE POSTGRADUATION PLANS IN THE 1992 SED WITH THEIR EMPLOYMENT STATUS 9-22 MONTHS LATER IN THE 1993 SDR

	Total Indus./ Other Not												
Plans in 1992 SED	Total	Postdoc.	Empl.	Acad.	Self	Govt.	Empl.	Empl					
Postdoctoral Study * Employment in	792	59.1	34.0	19.9	9.7	1.9	2.4	6.9					
Academe	761	2.6	92.4	85.0	4.1	0.9	2.4	5.0					
Industry/Self-Empl.	385	4.7	91.7	7.5	81.0	0.8	2.3	3.6					
Government	110	4.5	94.5	5.5	9.1	74.5	5.5	0.9					
Other Sector	124	2.4	95.2	15.3	9.7	4.0	66.1	2.4					
Unknown Sector	91	4.4	81.3	25.3	29.7	13.2	13.2	14.3					
Unknown Plans	42	23.8	61.9	38.1	14.3	4.8	4.8	14.3					

NOTE: SED = Survey of Earned Doctorates; SDR = Survey of Doctorate Recipients, whose sample is drawn from the SED. This table only includes the 1993 SDR's sample of Ph.D.s from the 1992 SED (total n = 2,305); all resided in the United States. The shaded percentages represent the proportions of Ph.D.s whose status in the 1993 SDR was consistent with their postgraduation plans in the 1992 SED. For example, the table shows that 85 percent of Ph.D.s who reported academic employment plans in the 1992 SED were, according to the 1993 SDR, still working in academe 9-22 months later.

^{*} Because of the 9-22 month gap between SED graduation dates and SDR reference date, the percentage of Ph.D.s reporting postdoctoral appointments in both the 1992 SED and the 1993 SDR is understandably lower than the comparisons for the employment sectors. It is likely that many postdoctoral appointments were completed before the 1993 SDR reference date.

In Table A-3, the postgraduation plans of doctorate recipients are grouped as follows: "Postdoctoral Study Plans" (fellowship, research associateship, 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, 55.7 percent of all chemists had postdoctoral study plans, 37.7 percent planned to be employed, and 6.6 percent did not report their postgraduation plans, totaling 100 percent. The study and employment rows are further subdivided. The data on study plans show that 26.1 percent of all chemists planned to pursue postdoctoral fellowships; 28.2 percent, research associateships; 0.4 percent, traineeships; and 1.0 percent, some other form of postdoctoral study. These percentages sum to 55.7 percent, the proportion of chemists who reported plans for postdoctoral study. The employment row is similarly subdivided by type of employer. The percentages for these rows add to 37.7 percent—the proportion of chemistry Ph.D.s 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 20: "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 20: "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). Revisions to the questionnaire format beginning in 1990 appear to have resulted in higher rates of nonresponse to the item on work activity in recent years (11.9 percent in 1994 compared to only 6.2 percent in 1989). However, nonresponse has dropped since 1993, when the rate was 15.1 percent.

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

New England: Connecticut, Maine, Massachusetts, New Hampshire,

Rhode Island, Vermont

Middle Atlantic: New Jersey, New York, Pennsylvania

East North Central: Illinois, Indiana, Michigan, Ohio, Wisconsin

West North Central: Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota,

South Dakota

South Atlantic: Delaware, District of Columbia, Florida, Georgia, Maryland,

North Carolina, South Carolina, Virginia, West Virginia

East South Central: Alabama, Kentucky, Mississippi, Tennessee

West South Central: Arkansas, Louisiana, Oklahoma, Texas

Mountain: Arizona, Colorado, Idaho, Montana, Nevada, New Mexico,

Utah, Wyoming

Pacific & Insular: 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. See inside the back cover for a description of field groupings as reported in these tables; refer to the questionnaire's Specialties List at the back of the report for the names and codes of the subfields included. See the notice on page 41 for important information on changes in response rates and their impact on time-series data.

The racial/ethnic question has undergone several revisions over the years. In 1977, it was modified to correspond to a standard question format recommended by the Federal Interagency Committee on Education and adopted by the Office of Management and Budget (OMB) for use in federally sponsored surveys; an explanation of the effect of these changes is detailed on page 13 of Summary Report 1977. (Note: Changes in the OMB guidelines prompted the moving of persons having origins in the Indian subcontinent from the white category to the Asian category.) In 1980, the item was further revised in two ways: (1) the Hispanic category was subdivided into Puerto Rican, Mexican American, and other Hispanic to provide more detail for users of the racial/ethnic data, and (2) respondents were asked to check only one racial category. (Before 1980, doctorate recipients could check more than one category to indicate their race.) The item was modified again in 1982 to separate the questions on race and ethnicity. Since then, respondents have been asked to first check one of the four racial group categories (American Indian, Asian, black, or white) and then indicate whether or not they are Hispanic. In Table A-4, Ph.D.s who reported Hispanic heritage, regardless of racial designation, are included in one of three Hispanic groups: Puerto Rican, Mexican American, or other Hispanic. The remaining survey respondents are then counted in the respective racial groups. (Note: Doctorate recipients who checked the category "American Indian or Alaskan Native" are identified as Native American in this report.)

NOTE about median age and time lapse (to doctorate): The method of computing medians has been revised. Beginning with Summary Report 1994, months (of birth, baccalaureate, and doctorate) are included in the calculations whenever available; if months are missing, only years are used in the calculations. Medians presented in all earlier 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 than are obtained by the old method. While differences are small (usually one- or two-tenths of a year), the reader should consider these differences when comparing medians presented in this report with those in earlier reports. See note on Table A-3 for definitions.

In the section on "Graduate School Support," a recipient counts in more than one category if support was received from multiple sources. Because a student counts once for each of his/her 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 of 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 17 on sources of financial support received during graduate school, by broad field and gender of recipient. Field groupings may differ from those in reports published by federal sponsors of the SED. See inside the back cover for a description of field groupings as reported in this table; see the questionnaire's Specialties List at the back of the report for the names and codes of the subfields included.

A recipient counts in more than one category in Table A-5 if support was received from multiple sources. Because a student counts once for each of his/her 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 report.)

Beginning with Summary Report 1990, federal research assistantships (RAs) have been aggregated with university RAs and shown under "University Research Assistant" in this table. (Focus groups of doctoral candidates have indicated uncertainty as to the source of their RA funding; it is therefore likely that some RAs have incorrectly identified support provided by the federal government as university rather than federal.) The reader is advised not to compare sources of support data presented in the 1990-1994 Summary Reports with data in earlier reports because percentages appear higher for university and lower for federal support in tables where all RAs are aggregated as "University Research Assistants."

The data in Table A-5 should be interpreted as follows: 169 male doctorate recipients in the physical sciences in 1994 reported financial support from federal

fellowships or traineeships during graduate school. This number is 3.3 percent of the male physical sciences Ph.D.s who answered the question on sources of support, and 14.6 percent of all males in *any* field who reported federal fellowship or traineeship support.

TABLE A-6: Table A-6 shows, by broad field and gender, the number of persons receiving a 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 inside the back cover for a description of field groupings as reported in this table; see the questionnaire's Specialties List at the back of the 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 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. See inside the back cover for a description of field groupings as reported in this table; see the questionnaire's Specialties List at the back of the report for the names and codes of the subfields included.

APPENDIX TABLE A-1 Number of Doctorate Recipients, by Gender and Subfield, 1994

	<u>Numl</u>	per of Do	ctorates		Numb	er of Do	octorates
Subfield of Doctorate	Total	Men	Women	Subfield of Doctorate	Total	Men	Women
TOTAL ALL FIELDS	41,011	25,205	<u>15,806</u>	Engineering Mechanics	132	123	9
PHYSICAL SCIENCES	6,821	<u>5,438</u>	1,383	Engineering Physics Engineering Science	17 46	14 43	3
MATHEMATICS	1,118	882	236	Environmental Health Engineering Industrial/Manufacturing	82 228 433	58 195	2433369 6055382277395549
Applied Mathematics	204	165	39	Materials Science Mechanical	433 883	364 823	69 60
Algebra Analysis and Functional Analysis	74 105	51 89	23 16	Metallurgical Mining and Mineral	67 23	62 20	3
Geometry	34	30	4	Nuclear	85	77	8
Logic Number Theory	29 36	23 31	6 5	Ocean Operations Research	29 47	27 40	3
Mathematical Statistics Fopology	204 35	154 25	50 10	Pêtroleum Polymer/Plastics	42 53	39 44	i
Computing Theory and Practice	16	14	2 9	Systems	51	46	3
Operations Research Mathematics, General	26 284	17 228	56	Engineering, General Engineering, Other	39 129	35 120	9
Mathematics, Other	71	- 55	16	LIFE SCIENCES	7,734	4,516	3,218
COMPUTER SCIENCE	904	767	137	BIOLOGICAL SCIENCES	5,197	3,092	2,105
Computer Science Information Sciences and Systems	834 70	716 51	118 19	Biochemistry	805	484	321
PHYSICS AND ASTRONOMY	1,692	1,492	200	Biophysics Biotechnology Research	123 14	90 12	33
	65	,	9	Bacteriology	18	7	11
Astronomy Astrophysics	78	56 62	16	Plant Genetics Plant Pathology	30 40	25 29	11
Acoustics Chemical and Atomic/Molecular	20 140	18 123	2 17	Plant Physiology Botany, Other	70 117	49 71	21 46
Elementary Particles Fluids	176 12	160 11	16	Anatomy	66	37	29 33
Nuclear	90	81	1 9	Biometrics and Biostatistics Cell Biology	71 236	38 135	101
Optics Plasma and High-Temperature	104 79	90 71	14 8	Ecology Developmental Biology/Embryology	201 62	131 30	70 32
olymer old Cow-Temperature	29 388	25 335	4 53	Endocrinology	26	18	3
hysics, General	343	313	30	Entomology Biological Immunology	123 161	95 87	28 74
Physics, Other	168	147	21	Molecular Biology Microbiology	597 423	330 246	267 177
CHEMISTRY	2,254	1,630	624	Neuroscience Nutritional Sciences	284 147	155 45	129 102
Analytical norganic	333 262	232 175	101 87	Parasitology	22	13	9
Nuclear	10	10	0	Toxicology Human and Animal Genetics	119 203	70 116	49 87
Organic ∕Iedicinal/Pharmaceutical	543 102	415 76	128 26	Human and Animal Pathology Human and Animal Pharmacology	129 256	83 152	46 104
Physical Polymer	333 117	240 94	93 23	Human and Animal Physiology Zoology, Other	287	181	106
Theoretical	52	35	17	Biological Sciences, General	117 289	85 172	32 117
Chemistry, General Chemistry, Other	447 55	321 32	126 23	Biological Sciences, Other	161	106	55
EARTH, ATMOS., & MARINE SCI.	853	667	186	HEALTH SCIENCES	1,297	453	844
Atmospheric Physics and Chemistry	27	22	.5	Speech-Lang. Pathology & Audiology Environmental Health	95 51	17 31	78 20
Atmospheric Dynamics Meteorology	27 32	18 24	.5 9 8 4	Health Systems/Services Admin. Public Health	53 143	23 50	20 30 93
atmos. Sci./Meteorology, General	32 37	33	4 0	Epidemiology	168	61	107
Atmos. Sci./Meteorology, Other Beology	6 194	6 162	32 10	Exercise Physiology/Sci., Kinesiology Nursing	87 336	54 20	33 316
Seochemistry Seophysics and Seismology	59 106	49 82	10 24	Pharmacy Rehabilitation/Therapeutic Services	148 43	80 17	68 26
aleontology Aineralogy, Petrology	17 21	15	24 2 6	Veterinary Medicine	56	45	11
uaugiadny, seuilleniaudh	27	15 23	4	Health Sciences, General Health Sciences, Other	41 76	21 34	20 42
eomorphology and Glacial Geology eological & Related Sci., General	13 18	11 17	1	AGRICULTURAL SCIENCES	1,240	971	269
Geological & Related Sci., Other Environmental Science	24 61	13 37	11 24		·		
lydrology and Water Resources	30	27	3	Agricultural Economics Animal Breeding and Genetics	162 17	142 14	20
Oceanography Marine Sciences	91 34	64 23	27 11	Animal Nutrition Dairy Science	58 11	48 10	10 1
Aisc. Physical Sciences, Other	29	26	3	Poultry Science	21 48	16 37	· 11
ENGINEERING	<u>5,826</u>	<u>5,191</u>	<u>635</u>	Fisheries Science and Management Animal Sciences, Other	86	61	11
Aerospace, Aeronautic., Astronautic.	230	219	11	Agronomy and Crop Science Plant Breeding and Genetics	143 81	126 68	17 13
gricultural lioengineering and Biomedical	89 175	79 130	10 45	Plant Pathology Plant Sciences, Other	55 24	35 15	20
Ceramic Sciences	39	30	9	Food Distribution	1	1	ģ
Chemical Civil	630 602	529 546	101 56	Food Engineering Food Sciences, Other	16 152	14 83	69 69
Communications Computer	33 202	28 177	5 25	Soil Chemistry/Microbiology Soil Sciences, Other	21 69	17	25 17 13 20 9 0 2 69 4 6
Electrical, Electronics	1,440	1,323	117	Horticulture Science	65	63 51	. 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.

	Numi	ber of Do	octorates		Numb	er of Do	ctorates
Subfield of Doctorate	Total	Men	Women	Subfield of Doctorate	Total	Men	Women
Forest Biology	20 17	14 15	6	EDUCATION	6,683	<u>2,610</u>	4,073
Forest Management Wood Sci. and Pulp/Paper Tech.	26	20	2 6	Curriculum and Instruction	816	250	566
Conservation/Renewable Nat. Res.	21 59	15 53	6 6	Educational Admin. and Supervision	1,205 780	580 349	625 431
Forestry and Related Sci., Other Wildlife/Range Management	52	39	13	Educational Leadership Educ./Instruct. Media Design	111	55	56
Agricultural Sciences, General	4	4	0.	Educ. Stat./Research Methods	68	13	41 ⁻ 15
Agricultural Sciences, Other	11	10	1	Educ. Assess., Test., & Meas. Educational Psychology	28 311	113	198
SOCIAL SCIENCES (INCL. PSYCH.)	<u>6,624</u>	<u>3,349</u>	<u>3,275</u>	School Psychology	97	38	59 82
Anthropology	384	176	208	Social/Phil. Found. of Educ. Special Education	140 241	58 42	199
Area Studies	34	17 29	17	Counseling Educ./Couns. & Guidance	282	110	172 267
Criminology Demography/Population Studies	41 23	11	12 12	Higher Educ./Evaluation & Research Pre-elementary/Early Childhood	428 90	161 7	83
Economics	914	688	226	Elementary Education	71	14	57
Econometrics Geography	26 146	22 111	4 35	Secondary Education Adult and Continuing Education	24 215	9 84	15 131
Human/Individual & Family Develop.	129	26	103	•			
International Relations/Affairs Political Science and Government	114 589	90 416	24 173	TEACHING FIELDS	960	430	530
Public Policy Analysis	93	55	38	Agricultural Education	52	44	. 8
Sociology Statistics	524 46	254 30	270 16	Art Education Business Education	33 25	10 8	23 17
Urban Affairs/Studies	132	89	43	English Education	56	18	38
Social Sciences, General	21 148	12 68	9 80	Foreign Languages Education Health Education	54 97	16 33	38 64
Social Sciences, Other	140	Uo		Home Economics Education	11	0	. 11
PSYCHOLOGY	3,260	1,255	2,005	Technical/Industrial Arts Education Mathematics Education	20 74	17 33	3 41
Clinical	1,289	443	846	Music Education	89	44	45 20
Cognitive and Psycholinguistics	129	73	56 7	Nursing Education	24 139	4 81	20 58
Comparative Counseling	8 496	1 187	309	Physical Education and Coaching Reading Education	139 97	13	84 37
Developmental and Child	181	47	134	Science Education	85	48	37 5
Experimental Educational	140 69	68 30	72 39	Social Science Education Technical Education	10 30	5 19	11
Industrial and Organizational	137	68	69	Trade and Industrial Education	24	20	4 23
Personality Physiological/Psychobiology	19 93	7 41	12 52	Teacher Ed./Spec. Acad. & Voc., Other	er 40	17	23
Psychometrics	5 17	4	1	Education, General	484	155	329
Quantitative School	17 84	9 31	8 53	Education, Other	332	115	217
Social	153	53	100	PROFESSIONAL/OTHER FIELDS	2,580	<u>1,622</u>	<u>958</u>
Psychology, General Psychology, Other	284 156	125 68	159 88	BUSINESS AND MANAGEMENT	1,285	920	365
<u>HUMANITIES</u>	<u>4,743</u>	<u>2,479</u>	2,264	Accounting	178 134	116 107	62
History, American	310	193	117	Banking/Financial Support Services Business Admin. and Management	322	250	27 72
History, European	180	118	62	Business/Managerial Economics	40 22	34 18	6 4
History/Philosophy of Sci. & Tech. History, General	26 140	16 84	10 56	International Business Mgmt. Info. Sys./Bus. Data Proc.	117	91	26
History, Other	144	94	50	Marketing Management and Research	167 54	112 44	55 10
Classics Comparative Literature	84 163	48 70	36 93	Operations Research Organizational Behavior	102	47	55
Linguistics	221	87	134	Bus. Mgmt./Admin. Serv., General	87	66	21 27
Speech and Rhetorical Studies Letters, General	142 22	64 7	78 15	Bus. Mgmt./Admin. Serv., Other	62	35	21
Letters, Other	22 25 88	8	17	COMMUNICATIONS	371	185	186
American Studies Archeology	88 34	40 17	48 17	Communications Research	40	19	21
Art History/Criticism/Conservation	182	69	113	Mass Communications	156	88	68 28
Music Philosophy	685 302	431 219	254 83	Communication Theory Communications, General	45 68	17 27	41
Religion	252	193	59	Communications, Other	62	34	28
Drama/Theater Arts LANGUAGE AND LITERATURE	102 1,538	50 625	52 913	OTHER PROFESSIONAL FIELDS	885	493	392
	•			Architectural Environmental Design Home Economics	67 31	50	17 29
American English	296 647	141 267	155 380	Law	33	24	9
French	129	37	92	Library Science	41	11	30 15
German Italian	67 32	30 12	37 20	Parks/Recreation/Leisure/Fitness Public Administration	37 134	22 87	47
Spanish	212	60	152	Social Work	272	82	190
Russian Slavic	38 10	18 5	20 5	Theology/Religious Education Professional Fields, General	258 1	210 1	48 0
Chinese	25 12	16	9 7	Professional Fields, Other	11	4	7
Japanese Hebrew	12 11	5 7	7 4	OTHER FIELDS	39	24	15
	4	3	i	V			
Arabic							
Other Language and Literature	55	24	31				

APPENDIX TABLE A-2 Number of Doctorate Recipients, by Citizenship, Race/Ethnicity, and Subfield, 1994

	Non-U.S. U.S. Citizens and Non-U.S. with Permanent Visas										
Subfield of Doctorate		Citizens Temp. Visas	Total	Native Amer.	Asian	Black	White	Puerto Rican	Mex- ican Amer.	Other His- panic	Unkn. Race
TOTAL ALL FIELDS	41,011	9,393	30,846	142	3,540	1,270	24,566	256	306	464	302
PHYSICAL SCIENCES	<u>6,821</u>	2,085	4,587	<u>10</u>	945	<u>73</u>	3,398	<u>31</u>	<u>34</u>	<u>53</u>	43
MATHEMATICS	1,118	437	647	2	141	11	471	1	4	8	9
Applied Mathematics Algebra Analysis and Functional Analysis Geometry Logic Number Theory Mathematical Statistics Topology Computing Theory and Practice Operations Research Mathematics, General Mathematics, Other	204 74 105 34 29 36 204 35 16 26 284	73 22 47 11 9 11 89 10 8 8 129 20	131 52 58 23 20 25 114 25 8 18 122	0 0 0 0 0 0 1 1 0 0	28 2 11 7 0 4 36 6 3 6 30 8	1 2 1 1 2 0 2 0 0 0 0 0	99 46 46 13 17 19 72 16 5 10 85	0 0 0 0 0 1 0 0 0	0 0 0 0 1 0 1 0 1	2 0 0 2 0 1 0 1 0 0 2	1 2 0 0 0 0 2 1 0 1 2
COMPUTER SCIENCE	904	344	543	1	117	10	401	4	2	1	7
Computer Science Information Sciences and Systems	834 70	328 16	489 54	1 0	112 5	9 1	353 48	4	2	1 0	7 0
PHYSICS AND ASTRONOMY	1,692	504	1,155	2	265	11	832	7	5	19	14
Astronomy Astrophysics Acoustics Acoustics Acoustics Chemical and Atomic/Molecular Elementary Particles Fluids Nuclear Optics Plasma and High-Temperature Polymer Solid State and Low-Temperature Physics, General Physics, Other	65 78 20 140 176 12 90 104 79 29 388 343 168	14 18 5 38 67 2 14 21 18 13 135 111 48	51 60 15 102 109 10 76 83 60 16 253 202	0 0 0 0 0 0 0 0 0	5 5 3 23 13 1 15 21 13 4 84 50 28	0 0 1 1 0 0 1 1 1 3 2	42 54 12 73 92 9 60 58 44 9 156 140	0 0 0 1 0 0 0 0 0	0 1 0 0 0 0 0 1 0 1 1	1 0 0 4 3 0 1 2 1 0 3 2 2	3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
CHEMISTRY	2,254	597	1,613	4	330	34	1,178	19	19	21	8
Analytical Inorganic Nuclear Organic Medicinal/Pharmaceutical Physical Polymer Theoretical Chemistry, General Chemistry, Other	333 262 10 543 102 333 117 52 447 55	58 51 0 139 26 88 37 13 166 19	275 203 10 397 76 240 80 39 258 35	0 0 0 1 0 0 1 1 1	46 33 0 75 19 60 21 2 66 8	6 4 0 6 3 3 1 8 0	213 163 10 295 52 169 54 33 164 25	3 1 0 7 1 2 0 1 4	3 0 0 8 0 1 1 1 3 2	4 2 0 5 1 2 0 0 7	0 0 0 0 0 3 0 0 5 0
EARTH, ATMOS., & MARINE SCI.	853	203	629	1	92	7	516	. 0	4	4	5
Atmospheric Physics and Chemistry Atmospheric Dynamics Meteorology Atmos. Sci./Meteorology, General Atmos. Sci./Meteorology, Other Geology Geochemistry Geophysics and Seismology Paleontology Mineralogy, Petrology Stratigraphy, Sedimentation Geomorphology and Glacial Geology Geological & Related Sci., General Geological & Related Sci., Other Environmental Science Hydrology and Water Resources Oceanography Marine Sciences Misc. Physical Sciences, Other	27 27 32 37 6 194 59 106 17 21 27 13 18 24 61 30 91 34 29	4 4 8 8 1 39 9 24 1 4 3 0 7 9 16 9 30 10 7	22 23 23 18 5 153 577 16 17 24 13 115 44 20 57 24	000000000000000000000000000000000000000	4 10 7 2 2 10 13 20 2 4 1 0 1 0 2 3 7 7 1 7 1 7 1 7 1 1 1 1 1 1 1 1 1 1 1	0 0 0 1 1 2 1 0 0 0 0 0 0 0 1 0 0	18 13 16 15 3 137 34 52 14 13 21 13 10 41 16 50 23 13	000000000000000000000000000000000000000	0 0 0 0 0 2 0 1 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 2 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 2 1 1 0 0 0 0 0 0 0 0 0 0 0 0
ENGINEERING	<u>5,826</u>	<u>2,656</u>	<u>3,050</u>	<u>6</u>	<u>868</u>	<u>54</u>	<u>2,016</u>	<u>10</u>	<u>15</u>	<u>41</u>	<u>40</u>
Aerospace, Aeronautic., Astronautic. Agricultural Bioengineering and Biomedical Ceramic Sciences Chemical Civil Communications Computer	230 89 175 39 630 602 33 202	96 48 47 18 287 358 16 103	130 41 126 21 335 238 17 96	1 1 0 1 0 0	23 9 22 3 79 57 7 36	1 0 0 0 8 6 0	100 28 98 17 234 161 8 58	0 1 2 0 2 1 0	2 0 0 0 1 1 0	1 1 0 2 10 2 0	2 1 2 1 8 2 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.

^{*}Includes individuals who did not report their citizenship at time of doctorate.

APPENDIX TABLE A-2 (Continued)

		Non-U.S. Orbert Way Other											
Subfield of Doctorate		Citizens Temp.	Total	Native Amer.	Asian	Black	White	Puerto Rican	Mex- ican Amer.	Other His- panic	Unkn. Race		
Electrical, Electronics Engineering Mechanics Engineering Physics Engineering Science Environmental Health Engineering Industrial/Manufacturing Materials Science Mechanical Metallurgical Mining and Mineral Nuclear Ocean Operations Research Petroleum Polymer/Plastics Systems Engineering, General Engineering, Other	1,440 132 17 46 82 228 433 883 67 23 85 29 47 42 53 51 39 129	618 66 5 20 27 109 186 393 29 10 42 16 23 24 25 19 17	786 64 12 26 54 119 241 471 353 42 11 24 18 27 31 19	1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	262 26 3 8 129 71 153 8 6 8 4 4 4 8 9 7 6 8	16 0 0 0 2 6 2 7 1 1 0 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0	481 38 9 17 38 83 161 296 24 6 32 6 18 9 16 23 24 43	3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 0 0 0 1 1 3 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12 0 0 1 1 0 1 5 0 0 1 0 1 0 0 1 1 0 0 1 0 0 0 0	8 0 0 0 2 7 2 0 1 1 0 0 1 1 0		
LIFE SCIENCES	<u>7,734</u>	<u>1,829</u>	<u>5,820</u>	<u>24</u>	<u>903</u>	<u>147</u>	<u>4,505</u>	<u>39</u>	<u>41</u>	<u>102</u>	<u>59</u>		
BIOLOGICAL SCIENCES	5,197	1,056	4,083	16	720	75	3,106	28	30	72	36		
Biochemistry Biophysics Biotechnology Research Bacteriology Plant Genetics Plant Pathology Plant Physiology Botany, Other Anatomy Biometrics and Biostatistics Cell Biology Ecology Developmental Biology/Embryology Endocrinology Entomology Biological Immunology Molecular Biology Microbiology Neuroscience Nutritional Sciences Parasitology Toxicology Human and Animal Genetics Human and Animal Pathology Human and Animal Pharmacology Human and Animal Pharmacology Human and Animal Physiology Zoology, Other Biological Sciences, General Biological Sciences, Other	805 123 14 18 30 40 70 117 66 201 62 26 123 161 597 423 284 147 22 119 203 129 256 287 117 289 161	181 275 29 221 271 367 37 39 111 97 42 44 44 31 427 453 166 33	615 96 916 21 18 49 90 52 54 200 161 54 143 484 324 323 101 19 97 160 100 213 229 101 212 212	2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	149 24 20 44 15 81 115 31 106 1 97 225 233 37 52 25 38 28	12 00 00 01 13 13 00 10 13 44 44 44 20 22 21 10 77 04 22	433 66 7 7 16 16 13 34 777 35 154 145 45 16 6 6 8 119 361 123 75 123 71 149 176 90 90 155 88	50000000000000000000000000000000000000	4 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 3 1 0 0 0 1 0 0 1 0 0 0 0	54001002215110236834001325373	50000000000000000000000000000000000000		
HEALTH SCIENCES	1,297	229	1,050	6	94	46	867	6	5	14	12		
Speech-Lang. Pathology & Audiology Environmental Health Health Systems/Services Admin. Public Health Epidemiology Exercise Physiology/Sci., Kinesiology Nursing Pharmacy Rehabilitation/Therapeutic Services Veterinary Medicine Health Sciences, General Health Sciences, Other	51 53 143 168	10 17 3 20 18 19 27 64 4 23 5	85 34 50 118 150 66 306 82 39 32 35 53	1 0 1 1 1 0 2 0 0 0 0	6 5 4 11 13 3 6 32 2 1 10	6 1 1 9 4 1 13 3 2 1 1 4	71 26 38 96 125 60 281 47 34 28 26	1 0 3 0 0 0 0 0 1 0	0 0 0 0 3 0 2 0 0 0	0 0 2 1 3 1 1 0 0 2 1 3	0 2 1 0 1 1 1 0 0 0 0 5 1		
AGRICULTURAL SCIENCES	1,240	544	687	2	89	26	532	5	. 6	16	11		
Agricultural Economics Animal Breeding and Genetics Animal Nutrition Dairy Science Poultry Science Fisheries Science and Management Animal Sciences, Other Agronomy and Crop Science Plant Breeding and Genetics Plant Pathology Plant Sciences, Other Food Distribution Food Engineering Food Sciences, Other Soil Chemistry/Microbiology	162 17 58 11 21 48 86 143 81 55 24 1 16 152 21	91 60 20 5 12 29 77 46 24 7 0 9 758	71 10 38 9 15 35 57 65 30 16 1 7 76 13	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 0 1 2 3 2 4 4 4 5 3 0 1 15 2	4 0 4 0 2 0 2 2 2 2 2 1 0 0 0 4 1	45 9 30 6 10 32 48 55 52 20 10 1 55 53	0 0 0 1 0 0 1 1 0 0	0 0 1 0 0 1 1 0 0 1 1 0	202000014401200	2 0 0 0 0 0 0 1 1 1 0 0 0 1 1 0 0 0 1		

Subfield of Doctorate	(Citizens	Total	Native Amer.	Asian	Black	White	Puerto Rican			Unkn. Race			
Soil Sciences, Other Horticulture Science Forest Biology Forest Management Wood Sci. and Pulp/Paper Tech. Conservation/Renewable Nat. Res. Forestry and Related Sci., Other Wildlife/Range Management Agricultural Sciences, General Agricultural Sciences, Other	69 65 20 17 26 21 59 52 4	32 31 5 7 12 6 26 7 3	37 33 15 10 13 15 33 45 1	0 0 0 0 0 0 0	9 7 0 0 5 0 4 1 0	1 1 0 0 0 0 0 0	25 24 15 10 8 14 27 41 1 6	0 1 0 0 0 0 0	0 0 0 0 0 0 0	1 0 0 0 0 1 0 1	1 0 0 0 0 0 0 0 2 1 0			
SOCIAL SCIENCES (INCL. PSYCH.)	6,624	<u>1,045</u>	<u>5,391</u>	<u>27</u>	<u>325</u>	<u>251</u>	4,533	<u>55</u>	<u>57</u>	<u>82</u>	<u>61</u>			
Anthropology Area Studies Criminology Demography/Population Studies Economics Econometrics Geography Human/Individual & Family Develop. International Relations/Affairs Political Science and Government Public Policy Analysis Sociology Statistics Urban Affairs/Studies Social Sciences, General Social Sciences, Other	384 34 41 23 914 26 146 129 114 589 93 524 46 132 21 148	50 13 5 10 398 13 37 15 24 118 17 107 29 47 3 23	329 20 36 13 483 105 112 84 446 406 16 78 18 123	6 0 0 0 0 0 0 1 2 2 0 4 0 0	17 2 2 3 74 3 17 4 6 33 4 35 7 5 1 7	13 3 6 0 19 0 0 3 6 30 7 26 0 10 10 10 10 10 10 10 10 10	280 11 27 9 375 10 84 100 65 357 63 324 9 57 15	1 0 0 1 0 1 0 0 5 0 4 0 0 0	2 1 1 0 1 0 0 0 0 4 1 1 5 0 0 1 1	4 1 0 0 11 0 12 5 5 1 3 0 1 0 0	6 2 0 1 2 0 2 2 2 0 10 0 5 0 0 1			
PSYCHOLOGY	3,260	136	3,033	11	105	121	2,639	43	40	48	26			
Clinical Cognitive and Psycholinguistics Cognitive and Psycholinguistics Counseling Developmental and Child Experimental Educational Industrial and Organizational Personality Physiological/Psychobiology Psychometrics Quantitative School Social Psychology, General Psychology, Other	1,289 129 8 496 181 140 69 137 19 93 5 17 84 153 284 156	19 14 0 9 12 14 2 3 4 11 2 3 2 8 25 8	1,224 114 5 484 169 126 65 134 15 82 3 14 80 145 232 141	4 0 4 0 1 0 0 0 0 0 0 0 0	41 12 0 9 5 4 1 3 1 3 0 1 1 1 5 1 3 6	31 30 32 6 1 3 13 3 0 1 1 3 10 9 3	1,087 94 3 420 149 116 57 112 11 71 74 123 11 123 190 118	14 0 12 22 22 5 0 0 0 0 5 7 3	21 0 8 2 1 0 0 0 3 0 1 0 1 1	23 3 1 8 3 1 1 1 0 2 0 0 2 1 1	300 01200 10000 0000			
<u>HUMANITIES</u>	<u>4,743</u>	<u>632</u>	4,026	<u>23</u>	<u>184</u>	<u>114</u>	3,491	<u>40</u>	<u>45</u>	<u>91</u>	<u>38</u>			
History, American History, European History/Philosophy of Sci. & Tech. History, General History, Other Classics Comparative Literature Linguistics Speech and Rhetorical Studies Letters, General Letters, Other American Studies Archeology Art History/Criticism/Conservation Music Philosophy Religion Drama/Theater Arts	310 180 26 140 144 84 163 221 142 22 25 88 34 182 685 302 252 102	11 14 1 25 22 15 42 87 8 2 3 9 4 15 91 42 24 5	298 166 255 108 122 68 118 131 134 22 79 30 162 567 247 228 97	5 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10 3 2 5 8 1 122 27 2 0 0 5 1 7 31 12 8 4	9 1 1 6 3 1 2 0 3 0 0 7 0 4 1 1 6 1 1 1 6 1 1 1 1 1 1 1 1 1 1 1 1	261 157 22 93 99 63 96 126 18 21 63 29 144 497 215 204	2 0 0 1 3 0 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 0 0 0 0 1 0 3 1 1 0 0 0 2 5 5 1 0 0 0	2 3 0 2 5 1 2 3 1 0 0 1 0 2 10 6 0 1	3 1 0 1 4 1 1 0 1 0 1 0 0 2 5 5 1 0			
LANGUAGE AND LITERATURE	1,538	203	1,317	7	41	36	1,126	24	23	50	10			
American English French German Italian Spanish Russian Slavic Chinese Japanese Hebrew Arabic Other Language and Literature	296 647 129 67 32 212 38 10 25 12 11 4 55	14 57 25 12 6 56 3 0 8 3 1 0	282 582 102 53 24 156 35 9 17 9 8 4 36	250000000000000000000000000000000000000	5 18 3 0 0 1 0 9 1 0 2 2	14 12 5 0 0 2 0 0 1 0 0 2	250 530 86 53 24 88 34 9 7 8 8 2 27	2 0 2 0 0 19 0 0 0 0 0	5 6 1 0 9 0 0 0 0 0 0	3 6 3 0 0 36 0 0 0 0 0	1 5 2 0 0 1 1 1 0 0 0 0 0			
Humanities, General Humanities, Other	31 72	1 8	30 58	0	14	1 4	25 45	. 0	0 2	1	0 2			

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.

^{*}Includes individuals who did not report their citizenship at time of doctorate.

	Non-U.S. U.S. Citizens and Non-U.S. with Permanent Visas											
Subfield of Doctorate		on-U.S. Citizens Temp. Visas	Total	Native Amer.	Asian	Black	White	Puerto Rican	Mex- ican Amer.	Other His- panic	Unkn. Race	
EDUCATION	6,683	537	6,040	<u>36</u>	<u>172</u>	<u>517</u>	5,028	<u>67</u>	100	<u>72</u>	<u>48</u>	
Curriculum and Instruction Educational Admin. and Supervision Educational Leadership. Educ./Instruct. Media Design Educ. Stat./Research Methods Educ. Assess., Test., & Meas. Educational Psychology School Psychology Social/Phil. Found. of Educ. Special Education Counseling Educ./Couns. & Guidance Higher Educ./Evaluation & Research Pre-elementary/Early Childhood Elementary Education Secondary Education Adult and Continuing Education	816 1,205 780 111 68 28 311 97 140 241 242 428 90 71 24 215	77 43 25 27 8 6 31 3 24 14 7 10 4 1	732 1,146 745 84 58 22 277 94 115 225 268 409 76 67 23 201	8 6 5 0 0 4 0 0 0 1 1 0 1	19 22 9 56 1 9 20 10 4 4 4 10 1	40 123 96 11 2 3 14 6 6 11 19 42 16 6 1 12	619 937 606 688 49 18 241 81 196 234 341 557 22 170	15 13 4 00 00 22 21 11 61 00 20 1	17 27 15 0 0 0 4 1 3 5 1 6 2 0 0	12 11 7 0 1 0 2 2 1 7 3 6 2 0 0 0	2 73 0 0 1 0 1 1 0 2 0 0 0	
TEACHING FIELDS	960	140	812	4	36	43	706	.10	7	4	2	
Agricultural Education Art Education Business Education English Education Foreign Languages Education Health Education Home Economics Education Technical/Industrial Arts Education Mathematics Education Music Education Nursing Education Nursing Education Physical Education and Coaching Reading Education Science Education Science Education Technical Education Trade and Industrial Education Trade and Industrial Education Teacher Ed./Spec. Acad. & Voc., Other	52 33 25 56 54 97 11 20 74 89 24 139 97 85 10 30 24	20 2 4 5 27 7 2 5 8 8 5 0 23 5 14 0 4 7 2	32 31 51 27 89 9 15 683 24 114 90 70 10 25 17 38	0 0 0 0 0 1 0 0 0 1 0 0 1 0	0443122100230881311133	4 12 10 5 02 3 10 14 12 22 3 11	27 25 15 45 22 78 8 12 60 21 101 86 65 62 20 33	0 0 4 0 3 0 0 0 0 1 1 1 1 0 0 0 0	0 0 1 0 2 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Education, General Education, Other	484 332	61 29	400 286	3 2	17 12	39 18	294 241	7 2	7 3	7 5	26 3	
PROFESSIONAL/OTHER FIELDS	2,580	<u>609</u>	<u>1,932</u>	<u>16</u>	<u>143</u>	<u>114</u>	<u>1,595</u>	<u>14</u>	<u>14</u>	<u>23</u>	<u>13</u>	
BUSINESS AND MANAGEMENT	1,285	360	905	7	85	37	754	2	7	9	4	
Accounting Banking/Financial Support Services Business Admin. and Management Business/Managerial Economics International Business Mgmt. Info. Sys./Bus. Data Proc. Marketing Management and Research Operations Research Organizational Behavior Bus. Mgmt./Admin. Serv., General Bus. Mgmt./Admin. Serv., Other	178 134 322 40 22 117 167 54 102 87 62	44 45 81 10 11 48 40 23 17 27	134 88 232 30 11 169 127 31 85 51	0 0 3 0 0 1 2 1 0 0	7 14 15 5 2 11 9 6 5 7 4	4 3 10 2 1 3 4 2 4 1 3	121 69 195 23 7 52 110 22 74 43 38	0 0 0 0 1 0 0 0	0 1 3 0 1 0 0 0 1	2 1 3 0 0 1 1 0 1 0 0	0 0 3 0 0 0 1 0 0 0	
COMMUNICATIONS	371	73	291	3	12	28	238	3	2	4	1	
Communications Research Mass Communications Communication Theory Communications, General Communications, Other	40 156 45 68 62	39 2 16 8	32 115 43 47 54	0 3 0 0	3 4 2 1 2	1 11 2 3 11	28 93 37 40 40	0	0 0 1 1 0	0 1 1 1 1	0 0 0 1 0	
OTHER PROFESSIONAL FIELDS	885	165	709	5	44	49	579		5	10	8	
Architectural Environmental Design Home Economics Law Library Science Parks/Recreation/Leisure/Fitness Public Administration Social Work Theology/Religious Education Professional Fields, General Professional Fields, Other OTHER FIELDS	67 31 33 41 37 134 272 258 1 11	34 8 17 8 9 23 17 44 1 4	33 23 14 33 28 108 252 211 0 7	1 0 0 0 0 0 4 0 0	12 2 4 0 0 5 10 10 1	0 1 0 4 0 9 26 8 0 1	20 20 7 28 26 85 200 188 0 5	0 2 0 1 0 6 0 0	0 0 0 0 0 0 4 1 0 0	0 0 1 1 0 3 2 3 0 0	0 0 0 0 1 6 0 1 0	

Total	AII	Doctorates

		1994 Total	Physics and Astronomy	Chemistry	Earth, Atmos. and Marine Sci.	Mathematics	Computer Sciences	PHYSICAL SCIENCES	ENGINEERING	Biochemistry	Other Biosciences	Biosciences Subtotal	Health Sciences	Agricultural Sciences	LIFE SCIENCES
Number in Field		41,011	1,692	2,254	853	1,118	904	<u>6,821</u>	<u>5,826</u>	805	4,392	5,197	1,297	1,240	<u>7,734</u>
Men Women	%	61.5 38.5	88.2 11.8	72.3 27.7	78.2 21.8	78.9 21.1	84.8 15.2	79.7 20.3	89.1 10.9	60.1 39.9	59.4 40.6	59.5 40.5	34.9 65.1	78.3 21.7	58.4 41.6
U.S. Citizenship Non-U.S., Permanent Visa Non-U.S., Temporary Visa Unknown	%	66.1 9.1 22.9 1.9	52.7 15.6 29.8 2.0	57.2 14.4 26.5 2.0	61.1 12.7 23.8 2.5	44.4 13.5 39.1 3.0	47.1 12.9 38.1 1.9	53.1 14.1 30.6 2.2	38.0 14.4 45.6 2.1	60.4 16.0 22.5 1.1	66.7 12.3 19.9 1.1	65.7 12.9 20.3 1.1	74.1 6.9 17.7 1.4	46.0 9.4 43.9 0.7	64.0 11.3 23.6 1.1
Married Not Married Unknown	%	56.8 34.7 8.6	50.1 43.9 6.0	53.5 39.0 7.5	58.4 34.8 6.8	52.4 40.3 7.3	59.0 33.3 7.7	53.8 39.1 7.1	59.8 32.5 7.6	55.4 38.9 5.7	55.6 37.8 6.6	55.6 38.0 6.4	56.0 33.0 11.0	67.1 24.7 8.2	57.5 35.0 7.5
Median Age at Doct.*	Yrs	34.1	30.5	30.0	33.7	31.2	32.1	31.0	31.7	30.5	31.7	31.5	37.7	34.5	32.7
Percent with Bacc. in Same Field as Doctorate	%	55.6	74.4	78.5	55.7	74.3	36.8	68.4	80.4	26.1	54.2	49.8	47.2	59.8	51.0
Percent with Masters	%	78.9	67.7	43.1	82.2	77.7	87.1	65.6	87.3	37.9	48.4	46.8	84.9	92.1	60.4
Median Time Lapse from Bacc. to Doct.* Total Time Registered Time	Yrs	10.8 7.2	8.0 6.9	7.3 6.0	10.6 7.7	8.9 6.8	9.7 7.2	8.5 6.7	9.0 6.4	8.0 6.5	8.9 7.0	8.7 6.9	14.0 7.5	11.0 6.7	9.5 7.0
Postdoctoral Study Plans Fellowship Research Assoc. Traineeship Other Study Planned Employment	%	27.0 13.7 10.5 0.9 1.8	63.7 22.8 38.7 0.5 1.7	55.7 26.1 28.2 0.4 1.0	45.0 21.7 22.2 0.2 0.9	26.7 14.1 10.7 0.4 1.3	14.9 6.7 7.1 0.2 0.9	46.2 20.2 24.4 0.4 1.2	24.5 8.4 14.4 0.8 0.7	84.2 51.2 24.3 2.4 6.3	71.3 42.8 20.6 2.1 5.8	73.3 44.1 21.2 2.1 5.9	18.9 12.7 4.1 0.8 1.3	32.4 10.9 19.4 0.9 1.3	57.6 33.5 18.0 1.7 4.4
After Doctorate Educ. Institution† Industry/Business Government Nonprofit Other & Unknown Postdoc. Plans Unknown	% %	65.3 38.8 13.5 5.0 3.5 4.5 7.7	29.7 8.0 13.9 3.5 0.7 3.6 6.6	37.7 8.7 25.2 1.2 0.4 2.2 6.6	48.5 19.1 14.3 10.2 1.2 3.8 6.4	65.3 46.2 11.4 2.3 0.5 4.8 8.1	79.0 36.1 33.6 4.8 1.0 3.5 6.1	47.1 19.6 19.9 3.6 0.6 3.3 6.8	67.6 19.6 35.9 6.0 1.2 5.0 7.9	11.1 2.9 6.6 0.6 0.4 0.6 4.7	23.5 11.7 5.3 3.2 1.3 1.9 5.1	21.6 10.4 5.5 2.8 1.2 1.7 5.1	70.9 41.6 10.5 7.5 6.7 4.6 10.2	60.1 25.1 14.8 11.9 2.6 5.7 7.5	36.0 18.0 7.8 5.1 2.3 2.9 6.3
Definite Postdoc. Study Seeking Postdoc. Study Definite Employment Seeking Employment	%	17.7 9.3 42.6 22.7	40.4 23.3 15.0 14.7	40.8 14.9 23.9 13.8	28.5 16.5 31.5 17.0	14.7 12.0 38.9 26.4	8.8 6.1 52.2 26.8	30.6 15.5 28.9 18.2	12.2 12.2 38.3 29.4	64.1 20.1 7.1 4.0	53.6 17.7 15.2 8.4	55.3 18.0 13.9 7.7	12.1 6.8 49.2 21.7	18.5 13.9 38.1 21.9	42.1 15.5 23.7 12.3
Employment Commitment	5	<u>17,469</u>	254	538	269	435	472	1,968	2,230	57	666	723	638	473	1,834
Primary Activity‡ R & D Teaching Administration Prof. Services Other Secondary Activity	%	27.3 35.1 11.5 11.2 3.0	56.3 20.3 2.2 7.1 4.7	66.6 18.1 1.3 5.2 1.3	51.5 17.1 3.9 10.0 4.5	33.9 49.0 1.3 3.7 0.7	57.7 23.6 3.2 3.2 1.9	53.9 26.4 2.2 5.3 2.2	63.7 14.9 2.1 7.1 3.2	56.1 16.7 2.6 12.3 5.3	44.4 25.4 3.1 12.3 4.8	45.3 24.7 3.0 12.3 4.8	30.2 33.7 10.9 12.2 1.4	49.9 20.7 3.6 8.2 4.9	41.2 26.8 5.9 11.2 3.7
R & D Teaching Administration Prof. Services Other	%	26.6 13.2 8.5 7.6 2.5 29.7	18.9 5.1 9.8 8.7 2.0	15.3 4.5 19.4 7.8 1.7	21.9 14.9 6.7 11.9 2.2 29.4 13.0	40.5 18.2 4.4 4.1 1.1	22.0 15.5 6.4 7.6 1.5	23.9 11.6 10.0 7.6 1.6	16.6 12.1 11.0 7.7 2.5 41.2	14.0 12.3 15.8 5.3 3.5	23.9 15.9 10.1 6.0 2.3 31.8	23.1 15.6 10.5 5.9 2.4	30.0 15.4 10.3 9.4 2.7	20.6 14.6 9.4 9.1 2.1	24.9 15.3 10.1 8.0 2.4
No Secondary Activity Activity(ies) Unknown	%	11.9	46.1 9.4	43.9 7.4	13.0	20.2 11.5	36.7 10.4	35.2 10.1	8.9	42.1 7.0	10.1	32.6 9.8	20.7 11.6	31.5 12.7	28.2 11.2
Region of Employment After Doctorate§ New England Middle Atlantic East No. Central West No. Central South Atlantic East So. Central West So. Central West So. Central West Gentral West So. Central Mountain Pacific & Insular U.S., Region Unknown Foreign Region Unknown	%	5.8 12.5 13.3 6.5 15.7 4.8 7.7 5.1 10.9 4.1 13.5 0.1	9.8 13.0 11.0 3.9 11.0 5.9 6.7 7.5 14.6 3.9 12.6	8.0 21.6 19.5 5.9 14.1 2.6 3.5 4.1 9.5 2.4 8.6 0.2	4.1 6.3 8.6 1.1 14.5 2.2 8.9 11.2 17.1 5.9 19.7 0.4	6.7 11.3 15.4 7.6 13.1 4.1 6.7 4.4 9.9 1.6 19.1	6.4 16.3 11.4 4.4 13.8 1.7 6.4 4.9 15.5 3.4 15.7 0.2	7.0 14.8 14.1 5.0 13.5 3.1 6.0 5.7 12.7 3.2 14.6 0.2	6.5 10.8 11.6 3.3 10.8 2.3 6.4 5.5 15.7 3.5 23.3 0.3	12.3 10.5 8.8 3.5 12.3 5.3 10.5 5.3 17.5 3.5 0.0	7.1 12.2 8.9 7.2 16.5 5.3 5.9 3.8 11.6 3.8 17.7 0.3	7.5 12.0 8.9 6.9 16.2 5.3 6.2 3.9 12.0 3.7 17.2 0.3	3.8 12.2 13.5 7.4 16.1 10.2 4.9 8.6 4.2 13.0	2.1 3.4 9.1 9.1 5.5 5.5 3.8 8.0 1.7 42.3 0.4	4.8 9.9 10.5 7.6 14.3 5.6 7.4 4.2 9.8 3.4 22.2 0.2

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. Physical Sciences includes Mathematics and Computer Sciences, as well as Physics/Astronomy, Chemistry, and Earth/Atmospheric/Marine Sciences. Refer also to the explanatory note for this table. *The method of median computation has been revised. See page 42 for more information. †Includes 2-year, 4-year, and foreign colleges and universities, medical schools, and elementary/secondary schools. ‡Includes only recipients with definite employment plans. Survey revisions in the 1990s appear to have resulted in greater nonresponse to the item on work activity than in earlier years (11.9% in 1994 versus 6.2% in 1989). However, nonresponse has decreased since 1993 (15.1%). §Includes only recipients with definite employment plans. See Table A-3 explanatory note for regional definitions.

Appendix A

Psychology	Economics	Anthropology and Sociology	Political Sci./ Internat'l Rel.	Other Social Sciences	SOCIAL SCI. INCL. PSYCH.	TOTAL SCIENCES & ENGINEERING	History	Eng. and Amer. Lang. and Lit.	Foreign Lang. and Lit.	Other Humanities	HUMANITIES	EDUCATION	Business and Management	Other Professional Fields	Other Fields	OTHER FIELDS	TOTAL NONSCIENCES
3,260	940	908	703	813	6,624	27,005	800	943	595	2,405	4,743	6,683	1,285	1,256	39 <u>2,5</u>	80	<u>14,006</u>
38.5 61.5	75.5 24.5	47.4 52.6	72.0 28.0	55,1 44.9	50.6 49.4	68.5 31.5	63.1 36.9	43.3 56.7	36.5 63.5	56.1 43.9	52.3 47.7	39.1 60.9	71.6 28.4	54.0 46.0	61.5 62 38.5 3	2.9 7.1	47.9 52.1
90.6 2.4 4.2 2.8	41.7 11.1 43.7 3.5	73.5 7.5 17.3 1.8	65.9 9.5 20.2 4.4	64.2 9.2 24.5 2.1	75.5 5.9 15.8 2.8	58.4 11.4 28.2 2.0	84.4 5.5 9.1 1.0	88.4 3.2 7.5 0.8	61.8 14.3 22.2 1.7	76.3 6.4 14.8 2.5	78.3 6.6 13.3 1.8	87.4 3.0 8.0 1.6	63.1 7.3 28.0 1.6	74.5 5.1 18.9 1.4	66 2:	8.6 6.2 3.6 1.5	80.9 4.8 12.7 1.6
48.8 39.9 11.2	53.9 38.2 7.9	55.0 38.5 6.5	55.2 32.0 12.8	60.8 29.5 9.7	52.5 37.4 10.1	55.9 36.1 8.1	54.4 40.0 5.6	48.3 42.0 9.8	52.8 39.8 7.4	50.6 40.0 9.4	51.0 40.4 8.6	62.7 26.7 10.6	63.2 27.8 9.0	59.9 31.6 8.5	6 2	1.5 9.7 8.8	58.5 31.9 9.6
33.1	32.7	36.8	33.9	37.4	34.1	32.2	35.3	35.2	35.5	36.2	35.7	43.6	35.5	39.6	3′	7.2	39.9
62.1	58.7	48.5	50.6	18.6	53.2	62.3	59.9	65.6	49.7	55.2	57.4	36.9	36.0	26.0	30	0.6	42.7
77.6	76.6	90.7	84.2	90.2	81.5	72.7	88.5	88.2	87.7	88.7	88.4	93.0	86.2	94.4	9	0.1	90.9
9.4 7.2	9.7 7.2	12.4 8.7	11.0 7.9	13.0 7.6	10.5 7.5	9.3 6.9	11.6 8.6	11.3 8.3	11.2 8.3	12.5 8.6	12.0 8.5	19.7 8.1	12.2 7.2	15.8 8.0	. 1	3.5 7.5	15.9 8.0
26.2 17.8 4.5 2.6 1.2	6.0 3.5 1.9 0.2 0.3	16.2 10.5 3.6 0.3 1.8	10.1 7.1 1.4 0.4 1.1	11.2 5.2 3.7 0.6 1.7	18.4 12.1 3.6 1.5 1.2	38.0 19.5 15.3 1.1 2.0	10.9 6.9 2.0 0.1 1.9	5.5 3.3 0.3 0.0 1.9	8.2 3.9 1.0 0.3 3.0	8.1 4.2 1.3 0.7 1.9	8.1 4.4 1.2 0.4 2.0	4.6 1.7 1.2 0.5 1.2	3.7 1.2 1.6 0.3 0.5	5.3 2.1 1.6 0.3 1.2		4.5 1.7 1.7 0.3 0.8	5.8 2.6 1.3 0.4 1.4
64.9 24.7 13.2 7.8 12.1 7.1 8.9	85.7 52.8 11.1 9.9 2.7 9.4 8.3	77.4 56.7 5.5 5.1 3.4 6.7 6.4	78.9 60.0 4.7 6.3 3.1 4.8 11.0	79.7 49.0 8.4 9.1 6.4 6.9 9.1	72.9 39.8 10.4 7.7 7.9 7.1 8.7	54.7 24.1 17.5 5.6 3.0 4.5 7.4	82.8 68.1 3.9 3.4 1.9 5.5 6.4	87.0 77.9 2.5 0.4 1.1 5.0 7.5	83.9 75.0 2.7 0.5 1.3 4.4 7.9	83.2 65.8 5.0 1.6 5.9 4.9 8.7	84.0 69.8 4.0 1.5 3.7 4.9 8.0	86.5 66.9 5.5 5.3 4.1 4.6 8.9	89.6 71.4 11.4 2.9 0.8 3.1 6.8	86.6 55.8 7.7 6.4 12.7 4.1 8.1		7.9 3.4 9.7 4.7 6.7 3.5 7.5	85.9 67.2 5.8 3.9 4.4 4.5 8.3
19.0 7.1 43.8 21.1	3.0 3.0 59.1 26.6	8.3 7.9 45.7 31.7	4.1 6.0 51.8 27.2	5.3 5.9 50.7 29.0	12.0 6.4 47.9 25.0	25.4 12.6 34.1 20.6	5.6 5.2 47.4 35.4	3.0 2.5 50.4 36.6	3.2 5.0 51.9 31.9	3.7 4.4 50.0 33.2	3.8 4.3 49.9 34.1	2.4 2.2 63.3 23.2	1.7 1.9 67.3 22.3	3.1 2.1 62.3 24.3	6 2	2.5 2.1 4.6 3.3	2.9 2.9 59.0 26.9
1,428	556	415	364	412	3,175	<u>9,207</u>	379	475	309	1,203	<u>2,366</u>	<u>4,229</u>	865	783		<u> 567</u>	<u>8,262</u>
17.1 15.4 4.3 52.5 2.7	45.7 31.4 3.3 4.7 3.8	23.1 48.9 7.0 5.1 1.9	20.3 49.7 4.9 3.3 4.1	26.9 38.1 10.4 10.0 2.2	24.5 29.5 5.4 26.8 2.9	43.6 24.8 4.0 14.3 3.0	11.3 61.2 3.7 3.4 3.7	5.4 74.0 3.6 1.3 1.7	8.1 72.2 2.3 1.3 1.0	7.5 64.6 3.7 5.3 6.0	7.8 66.9 3.5 3.7 4.1	5.7 34.3 33.5 10.0 2.3	27.4 50.2 4.4 2.8 2.9	11.2 48.0 12.0 13.2 4.7	1 4	9.9 8.8 8.0 7.7 3.8	9.2 46.6 19.8 7.7 3.1
22.4 16.9 9.0 8.2 3.2 32.3 8.0	29.7 24.1 7.0 4.5 2.0 21.6 11.2	41.2 12.3 6.3 3.9 2.4 20.0 14.0	40.2 15.9 4.3 1.6 1.1 19.2 17.6	32.3 14.3 5.6 6.8 1.9 26.7 12.4	29.5 17.1 7.3 6.0 2.5 26.6 11.0	24.2 14.4 9.3 7.2 2.3 32.3 10.3	45.3 10.9 5.5 2.9 1.8 16.9 16.6	45.9 6.1 7.4 3.2 2.3 21.1 14.1	51.5 5.8 4.9 2.3 2.3 18.1 15.2	35.7 8.7 8.0 5.6 7.3 21.9 12.9	41.3 8.2 7.1 4.2 4.8 20.4 14.0	18.5 11.2 8.3 10.9 2.0 34.8 14.3	44.2 24.5 3.5 3.1 0.9 11.3 12.4	34.0 13.7 8.4 9.2 2.9 20.9 10.9		9.2 9.2 5.9 6.1 1.9 6.1	29.2 11.9 7.5 8.0 2.8 26.9 13.7
5.7 17.8 13.9 6.4 14.2 5.8 14.0 5.0 3.4 0.0	7.4 10.4 10.6 3.1 23.2 0.5 3.6 2.7 9.7 1.6 26.8 0.4	5.5 15.4 11.8 7.2 16.4 3.9 6.5 10.6 2.7 13.5 0.0	7.4 11.0 11.0 4.9 18.1 3.6 6.3 4.9 10.4 4.4 17.9 0.0	6.1 11.7 12.1 6.6 14.6 1.9 8.3 4.1 8.3 5.1 21.4 0.0	6.2 14.6 12.5 5.8 16.6 3.6 7.1 5.0 11.7 4.1 12.8 0.1	6.2 12.8 12.2 5.4 14.1 3.6 6.8 5.1 12.5 3.6 17.6 0.2	7.4 14.2 16.6 5.5 15.8 3.7 6.6 5.8 10.3 4.5 9.2 0.3	8.4 15.2 15.2 6.3 15.4 7.2 6.9 4.2 9.7 4.4 7.2 0.0	9.1 14.2 18.8 6.5 16.2 7.4 2.6 11.7 3.9 6.5 0.0	6.6 11.4 14.0 8.2 15.0 5.6 8.5 4.7 10.0 4.5 11.6	7.4 13.0 15.3 7.2 15.3 5.3 7.7 4.5 10.2 4.4 9.6 0.0	4.7 11.8 14.8 8.7 19.0 6.3 8.9 5.3 9.2 5.3 6.0 0.1	5.1 12.4 12.5 6.2 7.4 10.4 4.7 6.4 2.2 16.5 0.0	2.6 12.0 11.7 5.7 17.8 7.8 9.7 5.4 8.9 4.2 14.0 0.1	1 1 1 1	4.0 2.2 2.2 5.9 6.7 7.5 0.0 5.0 7.8 3.2 5.4 0.1	5.3 12.2 14.4 7.7 17.5 6.3 8.8 5.0 9.2 4.6 8.9 0.1

 $[\]parallel$ Statistics are not presented for this group because too few records contained the specific data.

Doctorates: Men

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		1994 Total	Physics and Astronomy	Chemistry	Earth, Atmos. and Marine Sci.	Mathematics	Computer Sciences	PHYSICAL SCIENCES	ENGINEERING	Biochemistry	Other Biosciences	Biosciences Subtotal	Health Sciences	Agricultural Sciences	LIFE SCIENCES
Total Men		25,205	1,492	1,630	667	882	767	5,438	<u>5,191</u>	484	2,608	3,092	453		<u>4,516</u>
Men as a Percent of Total Doctorates	%	61.5	88.2	72.3	78.2	78.9	84.8	79.7	89.1	60.1	59.4	59.5	34.9	78.3	58.4
U.S. Citizenship Non-U.S., Permanent Visa Non-U.S., Temporary Visa Unknown	%	58.4 10.5 29.0 2.2	52.6 14.2 31.0 2.2	58.0 12.6 27.0 2.5	59.1 13.2 24.6 3.1	42.5 13.9 40.0 3.5	45.5 13.0 39.5 2.0	52.4 13.4 31.7 2.6	36.0 14.1 47.7 2.1	57.6 17.4 23.8 1.2	63.2 12.8 22.5 1.5	62.3 13.5 22.7 1.5	62.5 9.9 25.2 2.4	44.0 9.0 46.3 0.7	58.4 12.2 28.1 1.4
Married Not Married Unknown	%	60.2 31.6 8.1	49.5 44.1 6.4	53.7 38.7 7.6	61.2 31.6 7.2	51.8 40.2 7.9	60.8 31.9 7.3	54.1 38.6 7.2	60.5 32.2 7.3	58.5 34.9 6.6	58.9 34.1 7.1	58.8 34.2 7.0	62.7 24.5 12.8	71.8 21.3 6.9	62.0 30.5 7.6
Median Age at Doct.*	Yrs	33.2	30.5	30.2	33.7	31.2	31.8	31.1	31.8	30.7	31.9	31.7	35.7	34.9	32.7
Percent with Bacc. in Same Field as Doctorate	%	58.3	74.0	77.1	57.6	74.0	38.2	67.9	81.2	26.4	52.0	48.0	27.4	63.4	49.2
Percent with Masters	%	78.1	66.8	42.6	83.7	76.4	86.6	66.0	87.8	39.9	49.7	48.2	78.8	93.0	60.9
Median Time Lapse from Bacc. to Doct.* Total Time Registered Time	Yrs	10.1 7.0	8.0 6.9	7.3 6.0	10.7 7.7	9.0 6.8	9.5 7.1	8.5 6.8	9.1 6.4	8.0 6.5	9.0 7.0	8.8 7.0	12.3 7.2	11.2 6.6	9.4 6.9
Postdoctoral Study Plans Fellowship Research Assoc. Traineeship Other Study Planned Employment After Doctorate	%	29.2 14.0 12.5 0.9 1.8	63.3 23.0 38.2 0.5 1.6	56.1 26.7 28.2 0.4 0.9	43.0 21.1 20.5 0.1 1.2	28.7 14.7 12.0 0.5 1.5	15.3 7.0 7.3 0.3 0.7	46.3 20.3 24.4 0.4 1.2	24.3 8.4 14.3 0.9 0.8	82.6 49.8 23.3 2.7 6.8	70.2 40.8 20.4 2.5 6.5	72.2 42.2 20.9 2.6 6.5	23.8 15.7 5.7 1.3 1.1	31.9 10.2 19.6 0.8 1.3	58.7 32.7 19.1 2.1 4.9
After Doctorate Educ. Institution† Industry/Business Government Nonprofit Other & Unknown Postdoc. Plans Unknown	% %	63.0 33.8 16.7 5.5 3.0 4.0 7.8	30.0 7.4 14.7 3.5 0.7 3.6 6.7	36.9 7.2 26.3 1.2 0.3 2.0 7.0	49.5 18.0 16.2 10.3 1.2 3.7 7.5	62.6 42.6 12.5 2.6 0.6 4.3 8.7	78.9 34.8 35.6 4.7 0.9 2.9 5.9	46.6 18.2 21.0 3.7 0.7 3.1 7.1	67.8 19.1 36.6 6.0 1.2 4.9 7.9	12.0 3.1 7.2 1.0 0.2 0.4 5.4	23.9 11.2 6.0 3.9 1.2 1.6 5.9	22.0 9.9 6.2 3.5 1.0 1.4 5.8	63.6 32.2 13.5 9.5 4.9 3.5 12.6	61.5 25.3 15.4 13.0 2.5 5.3 6.6	34.7 15.5 8.9 6.1 1.7 2.5 6.6
Definite Postdoc. Study Seeking Postdoc. Study Definite Employment Seeking Employment	%	18.8 10.4 40.3 22.8	40.5 22.8 15.1 14.8	41.3 14.7 24.4 12.6	25.3 17.7 32.1 17.4	15.5 13.2 35.8 26.8	8.5 6.8 52.9 25.9	30.3 15.9 28.7 18.0	11.7 12.5 38.3 29.5	64.0 18.6 8.1 3.9	52.6 17.6 16.1 7.8	54.4 17.8 14.8 7.2	15.5 8.4 43.9 19.6	18.4 13.5 39.9 21.6	42.8 15.9 23.1 11.6
Employment Commitment	S	10,147	226	397	214	316	406	1,559	1,987	39	419	458	199	387	1,044
Primary Activity‡ R & D Teaching Administration Prof. Services Other Secondary Activity	%	34.4 30.3 9.8 9.5 3.5	57.1 17.9 2.4 8.0 5.3	69.3 14.4 1.5 4.5 1.8	51.4 13.8 4.9 10.7 5.6	33.9 45.1 1.7 4.4 0.9	59.1 21.7 3.2 3.4 1.7	55.2 22.9 2.6 5.6 2.6	64.2 14.5 2.2 7.1 3.0	59.0 16.7 3.8 7.7 7.7	46.7 21.5 3.5 13.6 4.3	47.7 21.1 3.5 13.1 4.6	40.7 22.4 11.3 12.6 2.5	51.7 19.6 3.6 8.8 4.7	47.8 20.8 5.0 11.4 4.2
R & D Teaching Administration Prof. Services Other	%	24.2 13.4 9.5 7.3 2.4	17.3 4.9 10.2 9.7 2.2	11.7 5.0 22.0 8.1 1.5	19.2 14.5 7.0 12.6 2.8	36.1 16.1 4.7 4.7 1.3	19.7 13.8 6.7 8.4 1.5	20.6 10.8 10.7 8.3 1.7	16.1 11.8 11.6 8.0 2.2 41.5	12.8 12.8 17.9 5.1 5.1	21.7 16.9 10.7 6.2 1.7	21.0 16.6 11.4 6.1 2.0 33.0	27.1 15.6 12.1 10.1 4.0	20.5 14.5 10.5 9.3 1.6	22.0 15.6 11.2 8.0 2.2
No Secondary Activity Activity(ies) Unknown	%	30.8 12.5	46.5 9.3	43.1 8.6	30.4 13.6	23.1 13.9	39.2 10.8	36.8 11.0	9.0	41.0 5.1	32.2 10.5	10.0	20.6 10.6	32.0 11.6	30.3 10.7
Region of Employment After Doctorate§ New England Middle Atlantic East No. Central West No. Central South Atlantic East So. Central West So. Central West So. Central Mountain Pacific & Insular U.S., Region Unknown Foreign Region Unknown	٠	5.6 12.0 12.6 5.9 14.2 4.5 7.2 5.1 11.5 3.3 17.9 0.1	11.1 12.4 8.8 3.1 11.1 5.8 7.1 8.0 15.0 3.5 14.2	8.1 21.4 19.6 5.5 12.8 2.3 3.8 4.3 10.1 1.8 10.3	3.7 7.0 9.3 0.0 12.6 2.3 9.3 10.3 17.3 7.0 21.0	6.6 11.4 13.6 7.0 13.6 4.1 6.0 4.1 11.4 2.2 19.9	6.2 15.8 11.6 4.4 13.1 1.2 6.4 5.2 16.3 3.4 16.3 0.2	7.1 14.6 13.3 4.4 12.9 6.2 5.8 13.7 3.3 15.8 0.1	6.4 10.5 11.6 3.4 10.5 2.0 6.1 4.8 15.8 3.5 25.1 0.3	7.7 7.7 5.1 5.1 10.3 7.7 12.8 5.1 23.1 0.0 15.4	6.7 10.0 8.6 6.4 15.8 6.0 3.8 11.5 4.3 20.8	6.8 9.8 8.3 6.3 15.3 6.1 6.6 3.9 12.4 3.9 20.3	3.5 10.1 10.6 9.5 15.6 4.5 11.1 4.5 7.5 3.5 19.6	2.1 2.8 9.6 8.5 9.3 5.9 5.7 2.8 7.0 1.3 44.4	4.4 7.3 9.2 7.8 13.1 5.7 7.1 3.6 9.5 2.9 29.1 0.3

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. Physical Sciences includes Mathematics and Computer Sciences, as well as Physics/Astronomy, Chemistry, and Earth/Atmospheric/Marine Sciences. Refer also to the explanatory note for this table. *The method of median computation has been revised. See page 42 for more information. †Includes 2-year, 4-year, and foreign colleges and universities, medical schools, and elementary/secondary schools. ‡Includes only recipients with definite employment plans. Survey revisions in the 1990s appear to have resulted in greater nonresponse to the item on work activity than in earlier years (12.5% in 1994 versus 6.8% in 1989). However, nonresponse has decreased since 1993 (15.5%). §Includes only recipients with definite employment plans. See Table A-3 explanatory note for regional definitions.

Psychology	Economics	Anthropology and Sociology	Political Sci./ Internat'l Rel.	Other Social Sciences	SOCIAL SCI. INCL. PSYCH.	TOTAL SCIENCES & ENGINEERING	History	Eng. and Amer. Lang. and Lit.	Foreign Lang. and Lit.	Other Humanities	HUMANITIES	EDUCATION	Business and Management	Other Professional Fields	Other Fields	PROFESSIONAL/ OTHER FIELDS	TOTAL
1,255	710	430	506	448	3,349	18,494	505	408	217	1,349	2,479	<u>2,610</u>	920	678	24	1,622	<u>6,711</u>
38.5	75.5	47.4	72.0	55.1	50.6	68.5	63.1	43.3	36.5	56.1	52.3	39.1	71.6	54.0	61.5	62.9	47.9
89.6	36.5	67.7	60.9	53.6	66.3	51.8	83.4	85.5	60.8	76.1	77.8	84.1	58.2	68.4		62.5	76.5
2.0	11.8	7.7	10.9	10.3	7.3	12.2	6.3	3.7	10.6	6.4	6.3	4.1	7.9	6.3		7.3	5.7
5.5	47.9	22.8	23.1	33.3	23.1	33.7	9.3	10.0	26.3	14.7	13.8	10.3	32.6	23.5		28.7	16.0
2.9	3.8	1.9	5.1	2.9	3.3	2.3	1.0	0.7	2.3	2.9	2.1	1.6	1.3	1.8		1.5	1.8
55.5	56.1	62.1	59.3	65.0	58.3	58.6	57.8	52.5	51.6	54.5	54.6	72.6	67.6	68.6		67.8	64.8
34.2	36.1	31.6	27.7	25.0	32.0	33.6	37.0	38.5	41.0	35.9	37.0	17.5	24.8	21.5		23.5	26.2
10.3	7.9	6.3	13.0	10.0	9.6	7.8	5.1	9.1	7.4	9.6	8.4	9.8	7.6	9.9		8.8	9.1
33.3	32.7	36.6	34.3	37.0	34.2	32.1	35.0	34.5	35.7	36.2	35.7	42.9	35.2	38.7		36.7	38.6
61.9	58.2	51.4	50.4	24.8	53.1	64.4	59.2	67.4	42.4	55.6	57.1	32.9	36.6	25.1		31.3	41.4
77.6	77.7	91.6	85.4	90.4	82.3	73.8	87.9	86.8	84.8	87.1	87.0	92.8	87.1	93.5		89.6	89.9
9.7	9.8	12.5	11.0	12.5	10.7	9.2	11.3	10.5	11.2	12.3	11.7	19.0	11.9	15.4		13.0	14.6
7.2	7.2	8.5	7.9	7.5	7.5	6.8	8.5	8.1	8.3	8.4	8.3	8.2	7.2	8.0		7.4	8.0
25.2	6.1	17.9	10.3	11.6	16.1	37.7	10.5	5.9	6.5	7.6	7.8	4.6	3.7	4.9		4.4	5.7
16.3	3.1	12.1	7.3	5.6	10.2	18.1	6.9	3.7	5.1	3.8	4.5	1.8	1.3	1.9		1.5	2.7
5.3	2.3	4.4	1.2	3.8	3.7	16.5	1.8	0.7	0.0	1.1	1.1	1.3	1.6	1.2		1.7	1.3
2.2	0.3	0.0	0.6	0.4	1.0	1.0	0.2	0.0	0.0	0.7	0.4	0.3	0.4	0.3		0.4	0.4
1.4	0.4	1.4	1.2	1.8	1.2	2.0	1.6	1.5	1.4	2.0	1.8	1.2	0.3	1.5		0.8	1.3
66.1	85.4	75.8	77.7	79.2	74.9	54.8	83.6	86.0	83.4	83.2	83.8	86.4	90.1	85.1		87.6	85.7
23.7	50.7	56.3	57.7	47.3	41.9	22.1	67.9	77.7	73.3	65.4	68.6	67.0	69.9	50.6		61.2	66.2
14.4	12.1	4.2	5.5	8.9	10.5	20.5	3.6	2.0	2.3	5.1	4.0	5.3	13.2	6.3		10.4	6.1
9.9	10.3	5.6	7.1	10.7	9.1	5.9	4.4	1.0	0.5	1.6	1.9	6.0	3.3	8.1		5.3	4.3
11.6	2.5	3.5	2.8	6.5	6.6	2.1	2.0	1.5	2.3	7.2	4.8	4.7	0.7	16.7		7.5	5.4
6.6	9.7	6.3	4.5	5.8	6.8	4.1	5.7	3.9	5.1	4.0	4.4	3.4	3.2	3.4		3.2	3.7
8.7	8.6	6.3	12.1	9.2	8.9	7.6	5.9	8.1	10.1	9.1	8.4	9.0	6.2	10.0		8.0	8.5
19.7	2.8	8.8	4.2	5.6	10.5	24.6	5.5	3.7	2.8	3.3	3.8	2.2	1.7	3.2		2.5	2.9
5.5	3.2	9.1	6.1	6.0	5.6	13.1	5.0	2.2	3.7	4.3	4.0	2.4	2.0	1.6		1.8	2.9
46.8	56.6	44.4	48.8	51.6	49.5	33.8	45.5	45.8	48.4	49.3	47.9	64.6	65.7	60.8		63.2	58.1
19.4	28.7	31.4	28.9	27.7	25.4	21.0	38.0	40.2	35.0	34.0	35.9	21.8	24.5	24.3		24.4	27.6
587	402	191	247	231	<u>1,658</u>	6,248	230	187	105	665	<u>1,187</u>	<u>1,687</u>	604	412			<u>3,899</u>
18.9	47.6	27.0	19.4	26.4	27.9	49.6	10.4	5.3	7.1	6.9	7.4	5.7	27.9	8.4		20.2	10.0
13.6	29.4	42.7	50.4	37.9	29.6	21.7	58.0	74.3	69.5	60.2	62.8	29.1	48.3	47.2		47.5	44.2
4.9	3.6	7.9	5.5	10.6	5.8	3.7	4.1	2.7	2.4	4.7	4.1	37.4	4.6	12.6		7.9	19.5
50.3	5.0	4.2	4.0	8.7	21.3	11.2	4.3	1.1	1.0	6.5	4.7	8.7	2.5	12.1		6.4	6.9
2.9	4.0	2.6	4.5	3.0	3.4	3.2	3.9	1.6	1.0	7.4	5.2	2.6	3.1	6.8		4.6	3.9
22.3	28.6	36.1	40.7	32.5	29.6	21.8	40.7	46.0	51.4	31.1	37.1	16.2	42.3	30.1		37.2	28.1
16.3	25.6	15.2	14.2	13.4	17.7	13.7	10.7	4.8	5.7	10.1	9.0	11.7	24.3	12.1		19.3	12.9
11.5	8.5	5.2	4.3	5.2	8.1	10.4	5.7	9.6	2.9	9.6	8.3	8.8	4.2	10.4		6.7	8.1
8.2	3.7	3.1	2.0	6.1	5.3	7.4	2.6	3.7	2.9	7.1	5.3	9.2	3.1	9.7		5.8	7.1
2.9	1.2	2.6	0.8	1.7	2.0	2.0	2.6	1.6	3.8	8.1	5.6	1.7	1.0	3.4		2.0	2.9
29.5	21.9	22.0	21.9	27.7	25.4	34.2	18.7	19.3	14.3	19.7	19.0	35.9	11.4	21.4		15.7	25.4
9.4	10.4	15.7	16.2	13.4	11.9	10.6	19.1	15.0	19.0	14.3	15.8	16.5	13.6	12.9		13.4	15.5
5.5 17.9 14.7 7.2 11.6 5.8 8.2 7.8 13.6 3.2 4.6 0.0	7.0 10.2 9.5 2.2 21.6 0.2 4.5 2.2 9.2 1.5 31.3 0.5	3.1 15.7 13.6 6.3 15.2 4.2 6.8 6.8 7.9 1.0 19.4 0.0	7.3 10.1 8.5 4.5 15.8 4.5 6.1 6.5 8.9 5.3 22.7 0.0	5.2 9.5 10.4 6.5 12.1 2.6 7.4 3.5 10.0 4.3 28.6 0.0	5.4 15.1 3.6 6.7 5.5 10.7 3.0 18.8	6.1 11.8 11.7 4.9 12.7 3.3 6.5 5.1 12.9 3.2 21.8 0.2	7.8 13:9 13.5 4.3 16.5 5.2 7.4 6.5 10.9 3.5 10.4 0.0	6.4 19.8 12.3 6.4 11.2 8.0 4.8 10.7 3.2 9.1	9.5 17.1 17.1 6.7 12.4 2.9 11.4 0.0 12.4 1.9 8.6 0.0	5.9 11.1 12.6 8.3 14.3 6.3 9.3 4.8 12.0 3.9 11.4 0.0	6.7 13.6 13.1 7.1 14.1 6.1 8.9 4.7 11.6 3.5 10.6	4.0 12.0 16.5 9.2 18.1 5.9 7.4 6.0 9.1 3.7 8.1	5.1 13.6 11.6 5.3 14.7 7.0 9.9 5.1 5.8 2.3 19.5 0.0	5.8 19.7 9.0 10.0 3.9 8.3 3.6 18.4		3.9 12.0 10.7 5.5 16.6 7.7 9.9 4.6 7.0 2.9 19.1 0.1	4.8 12.5 14.0 7.6 16.5 6.4 8.5 5.2 9.3 3.4 11.8 0.1

 $[\]parallel$ Statistics are not presented for this group because too few records contained the specific data.

APPENDIX TABLE A-3 (Continued)

Doctorates: Women

		1994 Total	Physics and Astronomy	Chemistry	Earth, Atmos. and Marine Sci.	Mathematics	Computer Sciences	PHYSICAL SCIENCES	ENGINEERING	Biochemistry	Other Biosciences	Biosciences Subtotal	Health Sciences	Agricultural Sciences	LIFE SCIENCES
Total Women	-	15,806	200	624	186	236		1,383	635	321	1,784		844		3,218
Women as a Percent of Total Doctorates	%	38.5	11.8	27.7	21.8	21.1	15.2	20.3	10.9	39.9	40.6	40.5	65.1	21.7	41.6
U.S. Citizenship Non-U.S., Permanent Visa Non-U.S., Temporary Visa Unknown	%	78.4 7.0 13.1 1.4	53.0 26.0 21.0 0.0	55.1 19.1 25.2 0.6	68.3 10.8 21.0 0.0	51.3 11.9 35.6 1.3	56.2 12.4 29.9 1.5	56.0 17.1 26.2 0.7	54.0 16.5 28.0 1.4	64.5 14.0 20.6 0.9	71.9 11.5 16.1 0.5	70.7 11.9 16.8 0.6	80.3 5.2 13.6 0.8	53.5 10.8 34.9 0.7	71.8 10.1 17.5 0.7
Married Not Married Unknown	%	51.2 39.4 9.3	55.0 42.0 3.0	53.0 39.6 7.4	48.4 46.2 5.4	54.7 40.3 5.1	48.9 40.9 10.2	52.6 41.1 6.4	54.5 35.3 10.2	50.8 44.9 4.4	50.9 43.2 5.9	50.9 43.5 5.7	52.4 37.6 10.1	50.2 36.8 13.0	51.2 41.4 7.4
Median Age at Doct.*	Yrs	35.9	30.7	29.3	33.4	30.7	33.5	30.7	30.7	30.2	31.3	31.2	38.9	33.2	32.5
Percent with Bacc. in Same Field as Doctorate	%	51.3	77.5	82.1	48.9	75.4	29.2	70.6	74.3	25.5	57.3	52.5	57.8	46.8	53.4
Percent with Masters	%	80.2	74.5	44.4	76.9	82.6	89.8	64.1	83.3	34.9	46.5	44.7	88.2	88.8	59.8
Median Time Lapse from Bacc. to Doct.* Total Time Registered Time	Yrs	12.0 7.5	8.7 7.1	7.0 5.9	10.3 7.6	8.4 6.8	10.9 7.7	8.1 6.6	8.6 6.3	7.9 6.6	8.8 6.9	8.6 6.8	15.1 7.6	10.0 6.9	9.8 7.0
Postdoctoral Study Plans Fellowship Research Assoc. Traineeship Other Study	%	23.5 13.2 7.4 1.0 1.8	66.0 21.0 42.0 0.5 2.5	54.8 24.7 28.2 0.6 1.3	52.2 23.7 28.0 0.5 0.0	19.1 11.9 5.9 0.4 0.8	13.1 5.1 5.8 0.0 2.2	45.8 19.9 24.2 0.5 1.3	26.0 9.0 15.7 0.6 0.6	86.6 53.3 25.9 1.9 5.6	72.9 45.7 20.9 1.5 4.8	75.0 46.9 21.6 1.5 4.9	16.2 11.1 3.2 0.5 1.4	34.2 13.4 18.6 1.1 1.1	56.2 34.7 16.5 1.2 3.7
Planned Employment After Doctorate Educ. Institution† Industry/Business Government Nonprofit Other & Unknown Postdoc. Plans Unknown	% %	69.0 46.8 8.5 4.2 4.3 5.2 7.5	28.0 12.5 8.0 4.0 0.0 3.5 6.0	39.6 12.7 22.3 1.4 0.5 2.7 5.6	45.2 23.1 7.5 9.7 1.1 3.8 2.7	75.4 59.3 7.6 1.3 0.4 6.8 5.5	79.6 43.1 22.6 5.1 1.5 7.3 7.3	48.7 25.0 15.8 3.3 0.6 4.1 5.4	66.3 23.1 29.4 6.6 1.3 5.8 7.7	9.7 2.5 5.6 0.0 0.6 0.9 3.7	23.0 12.6 4.3 2.2 1.5 2.4 4.1	21.0 11.1 4.5 1.9 1.3 2.2 4.0	74.9 46.7 8.9 6.4 7.7 5.2 8.9	55.0 24.2 12.3 8.2 3.0 7.4 10.8	38.0 21.5 6.3 3.6 3.1 3.4 5.9
Definite Postdoc. Study Seeking Postdoc. Study Definite Employment Seeking Employment	%	16.0 7.5 46.3 22.7	39.0 27.0 14.0 14.0	39.4 15.4 22.6 17.0	39.8 12.4 29.6 15.6	11.4 7.6 50.4 25.0	10.9 2.2 48.2 31.4	31.8 14.0 29.6 19.2	16.2 9.8 38.3 28.0	64.2 22.4 5.6 4.0	55.1 17.8 13.8 9.2	56.5 18.5 12.6 8.4	10.3 5.9 52.0 22.9	19.0 15.2 32.0 23.0	41.2 14.9 24.5 13.4
Employment Commitment After Doctorate	S	7,322	28	141	55	119	66	409	243	18	247	265	439	86	<u>790</u>
Primary Activity‡ R & D Teaching Administration Prof. Services Other Secondary Activity	%	17.5 41.6 13.8 13.5 2.4	50.0 39.3 0.0 0.0 0.0	59.2 28.7 0.7 7.1 0.0	51.8 30.0 0.0 7.3 0.0	34.0 59.2 0.0 1.7 0.0	49.2 35.6 3.0 1.5 3.0	48.7 39.6 0.7 4.2 0.5	60.1 18.3 1.4 7.0 4.9	50.0 16.7 0.0 22.2 0.0	40.5 32.0 2.4 10.1 5.7	41.1 30.9 2.3 10.9 5.3	25.4 38.8 10.7 12.1 0.9	41.9 25.6 3.5 5.8 5.8	32.5 34.7 7.1 11.0 2.9
R & D Teaching Administration Prof. Services Other No Secondary Activity	%	29.9 12.9 7.0 8.0 2.7 28.3	32.1 7.1 7.1 0.0 0.0 42.9	25.5 2.8 12.1 7.1 2.1 46.1	32.7 16.4 5.5 9.1 0.0 25.5	52.1 23.5 3.4 2.5 0.8 12.6	36.4 25.8 4.5 3.0 1.5 21.2	36.4 14.7 7.1 4.9 1.2 29.3	21.4 14.8 6.2 5.8 4.5 39.1	16.7 11.1 11.1 5.6 0.0 44.4	27.5 14.2 8.9 5.7 3.2 31.2 9.3	26.8 14.0 9.1 5.7 3.0 32.1	31.3 15.3 9.5 9.1 2.1	20.9 15.1 4.7 8.1 4.7 29.1	28.7 14.8 8.8 7.8 2.7 25.4
Activity(ies) Unknown	%	11.2	10.7	4.3	10.9	5.0	7.6	6.4	8.2	11.1	9.3	9.4	20.7 12.1	17.4	11.8
Region of Employment After Doctorate§ New England Middle Atlantic East No. Central West No. Central South Atlantic East So. Central West So. Central West So. Central Mountain Pacific & Insular U.S., Region Unknown Foreign Region Unknown	%	6.0 13.2 14.2 7.3 17.7 5.4 8.4 8.5 10.1 5.2 7.4	0.0 17.9 28.6 10.7 7.1 3.6 3.6 10.7 7.1 0.0	7.8 22.0 19.1 7.1 17.7 3.5 2.8 3.5 7.8 4.3 0.0	5.5 3.6 5.5 21.8 7.3 14.5 16.4 1.8 14.5	6.7 10.9 20.2 9.2 11.8 4.2 8.4 5.0 0.0 16.8 0.8	7.6 19.7 10.6 4.5 18.2 4.5 6.1 3.0 10.6 3.0	6.6 15.6 16.9 7.3 16.1 3.9 5.6 5.4 9.0 2.7 10.3	7.8 13.6 11.5 2.9 12.8 5.3 8.6 10.7 14.4 3.3 8.6 0.4	22.2 16.7 16.7 0.0 16.7 0.0 5.6 5.6 5.6 11.1 0.0 0.0	7.7 15.8 9.3 8.5 17.8 4.0 5.7 3.6 11.7 2.8 12.6	8.7 15.8 9.8 7.9 17.7 3.8 5.7 3.8 11.3 3.4 11.7 0.4	3.9 13.2 14.8 6.4 16.4 6.8 9.8 5.0 9.1 4.6 10.0 0.0	2.3 5.8 7.0 11.6 8.1 3.5 4.7 8.1 12.8 3.5 32.6	5.3 13.3 12.3 7.5 15.9 5.4 7.8 4.9 10.3 4.1 13.0 0.1

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. Physical Sciences includes Mathematics and Computer Sciences, as well as Physics/Astronomy, Chemistry, and Earth/Atmospheric/Marine Sciences. Refer also to the explanatory note for this table. *The method of median computation has been revised. See page 42 for more information. †Includes 2-year, 4-year, and foreign colleges and universities, medical schools, and elementary/secondary schools. *Includes only recipients with definite employment plans. Survey revisions in the 1990s appear to have resulted in greater nonresponse to the item on work activity than in earlier years (11.2% in 1994 versus 5.3% in 1989). However, nonresponse has decreased since 1993 (14.6%).
§Includes only recipients with definite employment plans. See Table A-3 explanatory note for regional definitions.

Appendix A

APPENDIX TABLE A-3 (Continued)

Psychology	Economics	Anthropology and Sociology	Political Sci./ Internat'l Rel.	Other Social Sciences	SOCIAL SCI. INCL. PSYCH.	TOTAL SCIENCES & ENGINEERING	History	Eng. and Amer. Lang. and Lit.	Foreign Lang. and Lit.	Other Humanities	HUMANITIES	EDUCATION	Business and Management	Other Professional Fields	Other Fields	PROFESSIONAL/ OTHER FIELDS	TOTAL
2,005	230	478	197	365	3,275	<u>8,511</u>	295	535	378	1,056	<u>2,264</u>	4,073	365	578	15	<u>958</u>	7,295
61.5	24.5	52.6	28.0	44.9	49.4	31.5	36.9	56.7	63.5	43.9	47.7	60.9	28.4	46.0	38.5	37.1	52.1
91.3 2.7 3.3 2.7	57.8 8.7 30.9 2.6	78.7 7.3 12.3 1.7	78.7 6.1 12.7 2.5	77.3 7.9 13.7 1.1	84.8 4.6 8.3 2.4	72.9 9.6 16.2 1.4	86.1 4.1 8.8 1.0	90.7 2.8 5.6 0.9	62.4 16.4 19.8 1.3	76.7 6.4 15.0 1.9	78.8 6.9 12.8 1.5	89.5 2.3 6.6 1.6	75.6 5.8 16.4 2.2	81.7 3.6 13.7 1.0		79.1 4.5 14.9 1.5	84.9 4.0 9.6 1.5
44.6 43.5 11.8	47.4 44.8 7.8	48.5 44.8 6.7	44.7 43.1 12.2	55.6 35.1 9.3	46.6 42.8 10.5	49.9 41.4 8.7	48.5 45.1 6.4	45.0 44.7 10.3	53.4 39.2 7.4	45.5 45.3 9.2	47.1 44.1 8.8	56.3 32.6 11.1	52.1 35.3 12.6	49.7 43.4 6.9		50.9 40.1 9.0	52.7 37.1 10.1
32.9	31.8	37.2	32.8	38.0	34.0	32.3	35.5	35.8	35.4	36.2	35.8	44.0	36.7	40.5		38.9	41.2
62.1	60.4	45.8	51.3	11.0	53.3	57.7	61.0	64.3	54.0	54.7	57.7	39.5	34.2	27.0		29.4	43.8
77.7	73.0	90.0	81.2	89.9	80.7	70.3	89.5	89.3	89.4	90.7	90.0	93.1	84.1	95.5		91.0	91.9
9.3 7.2	9.0 7.2	12.3 8.9	10.5 8.0	13.6 7.7	10.2 7.5	9.5 7.0	12.3 8.8	11.9 8.4	11.2 8.3	12.9 8.9	12.3 8.6	20.0 8.1	13.0 7.2	16.5 7.8		14.6 7.5	17.1 8.2
26.8 18.8 3.9 2.9 1.1	5.7 4.8 0.9 0.0 0.0	14.6 9.0 2.9 0.6 2.1	9.6 6.6 2.0 0.0 1.0	10.7 4.7 3.6 0.8 1.6	20.7 14.0 3.4 2.0 1.3	38.6 22.4 12.7 1.4 2.1	11.5 6.8 2.4 0.0 2.4	5.2 3.0 0.0 0.0 2.2	9.3 3.2 1.6 0.5 4.0	8.7 4.6 1.5 0.8 1.8	8.3 4.3 1.3 0.4 2.3	4.6 1.6 1.2 0.6 1.2	3.6 1.1 1.6 0.0 0.8	5.7 2.4 2.1 0.3 0.9		4.8 1.9 1.9 0.2 0.8	5.8 2.5 1.3 0.5 1.5
64.1 25.3 12.5 6.5 12.5 7.3 9.1	87.0 59.1 7.8 8.7 3.0 8.3 7.4	78.9 57.1 6.7 4.6 3.3 7.1 6.5	82.2 66.0 2.5 4.1 4.1 5.6 8.1	80.3 51.0 7.7 7.1 6.3 8.2 9.0	70.8 37.6 10.2 6.3 9.3 7.4 8.5	54.5 28.4 11.1 4.8 5.0 5.2 7.0	81.4 68.5 4.4 1.7 1.7 5.1 7.1	87.7 78.1 3.0 0.0 0.7 5.8 7.1	84.1 75.9 2.9 0.5 0.8 4.0 6.6	83.1 66.4 4.8 1.7 4.3 6.0 8.1	84.1 71.0 4.0 1.1 2.5 5.5 7.5	86.5 66.9 5.6 4.9 3.8 5.4 8.9	88.2 75.3 6.8 1.9 1.1 3.0 8.2	88.4 61.9 9.3 4.3 8.0 4.8 5.9		88.5 67.0 8.7 3.5 5.2 4.1 6.7	86.0 68.2 5.5 3.5 3.6 5.2 8.2
18.6 8.2 41.9 22.2	3.5 2.2 67.0 20.0	7.7 6.9 46.9 32.0	4.1 5.6 59.4 22.8	4.9 5.8 49.6 30.7	13.6 7.1 46.3 24.5	27.2 11.4 34.8 19.7	5.8 5.8 50.5 30.8	2.4 2.8 53.8 33.8	3.4 5.8 54.0 30.2	4.1 4.6 50.9 32.2	3.8 4.5 52.1 32.1	2.6 2.0 62.4 24.1	1.6 1.9 71.5 16.7	2.9 2.8 64.2 24.2		2.4 2.4 67.0 21.5	2.9 2.9 59.8 26.2
841	154	224	117	181	<u>1,517</u>	<u>2,959</u>	149	288	204	538	<u>1,179</u>	2,542	261	371			<u>4,363</u>
15.8 16.6 3.9 54.1 2.6	40.6 36.7 2.6 3.9 3.2	19.9 54.2 6.2 5.8 1.3	22.2 48.3 3.8 1.7 3.4	27.6 38.4 10.2 11.6 1.1	20.8 29.3 4.8 32.8 2.4	31.0 31.3 4.6 20.9 2.5	12.8 66.1 3.0 2.0 3.4	5.4 73.8 4.2 1.4 1.7	8.6 73.5 2.2 1.5 1.0	8.2 70.0 2.5 3.9 4.3	8.1 71.0 2.9 2.6 3.0	5.7 37.7 30.8 10.9 2.0	26.2 54.6 3.8 3.4 2.3	14.4 48.9 11.3 14.3 2.4		19.5 50.9 8.3 9.8 2.5	8.4 48.7 20.0 8.5 2.4
22.5 17.4 7.3 8.2 3.4 34.2 7.0	32.5 20.1 3.2 6.5 3.9 20.8 13.0	45.5 9.8 7.1 4.5 2.2 18.3 12.5	39.3 19.7 4.3 0.9 1.7 13.7 20.5	32.0 15.5 6.1 7.7 2.2 25.4 11.0	29.3 16.5 6.5 6.9 3.0 27.9 10.0	29.5 15.6 7.1 6.8 2.8 28.4 9.8	52.3 11.4 5.4 3.4 0.7 14.1 12.8	45.8 6.9 5.9 2.8 2.8 22.2 13.5	51.5 5.9 5.9 2.0 1.5 20.1 13.2	41.3 7.0 6.0 3.7 6.3 24.5 11.2	45.5 7.3 5.9 3.1 3.9 21.9 12.3	20.0 10.9 8.0 12.0 2.3 34.1 12.9	48.7 24.9 1.9 3.1 0.8 11.1 9.6	38.4 15.4 6.1 8.6 2.4 20.5 8.6		42.3 19.0 4.8 6.5 1.7 16.7 9.0	30.2 11.1 6.9 8.8 2.6 28.2 12.1
5.8 17.7 13.4 5.8 16.1 4.8 8.9 4.4 14.3 6.3 2.5 0.0	8.4 11.0 13.6 5.2 27.3 1.3 3.9 11.0 1.9 14.9 0.0	7.6 15.2 10.3 8.0 17.4 3.6 6.2 6.2 12.9 4.0 8.5	7.7 12.8 16.2 6.0 23.1 1.7 6.8 1.7 13.7 2.6 7.7 0.0	7.2 14.4 14.4 6.6 17.7 1.1 9.4 5.0 6.1 6.1 12.2	6.7 15.9 13.3 6.2 18.1 3.6 7.6 4.5 12.7 5.2 6.2 0.0	6.4 15.0 13.4 16.8 4.3 7.5 5.2 11.7 4.4 8.8 0.1	6.7 14.8 21.5 7.4 14.8 1.3 5.4 4.7 9.4 6.0 7.4	9.7 12.2 17.0 6.2 18.1 6.6 6.2 3.8 9.0 5.2 5.9 0.0	8.8 12.7 19.6 6.4 18.1 3.4 5.4 3.9 11.3 4.9 5.4 0.0	7.4 11.7 15.8 8.2 15.8 4.6 7.4 4.6 7.4 5.2 11.7 0.0	8.1 12.4 17.5 7.3 16.6 4.5 6.5 4.3 8.7 5.3 0.1	5.1 11.8 13.6 8.3 19.5 6.6 9.9 4.8 9.2 6.4 4.6 0.1	5.0 9.6 14.6 8.4 19.5 8.4 11.5 3.8 7.7 1.9 9.0	3.2 14.8 14.0 5.7 15.6 6.5 9.4 7.0 9.7 4.9 9.2 0.0		4.0 12.6 14.6 6.7 17.0 7.2 10.1 5.8 9.0 3.6 9.3 0.0	5.8 12.1 14.8 78.8 18.4 6.1 9.0 4.8 9.1 5.7 6.4 0.1

 $[\]parallel$ Statistics are not presented for this group because too few records contained the specific data.

APPENDIX TABLE A-4 Statistical Profile of Doctorate Recipients, by Race/Ethnicity and Citizenship, 1994

			Tota	ıl		Native American		Asi	an			Blac	:k	
		Total*	U.S.	Non- Perm.	-U.S. Temp.	Total -	Total*	U.S.	Non- Perm.	-U.S. Temp.	Total*	U.S.	Non- Perm.	U.S. Temp.
Total Number		41,011	27,105	3,741	9,393	145	9,359	949	2,591	5,796	1,669	1,092	178	384
Male Female	%	61.5 38.5	54.3 45.7	70.4 29.6	77.9 22.1	51.0 49.0	75.5 24.5	62.3 37.7	72.4 27.6	79.0 21.0	52.8 47.2	37.3 62.7	79.8 20.2	84.6 15.4
Doctoral Field Physical Sciences Engineering Life Sciences Social Sciences Humanities Education Professional/Other	%	16.6 14.2 18.9 16.2 11.6 16.3 6.3	13.4 8.2 18.3 18.4 13.7 21.6 6.5	25.8 22.4 23.3 10.5 8.4 5.3 4.3	22.2 28.3 19.5 11.1 6.7 5.7 6.5	7.6 4.8 16.6 18.6 16.6 24.8 11.0	24.5 29.0 21.1 9.8 4.5 5.2 5.9	18.9 21.3 25.9 13.9 7.2 8.4 4.4	29.6 25.7 25.4 7.4 4.5 3.6 3.9	23.3 31.8 18.4 10.0 4.1 5.4 7.1	6.8 5.3 17.1 19.0 8.4 34.9 8.5	4.8 4.0 10.6 18.3 9.3 44.1 8.8	11.8 5.6 17.4 28.7 6.7 19.7	10.4 8.9 35.9 16.1 6.8 15.1 6.8
Median Age at Doct.†	Yrs	34.1	35.1	33.7	32.7	38.9	32.7	31.9	33.2	32.7	39.5	40.6	37.9	38.2
Median Time Lapse from Bacc. to Doct.† Total Time Registered Time	Yrs	10.8 7.2	11.5 7.3	10.9 7.4	9.8 6.8	14.4 7.5	10.2 7.0	9.0 7.1	10.9 7.4	10.0 6.9	14.3 7.3	17.2 7.9	11.0 7.0	12.4 6.6
Graduate School Support‡ GI Bill Other Federal§ State Government Foreign Government National Fellow (nonfed.	%)	0.9 9.4 0.9 4.0 5.0	1.4 12.7 1.2 0.4 5.7	0.1 3.3 0.4 4.6 3.6	0.0 3.0 0.4 14.3 3.6	4.1 17.2 1.4 0.0 9.7	0.1 3.5 0.3 6.2 2.7	0.5 19.7 0.7 0.4 6.7	0.0 2.1 0.3 2.7 2.4	0.0 1.5 0.3 8.7 2.3	0.6 11.0 1.6 6.1 10.7	0.9 12.2 1.8 0.2 10.3	0.0 5.6 1.7 6.7 9.6	0.0 10.7 0.8 22.7 12.2
Univ. Teaching Asst. Univ. Research Asst.§ Other University Business/Employer Self/Family Sources	%	47.5 48.2 23.3 5.8 66.8	47.6 42.8 26.7 7.6 77.3	53.4 65.4 19.8 3.5 47.5	48.5 60.6 16.7 2.3 49.5	42.1 38.6 27.6 6.9 77.9	49.8 67.4 16.9 2.7 49.5	45.5 56.9 22.3 5.5 63.6	53.5 73.5 18.6 3.0 39.4	48.9 66.5 15.3 2.1 51.8	31.5 30.6 29.1 4.8 64.8	27.9 26.4 33.2 6.2 75.1	42.1 36.0 24.7 5.1 57.3	37.8 41.1 20.1 0.8 41.4
GSL (Stafford) Loan Other Loans Other Sources Unknown Sources	%	19.8 7.3 3.5 6.2	29.2 10.0 3.6 4.3	5.9 3.0 2.2 3.4	0.1 1.7 3.9 5.4	33.8 13.1 4.8 3.4	2.9 1.6 2.3 3.7	23.4 8.4 3.1 3.6	2.0 1.0 1.4 2.4	0.0 0.7 2.6 4.0	23.8 9.0 5.8 7.2	31.0 11.1 3.8 5.9	32.0 12.4 5.6 10.1	0.8 2.1 11.5 6.8
Postdoctoral Plans Postdoctoral Study	%	27.0	23.4	39.2	34.4	22.1	37.9	38.4	43.5	35.5	19.9	16.0	26.4	28.6
Planned Employment Educ. Institution Industry/Business Government Nonprofit Other & Unknown	%	65.3 38.8 13.5 5.0 3.5 4.5	71.0 44.0 12.6 5.5 4.6 4.3	55.1 26.9 19.6 2.3 1.3 4.8	58.2 31.7 14.9 4.9 1.6 5.1	73.8 49.0 7.6 7.6 4.1 5.5	56.1 27.3 19.1 3.5 1.5 4.7	56.4 26.0 20.3 3.7 3.3 3.1	51.2 21.9 22.2 1.7 1.1 4.4	58.3 29.9 17.7 4.3 1.3 5.1	72.0 50.7 5.5 7.5 3.4 5.0	77.1 57.0 5.5 6.1 3.7 4.9	64.0 43.3 6.7 6.2 2.8 5.1	63.5 37.8 4.9 12.2 3.1 5.5
Postdoc. Plans Unknown	%	7.7	5.5	5.8	7.4	4.1	6.0	5.3	5.4	6.2	8.1	6.9	9.6	7.8
Definite Postdoc. Study Seeking Postdoc. Study Definite Employment Seeking Employment	%	17.7 9.3 42.6 22.7	17.1 6.4 49.3 21.7	21.7 17.5 26.4 28.7	19.4 15.0 33.1 25.1	16.6 5.5 49.0 24.8	21.4 16.6 28.7 27.4	26.6 11.8 34.9 21.5	23.9 19.5 22.4 28.8	19.4 16.1 30.6 27.7	10.7 9.2 47.5 24.5	10.3 5.8 54.8 22.3	14.0 12.4 27.0 37.1	10.9 17.7 37.8 25.8
Employment Location After Doctorate# U.S. Foreign Unknown	%	17,469 86.4 13.5 0.1	13,366 97.6 2.3 0.1	986 84.9 14.9 0.2	3,108 38.7 60.9 0.4	71 98.6 1.4 0.0	2,686 58.7 41.0 0.3	331 94.0 5.4 0.6	581 86.9 12.7 0.3	1,773 42.9 56.9 0.2	793 83.2 16.6 0.1	598 99.7 0.2 0.2	48 81.2 18.8 0.0	145 17.2 82.8 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 for a discussion of past changes in the survey question on race/ethnicity.

^{*}Includes individuals who did not report their citizenship at time of doctorate.

†The method of median computation has been revised. See page 46 for more information.

‡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 report.)

§Because federal support obtained through the university cannot always be determined, no distinction is made between federal and university research assistants in this table. Both types of support are grouped under "University Research Assistant." Federal loans are counted in the categories for loans.

| Includes 2-year, 4-year, and foreign colleges and universities, medical schools, and elementary/secondary schools.

#Includes only recipients with definite employment plans.

Appendix A

APPENDIX TABLE A-4 (Continued)

	Whi	ite		Puerto <u>Rican</u>	Me	xican_	America	ın		ther I	Iispanic		Unki	nown_F	tace_
Total*	U.S.	Non- Perm.	-U.S. Temp.	Total	Total*	U.S.	Non- Perm.	U.S. Temp.	Total*	U.S.	Non- Perm:		Total*	U.S.	Non- U.S.
27,073	23,787	779	2,418	256	337	289	17	31	936	337	127	470	1,236	253	340
56.9 43.1	54.8 45.2	64.7 35.3	75.9 24.1	47.7 52.3	54.0 46.0	51.6 48.4	58.8 41.2	74.2 25.8	59.7 40.3	49.3 50.7	53.5 46.5	68.7 31.3	73.6 26.4	66.0 34.0	77.4 22.6
14.7 9.7 18.1 18.0 14.0 19.1 6.5	13.7 7.9 18.4 18.5 14.1 20.9 6.5	19.0 17.2 18.0 15.7 18.4 7.1 4.7	23.5 24.7 16.5 12.6 11.4 5.1 6.2	12.1 3.9 15.2 21.5 15.6 26.2 5.5	11.6 7.1 15.4 17.5 14.2 30.0 4.2	9.7 4.8 12.8 19.0 14.5 34.3 4.8	35.3 5.9 23.5 11.8 17.6 5.9 0.0	16.1 29.0 35.5 6.5 9.7 3.2 0.0	13.9 13.5 25.4 15.9 16.8 10.8 3.7	11.9 7.4 20.8 19.6 16.6 17.5 6.2	25.2 12.6	16.2 18.1 28.9 14.3 13.8 6.2 2.6	18.4 19.7 16.9 18.5 10.5 11.2 4.7	13.0 11.1 19.8 20.6 13.4 18.2 4.0	16.5 29.4 25.3 11.5 8.2 4.7 4.4
34.5	35.0	33.9	31.7	35.9	36.2	36.8	34.2	33.1	34.6	33.7	36.2	34.6	34.3	35.2	33.2
11.0 7.3	11.4 7.3	10.0 7.3	8.5 6.5	12.3 8.1	11.4 7.3	12.1 7.3	7.9 7.0	9.1 6.8	10.5 6.7	10.0 7.0	11.7 7.5	10.4 6.0	10.3 7.2	11.5 7.7	9.9 7.0
1.3 11.2 1.1 2.8 5.3	1.5 12.1 1.2 0.5 5.3	0.0 5.8 0.5 9.1 5.6	0.0 4.1 0.4 23.6 4.9	2.0 23.4 2.0 0.8 10.5	1.8 21.1 1.2 4.2 13.1	2.1 23.5 1.4 0.7 14.5	0.0 17.6 0.0 11.8 5.9	0.0 0.0 0.0 32.3 3.2	0.4 11.2 1.4 16.0 7.9	0.9 15.1 1.8 0.6 8.6	0.8 6.3 1.6 11.8 6.3	0.0 9.8 1.1 28.1 7.9	0.2 3.6 0.3 3.6 1.2	1.2 11.5 0.8 0.0 2.4	0.0 4.1 0.6 12.9 2.6
49.3 44.6 25.7 7.3 75.5	48.9 43.5 26.5 7.8 78.5	55.8 49.9 21.8 5.0 69.2	53.1 55.2 20.3 3.2 51.6	43.0 30.5 28.1 5.5 66.0	43.0 38.3 32.3 4.7 74.8	42.2 35.3 34.6 4.8 78.5	64.7 58.8 17.6 5.9 64.7	38.7 54.8 19.4 3.2 45.2	46.8 46.3 24.1 3.3 54.0	48.4 39.2 32.3 4.5 73.0	54.3 45.7 24.4 3.1 65.4	43.8 51.7 18.3 2.6 37.4	14.7 14.2 5.8 1.2 14.6	34.8 28.1 15.0 4.3 41.1	27.1 30.0 9.7 1.2 21.2
26.0 9.2 3.8 4.1	29.2 10.0 3.6 3.8	11.3 5.6 3.3 3.5	0.2 3.3 5.5 3.4	39.8 9.0 4.7 7.4	31.2 12.8 . 5.0 3.0	34.6 14.5 4.8 3.1	23.5 5.9 5.9 0.0	3.2 0.0 6.5 3.2	12.2 7.8 4.7 5.7	29.1 10.1 3.3 6.5	11.8 13.4 5.5 4.7	0.2 4.7 5.5 5.1	4.9 2.0 1.5 72.2	22.1 7.1 3.6 41.1	1.5 2.1 2.6 45.0
24.4	23.1	30.9	35.9	22.7	25.5	25.3	11.8	35.5	29.3	31.2	26.0	28.9	9.6	20.6	19.7
70.2 43.1 12.9 5.5 4.4 4.5	71.8 44.3 12.9 5.6 4.8 4.3	64.2 36.6 16.7 3.5 1.3 6.2	58.6 34.1 12.1 5.2 1.9 5.3	68.0 45.7 8.6 5.5 3.5 4.7	70.6 47.2 8.3 5.0 4.7 5.3	71.3 48.4 7.3 5.2 5.2 5.2	82.4 35.3 23.5 5.9 5.9 11.8	58.1 41.9 9.7 3.2 0.0 3.2	63.8 41.5 9.4 5.2 2.4 5.3	60.5 38.3 9.5 5.3 2.4 5.0	5.5 3.1	65.1 41.9 10.4 5.7 1.7 5.3	17.9 10.7 3.1 1.5 0.6 2.1	39.1 23.3 6.7 2.4 1.2 5.5	33.5 20.0 6.2 3.2 0.9 3.2
5.4	5.1	4.9	5.4	9.4	3.9	3.5	5.9	6.5	6.9	8.3	5.5	6.0	72.5	40.3	46.8
17.5 6.9 48.3 21.9	6.1 50.0	12.3 36.3	22.5 13.4 37.4 21.3	14.5 8.2 50.4 17.6	19.6 5.9 50.7 19.9	19.4 5.9 51.6 19.7	11.8 0.0 47.1 35.3	25.8 9.7 45.2 12.9	12.6		10.2 15.7 44.1 24.4		5.7 4.0 10.1 7.8	15.0 5.5 20.2 19.0	9.4 10.3 20.3 13.2
13,086 93.1 6.8 0.1	11,898 97.6 2.4 0.0	83.7 16.3	37.4 61.9	129 99.2 0.8 0.0	171 93.0 7.0 0.0	149 99.3 0.7 0.0	87.5 12.5	14 28.6 71.4 0.0	408 57.8 42.2 0.0	140 97.1 2.9 0.0	75.0 25.0	212 27.4 72.6 0.0	125 57.6 40.8 1.6	51 88.2 11.8 0.0	

APPENDIX TABLE A-5 Sources of Graduate School Support for Doctorate Recipients, by Broad Field and Gender, 1994

	7	Total		sical nces	Engin	eering	L Scie	ife nces	So Scie	cial nces	Huma	nities	_Educ	ation	Prof/C	Other elds
	Men	Women	Men V	Vomen	Men W	omen	Men V	Vomen	Men W	/omen						
Federal Fellow/ Trainee	N 1,158 V* 4.9 H*100.0	7.6	169 3.3 14.6	68 5.1 6.0	99 2.0 8.5	52 8.7 4.6	628 14.8 54.2	657 21.5 57.9	184 5.9 15.9	247 8.1 21.8	64 2.7 5.5	54 2.5 4.8	6 0.2 0.5	38 1.0 3.4	8 0.5 0.7	18 2.0 1.6
GI Bill	N 293 V 1.2 H 100.0	0.6	26 0.5 8.9	0.2 3.2	24 0.5 8.2	4 0.7 4.3	32 0.8 10.9	13 0.4 14.0	70 2.3 23.9	39 1.3 41.9	31 1.3 10.6	7 0.3 7.5	70 2.9 23.9	19 0.5 20.4	40 2.6 13.7	8 0.9 8.6
Other Federal Support†	N 1,057 V 4.5 H 100.0	4.4	301 5.9 28.5	96 7.2 14.5	220 4.5 20.8	40 6.7 6.1	154 3.6 14.6	161 5.3 24.4	158 5.1 14.9	143 4.7 21.6	130 5.6 12.3	96 4.4 14.5	53 2.2 5.0	104 2.8 15.7	41 2.7 3.9	21 2.3 3.2
State Government	N 217 V 0.9 H 100.0	1.1	39 0.8 18.0	7 0.5 4.2	30 0.6 13.8	9 1.5 5.4	62 1.5 28.6	34 1.1 20.5	24 0.8 11.1	42 1.4 25.3	16 0.7 7.4	16 0.7 9.6	38 1.6 17.5	52 1.4 31.3	8 0.5 3.7	6 0.7 3.6
Foreign Government	N 1,292 V 5.5 H 100.0	2.3	209 4.1 16.2	37 2.8 10.6	364 7.5 28.2	17 2.8 4.9	277 6.5 21.4	89 2.9 25.6	181 5.8 14.0	57 1.9 16.4	89 3.8 6.9	75 3.5 21.6	84 3.5 6.5	53 1.4 15.2	88 5.8 6.8	20 2.2 5.7
National Fellow (nonfed.)	N 1,105 V 4.7 H 100.0	6.3	160 3.1 14.5	55 4.1 5.9	120 2.5 10.9	62 10.4 6.7	190 4.5 17.2	174 5.7 18.7	252 8.1 22.8	215 7.1 23.1	272 11.6 24.6	287 13.3 30.9	49 2.0 4.4	86 2.3 9.2	62 4.1 5.6	51 5.7 5.5
University Teaching Assistant	N 12,174 V 51.6 H 100.0	49.1	3,575 69.6 29.4	1,004 74.8 13.8	2,028 41.8 16.7	279 46.7 3.8	1,581 37.2 13.0	1,186 38.8 16.3	1,876 60.5 15.4	1,712 56.2 23.5	1,745 74.6 14.3	1,679 77.6 23.0	560 23.3 4.6	969 25.7 13.3	809 53.5 6.6	467 51.9 6.4
University Research Assistant†	N 13,453 V 57.0 H 100.0	42.4	3,971 77.4 29.5	1,023 76.2 16.2	3,796 78.2 28.2	480 80.3 7.6	2,845 66.9 21.1	1,883 61.6 29.8	1,352 43.6 10.0	1,413 46.4 22.4	423 18.1 3.1	441 20.4 7.0	466 19.4 3.5	715 19.0 11.3	600 39.7 4.5	354 39.4 5.6
University Fellow	N 3,788 V 16.1 H 100.0	16.3	775 15.1 20.5	204 15.2 8.4	518 10.7 13.7	87 14.5 3.6	613 14.4 16.2	472 15.4 19.4	719 23.2 19.0	611 20.1 25.1	758 32.4 20.0	661 30.6 27.2	159 6.6 4.2	250 6.6 10.3	246 16.3 6.5	145 16.1 6.0
Other University	N 1,907 V 8.1 H 100.0	13.9	224 4.4 11.7	77 5.7 3.7	209 4.3 11.0	39 6.5 1.9	312 7.3 16.4	318 10.4 15.3	402 13.0 21.1	537 17.6 25.9	375 16.0 19.7	408 18.9 19.7	260 10.8 13.6	551 14.6 26.6	125 8.3 6.6	144 16.0 6.9
Business/ Employer	N 1,476 V 6.3 H 100.0	6.2	264 5.1 17.9	45 3.4 4.9	410 8.4 27.8	42 7.0 4.6	130 3.1 8.8	146 4.8 15.8	152 4.9 10.3	181 5.9 19.6	104 4.4 7.0	96 4.4 10.4	269 11.2 18.2	348 9.2 37.7	147 9.7 10.0	64 7.1 6.9
Own Earnings	N 11,475 V 48.6 H 100.0	62.4	1,565 30.5 13.6	357 26.6 3.8	1,621 33.4 14.1	185 30.9 2.0	1,576 37.1 13.7	1,367 44.7 14.7	1,986 64.1 17.3	2,043 67.1 22.0	1,646 70.4 14.3	1,466 67.8 15.8	2,085 86.7 18.2	3,226 85.7 34.8	996 65.9 8.7	636 70.7 6.9
Spouse's Earnings	N 5,535 V 23.5 H 100.0	32.9	867 16.9 15.7	273 20.3 5.6	695 14.3 12.6	114 19.1 2.3	1,015 23.9 18.3	820 26.8 16.7	845 27.3 15.3	1,074 35.3 21.9	788 33.7 14.2	732 33.8 14.9	840 34.9 15.2	1,562 41.5 31.9	485 32.1 8.8	323 35.9 6.6
Family Support	N 5,967 V 25.3 H 100.0	24.2	1,086 21.2 18.2	245 18.3 6.8	1,450 29.9 24.3	126 21.1 3.5	940 22.1 15.8	692 22.6 19.2	953 30.8 16.0	1,004 33.0 27.9	713 30.5 11.9	695 32.1 19.3	396 16.5 6.6	613 16.3 17.0	429 28.4 7.2	230 25.6 6.4
Guaranteed Student Loan (Stafford)	N 4,410 V 18.7 H 100.0	25.0	598 11.7 13.6	157 11.7 4.2	341 7.0 7.7	54 9.0 1.5	756 17.8 17.1	526 17.2 14.1	1,069 34.5 24.2	1,283 42.1 34.5	795 34.0 18.0	683 31.6 18.3	527 21.9 12.0	766 20.3 20.6	324 21.4 7.3	255 28.4 6.8
Perkins Loan (NDSL)	N 999 V 4.2 H 100.0	6.5	113 2.2 11.3	42 3.1 4.4	44 0.9 4.4	12 2.0 1.2	127 3.0 12.7	114 3.7 11.9	301 9.7 30.1	372 12.2 38.8	224 9.6 22.4	205 9.5 21.4	123 5.1 12.3	159 4.2 16.6	67 4.4 6.7	56 6.2 5.8
Other Loans	N 645 V 2.7 H 100.0	4.5	60 1.2 9.3	25 1.9 3.7	75 1.5 11.6	14 2.3 2.1	104 2.4 16.1	92 3.0 13.6	159 5.1 24.7	210 6.9 31.2	92 3.9 14.3	102 4.7 15.1	90 3.7 14.0	172 4.6 25.5	65 4.3 10.1	59 6.6 8.8
Other Sources	N 736 V 3.1 H 100.0	4.6	111 2.2 15.1	43 3.2 6.2	99 2.0 13.5	14 2.3 2.0	174 4.1 23.6	173 5.7 25.0	120 3.9 16.3	135 4.4 19.5	88 3.8 12.0	77 3.6 11.1	64 2.7 8.7	187 5.0 27.1	80 5.3 10.9	62 6.9 9.0
Unduplicated Total‡		14,871	5,133	1,342	4,857	598	4,250	3,057	3,099	3,046	2,338	2,163	2,404	3,766	1,512	899

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 report.) 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.

^{*}V denotes vertical percentage; H denotes horizontal percentage.
†Because federal support obtained through the university cannot always be determined, no distinction is made between federal and university research assistants in this table. Both types of support are grouped under "University Research Assistant." Federal loans are counted in the

categories for loans.

‡The 2,547 Ph.D.s who did not report sources of support are omitted from this total. Percentages are based only on known responses.

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APPENDIX TABLE A-6 State of Doctoral Institution of Doctorate Recipients, by Broad Field and Gender, 1994

	T	otal	Physi Scien		Engine	ering	Life Scien		Socia Scien		Humar	ities_	Educa	tion_	Prof./	
	Men V	Women	Men W	omen	Men W	omen	Men W	omen	Men W	omen	Men W	omen	Men W	omen	Men W	omen o
U.S. Total*	25,205	15,806	5,438	1,383	5,191	635	4,516	3,218	3,349	3,275	2,479	2,264	2,610	4,073	1,622	958
Alabama	257	216	45	11	54	8	64	66	21	27	13	12	31	75	29	17
Alaska	21	3	17	2	0	0	3	0	1	1	0	0	0	0	0	0
Arizona Arkansas	494 103	258 46	141 10	24	102 14	11 0	67 36	44 14	40 6	42 3	37 1	30 6	72 27	85 22	35 9	22
California	3,002	1,900	732	167	671	96	490	363	477	604	338	286	157	296	137	88
Colorado	483	224	156	26	117	11	64	44	47	60	29	27	52	42	18	14
Connecticut	358	263	79	27	43	8	75	55	65	61	71	78	9	27	16	7
Delaware	74	47	18	9	28	5	10	2	6	16	6	9	5	6	1	0
Dist. of Colum	bia 230	230	34	8	33	10	29	38	61	70	33	51	14	37	26	24
Florida	840	662	137	36	130	10	105	77	101	102	57	48	218	343	92	46
Georgia	448	323	53	25	122	14	67	59	58	66	28	34	73	103	47	22
Hawaii	100	66	22	6	4	0	21	18	32	20	12	14	8	7	1	1
Idaho Illinois	60 1,371	28 797	12 281	79 79	12 272	2 34	23 209	9 155	219	160 2	172	1 142	9 143	11 185	0 75	0 42
Indiana	714	351	160	46	145	11	106	62	100	69	80	68	80	71	43	24
Iowa	454	228	89	19	95	8	103	59	41	31	35	30	69	58	22	23
Kansas	243	172	44	10	42	5	65	29	27	36	16	20	40	60	9	12
Kentucky	215	114	34	12	27	2	46	27	28	22	22	11	15	30	43	10
Louisiana	274	172	46	15	34	8	65	44	43	24	25	24	15	41	46	16
Maine	25	20	6	3	8	2	8	6	2	4	1	0	0	5	0	0
Maryland	543	397	117	31	119	17	117	125	77	66	59	61	34	77	20	20
Massachusetts	1,369	826	383	98	273	38	210	189	209	149	137	114	93	203	64	35
Michigan	953	557	192	47	224	21	183	121	122	106	90	78	86	148	56	36
Minnesota	507	372	77	29	100	9	135	88	58	58	37	52	57	103	43	33
Mississippi	201	118	18	5	15	1	51	11	23	18	17	4	45	70	32	9
Missouri	447	253	72	17	87	10	83	64	56	55	45	24	60	69	44	14
Montana Nebraska	38 151	20 93	9 23	2 2	1 18	0	18 51	4 25	3 18	3 15	0 14	0 8	7 19	11 36	0 8	0 7
Nevada New Hampshir	37 e 69	18 41	11 25	3 7	6 15	0 2	3 14	3 15	7 8	1 11	2 5	1	8 1	10 4	0 1	0 1
New Jersey	560	295	138	39	133	12	90	61	66	51	66	76	32	43	35	13
New Mexico	159	82	50	9	29	3	23	12	26	12	11	13	17	33	3	0
New York	2,342	1,554	547	118	428	58	364	296	384	394	317	291	181	305	121	92
North Carolina	590	394	125	37	118	17	158	112	64	63	56	67	46	87	23	11
North Dakota	37	37	10	4	287	0	14	11	5	7	3	0	4	15	0	0
Ohio	1,081	702	231	52		37	153	133	115	129	101	104	123	188	71	59
Oklahoma	261	144	50	9	50	5	55	12	30	21	14	14	41	75	21	8
Oregon	288	202	66	18	29	6	82	48	44	36	16	21	42	68	9	5
Pennsylvania	1,289	818	240	76	340	54	163	153	162	161	123	118	154	198	107	58
Puerto Rico	20	41	5	2	0	0	2	4	5	13	1	3	7	19	0	0
Rhode Island	161	91	62	19	34	4	19	17	21	· 19	24	32	55	0	0	0
South Carolina	255	188	54	17	36	6	54	43	14		19	13	55	90	23	9
South Dakota	37	22	2	0	4	0	11	1	6	5	0	0	14	16	0	0
Tennessee	365	285	43	17	59	9	71	40	48	62	31	22	74	122	39	13
Texas	1,634	1,011	320	93	397	40	306	208	150	181	144	115	168	285	149	89
Utah	226	109	62	7	50	6	45	25	33	28	8	8	14	29	14	6
Vermont	38	25	4	2	3	2	15	70	7	9	1	0	8	4	0	0
Virginia	569	362	107	34	146	16	100	70	70	71	40	26	55	115	51	30
Washington	463	236	103	20	.77	9	120	60	51	31	56	42	36	57	20	17
West Virginia	77	50	6	1	24	1	10	10	8	9	6	4	23	25	0	0
Wisconsin	634	308	157	32	133	15	129	71	77	55	58	60	61	51	19	24
Wyoming	38	35	13	8	2	0	11	7	4	6	1	1	7	13	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.

^{*}Includes the 50 states, the District of Columbia, and Puerto Rico.

	1994 Total	Physics and Astronomy	Chemistry	Earth, Atmos., and Marine Sci.	Math and Computer Sci.	Engineering	Biosciences	Health Sciences	Agricultural Sciences	Psychology	Other Social Sciences	History	Eng. and Amer. Lang. and Lit.	Other Humanities	Education	Professional/ Other Fields
TOTAL ALL INSTITUTIONS*	41,011	1,692	2,254	853	2,022	5,826	5,197	1,297	1,240	3,260	3,364	800	943	3,000	6,683	2,580
ALABAMA Alabama A & M University Auburn University United States Sports Academy Univ of Alabama-Birmingham Univ of Alabama-Huntsville Univ of Alabama-University Univ of South Alabama	473 2 152 1 107 29 176 6	27 2 5 0 5 13 2	7 0 3 0 1 0 3 0	3 0 0 0 0 1 2	19 0 10 0 3 4 2	62 0 31 0 4 11 16 0	58 0 10 0 39 0 3 6	48 0 5 0 42 0 1	24 0 24 0 0 0 0	37 0 17 0 6 0 14 0	11 0 7 0 0 0 4 0	4 0 3 0 0 0 1 0	6 0 2 0 0 0 4 0	15 0 1 0 0 0 14 0	106 0 30 1 7 0 68 0	46 0 4 0 0 0 42 0
ALASKA Univ of Alaska	24 24	7 7	0	12 12	0	0 0	3	0	0	0 0	2 2	0	0	0 0	0	0 0
ARIZONA Arizona State Univ Northern Arizona Univ Univ of Arizona	752 256 54 442	53 12 0 41	31 14 0 17	41 4 0 37	40 17 0 23	113 49 0 64	70 9 4 57	17 1 0 16	24 0 0 24	35 21 0 14	47 25 2 20	11 2 1 8	11 5 1 5	45 10 1 34	157 51 45 61	57 36 0 21
ARKANSAS U of Arkansas-Fayetteville U of Arkansas-Little Rock U of Arkansas-Med Sci Campus	149 130 8 11	1 0 1 0	7 7 0 0	0 0 0 0	2 2 0 0	14 7 7 0	28 17 0 11	4 4 0 0	18 18 0 0	9 9 0 0	0 0 0 0	2 2 0 0	4 4 0 0	1 1 0 0	49 49 0 0	10 10 0 0
CALIFORNIA Biola Univ Cal Inst of Integral Studies Cal Inst of Technology Cal Sch Prof Psych-Alameda Cal Sch Prof Psych-Alameda Cal Sch Prof Psych-Alameda Cal Sch Prof Psych-Fresno Cal Sch Prof Psych-San Diego Claremont Graduate School Fielding Institute Fuller Theological Seminary Golden Gate Baptist Theol Sem Graduate Theological Union Hebrew Union College La Sierra Univ Loma Linda Univ Naval Postgraduate School Pacific Grad Sch of Psych Pepperdine Univ Rand Grad Sch Policy Studies Research Inst of Scripps Clinic San Diego State Univ Saybrook Institute Stanford Univ U.S. International Univ Univ of California-Berkeley Univ of California-Davis Univ of Calif-Ios Angeles Univ of Calif-San Diego Univ of Calif-San Diego Univ of Calif-Santa Barbara Univ of Calif-Santa Cruz Univ of San Francisco	4,902 19 31 151 33 566 68 72 522 4 177 155 33 21 172 255 172 619 522 270 85 225 270 85 225 270 89 562 213 61 564 255 276 276 276 276 276 276 276 276 276 276	246 0 0 31 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	265 00 00 00 00 00 00 00 00 00 00 00 00 00	126 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	262 0 0 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	767 0 0 0 53 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	674 0 0 0 16 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1133 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	66 00 00 00 00 00 00 00 00 00 00 00 00 0	682 28 83 61 568 534 00 00 00 89 194 21 80 00 00 00 33 12 13 21 80 80 80 80 80 80 80 80 80 80	399 00 33 00 00 10 61 10 10 00 00 00 24 48 01 120 233 662 223 81 221 00 00 00 00 00 00 00 00 00 00 00 00 00	114 00 00 00 00 00 00 00 00 00 00 00 00 00	116 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	394 03 00 00 00 01 14 02 11 82 00 00 00 00 00 00 00 00 00 00 00 00 00	453 10 0 0 0 0 0 19 0 1 0 0 0 0 17 0 0 0 0 0 0 17 0 0 0 0 0	225 00 00 20 00 16 11 22 12 00 00 00 00 00 24 19 70 00 00 00 00 00 00 00 00 00 00 00 00
COLORADO Colorado School of Mines Colorado State Univ Univ of Colorado Univ of Denver Univ of Northern Colorado	707 50 175 354 62 66	41 4 3 34 0	47 1 15 30 1 0	40 17 7 16 0	54 6 12 28 0 8	128 17 44 67 0	63 0 24 39 0	24 0 3 16 0 5	21 0 21 0 0 0	47 0 18 19 8 2	60 5 9 29 15 2	6 0 0 5 1 0	14 0 0 9 5 0	36 0 0 29 5 2	94 0 18 12 18 46	32 0 1 21 9
CONNECTICUT Univ of Connecticut Univ of Hartford Univ of New Haven Wesleyan Univ Yale Univ	621 246 1 4 21 349	31 7 0 0 2 22	44 17 0 0 7 20	3 1 0 0 0 2	28 12 0 0 2 14	51 35 0 0 0 16	104 43 0 0 4 57	18 7 0 0 0 11	8 5 0 0 0 3	46 22 0 0 0 0 24	80 31 0 0 0 49	33 5 0 0 0 28	14 4 0 0 0 10	102 12 1 0 6 83	36 36 0 0 0	23 9 0 4 0 10
DELAWARE Univ of Delaware	121 121	4 4	6 6	8 8	9 9	33 33	11 11	0	1	10 10	12 12	3	5 5	7 7	11 11	1

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. *Includes the 50 states, the District of Columbia, and Puerto Rico.

	1994 Total	Physics and Astronomy	Chemistry	Earth, Atmos., and Marine Sci.	Math and Computer Sci.	Engineering	Biosciences	Health Sciences	Agricultural Sciences	Psychology	Other Social Sciences	History	Eng. and Amer. Lang. and Lit.	Other Humanities	Education	Professional/ Other Fields
DISTRICT OF COLUMBIA American Univ Catholic Univ of America Gallaudet Univ George Washington Univ Georgetown Univ Howard Univ	460 59 101 6 149 75	6 3 1 0 0 0 2	20 3 3 0 6 4 4	1 0 0 0 1 0	15 2 1 0 9	35 0 6 0 23 - 0	57 0 6 0 26 19 6	10 0 8 0 1 0	0 0 0 0 0	62 15 14 0 15 1	69 20 6 0 19 15 9	11 0 1 0 1 8 1	7 0 3 0 1 - 0 3	66 1 33 0 3 27 2	51 14 4 6 25 0 2	50 1 15 0 19 1
FLORIDA Barry Univ Caribbean Ctr Adv Stud-Miami Florida Atlantic Univ Florida Inst of Technology Florida International Univ Florida State Univ Nova Southeastern Univ Univ of Central Florida Univ of Florida Univ of Miami Univ of South Florida	1,502 5 2 34 14 32 283 415 45 436 115 121	30 0 0 2 0 0 10 0 1 16 1	54 0 0 0 0 0 7 0 0 36 5	28 0 0 0 2 0 8 0 0 3 7 8	61 0 0 1 1 0 14 17 1 16 4 7	140 0 0 16 7 0 3 0 8 83 11 12	108 0 0 1 1 2 17 0 0 56 15 16	29 0 0 0 0 0 0 3 0 0 15 4	45 0 0 0 0 0 0 0 0 0 44 1	121 0 2 1 0 2 23 17 5 37 22 12	82 0 0 1 0 2 22 6 0 37 6 8	19 0 0 0 0 0 10 0 7 2	25 0 0 0 0 0 8 0 0 6 4 7	61 0 0 0 0 0 35 0 9 16	561 0 0 6 3 16 66 352 28 40 16 34	138 5 0 6 0 10 57 23 2 31 1
GEORGIA Clark Atlanta Univ Emory Univ Georgia Inst of Technology Georgia State Univ Inst of Paper Sci & Tech Medical College of Georgia Univ of Georgia	771 41 94 202 115 4 6 309	12 0 0 7 3 0 0 2	37 2 9 9 2 0 0 15	5 0 0 5 0 0 0	24 0 3 17 1 0 0 3	136 0 0 135 0 1 0	77 2 12 11 2 0 · 3 47	18 0 1 0 8 0 3 6	31 0 0 0 0 3 0 28	71 7 13 6 21 0 0 24	53 10 8 0 9 0 0 0 26	4 0 4 0 0 0 0	16 1 9 0 2 0 0 4	42 2 26 0 1 0 0 13	176 13 8 0 47 0 0 108	69 4 1 12 19 0 0
HAWAII Univ of Hawaii at Manoa	166 166	7 7	4 4	14 14	3 3	4 4	22 22	10 10	7 7	12 12	40 40	3	2 2	21 21	15 15	2 2
IDAHO Idaho State Univ Univ of Idaho	88 20 68	2 0 2	6 0 6	3 0 3	4 3 1	14 0 14	15 6 9	3 2 1	14 0 14	0 0 0	5 3 2	0 0 0	2 2 0	0 0 0	20 4 16	0 0 0
ILLINOIS DePaul Univ Illinois Inst of Technology Illinois State Univ-Normal Loyola Univ of Chicago Lutheran Sch of Theol-Chicago Northern Illinois Univ Northwestern Univ Roosevelt Univ Rush Univ Southern Ill Univ-Carbondale Southern Ill Univ-Edwardsville Univ of Chicago Univ of Health Sci-Chicago Med Univ of Ill-Chicago Univ of Ill-Urbana/Champaign	2,168 12 60 43 105 4 107 319 2 19 172 9 393 28 232 663	95 0 5 0 0 0 0 11 1 2 0 25 0 8 43	111 0 1 0 6 0 2 19 0 0 4 4 0 22 0 27 30	21 0 0 0 0 0 0 2 3 0 0 0 2 0 0 0 0 0 0 0 0	133 0 23 0 1 0 1 25 0 0 2 0 17 0 18 46	306 0 15 0 0 0 0 86 0 0 2 2 0 0 0 5 0 15	255 0 1 6 13 0 7 31 0 10 17 0 48 18 33 71	66 0 0 0 2 0 0 7 0 8 12 0 0 0 2 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	43 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	150 8 15 0 21 0 7 15 0 0 18 0 21 10 8 27	229 0 0 3 5 0 12 32 0 0 18 0 96 0 0 22 41	53 0 0 1 4 0 1 5 0 0 0 0 33 0 9	46 0 0 5 2 0 2 5 0 0 3 0 17 0 2 10	215 4 0 2 3 1 0 48 0 0 14 0 10 10 10 10 10 10 10 10 10	328 0 0 26 47 0 73 10 2 0 54 9 8 0 19 80	117 0 0 0 1 3 0 22 0 0 23 0 29 0 8 31
INDIANA Ball State Univ Indiana State Univ Indiana Univ-Bloomington Indiana Univ Sch of Medicine Purdue Univ Univ of Notre Dame	1,065 55 34 361 11 495 109	0 12 0 16	89 0 0 24 0 58 7	16 0 0 7 0 9 0	64 0 0 14 0 43 7	156 0 0 0 0 140 16	109 0 3 44 0 52 10	10		77 18 12 16 0 21	92 0 2 40 0 34 16	16 0 0 13 0 1 2	31 0 15 0 10 5	101 9 0 61 0 14 17	151 25 17 78 0 31	67 0 0 29 0 28 10
IOWA Drake Univ Iowa State Univ Maharishi International Univ Univ of Iowa Univ of Northern Iowa	682 12 306 5 341 18	0 11 2 9	52 0 34 0 18 0	0 1 0 4	29 0 16 0 13 0	103 0 65 0 36 2	96 0 56 2 38 0	0 2 0 23	41 0 0	24 0 10 0 14 0	48 0 25 0 23 0	14 0 1 0 13 0	12 0 0 0 12 0	39 0 0 0 39 0	127 12 40 0 60 15	45 0 4 1 39 1
KANSAS Kansas State Univ Univ of Kansas Wichita State Univ	415 154 237 24	3	24 5 16 3	0 3	21 13 6 2	47 14 20 13	47 18 27 2	5	37 0	35 32 0	28 12 16 0	9 0 9 0	7 0 7 0	20 0 20 0	100 44 56 0	21 4 17 0
KENTUCKY Southern Bapt Theol Seminary Univ of Kentucky Univ of Louisville	329 43 228 58	8 0 8	24 0 18 6	2 0 2	12 0 11 1	29 0 21 8	44 0 32 12	0 15	0 14	16	22 1 18 3	4 0 3 1	4 0 4 0	25 11 13 1	45 2 26 17	53 26 27 0

	1994 Total	Physics and Astronomy	Chemistry	Earth, Atmos., and Marine Sci.	Math and Computer Sci.	Engineering	Biosciences	Health Sciences	Agricultural Sciences	Psychology	Other Social Sciences	History	Eng. and Amer. Lang. and Lit.	Other Humanities	Education	Professional/ Other Fields
LOUISIANA Grambling St Univ Louisiana St U & A&M College Louisiana St U Med-New Orleans Louisiana St U Med-Shreveport Louisiana Tech Univ New Orleans Bapt Theol Seminary Northeast Louisiana Univ Southern U/A&M U-Baton Rouge Tulane Univ of Louisiana Univ of New Orleans Univ of Southwestern Louisiana	5	8 0 7 0 0 0 0 0 0	13 0 8 0 0 0 0 0 0 4 1	8 0 8 0 0 0 0 0 0	32 0 12 0 0 0 0 0 0 0 2 0	42 0 28 0 0 2 0 0 0 0 0 10 0 2	68 0 26 11 6 0 0 3 0 19 0 3	27 0 9 6 0 0 0 2 1 9	14 0 14 0 0 0 0 0 0 0 0 0	27 0 15 0 0 0 1 0 0 6 5	40 0 15 0 0 0 0 0 0 17 8 0	4 0 0 0 0 0 0 0 0 0 4 0 0	12 0 6 0 0 0 0 0 0 0	33 0 24 0 0 0 4 0 0 3	56 8 27 0 0 0 3 0 0 0 0 18	62 0 18 0 0 17 19 0 0 7 1
MAINE Univ of Maine	45 45	3	2 2	3	1	10 10	8	0	6 6	6 6	0	1	0	0	5 5	0
MARYLAND Johns Hopkins Univ Loyola College in Maryland Morgan State Univ Peabody Inst of Johns Hopkins Uniformed Serv U of Hlth Sci U of Maryland-Baltimore County U of Maryland-College Park U of Maryland-Eastern Shore U of Maryland Sch of Med	940 262 9 9 23 11 33 526 2 65	47 12 0 0 0 0 1 34 0	26 5 0 0 0 0 3 17 0 1	17 8 0 0 0 0 0 7 2	58 4 0 0 0 0 0 9 45 0	136 32 0 0 0 0 6 98 0	163 68 0 0 0 7 5 45 0 38	62 43 0 0 0 0 0 0 6 0	17 0 0 0 0 0 0 17 0	48 6 9 0 0 4 3 26 0	95 37 0 0 0 0 4 54 0	32 23 0 0 0 0 0 0 0 0	18 6 0 0 0 0 0 12 0	70 13 0 0 23 0 1 33 0	111 4 0 9 0 0 0 0 98 0	40 1 0 0 0 0 1 25 0 13
MASSACHUSETTS American Internatl College Boston College Boston Univ Brandeis Univ Clark Univ Harvard Univ Mass Coll Pharm & Health Sci Mass Inst of Technology Northeastern Univ Simmons College Smith College Springfield College Tufts Univ Univ of Mass-Amherst Univ of Mass-Boston Univ of Mass-Lowell Univ of Mass-Worcester Worcester Polytechnic Inst	2,195 4 115 281 98 25 551 9 516 74 3 5 2 79 338 4 63 11	174 0 3 25 3 2 31 0 73 4 0 0 0 6 11 0 0	141 0 4 3 7 2 32 4 39 7 0 0 0 3 3 1 0 9 0	43 0 1 0 0 0 8 0 31 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	123 0 0 12 10 0 18 0 53 11 0 0 0 0 14 0 2	311 0 0 11 1 0 9 0 193 19 0 0 0 9 46 0 13	319 6 50 13 3 110 3 46 6 0 0 30 35 1 1 1 1 1 1 1 1 1 1 1 1 1	67 0 7 11 3 0 33 2 1 2 0 0 0 0 7 0 0	13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	98 0 21 15 4 5 11 0 7 10 0 0 4 20 1 0 0	260 0 16 23 21 9 93 0 44 12 0 0 0 21 21 0 0 0	48 07 35 1 29 00 00 01 20 00 00	39 3 4 12 0 8 0 0 0 0 0 0 0 0 0 0 0 0 0	164 0 9 43 14 0 66 0 0 0 0 0 2 22 0 0 0	296 4 32 63 0 3 78 0 0 2 0 90 0 21 0	99 0 6 18 5 0 25 0 21 0 3 5 0 0 16 0 0
MICHIGAN Andrews Univ Andrews Univ Eastern Michigan Univ Michigan State Univ Michigan Technological Univ Oakland Univ Univ of Detroit Mercy Univ of Michigan Wayne State Univ Western Michigan Univ	1,510 19 1 418 22 15 12 704 263 56	49 0 0 17 1 1 0 26 4 0	99 0 0 27 0 1 0 43 28 0	24 0 0 2 3 0 0 19 0	67 0 0 21 0 0 0 32 14 0	245 0 0 30 11 6 1 161 36 0	184 0 0 54 4 2 0 77 47 0	60 0 0 5 0 0 40 15	60 0 0 57 1 0 0 2 0	112 3 0 23 0 0 11 42 23 10	116 0 0 39 0 0 0 62 10 5	24 1 0 3 0 0 0 0 20 0	38 0 0 12 0 0 0 22 4 0	106 2 0 17 1 0 0 76 10	234 8 1 71 0 5 0 42 68 39	92 5 0 40 1 0 40 40 40 40 42
MINNESOTA Luther Northwestern Theol Sem Mayo Graduate School Univ of Minnesota-Minneapolis Univ of St. Thomas Walden Univ	879 7 15 706 12 139	25 0 0 25 0 0	34 0 0 34 0	5 0 0 5 0	42 0 0 42 0 0	109 0 0 108 0 1	104 0 14 90 0	78 0 1 56 0 21	41 0 0 41 0	68 0 0 46 0 22	48 0 0 39 0 9	13 0 0 13 0 0	10 0 0 10 0	66 1 0 65 0	160 0 0 92 12 56	76 6 0 40 0 30
MISSISSIPPI Delta State Univ Jackson State Univ Mississippi State Univ Univ of Mississippi U of Mississippi U of Mississippi-Med Center Univ of Southern Mississippi	319 9 10 124 78 3 95	4 0 0 0 4 0	14 0 0 4 1 0 9	0 0 0 0 0	5 0 5 0 0	16 0 0 9 6 0	21 0 0 12 2 3 4	8 0 0 1 4 0 3	33 0 0 33 0 0	36 0 0 5 10 0 21	5 0 0 2 3 0	3 0 0 0 3 0	10 0 0 0 4 0 6	8 0 0 0 2 0 6	115 9 10 32 24 0 40,	41 0 0 21 15 0 5
MISSOURI Concordia Seminary Midwest Bapt Theol Seminary St. Louis Univ U of Missouri-Columbia U of Missouri-Kansas City U of Missouri-Rolla U of Missouri-St. Louis Washington University	700 2 25 113 252 43 66 16 183	26 0 0 0 5 0 7 0 14	38 0 0 0 12 3 10 3	7 0 0 1 3 0 1 0 2	18 0 0 0 4 2 6 0 6	97 0 0 0 30 0 42 0 25	111 0 0 22 29 4 0 1 55	7 0 0 1 1 3 0 0 2	29 0 0 0 29 0 0 0	62 0 1 11 21 14 0 4 11	49 0 0 4 24 0 0 0 21	5 0 0 0 3 1 0 0	13 0 0 2 6 0 0 0 5	51 0 9 6 8 6 0 0 22	129 0 0 47 61 9 0 8 4	58 2 15 19 16 1 0 0 5
MONTANA Montana State Univ Univ of Montana	58 34 24	2 2 0	6 4 2	0 0 0	3 2 1	1 1 0	10 7 3	0 0 0	12 5 7	5 0 5	1 0 1	0 0 0	0 0 0	0 0 0	18 13 5	0 0 0

	1994 Total	Physics and Astronomy	Chemistry	Earth, Atmos., and Marine Sci.	Math and Computer Sci.	Engineering	Biosciences	Health Sciences	Agricultural Sciences	Psychology	Other Social Sciences	History	Eng. and Amer. Lang. and Lit.	Other Humanities	Education	Professional/ Other Fields
NEBRASKA Creighton Univ Univ of Nebraska-Lincoln	244 5 239	5 0 5	11 0 11	1 0 1	8 0 8	18 0 18	29 5 24	7 0 7	40 0 40	14 0 14	19 0 19	5 0 5	9 0 9	8 0 8	55 0 55	15 0 15
NEVADA Univ of Nevada-Las-Vegas Univ of Nevada-Reno	55 11 44	1 0 1	5 0 5	8 0 8	0 0 0	6 0 6	6 1 5	. 0	0 0 0	- 5 0 5	3 2 1	1 0 1	2 1 1	0 0 0	18 7 11	- 0
NEW HAMPSHIRE Dartmouth College Univ of New Hampshire	110 52 58	8 6 2	8 4 4	4 2 2	12 9 3	17 10 7	29 17 12	0 0 0	0 0 0	11 4 7	8 0 8	4 0 4	2 0 2	0 0 0	5 0 5	2 0 2
NEW JERSEY Drew Univ Fairleigh Dickinson Univ New Jersey Inst of Technology Princeton Theol Seminary Princeton Univ Rutgers St U-New Brunswick Rutgers St U-Newark Seton Hall Univ Stevens Inst of Technology Univ of Med & Dent of NJ	855 28 11 28 13 268 375 43 42 22 25	49 0 0 1 0 30 12 0 6	58 0 0 0 0 24 21 8 4 1	12 0 0 0 0 4 8 0 0 0	58 0 0 4 0 27 26 0 0 1 0	145 0 0 23 0 41 70 0 0 11 0	120 0 0 0 0 19 65 10 1 0 25	8 0 0 0 0 0 8 0 0	23 0 0 0 0 0 23 0 0 0	40 0 11 0 0 10 15 2 0	77 1 0 0 0 44 24 8 0 0	29 1 0 0 1 15 12 0 0 0	26 2 0 0 0 6 18 0 0 0	87 13 0 0 1 48 25 0 0 0	75 0 0 0 0 0 38 0 37 0	48 11 0 0 11 0 10 15 0
NEW MEXICO New Mexico Inst of Mining & Tec New Mexico State Univ Univ of New Mexico	241 ch 12 64 165	16 1 2 13	13 0 5 8	16 8 0 8	14 2 5 7	32 1 14 17	19 0 6 13	6 0 0 6	10 0 10 0	21 0 11 10	17 0 0 17	4 0 0 4	5 0 0 5	15 0 0 15	50 0 10 40	3 0 1 2
NEW YORK Adelphi Univ Albany Medical College Alfred Univ City U of NY-Grad Sch/U Ctr Clarkson Univ Columbia Univ Columbia U-Teachers College Cornell Univ Medical College Fordham Univ Hofstra Univ Jewish Theol Sem of America Juilliard School, The Long Island U-Brooklyn Campus Manhattan School of Music New School for Social Research New York Medical College New York Medical College New York Univ Pace Univ Polytechnic Univ Rensselaer Polytechnic Inst Rockefeller Univ St. John's Univ-Queens State Univ of NY-Albany State Univ of NY-Binghamton Un State Univ of NY-Binghamton Un State Univ of NY-Buffalo State Univ of NY-Buffalo State Univ Of NY-Buffalo State Univ Schotsy Brook SUNY Coll-Envirn Sci & Forestry SUNY-Hlth Sci Ctr-Brooklyn SUNY-Hlth Sci Ctr-Syracuse Syracuse Univ Union Theological Seminary Univ of Rochester Yeshiva Univ	350	1 10 26 0 0 0 8 0 31	193 0 0 0 0 0 19 11 20 0 344 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 0 1	205 0 0 11 18 0 37 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	486 0 0 5 15 29 63 0 0 112 0 0 0 0 0 0 0 0 0 0 10 10 10 10 10 10 1	525 0 88 0 0 53 3 3 40 0 0 85 244 6 6 0 0 0 0 10 29 0 0 1 1 3 3 24 3 1 1 0 5 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	0 22 0 0 0 0 2 0 2	0 0 0 0 6 0 0 0	376 23 0 0 0 38 0 12 0 0 10 0 0 20 0 38 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	402 1 0 0 45 0 66 0 78 0 0 0 15 0 0 0 15 0 0 0 25 0 0 0 27 22 22 23 0 0 0 0 0 0 0 0 0 0 0 0 0	87 0 0 0 33 0 0 11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 18 0 0 0 4 0 7	39 0 0 0 8 1 36	486 1 0 0 0 0 0 24 20 2 2 2 0 0 0 0 64 4 0 0 0 0 0 0 0 0 0 0 0 0 0	6 6
NORTH CAROLINA Campbell Univ Duke Univ East Carolina U-Sch of Med North Carolina St U-Raleigh U of N Carolina-Chapel Hill U of N Carolina-Greensboro Wake Forest Univ	984 10 204 11 301 370 72	0 8 0 10 4 0	71 0 17 0 11 38 0 5	4 0 10 10		135 0 34 0 94 7 0	165 0 41 8 27 78 2	0	0 1 0 54 0	50 0 7 0 12 24 7 0	77 0 28 0 13 29 7 0	14 0 0 11 0	0 16 0 0 20	0 20 0 0 29 7	133 10 0 3 47 31 42 0	7 0 1 26 0
NORTH DAKOTA North Dakota State Univ Univ of North Dakota	74 30 44	0	5 3 2	0 0 0	9	1 1 0	15 7 8	0 0	10	0	0 0 0	0	0	0	19 0 19	0
OHIO Air Force Inst of Technology Bowling Green State Univ Case Western Reserve Univ Cleveland State Univ Hebrew Union College Kent State Univ Medical College of Ohio-Toledo	1,783 24 68 187 29 130	4 0 2 0 0 0 1 0	4	0 0 0 0 0 1	0 4 8 0 0 5	0	10	0 0 2 2 2 12 2 0 0 0	0 0 0 0 0 0 0 0 0	10 0 0 23	0 1 4 0 0 4	024	0 5 2 0 0 0 4	0 16 5 0 1 3 7	311 0 7 0 7 0 34 0	0 3 20 7 0 21

	1994 Total	Physics and Astronomy	Chemistry	Earth, Atmos., and Marine Sci.	Math and Computer Sci.	Engineering	Biosciences	Health Sciences	Agricultural Sciences	Psychology	Other Social Sciences	History	Eng. and Amer. Lang. and Lit.	Other Humanities	Education	Professional/ Other Fields
OHIO*(continued) Miami Univ Ohio State Univ Ohio Univ Univ of Akron Univ of Cincinnati Univ of Dayton Univ of Toledo Wright State Univ	39 702 102 110 272 19 74 8	0 23 7 8 5 0 3	1 44 2 25 20 0 9	1 9 0 0 7 0 0	0 33 0 0 13 0	0 97 8 27 71 12 16 2	8 54 12 0 31 1 3 6	0 26 2 0 15 0 2	0 41 0 0 0 0	11 35 10 22 15 0 7	4 66 0 6 9 0	0 18 1 1 4 0 1 0	2 17 2 0 4 0 4 0	1 58 8 0 33 0 0	11 129 32 21 36 6 28 0	0 52 18 0 9 0
OKLAHOMA Oklahoma State Univ Univ of Oklahoma Univ of Tulsa	405 205 169 31	14 10 4 0	16 9 7 0	14 5 8 1	15 6 8 1	55 23 22 10	32 15 17 0	9 1 8 0	26 26 0 0	25 12 6 7	26 9 17 0	4 2 2 0	11 6 5 0	13 0 13 0	116 65 39 12	29 16 13 0
OREGON Oregon Graduate Inst of Sci & Te Oregon Health Sciences Univ Oregon State Univ Portland State Univ Univ of Oregon	490 ech 13 23 199 31 224	20 1 0 4 0 15	14 1 0 9 0 4	21 3 0 13 0 5	29 1 0 14 1 13	35 4 0 28 3 0	64 3 11 33 0 17	20 0 10 7 0 3	46 0 0 46 0	31 0 2 0 0 0 29	49 0 0 12 13 24	3 0 0 0 0 3	8 0 0 0 0 8	26 0 0 0 0 26	110 0 0 31 10 69	14 0 0 2 4 8
PENNSYLVANIA Bryn Mawr College Carnegie-Mellon Univ Drexel Univ Duquesne Univ Hahnemann Univ Indiana Univ of Pennsylvania Lehigh Univ Med College of Pennsylvania Pennsylvania State Univ Phila Coll of Pharm & Sci Temple Univ Thomas Jefferson Univ Univ of Pennsylvania Univ of Pittsburgh Villanova Univ Westminster Theol Seminary Widener Univ	2,107 28 167 59 14 11 45 108 12 530 4 289 26 459 329 4 8 14	63 0 6 1 0 0 0 11 0 20 0 2 0 9 14 0 0	112 3 5 5 1 0 0 0 5 0 40 2 8 0 15 24 4 0 0	37 0 0 1 0 0 0 2 0 27 0 0 0 4 3 0 0 0	104 1 26 4 0 0 0 0 9 0 16 0 11 0 26 11 0 0	394 0 83 39 0 0 0 41 0 148 0 2 2 0 53 28 0 0	242 1 7 0 0 8 0 2 12 58 2 25 26 65 36 0 0	59 0 0 0 0 2 0 0 0 7 0 5 0 0 13 28 0 0 4	15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	113 0 7 5 0 1 0 5 0 20 0 37 0 18 20 0 0	210 5 8 0 0 0 6 3 0 36 0 28 0 91 33 0 0 0	36 0 9 0 0 0 0 2 0 2 0 5 0 14 4 0 0 0	41 00 00 1 01 14 4 03 00 4 00 87 00 00	164 16 3 0 5 0 8 8 3 0 24 0 54 26 0	352 0 0 0 0 0 17 18 0 90 0 122 0 35 60 0 0	165 2 13 4 7 0 0 3. 0 24 0 16 0 54 35 0 7
PUERTO RICO Caribbean Ctr for Adv Studies Inter Amer U PR-Metro Campus Univ of Puerto Rico	61 10 13 38	1 0 0 1	6 0 0 6	0 0 0 0	0 0 0 0	0 0 0 0	6 0 0 6	0 0 0 0	0 0 0 0	18 10 0 8	0 0 0 0	2 0 0 2	0 0 0 0	2 0 0 2	26 0 13 13	0 0 0
RHODE ISLAND Brown Univ Univ of Rhode Island	252 162 90	17 13 4	24 14 10	16 7 9	24 20 4	38 20 18	26 18 8	5 0 5	5 0 5	25 7 18	15 15 0	6 6 0	18 9 . 9	32 32 0	1 1 0	0 0 0
SOUTH CAROLINA Clemson Univ Medical Univ of South Carolina South Carolina State Univ Univ of South Carolina	443 115 23 17 288	9 4 0 0 5	22 7 0 0 15	15 3 0 0 12	25 16 0 0 9	42 33 1 0 8	57 18 18 0 21	29 0 4 0 25	11 11 0 0 0	9 0 0 0 9	15 1 0 0 14	5 0 0 0 5	15 0 0 0 15	12 0 0 0 12	145 12 0 17 116	32 10 0 0 22
SOUTH DAKOTA S Dakota Sch of Mines & Tech South Dakota State Univ Univ of South Dakota	59 4 15 40	0 0 0 0	2 0 2 0	0 0 0 0	0 0 0 0	4 4 0 0	6 0 3 3	0 0 0 0	6 0 6 0	7 0 0 7	4 0 4 0	0 0 0 0	0 0 0 0	0 0 0 0	30 0 0 30	0 0 0
TENNESSEE East Tennessee State Univ Geo Peabody Coll for Teachers Meharry Medical College Mid-America Bapt Theol Sem Middle Tennessee State Univ Tennessee State Univ Tennessee Technological Univ Univ of Memphis Univ of Tennessee-Knoxville Univ of Tennessee-Memphis Vanderbilt Univ	650 34 47 8 10 18 26 15 113 226 12	14 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21 0 0 0 0 0 0 0 0 2 12 0 7	7 0 0 0 0 0 0 0 0 7 0	18 0 0 0 0 0 0 0 0 6 6 6	68 0 0 0 0 0 0 15 3 24 0 26	89 10 0 8 0 1 0 3 3 7 27	13 0 0 0 0 0 0 0 0 1 5 5 2	9 0 0 0 0 0 0 0 0	67 0 0 0 0 0 0 0 0 31 21 0	43 0 0 0 0 4 0 0 1 24 0	4 0 0 0 0 0 2 0 0 0 1	16 0 0 0 0 5 0 0 0 4 0 7	33 · 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 ·	196 24 47 0 0 6 26 0 45 42 0	52 0 0 0 9 0 0 0 18 23 0 2
TEXAS Baylor College of Medicine Baylor Univ Dallas Theological Seminary East Texas State Univ Lamar Univ Rice Univ St. Mary's Univ Sam Houston State Univ Southern Methodist Univ Southwestern Bapt Theol Sem Texas A&M Univ-College Station Texas A&M Univ-Kingsville	2,645 49 37 9 50 3 108 5 47 49 588 4	103 0 2 0 0 0 18 0 0 0	137 0 1 0 0 0 12 0 0 0 0 52 0	72 0 1 0 0 0 0 11 0 0 4 0 21 0	101 0 2 0 0 0 8 0 0 0 8 0 0 2 0 0 2 0 0 0 0	437 0 0 0 0 3 20 0 0 15 0 135	325 46 1 0 0 0 10 0 0 2 0 63 0	98 3 0 0 0 0 0 0 0 0 0 0	91 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	170 0 1 0 7 0 2 5 0 2 0 2 1 0	161 0 0 0 0 0 11 0 5 10 0 32	42 0 0 0 0 0 1 0 0 0 2 6 0	48 0 1 0 0 0 5 0 0 0 7 0	169 0 7 2 0 0 9 0 0 4 7 2 0	453 0 19 0 43 0 0 0 0 10 87 4	238 0 2 7 0 0 1 0 0 1 30 43 0

	1994 Total	Physics and Astronomy	Chemistry	Earth, Atmos., and Marine Sci.	Math and Computer Sci.	Engineering	Biosciences	Health Sciences	Agricultural Sciences	Psychology	Other Social Sciences	٠.	Eng. and Amer. Lang. and Lit.	Other Humanities	Education	Professional/ Other Fields
TEXAS (continued) Texas Christian Univ Texas Southern Univ Texas Tech Univ Texas Woman's Univ Univ of Dallas Univ of Houston Univ of North Texas-Hith Sci Ctr Univ of St. Thomas Univ of St. Thomas Univ of Texas-Ariington Univ of Texas-Austin Univ of Texas-Austin Univ of Texas-Dallas Univ of Texas-El Paso U Tex-Hith Sci Ctr-Houston U Tex-Hith Sci Ctr-San Antonio U Tex-Med Branch-Galveston U Tex-Southwestern Med Ctr	23 14 168 103 1 204 175 5 2 76 712 56 4 75 20 15 38	0 0 5 0 0 9 9 0 0 2 39 8 0 1	3 0 15 0 0 12 5 0 0 4 29 4 0 0 0	0 0 4 0 0 3 0 0 0 0 0 17 5 4 2 0 0	0 0 4 0 0 6 9 0 0 8 24 3 0 0 0	0 0 21 0 0 41 1 0 0 288 168 3 0 0 0	0 0 14 3 0 11 15 5 0 12 4 0 39 19 14 26	0 0 0 0 22 0 0 0 0 0 0 27 1 0 33 1 1	0 0 18 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 0 20 15 1 24 17 0 0 2 35 2 0 0 0 8	0 0 11 18 0 9 8 0 0 0 1 43 13 0 0 0	8 0 2 0 7 3 0 0 0 13 0 0 0 0	0 0 1 2 0 6 9 0 0 0 17 0 0 0 0 0 0	4 0 15 6 0 5 14 0 1 3 82 8 8 0 0 0 0	0 14 21 26 0 51 61 0 0 0 117 0 0 0	0 0 17 11 20 24 0 1 27 49 5 0 0 0
UTAH Brigham Young Univ Univ of Utah Utah State Univ	335 72 202 61	11 3 6 2	38 8 28 2	7 0 6 1	13 2 10 1	56 7 37 12	43 5 28 10	17 3 14 0	10 1 0 9	34 15 10 9	27 7 13 7	2 0 2 0	2 0 2 0	12 3 9 0	43 18 18 7	20 0 19 1
VERMONT Middlebury College Univ of Vermont	63 1 62	0 0 0	6 0 6	0 0 0	0 0 0	5 0 5	22 0 22	0 0 0	1 0 1	16 0 16	0 0 0	0 0 0	0 0 0	1 1 0	12 0 12	0 0 .0
VIRGINIA College of William & Mary George Mason Univ Old Dominion Univ Regent Univ Union Theological Seminary Univ of Virginia Virginia Commonwealth Univ Virginia Polytech Inst & St U	931 57 78 41 6 1 291 113 344	25 7 0 1 0 0 12 0 5	44 1 0 0 0 0 12 9 22	0 0 2	49 4 12 3 0 0 14 0 16	162 0 5 15 0 0 44 0 98	110 4 3 3 0 0 28 44 28	27 0 8 2 0 0 9 7 1	33 1 0 0 0 0 0 0 0 0 32	66 0 15 1 0 0 18 18 14	75 0 16 7 0 0 32 4 16	19 4 0 0 0 0 0 15 0	16 0 0 0 0 0 16 0	31 2 0 0 1 0 28 0 0	170 24 11 3 0 0 57 6	81 0 7 1 5 1 4 25 38
WASHINGTON Gonzaga Univ Seattle Univ Univ of Washington Washington State Univ	699 19 23 455 202	20 0 0 14 6	34 0 0 31 3	0	35 0 0 29 6	.86 0 0 51 35	96 0 0 65 31	35 0 0 26 9	49 0 0 28 21	30 0 0 15 15	52 0 0 30 22	15 0 0 14 1	27 0 0 24 3	56 0 0 53 3	93 19 23 29 22	37 0 0 20 17
WEST VIRGINIA Marshall Univ West Virginia Univ	127 1 126	2 0 2	3 0 3	0	1 0 1	25 0 25	17 1 16	2 0 2	1 0 1	12 0 12	5 0 5	5 0 5	3 0 3	2 0 2	48 0 48	0 0 0
WISCONSIN Marquette Univ Medical College of Wisconsin Univ of Wisconsin-Madison Univ of Wisconsin-Milwaukee	942 51 17 782 92	44 0 0 38 6	64 2 0 50 12	0 0 18	63 2 0. 57 4	148 7 0 133 8	135 2 17 107 9	13 0 0 10 3		44 2 0 33 9	88 0 0 76 12	28 2 0 26 0	21 3 0 10 8	69 8 0 57 4	112 21 0 81 10	43 2 0 34 7
WYOMING Univ of Wyoming	73 73	2 2	7 7	9 9	3	2 2	12 12	0		6 6	4	2	0	0	20 20	0

Top 50 Doctorate-Granting Institutions, 1994

1	Univ of California-Berkeley	891	26.	New York Univ	381
Ž.	Univ of Wisconsin-Madison	782	27.	Rutgers State Univ-New Brunswick	375
	Univ of Texas-Austin	712	28.	Univ of North Carolina-Chapel Hill	370
	Univ of Minnesota-Minneapolis	706		Indiana Univ-Bloomington	361
3.	Univ of Michigan	704	30.		354
6.	Ohio State University	702	31.	State Univ of New York-Buffalo	350
	Univ of Illinois-Urbana/Champaign	663		Yale University	349
ģ.	Univ of California-Los Angeles	619	33.	Virginia Polytech Inst & State Univ	344
9.	Texas A&M Univ-College Station	588	34.	Univ of Iowa	341
10.		572		Univ of Massachusetts-Amherst	338
11.		551		Univ of Pittsburgh	329
	Harvard Univ	551		Univ of California-Davis	321
	Pennsylvania State Univ	530		Northwestern Univ	319
14	Univ of Maryland-College Park	526		Univ of Georgia	309
15.	Massachusetts Inst of Technology	516		Iowa State Univ	306
16	Univ of Southern California	504		North Carolina State Univ-Raleigh	301
17.		495		Univ of Virginia	291
		459	43.	Temple Univ	289
10.	Univ of Pennsylvania Univ of Washington	455	44.	Univ of South Carolina	288
20.	Univ of Arizona	442	45.		286
20.	Columbia Univ	437	46	Florida State Univ	283
22.		436	47.		281
	Michigan State Univ	418	48.	Univ of Cincinnati	272
23.	Nova Southeastern Univ	415		Univ of California-San Diego	270
		393	5 0.		269
23.	Univ of Chicago	373	50.	Date Cin. Ci i.c. Tolk blong bloom	

APPENDIX B: Trend Tables, 1984-1994

Appendix B includes the following two tables:

- B-1 Number of Doctorate Recipients, by Subfield, 1984-1994
- B-2 Number of Doctorate Recipients, by Gender, Race/Ethnicity, and Citizenship, 1975, 1979, and 1984-1994

*** IMPORTANT NOTICE ***

The estimates reported for the Survey of Earned Doctorates (SED) are simple tabulations of all available information with no adjustment for nonresponse. Therefore, differences in response rates from year to year can produce numerical fluctuations that are unrelated to real trends.

Although response to the SED has been 95 to 98 percent in most years, it declined to 92 percent during the 1980s. In an effort to improve the response rate, the survey methodology was modified in the years after 1989. Response has risen as hoped, stabilizing around 95 percent during the last four years (1991 to 1994). (Note: These percentages represent self-report rates, i.e., the proportion of questionnaires completed by doctorate recipients. While survey forms containing partial information filled in by either the doctoral institution or staff of the National Research Council are not included in these rates, tables in this report incorporate the available data from these forms.) The self-report rate for 1994 may increase slightly in the next year if additional questionnaires are received from doctorate recipients. See page 82 in Appendix C for a table giving survey response rates from 1964 to 1994.

Item response rates have shown a parallel improvement since 1990—a natural consequence of the increase in the overall self-report rate, as well as a result of format revisions to the questionnaire and follow-ups for missing information. In 1990, new follow-up procedures were implemented to increase coverage of several variables: birth year, gender, race/ethnicity, citizenship status, country of citizenship, baccalaureate year and institution, and postgraduation plans. Response rates for these variables have since improved—especially for citizenship and race/ethnicity, resulting in an increase in the reported numbers of minority Ph.D.s. The data for a given year are updated the following year with any responses received after survey closure. Postsurvey adjustment was most significant for 1990 and 1991 Ph.D.s, with the largest impact on the number of blacks. For both of these years, the total number of black Ph.D.s increased by about 7.5 percent in the year after survey closure. The survey cycle was then extended to allow receipt of more follow-up information before closure, resulting in much smaller postsurvey adjustments for both 1992 and 1993 data (a 1.4 percent increase in black Ph.D.s for 1992 and only a 0.2 percent increase for 1993). The same is expected for 1994 data.

Adjustments to data are presented in reports subsequent to the initial report for a survey. Updates for 1992 appeared in *Summary Report 1993*, and those for 1993 are included in this year's report (see Appendix Table B-2 for adjustments to racial/ethnic data). The data for 1994 will likewise be subject to further revision, but as for the last two years, adjustments are expected to be minimal. Updates to 1994 data will be presented in next year's report.

In using SED data, the reader should keep in mind that numerical trends are affected by fluctuations in response rates. Increasing or decreasing numbers in a citizenship or racial/ethnic group reflect to some degree any change in both overall survey response and item response.

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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 at the back of this report; some, 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 for a description of field groupings as reported in these tables. 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.

The seven tables in Appendix A present additional information on the most recent cohort of Ph.D.s by field of doctorate.

TABLE B-2: Table B-2 displays, by gender and citizenship, data on the race/ethnicity of doctorate recipients for 1975 (the first year reliable racial/ethnic data were available), 1979, and the last decade. Table B-2 contains three panels, each displayed on a separate page. The first panel includes all doctorates; the others disaggregate the data by gender.

The reader should note that numbers in Table B-2 have been revised since publication of Summary Report 1993. Because of late questionnaire returns and responses to follow-ups for missing information, data are subject to revision in the year after survey closure. New follow-up procedures implemented in 1990 and later years have increased coverage of several variables, including citizenship and race/ethnicity. One result has been greater postsurvey adjustment to racial/ethnic data than in earlier years. (Note: The greatest adjustment was to the numbers of black Ph.D.s in 1990 and 1991—an increase of about 7.5 percent each year.) Updates to 1993 racial/ethnic data are shown in Table B-2 in this year's report. See the notice on page 71 for additional information on changes in response rates and their impact on time-series data.

The racial/ethnic question has undergone several revisions over the years. In 1977, it was modified to correspond to a standard question format recommended by the Federal Interagency Committee on Education and adopted by the Office of Management and Budget (OMB) for use in federally sponsored surveys; an explanation of the effect of these changes is detailed on page 13 of Summary Report 1977. (Note: Changes in the OMB guidelines prompted the moving of persons having origins in the Indian subcontinent from the white category to the Asian category.) In 1980, the item was further revised in two ways: (1) the Hispanic category was subdivided into Puerto Rican, Mexican American, and other Hispanic to provide more detail for users of the racial/ethnic data, and (2) respondents were asked to check only one racial category. (Before 1980, doctorate recipients could check more than one category to indicate their race.) The item was modified again in 1982 to separate the questions on race and ethnicity. Since then,

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

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

		-			Year	of Doct	orate.				
	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
TOTAL ALL FIELDS	31,337	31,298	31,899	32,367	33,499	34,324	36,067	37,518	38,850	39,755	
PHYSICAL SCIENCES	<u>4,452</u>	<u>4,531</u>	4,807	5,030	<u>5,309</u>	<u>5,455</u>	5,859	6,279	<u>6,501</u>	6,497	6,821
MATHEMATICS	698	688	729	740	749	859	892	1,039	1,058	1,146	1,118
Applied Mathematics Algebra Analysis and Functional Analysis Geometry	108 65 71 27	116 55 83 35	135 46 81 38	131 57 86 30	142 54 76 44	158 50 103 47	185 39 90 42	193 72 132 66	213 69 105 45	188 84 105 44	204 74 105 34
Logic Number Theory Mathematical Statistics Topology Computing Theory and Practice	25 27 181 42 13	30 18 150 35 15	23 20 141 34 10	18 15 143 41 14	20 26 152 27 12	12 23 167 37 12	19 26 157 50 12	23 30 206 57 19	28 25 217 58	19 42 228 54	29 36 204 35 16
Computing Theory and Practice Operations Research Mathematics, General Mathematics, Other	27 78 34	22 85 44	29 125 47	22 137 46	29 134 33	22 177 51	29 191 52	16 180 45	12 22 209 55	18 37 276 51	26 284 71
COMPUTER SCIENCE	295	310	399	450	515	612	705	800	869	880	904
Computer Science Information Sciences and Systems	256 39	249 61	355 44	384 66	442 73	519 93	612 93	720 80	791 78	825 55	834 70
PHYSICS AND ASTRONOMY	1,080	1,080	1,187	1,237	1,302	1,274	1,393	1,411	1,537	1,544	1,692
Astronomy Astrophysics Acoustics Chemical and Atomic/Molecular Electron	42 56 21 77 2	43 57 10 58 4	52 57 15 70 2	46 54 17 79 6	66 64 16 77 2	49 64 15 74 4	52 76 21 87 2	50 75 13 76 1	55 79 18 85	76 69 27 95	65 78 20 140
Elementary Particles Fluids Nuclear Optics	138 11 72 53 73	154 16 86 51	147 6 89 58	159 21 74 50	174 17 88 65	135 14 81 78	163 17 73 76	182 14 66 85	153 17 86 94	170 19 82 96	176 12 90 104
Plasma and High-Temperature Polymer Solid State and Low-Temperature Physics, General Physics, Other	258 170 99	55 11 248 176 111	61 11 280 222 117	72 15 287 238 119	65 20 252 271 125	61 7 296 269 127	42 11 306 323 144	58 17 372 247 155	65 17 408 297 163	62 29 336 340 143	79 29 388 343 168
CHEMISTRY	1,765	1,836	1,903	1,975	2,015	1,970	2,100	2,193	2,213	2,138	2,254
Analytical Inorganic Nuclear Organic Medicinal/Pharmaceutical Physical Polymer Theoretical Chemistry, General Chemistry, Other	228 233 18 525 56 329 63 37 183 93	285 251 7 494 60 304 84 48 213 90	257 260 18 511 58 293 72 41 289 104	314 240 13 511 65 302 96 46 297 91	301 250 7 531 73 318 81 50 310 94	289 256 6 511 64 310 78 46 312 98	293 242 13 452 48 325 81 55 524	304 260 14 538 82 364 111 45 400 75	304 268 512 68 398 83 59 449 65	286 237 8 518 99 336 107 53 432 62	333 262 10 543 102 333 117 52 447 55
EARTH, ATMOS., & MARINE SCI.	614	617	589	628	728	740	769	836	824	789	853
Atmospheric Physics and Chemistry Atmospheric Dynamics Meteorology Atmos. Sci./Meteorology, General Atmos. Sci./Meteorology, Other Geology Geochemistry Geophysics and Seismology Paleontology Mineralogy, Petrology Stratigraphy, Sedimentation Geomorphology and Glacial Geology Applied Geology	11 25 28 5 12 124 43 68 35 28 16	16 21 23 10 10 111 48 92 23 28 23 13	21 16 27 7 7 118 37 89 16 17 14	24 17 17 16 13 114 31 75 21 24 22 18	19 25 35 14 10 144 46 83 24 19 30	15 16 27 14 15 165 39 87 17 36 24	18 20 20 23 22 166 56 91 21 26 25 14	20 21 31 26 10 192 64 117 24 36 29 18	36 23 28 27 6 166 62 108 25 29 23 12	13 23 34 22 7 197 50 101 21 9 28 16	27 27 32 37 6 194 59 106 17 21 27 13
Geological & Related Sci., General Geological & Related Sci., Other Environmental Science Hydrology and Water Resources Oceanography Marine Sciences Misc. Physical Sciences, Other	10 25 45 18 78 21 6	11 11 42 17 68 24 18	12 12 35 16 78 22 30	18 29 29 18 73 38 26	8 31 58 24 81 28 33	19 28 68 24 87 26 17	31 28 50 13 89 39	30 33 35 16 85 27 21	18 31 57 29 82 32 30	15 17 68 25 98 27 18	18 24 61 30 91 34 29
ENGINEERING	<u>2,913</u>	<u>3,166</u>	<u>3,376</u>	<u>3,712</u>	<u>4,187</u>	<u>4,543</u>	4,894	<u>5,215</u>	<u>5,438</u>	<u>5,698</u>	<u>5,826</u>
Aerospace, Aeronautic. & Astronautic. Agricultural Bioengineering and Biomedical Ceramic Sciences Chemical Civil Communications Computer Electrical, Electronics	119 74 70 25 361 351 11 56 593	124 60 69 19 440 358 30 55 631	118 52 67 25 476 387 23 77 706	142 74 75 42 527 441 26 62 691	150 70 114 30 624 488 24 100 886	178 102 115 35 625 498 25 117 995	192 101 129 43 561 505 35 131 1,110	207 84 149 58 621 509 21 178 1,206	234 84 147 42 607 540 30 175 1,278	228 86 171 42 624 563 22 167 1,353	230 89 175 39 630 602 33 202 1,440

			· · · · · · ·		Year	of Docto	rate				
	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Engineering Mechanics Engineering Physics Engineering Science	91 8 28	89 12 31	94 13 30	113 13 26	105 9 32	110 16 27	111 16 37	113 23 42	132 25 51	128 21 55	132 17 46
Environmental Health Engineering Industrial/Manufacturing Materials Science	57 84 168	33 92 188	42 101 187	36 120 238	43 127 252	40 162 257	48 151 307	66 165 361	54 196 365	61 236 416	82 228 433
Mechanical Metallurgical	336 78 16	424 96 16	442 93 22	544 112 27	610 92 17	650 88 33	773 90 39	762 70 38	855 78 26	903 77 24	883 67 23
Mining and Mineral Naval Architecture, Marine Eng. Nuclear	120 11	96 25	98 14	7 84 24	104 21	86 20	114 17	5 107	120 21	108	85
Ocean Operations Research Petroleum	50 17 31	54 24 40	54 18 37	51 23 34	44 33 28	68 29 58	46 49 48	21 76 28 42	56 54 64	56 52 61	29 47 42 53
Polymer/Plastics Systems Engineering, General	52 29 72	57 26 69	33 55 103	47 54 79	44 49 82	30 61 109	51 75 107	48 78 137	37 64 103	57 47 116	51 39 129
Engineering, Other LIFE SCIENCES	5,758	<u>5,781</u>	5,734	<u>5,754</u>	6,165	6,341	6,604	6,930	7,114	7,394	7,734
BIOLOGICAL SCIENCES	3,880	3,793	3,807	3,839	4,112	4,115	4,327	4,646	4,798	5,091	5,197
Biochemistry Biophysics Biotechnology Research	606 90	581 69	576 72	573 86	613 97	669 87	678 103	765 100	715 125	846 103 8	805 123 14
Bacteriology · Plant Genetics	12 20	17 31	12 20	13 26	7 26	11 18	15 31	11 23	13 33 32	14 41	18 30
Plant Pathology Plant Physiology Botany, Other	30 70 126	38 58 120	28 52 121	33 62 106	30 74 112	22 47 117	37 51 104	50 65 105	68 107	41 48 105	40 70 117
Anatomy Biometrics and Biostatistics	103 49 123	135 40 100	86 30 130	92 37 127	88 47 118	80 46 133	70 47 145	77 59 149	75 63 188	76 74 231	66 71 236
Cell Biology Ecology Developmental Biology/Embryology	202 15	200	183 9	158 6	155 7	161 10	166 22	189 37	180 48	176 57	201 62
Endocrinology Entomology Biological Immunology	30 156 133	17 173 124	17 170 146	19 123 136	21 133 179	21 139 152	24 147 153	33 138 177	27 139 181	16 114 169	26 123 161
Molecular Biology Microbiology	275 346	277 289	298 326	303 301	364 333	413 340	413 335	481 372	527 377	582 433	597 423
Neuroscience Nutritional Sciences Parasitology	145 109 30	156 113 21	120 122 25	153 141 16	163 127 20	181 128 20	192 118 13	238 106 20	238 132 17	276 134 17	284 147 22
Toxicology Human and Animal Genetics	97 82	99 105	104 91	115 113	108. 118	111 112	91 153	86 160	105 142	100 172	119 203
Human and Animal Pathology Human and Animal Pharmacology Human and Animal Physiology	88 237 237	110 235 245	91 245 240	127 234 248	112 252 225	105 241 272	101 243 278	122 262 272	114 278 266	130 273 271	129 256 287
Zoology, Other Biological Sciences, General Biological Sciences, Other	158 190 121	147 190 88	155 213 125	139 229 123	167 256 160	132 231 116	122 333 142	125 278 146	134 315 159	114 306 164	117 289 161
HEALTH SCIENCES	722	729	770	800	882	974	956	1,042	1,112	1,197	1,297
Speech-Lang. Pathology & Audiology Environmental Health Health Systems/Services Admin.	104 40	99 31	82 39	107 29	93 52	91 35	93 38	90 38	82 44	98 38 35	95 51 53
Public Health Epidemiology Exercise Physiology/Sci., Kinesiology	53 103	103 76	103 80	96 86	121 97	129 107	123 102	132 115	157 108	153 120	143 168 87
Nursing Pharmacy Rehabilitation/Therapeutic Services	161 102	183 106	216 104	218 133	247 95	308 111	261 116	326 115 17	338 160 25	373 146 36	336 148 43
Veterinary Medicine Health Sciences, General Health Sciences, Other	46 14 99	51 13 67	41 27 78	31 12 88	48 29 100	48 19 126	70 36 117	56 28 125	63 30 105	61 38 99	56 41 76
AGRICULTURAL SCIENCES	1,156	1,259	1,157	1,115	1,171	1,252	1,321	1,242	1,204	1,106	1,240
Agricultural Economics Agricultural Business & Management	159	148	160	139	156	164 2	145 2 22	168 1	141	137	162
Animal Breeding and Genetics Animal Nutrition Dairy Science	28 71 -	28 78	25 65	23 82	27 54 12	23 67 16	54 20	18 57 19	23 41 14	18 52 11	17 58 11
Poultry Science Fisheries Science and Management Animal Sciences, Other	45 90	36 95	31 91	32 76	10 42 86	11 34 95	17 42 90	13 39 92	22 26 97	16 38 74	21 48 86
Animal Sciences, Other Agronomy and Crop Science Plant Breeding and Genetics Plant Pathology	137 78 57	158 88 89	159 78 85	143 70 76	141 83 46	140 64 63	143 87 64	117 69 90 2	123 82 63	104 68 58	143 81 55
Plant Protection-Pest Management Plant Sciences, Other Food Sciences	20 113	21 136	22 121	20 131	1 23 16	6 15 1	23	17 -	29	28	24
Food Distribution Food Engineering	-	•	•		6	11 147	10 141	12 137	14 151	9 141	1 16 152
Food Sciences, Other Soil Sciences Soil Chemistry/Microbiology	99	97	103	74	18 33	28 75	27	24	24	26	21 69
Soil Sciences, Other Horticulture Science	66	76	60	71	62 61	75 75	91 101	78 78	63 65	59 62	69 65

					Year	of Doct	orate				
	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Wildlife Management Forestry Science Forest Biology Forest Engineering Forest Management Wood Sci. and Pulp/Paper Tech. Conservation/Renewable Nat. Res. Forestry and Related Sci., Other Wildlife/Range Management Agricultural Sciences, General Agricultural Sciences, Other	31 94 - - - - - 1 67	38 105 - - - - - 5 61	20 88 - - - - - 4 45	23 100 - - - - - - 5 50	3 15 21 3 18 7 7 35 36 9	22 1 21 16 12 57 52 7 27	27 2 14 16 16 62 58 5 38	17 2 22 16 19 45 59 3 28	29 29 16 21 9 62 55 9	18 3 17 20 13 55 54 10	20 17 26 21 59 52 4 11
SOCIAL SCIENCES (INCL. PSYCH.)	<u>5,929</u>	<u>5,765</u>	<u>5,893</u>	<u>5,790</u>	<u>5,781</u>	<u>5,961</u>	6,093	<u>6,152</u>	<u>6,216</u>	<u>6,546</u>	6,624
Anthropology Area Studies Criminology Demography/Population Studies Economics Econometrics Geography Human/Individual & Family Develop. International Relations/Affairs	335 23 41 19 766 27 114	353 19 38 25 784 27 120	381 28 24 15 834 25 120	352 17 29 26 796 25 111 82	325 16 43 19 825 27 129	325 17 32 22 872 26 105	324 22 42 20 836 26 131	341 24 35 28 861 24 108	320 33 37 17 885 25 111	342 36 39 22 906 24 137	384 34 41 23 914 26 146 129
Political Science and Government Public Policy Analysis Sociology Statistics Urban Affairs/Studies Social Sciences, General Social Sciences, Other	419 54 515 39 81 17 127	406 70 461 60 75 17 114	414 81 491 65 50 36 127	404 83 423 49 72 30 118	392 73 449 47 86 28 171	430 79 436 69 62 26 158	462 87 428 69 67 23 178	434 111 465 31 90 36 226	513 107 495 29 86 33 186	507 98 513 48 123 32 196	589 93 524 46 132 21 148
PSYCHOLOGY	3,257	3,118	3,126	3,173	3,074	3,208	3,281	3,250	3,263	3,421	3,260
Clinical Cognitive and Psycholinguistics Comparative Counseling Developmental and Child Experimental Educational Industrial and Organizational Personality Physiological/Psychobiology Psychometrics Quantitative School Social Psychology, General Psychology, Other	1,195 77 13 464 207 169 210 106 25 73 6 17 89 157 267 182	1,181 76 11 431 175 165 127 102 21 79 10 166 192 167 266 199	1,173 70 144 449 184 147 106 110 16 73 11 23 116 141 309 184	1,214 80 9 486 200 146 89 107 25 69 9 13 133 343 157	1,095 83 7 482 176 135 103 118 85 11 12 115 140 368 126	1,259 79 8 501 148 146 105 104 28 62 6 11 107 128 364 152	1,337 76 8 466 159 143 98 120 46 8 15 145 371 181	1,305 94 7 7 497 155 142 110 142 13 45 9 7 82 147 324 171	1,309 101 2 507 170 154 138 17 55 10 88 139 295 182	1,374 104 5 488 202 143 91 158 22 85 9 16 95 126 306 197	1,289 129 8 496 181 140 69 137 19 93 5 17 153 284 156
<u>HUMANITIES</u>	<u>3,536</u>	<u>3,429</u>	<u>3,461</u>	<u>3,500</u>	<u>3,556</u>	<u>3,553</u>	<u>3,822</u>	<u>4,098</u>	<u>4,443</u>	<u>4,476</u>	<u>4,743</u>
History, American History, European History/Philosophy of Sci. & Tech. History, General History, Other Classics Comparative Literature Linguistics Speech and Rhetorical Studies Letters, General Letters, Other American Studies Archeology Art History/Criticism/Conservation Music Philosophy Religion Drama/Theater Arts	240 150 24 76 127 57 133 160 41 14 31 76 31 141 445 215 183 101	176 143 23 85 116 44 133 176 38 13 26 87 24 137 447 238 181 92	197 121 24 83 138 51 101 189 30 19 37 68 28 126 476 476 248 182 88	198 121 25 94 148 55 121 199 37 25 31 143 499 233 182 82	209 127 22 103 142 56 139 166 37 16 43 70 23 134 505 222 217 92	206 107 20 85 120 51 103 188 35 13 60 76 26 145 522 270 215	211 151 26 111 113 58 97 167 38 19 52 72 22 135 572 243 219	251 127 27 121 137 55 150 227 86 16 44 92 23 33 125 589 285 187 91	277 176 28 103 141 58 163 266 98 81 133 154 641 279 231	269 162 37 116 142 61 153 214 111 18 37 101 38 158 614 274 275 91	310 180 26 140 144 84 163 221 142 22 25 88 34 182 685 302 252 102
LANGUAGE AND LITERATURE	1,225	1,164	1,164	1,112	1,147	1,152	1,308	1,350	1,465	1,524	1,538
American English French German Italian Spanish Russian Slavic Chinese Japanese Hebrew Arabic Other Language and Literature	190 543 108 80 17 144 33 12 13 12 13 8 52	204 525 86 62 14 145 28 10 14 13 9 5	215 504 102 79 15 122 28 8 13 9 11	190 478 103 77 21 133 19 5 13 9 13 8 43	186 531 101 76 14 137 13 5 12 6 12 14 40	192 528 106 73 20 134 13 7 9 13 10 6	229 567 123 78 25 173 19 7 16 9 14 7	253 599 100 71 32 173 25 14 19 7 11 4 42	291 612 124 96 20 179 28 15 20 12 20 12 36	293 655 137 105 19 179 28 13 21 11 15 10 38	296 647 129 67 32 212 38 10 25 12 11 4
Humanities, General Humanities, Other	22 44	27 59	23 68	23 58	25 61	19 61	28 74	29 75	21 77	30 71	31 72

NOTE: Dash (-) indicates that the field was not on the questionnaire's Specialties List that year. Field groupings may differ from those in reports published by federal sponsors of the Survey of Earned Doctorates. 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 B.

					Year	of Docto	rate				
	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
EDUCATION	<u>6,808</u>	<u>6,733</u>	6,646	<u>6,450</u>	6,359	6,278	<u>6,511</u>	6,442	6,640	6,650	6,683
Curriculum and Instruction Educational Admin. and Supervision Educational Leadership Educ./Instruct. Media Design Educ. Stat./Research Methods Educ. Assess., Test., & Meas.	869 1,569 83 105 56	825 1,625 101 74 44	794 1,637 1 79 58 47	762 1,686 68 73 37	815 1,749 67 51 55	841 1,632 76 59 42	839 1,663 1 55 59 40	807 1,428 483 73 80 32 323	899 1,287 681 62 61 45	852 1,339 764 95 64 23	816 1,205 780 111 68 28
Educational Psychology School Psychology Social/Phil. Found. of Educ. Special Education Counseling Educ./Couns. & Guidance Higher Educ./Evaluation & Research Pre-elementary/Early Childhood Elementary Education	233 110 151 312 391 657 54 97	388 102 135 270 397 589 65 122	330 92 124 273 315 612 86 94	320 95 114 248 315 570 73 105	323 98 122 257 324 399 83 93	301 85 110 259 264 373 63 99	323 87 86 225 301 424 42 110	323 90 109 226 270 344 85 73	346 88 101 260 259 380 98 73	290 86 108 277 287 357 97 65	311 97 140 241 282 428 90 71
Junior High Education Secondary Education Adult and Continuing Education	62 218	68 207	86 223	$\frac{65}{203}$	$\begin{array}{c} 67 \\ 229 \end{array}$	53 236	56 211	40 210	28 208	33 233	24 215
TEACHING FIELDS	1,170	1,118	1,142	1,064	988	968	923	970	1,006	941	960
Agricultural Education Art Education Business Education English Education Foreign Languages Education Health Education Home Economics Education Technical/Industrial Arts Education Mathematics Education Mursing Education Nursing Education Physical Education and Coaching Reading Education Science Education Social Science Education Speech Education	47 41 52 72 25 93 26 27 64 92 21 219 142 77 22 10	40 43 52 68 30 89 21 13 65 81 21 220 113 88 24	39 43 50 79 37 81 17 20 72 94 40 210 134 65 22 5	39 52 36 72 37 91 17 24 74 10 36 192 94 63 17 5	32 442 444 577 53 86 17 111 566 76 344 74 67 23 5	35 39 40 51 33 100 19 17 69 176 95 48 13	38 44 34 52 31 95 10 18 65 78 24 191 82 72 11	49 28 32 58 46 78 21 13 73 96 18 185 102 72 19	43 46 16 61 50 98 12 11 62 96 29 167 121 73	54 38 27 53 48 83 14 16 69 80 19 161 95	52 33 25 56 54 97 11 20 74 89 24 139 97 85
Technical Education Trade and Industrial Education Teacher Ed./Spec. Acad. & Voc., Other	117 23	82 61	86 48	68 38	13 67 47	28 47 31	15 18 40	25 17 37	35 11 56	21 24 57	30 24 40
Education, General Education, Other	311 360	294 308	354 299	366 285	358 280	414 403	535 531	421 378	426 332	408 331	484 332
PROFESSIONAL/OTHER FIELDS	<u>1,941</u>	1,893	1,982	2,131	2,142	<u>2,193</u>	2,284	2,402	2,498	2,494	2,580
BUSINESS AND MANAGEMENT	869	790	902	982	1,033	1,067	1,036	1,163	1,248	1,281	1,285
Accounting Banking/Financial Support Services Business Admin. and Management Business/Managerial Economics International Business	164 123 175 30	150 104 174 20	157 126 222 28	161 156 225 26	175 148 265 27	186 151 245 27	172 134 277 21	172 172 204 19	180 172 241 21	183 170 324 33	178 134 322 40 22
Mgmt. Info. Sys./Business Data Proc. Marketing Management and Research Business Statistics Operations Research Organizational Behavior Business Mgmt./Admin. Serv., General Business Mgmt./Admin. Serv., Other	126 7 46 70 49 79	94 9 45 68 49 77	110 3 46 57 56 97	113 8 64 66 75 88	126 6 50 74 75 87	130 15 52 95 57 109	120 10 46 64 70 122	72 134 5 58 72 123 132	103 139 67 81 112 132	101 166 63 73 88 80	117 167 54 102 87 62
COMMUNICATIONS	255	266	258	309	247	306	323	332	330	322	371
Communications Research Journalism	66 17	55 22	79 18	90 7	72 21	85 15	87 21	72 7	45 85	33	40
Mass Communications Radio and Television Communication Theory Communications, General	20 68	19 89	13 75	16 102	12 70	29 79	17 86	68 6 25 70	47 76	117 41 69	156 45 68
Communications, Other	84	81	73	94	72	98	112	84	<i>י</i> לל	62	68 62
OTHER PROFESSIONAL FIELDS	802	812	796	778	812	766	858	836	880	864	885
Architectural Environmental Design Home Economics Law Library Science Parks/Recreation/Leisure/Fitness	25 107 24 68	36 90 25 71	27 88 31 57	33 67 29 48	31 58 33 57	43 55 26 60	41 74 34 42	67 29 23 52	60 58 20 51	54 57 29 70 44	67 31 33 41 37 134 272 258
Public Administration Social Work Theology/Religious Education Professional Fields, General Professional Fields, Other	127 231 212 2 6	112 220 240 18	235 240 30	78 214 254 1 54	92 241 251 2 47	97 206 232 47	88 246 271 3 59	107 240 273 3 42	108 248 292 1 42	117 237 240 1 15	134 272 258 1 11
OTHER FIELDS	15	25	26	62	50	54	67	71	40	27	39

Total All Doctorates

APPENDIX TABLE B-2 Number of Doctorate Recipients, by Gender, Race/Ethnicity, and Citizenship, 1975, 1979, and 1984-1994

									<u> </u>				
						Year o	f Doctor	ate					
	1975	1979	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
TOTAL MEN AND WOMEN	32,952	31,239	31,337	31,298	31,899	32,367	33,499	34,324	36,067	37,518	38,850	39,755	41,011
U.S. Citizens	27,083	25,464	24,027	23,370	23,083	22,983	23,290	23,400	24,905	25,560	25,974	26,408	
Permanent Visas	1,713	1,320	1,224	1,324	1,433	1,578	1,622	1,626	1,698	1,856	1,978	2,254	3,741
Temporary Visas	3,536	3,587	4,832	5,228	5,276	5,610	6,194	6,646	8,093	9,309	9,951	9,921	9,393
Unknown Citizenship	620	868	1,254	1,376	2,107	2,196	2,393	2,652	1,371	793	947	1,172	772
Total Known Race/Ethnicity	30,271	28,719	29,280	29,058									39,775
U.S. Citizens	25,986	23,953	23,423	22,848	22,653	22,504	22,900	23,014	24,524	25,066	25,601	26,176	26,852
Permanent Visas	1,440	1,285	1,194	1,291	1,357	1,509	1,545	1,564	1,636	1,794	1,901	2,220	3,692
Temporary Visas	2,794	3,397	4,509	4,848	4,837	5,141	5,838	6,293	7,555	8,784	9,532	9,664	9,102
Unknown Citizenship	51	84	154	71	77	62	62	69	152	111	95	167	129
Native Americans	36	84	74	96	100	116	94	94	97	132	152	121	145
U.S. Citizens	36	81	74	96	99	115	94	94	96	130	149	120	142
Permanent Visas*	0	0	0	0	0	0	0	0	0	2	0	0	0
Temporary Visas*	0	3	0	Ú	1	1	0	0	1	0	2	1	3
Unknown Citizenship	0	0	0	0	0	0	0	0	0	0	1	0	0
Asians	2,161	2,602	3,394	3,642	3,727	4,126	4,778	5,181	6,291	7,522	8,276	8,657	9,359
U.S. Citizens	286	428	512	516	530	542	614	626	641	787	837	889	949
Permanent Visas	739	674	507	553	528	625	621	635	664	741	914	1,121	2,591
Temporary Visas	1,123	1,463	2,295	2,526	2,645	2,933	3,516	3,903	4,930	5,946	6,504	6,597	5,796
Unknown Citizenship	13	37	80	47	24	26	27	17	56	48	21	50	23
Blacks	1,211	1,443	1,494	1,440	1,270	1,218	1,263	1,246	1,349	1,458	1,422	1,610	1,669
U.S. Citizens	998	1,054	953	912	823	768	814	821	898	1,003	962	1,107	1,092
Permanent Visas	58	58	102	131	126	139	152	141	149	155	143	170	178
Temporary Visas	151	320	419	395	313	305	291	273	290	293	310	320	384
Unknown Citizenship	4	11	20	2	8	6	6	11	12	7	7	13	15
Hispanics	421	908	916	1,000	1,056	1,054	1,048	1,062	1,228	1,318	1,400	1,426	1,529
U.S. Citizens	313	470	534	561	572	617	595	581	721	731	778	830	882
Permanent Visas	34	77	71	73	107	91	98	112	116	136	130	139	144
Temporary Visas	71	348	300	360	372	338	349	363	386	445	481	453	501
Unknown Citizenship	3	13	11	6	5	8	6	6	5	6	11	4	2
Whites	26,442	23,682	23,402	22,880	22,771	22,702	23,162	23,357	24,902	25,325	25,879	26,413	27,073
U.S. Citizens							20,783	20,892	22,168	22,415	22,875	23,230	23,787
Permanent Visas	609	476	514	534	596	654	674	676	707	760	714	790	779
Temporary Visas	1,449	1,263	1,495	1,567	1,506	1,564	1,682	1,754	1,948	2,100	2,235	2,293	2,418
Unknown Citizenship	31	23	43	16	40	22	23	35	79	50	55	100	89
Unknown Race/Ethnicity	2,681	2,520	2,057	2,240	2,975	3,151	3,154	3,384	2,200	1,763	1,721	1,528	1,236
U.S. Citizens	1,097	1,511	604	522	430	479	390	386	381	494	373	232	253
Permanent Visas	273	35	30	33	76	69	77	62	62	62	77	34	49
Temporary Visas	742	190	323	380	439	469	356	353	538	525	419	257	291
Unknown Citizenship	569	784	1,100	1,305	2,030	2,134	2,331	2,583	1,219	682	852	1,005	643

NOTE: The reader is referred to the explanatory note about this table in front of Appendix B.

^{*}In most cases, non-U.S. Native Americans are citizens of Canada or of Latin America.

Appendix B

Doctorates: MEN

						Year of	Doctora	ite					
	1975	1979	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
TOTAL MEN	25,751	22,302	20,638	20,554	20,594	20,939	21,681	21,812	22,962	23,648	24,432	24,649	25,205
U.S. Citizens	20,664	17,580	14,730	14,223	13,637	13,575	13,725	13,396	14,166	14,377	14,500	14,493	14,710
Permanent Visas	1,416	1,014	892	999	1,068	1,117	1,164	1,139	1,190	1,224	1,291	1,466	2,634
Temporary Visas	3,182	3,092	4,134	4,395	4,414	4,722	5,133	5,442	6,632	7,516	7,961	7,854	7,317
Unknown Citizenship	489	616	882	937	1,475	1,525	1,659	1,835	974	531	680	836	544
Total Known Race/Ethnicity		•	•			-					23,143	-	24,295
U.S. Citizens	19,785	16,490	14,303	13,858		13,248	13,445		13,899		14,234	14,321	14,543
Permanent Visas	1,178	987	867	971	1,004	1,064	1,097	1,094	1,150	1,176	1,233	1,441	2,599
Temporary Visas	2,490	2,922	3,844	4,057	4,037	4,313	4,820	5,139	6,172	7,077	7,612	7,645	7,089
Unknown Citizenship	40	57	117	58	53	48	43	50	115	74	64	103	64
Native Americans	27	59	.54	40	59	63	52	49	52	74	82	61	74
U.S. Citizens	27	56	54	40	58	62	52	49	52	74	82	60	71
Permanent Visas*	0	0	0	0	0	0	0	0	0	0	0	0	0
Temporary Visas*	0	3	0	0	1	1	0	0	0	0	0	1	3
Unknown Citizenship	0	0	0	0	0	0	0	0	0	0	0	0	0
Asians	1,858	2,158	2,780	2,945	3,040	3,349	3,843	4,154	5,030	5,875	6,422	6,605	7,064
U.S. Citizens	222	311	338	329	347	369	414	441	427	481	528	551	591
Permanent Visas	642	564	389	437	417	455	456	459	482	488	603	729	1,875
Temporary Visas	984	1,253	1,982	2,137	2,258	2,505	2,955	3,241	4,076	4,870	5,273	5,287	4,579
Unknown Citizenship	10	30	71	42	18	20	18	13	45	36	18	38	19
Blacks	851	898	903	851	707	701	697	684	731	784	765	839	882
U.S. Citizens	649	551	427	379	323	317	315	327	351	417	392	439	407
Permanent Visas	53	52	81	117	106	118	126	125	128	131	122	139	142
Temporary Visas	145	288	382	354	275	261	251	222	242	232	245	250	325
Unknown Citizenship	4	7	13	1	3	5	5	10	10	4	6	11	8
Hispanics	350	681	620	646	665	677	678	662	760	805	858	873	863
U.S. Citizens	250	311	313	300	302	332	321	307	380	370	410	422	437
Permanent Visas	30	52	47	50	71	50	64	69	69	88	71	94	78
Temporary Visas	67	310	252	294	289	288	288	283	309	343	370	356	346
Unknown Citizenship	3	8	8	2	3	7	5	3	2	4	7	1	2
Whites	20,407	16,660	14,774	14,462	13,961	13,883	14,135	13,846	14,763	14,807	15,016	15,132	15,412
U.S. Citizens											12,822		
Permanent Visas	453	319	350	367	410	441	451	441	471	469		479	504
Temporary Visas	1,294	•	1,228	1,272		1,258				•		,	1,836
Unknown Citizenship	23	12	25	13	29	16	15	24	58	30	33	53	35
Unknown Race/Ethnicity	2,258			1,610					1,626				
U.S. Citizens	879	-		365					267				
Permanent Visas	238								40				
Temporary Visas	692												
Unknown Citizenship	449	559	765	879	1,422	1,477	1,616	1,785	859	457	616	733	480

APPENDIX TABLE B-2 (Continued)

Doctorates: WOMEN

						Year o	f Doctor	ate					
	1975	1979	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
TOTAL WOMEN	7,201	8,937	10,699	10,744	11,305	11,428	11,818	12,512	13,105	13,870	14,418	15,106	15,806
U.S. Citizens	6,419	7,884	9,297	9,147	9,446	9,408	9,565	10,004	10,739	11,183	11,474	11,915	12,395
Permanent Visas	297	306	332	325	365	461	458	487	508	632	687	788	1,107
Temporary Visas	354	495	698	833	862	888	1,061	1,204	1,461	1,793	1,990	2,067	2,076
Unknown Citizenship	131	252	372	439	632	671	734	817	397	262	267	336	228
Total Known Race/Ethnicity	6,778	8,263	10,149	10,114	10,492	10,543	10,940	11,545	12,531	13,410	13,986	14,717	15,480
U.S. Citizens	6,201	7,463	9,120	8,990	9,315	9,256	9,455	9,902	10,625	11,048	11,367	11,855	12,309
Permanent Visas	262	298	327	320	353	445	448	470	486	618	668	779	1,093
Temporary Visas	304	475	665	791	800	828	1,018	1,154	1,383	1,707	1,920	2,019	2,013
Unknown Citizenship	11	27	37	13	24	14	19	19	37	37	31	64	65
Native Americans	9	25	20	56	41	53	42	45	45	58	70	60	71
U.S. Citizens	9	25	20	56	41	53	42	45	44	56	67	60	71
Permanent Visas*	0	0	0	0	0	0	0	0	0	2	0	0	0
Temporary Visas*	0	0	0	0	0	0	0	0	1	0	2	0	0
Unknown Citizenship	0	0	0	0	0	0	0	0	0	0	1	0	0
Asians	303	444	614	697	687	777	935	1,027	1,261	1,647	1,854	2,052	2,295
U.S. Citizens	64	117	174	187	183	173	200	185	214	306	309	338	358
Permanent Visas	97	110	118	116	111	170	165	176	182	253	311	392	716
Temporary Visas	139	210	313	389	387	428	561	662	854	1,076	1,231	1,310	1,217
Unknown Citizenship	3	7	9	5	6	6	9	4	11	12	3	12	4
Blacks	360	545	591	589	563	517	566	562	618	674	657	771	787
U.S. Citizens	349	503	526	533	500	451	499	494	547	586	570	668	685
Permanent Visas	5	6	21	14	20	21	26	16	21	24	21	31	36
Temporary Visas	6	32	37	41	38	44	40	51	48	61	65	70	59
Unknown Citizenship	0	4	7	1	5	1	1	1	2	3	1	2	7
Hispanics	71	227	296	354	391	377	370	400	468	513	542	553	666
U.S. Citizens	63	159	221	261	270	285	274	274	341	361	368	408	445
Permanent Visas	4	25	24	23	36	41	34	43	47	48	59	45	66
Temporary Visas	4	38	48	66	83	50	61	80	77	102	111	97	155
Unknown Citizenship	0	5	3	4	2	1	1	3	3	2	4	3	0
Whites	6,035	7,022	8,628	8,418	8,810	8,819	9,027	9,511	10,139	10,518	10,863	11,281	11,661
U.S. Citizens	5,716	6,659	8,179	7,953	8,321	8,294	8,440	8,904	9,479	9,739	10,053	10,381	10,750
Permanent Visas	156	157	164	167	186	213	223	235	236	291	277	311	275
Temporary Visas	155	195	267	295	292	306	356	361	403	468	511	542	582
Unknown Citizenship	8	11	18	3	11	6	8	11	21	20	22	47	54
Unknown Race/Ethnicity	423	674	550	630	813	885	878	967	574	460	432	389	326
U.S. Citizens	218	421	177	157	131	152	110	102	114	135	107	60	86
Permanent Visas	35	8	5	5	12	16	10	17	22	14	19	9	14
Temporary Visas	50	20	33	42	62	60	43	50	78	86	70	48	63
Unknown Citizenship	120	225	335	426	608	657	715	798	360	225	236	272	163

NOTE: The reader is referred to the explanatory note about this table in front of Appendix B.

SOURCE: National Research Council, Survey of Earned Doctorates.

^{*}In most cases, non-U.S. Native Americans are citizens of Canada or of Latin American countries.

*** IMPORTANT NOTICE ***

The estimates reported for the Survey of Earned Doctorates (SED) are simple tabulations of all available information with no adjustment for nonresponse. Therefore, differences in response rates from year to year can produce numerical fluctuations that are unrelated to real trends.

Although response to the SED has been 95 to 98 percent in most years, it declined to 92 percent during the 1980s. In an effort to improve the response rate, the survey methodology was modified in the years after 1989. Response has risen as hoped, stabilizing around 95 percent during the last four years (1991 to 1994). (Note: These percentages represent self-report rates, i.e., the proportion of questionnaires completed by doctorate recipients. While survey forms containing partial information filled in by either the doctoral institution or staff of the National Research Council are not included in these rates, tables in this report incorporate the available data from these forms.) The self-report rate for 1994 may increase slightly in the next year if additional questionnaires are received from doctorate recipients. See the next page for a table giving survey response rates from 1964 to 1994.

Item response rates have shown a parallel improvement since 1990—a natural consequence of the increase in the overall self-report rate, as well as a result of format revisions to the questionnaire and follow-ups for missing information. In 1990, new follow-up procedures were implemented to increase coverage of several variables: birth year, gender, race/ethnicity, citizenship status, country of citizenship, baccalaureate year and institution, and postgraduation plans. Response rates for these variables have since improved—especially for citizenship and race/ethnicity, resulting in an increase in the reported numbers of minority Ph.D.s. The data for a given year are updated the following year with any responses received after survey closure. Postsurvey adjustment was most significant for 1990 and 1991 Ph.D.s, with the largest impact on the number of blacks. For both of these years, the total number of black Ph.D.s increased by about 7.5 percent in the year after survey closure. The survey cycle was then extended to allow receipt of more follow-up information before closure, resulting in much smaller postsurvey adjustments for both 1992 and 1993 data (a 1.4 percent increase in black Ph.D.s for 1992 and only a 0.2 percent increase for 1993). The same is expected for 1994 data.

Adjustments to data are presented in reports subsequent to the initial report for a survey. Updates for 1992 appeared in *Summary Report 1993*, and those for 1993 are included in this year's report (see Appendix Table B-2 for adjustments to racial/ethnic data). The data for 1994 will likewise be subject to further revision, but as for the last two years, adjustments are expected to be minimal. Updates to 1994 data will be presented in next year's report.

In using SED data, the reader should keep in mind that numerical trends are affected by fluctuations in response rates. Increasing or decreasing numbers in a citizenship or racial/ethnic group reflect to some degree any change in both overall survey response and item response.

SURVEY RESPONSE RATES	4	TES	RΔ	JSE	COON	P	/FV	SHRY
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	Self-Report		Se!f-Report
Year	Rate	Year	Rate
1964	96.9	1980	96.2
1965	97.4	1981	95.7
1966	96.3	1982	95.3
1967	97.3	1983	95.5
1968	97.6	1984	95.1
1969	96.6	1985	94.8
1970	98.1	1986	93.5
1971	97.5	1987	93.1
1972	97.3	1988	92.9
1973	97.5	1989	92.3
1974	94.2	1990	93.6
1975	97.3	1991	94.6
1976	97.2	1992	95.1
1977	96.6	1993	94.7
1978	96.3	1994	94.4

^{*} The rates for 1964-1993 reflect late responses. The rate for 1994 may increase slightly in the next year if additional questionnaires are received after survey closure. Self-report rates for 1980-1994 are determined from the "source of response" indicator in the doctorate records. Because this indicator was not coded prior to 1980, survey forms for 1964-1979 are assumed to be self-reported if "month signed" or "marital status" is present. "Marital status" is not available from sources other than the doctorate recipient.

As shown on the previous page, 94.4 percent of all doctorate recipients in 1994 completed survey forms; this percentage is referred to as the "self-report" rate. For the remaining 5.6 percent of recipients, "skeletal" forms were created with information from doctorate-granting institutions or commencement programs. Whether or not individuals completed the survey questionnaire, the following four data items are available for all recipients: gender, Ph.D. institution, Ph.D. field, and Ph.D. year.

This report presents data obtained from all survey forms, both self-reported and skeletal. The reader should note that nonresponse in a tabulation varies according to the combination of selected variables. Higher nonresponse rates occur when any of the four variables mentioned above are cross-tabulated with another variable (e.g., educational debt) because the universe consists of the entire doctoral cohort. In other words, the 5.6 percent of Ph.D.s who did not respond to the survey are included, even though their records contain minimal information. Nonresponse is generally lower when citizenship or race/ethnicity is cross-tabulated with a variable such as debt because the population is restricted to a group (e.g., U.S. citizens) that is largely drawn from self-reported forms and thus more likely to have responses to the debt question. To be more precise, information on debt was not available for only 4.8 percent of U.S. citizens in 1994; nonresponse was low because data on both citizenship and debt were obtained mostly from self-reported forms. Nonresponse was higher for the entire 1994 cohort (7.3 percent) because it included the 5.6 percent of forms that were only partially filled in by institutions or staff of the National Research Council. The same was true for men (7.5 percent) and women (7.1 percent) because gender was known even for Ph.D.s who did not complete a survey form. Cross-tabulating debt with field of doctorate would yield similarly high nonresponse rates because Ph.D. field is available for all recipients.

The percentages shown in the tables and figures in the body of this report are based only on the number of doctorate recipients who *responded* to the applicable survey questions.¹ Appendix C presents nonresponse rates for the variables included in these tables and figures; it also provides descriptive explanations of the data as needed. For additional technical information, please contact:

Doctorate Records Project National Research Council OSEP—Room TJ 2006 2101 Constitution Avenue, N.W. Washington, D.C. 20418

Phone: (202) 334-3161

¹ Note that the percentages in Appendix Tables A-3 and A-4 are based on the total doctoral cohort because categories for "unknown" responses are included. See the notes in front of Appendix A for further explanation of these data.

NONRESPONSE RATES FOR ITEMS IN TABLES AND FIGURES

Data Item	Tables/Figures	1964	1969
Baccalaureate Institution (for U.S. minorities)	Table 6	x	х
Citizenship	Tables 3-7,9,11,12,14,16-20; Figures 2-4,7,8,14,15	1.9	2.5
Country of Citizenship (for non-U.S. citizens)	Tables 4,5; Figure 3	x	x
Debt Status	Tables 13,14; Figure 12	x	x
Doctorate Field	Tables 2,3,8-13,15,18,19; Figures 5-8,10-12	0.0	0.0
Doctorate Institution	Table 7	x	x
Doctorate Year	All tables	0.0	0.0
Gender	Tables 2,11,12,14,16,20; Figures 1,6	0.0	0.0
Postdoctoral Location (for definite commitments)			
non-U.S. citizens (any type of plans)	Tables 17,18; Figure 14	x	x
U.S. citizens & permanent visas (employment plans)	Tables 19-20; Figure 15	x	X
temporary visas (employment plans)	Table 20	x	x
Postdoctoral Plans (e.g., definite employment vs. study)	Tables 15,16,18-20; Figures 13,15	x	x
Postdoctoral Sector (for definite employment in U.S.)			
U.S. citizens & permanent visas	Tables 19-20; Figure 15	х	х
temporary visas	Table 20	x	x
Postdoctoral Status (e.g., definite vs. seeking)	Tables 15-20; Figures 13-15	x	x
Primary Source of Graduate School Support	Table 12; Figure 11	x	X
Race/Ethnicity			
U.S. citizens	Tables 6,7,9,11,12,14; Figures 4,8	x	x
U.S. citizens & permanent visas	Tables 16,20	x	x
Registered Time-to-Doctorate (computed)	Tables 10,11; Figures 9,10	x	8.3
Total Time-to-Doctorate (computed)	Tables 10,11; Figures 9,10	x	1.7

NOTE: In 1994, 94.4 percent of new doctorate recipients completed the survey form. The item nonresponse rates in this table include the 5.6 percent of recipients who were not self-reporting. Because missing information is sometimes obtained from the doctorate-granting institutions or commencement programs, nonresponse rates for the following variables may be lower than the survey's 5.6 percent rate of nonresponse: citizenship, gender, race/ethnicity, baccalaureate institution, and total time-to-doctorate (derived from baccalaureate year). Field, institution, and year of doctorate are available for all recipients, as is gender.

x = Year not shown in tables and figures.

NONRESPONSE RATES FOR ITEMS IN TABLES AND FIGURES

1974	1979	1984	1989	1994	1990 - 1994	Data Item
x	X	x	x	X	1.1	Baccalaureate Institution (U.S. minorities)
4.6	2.8	4.0	7.7	1.9	2.6	Citizenship
x	x	x	9.9	0.6	x	Country of Citizenship (for non-U.S. citizens)
x	x	X	х	7.3	x	Debt Status
0.0	0.0	0.0	0.0	0.0	x	Doctorate Field
x	x	x	X	0.0	x	Doctorate Institution
0.0	0.0	0.0	0.0	0.0	0.0	Doctorate Year
0.0	0.0	0.0	0.0	0.0	x	Gender
						Postdoctoral Location (for definite commitments)
2.9	5.6	7.9	9.9	0.8	x	non-U.S. citizens (any type of plans)
2.2	4.0	7.8	7.1	0.1	x	U.S. citizens & permanent visas (employment plans)
1.9	4.7	7.7	10.1	0.4	X	temporary visas (employment plans)
0.7	0.9	0.3	0.5	0.7	x	Postdoctoral Plans (e.g., definite employment vs. study)
						Postdoctoral Sector (for definite employment in U.S.)
0.4	0.7	1.2	1.1	1.6	x	U.S. citizens & permanent visas
0.0	0.2	0.0	0.0	1.5	X	temporary visas
8.0	7.0	9.3	10.4	8.4	x	Postdoctoral Status (e.g., definite vs. seeking)
x	· x	x	x	27.7	x	Primary Source of Graduate School Support
				_		Race/Ethnicity
(1975)* 4.1	5.9	2.5	1.6	0.9	1.3	U.S. citizens
(1975)* 4.8	5.8	2.5	1.8	1.0	X	U.S. citizens & permanent visas
11.9	10.8	12.2	15.3	17.7	x	Registered Time-to-Doctorate (computed)
3.0	2.6	3.4	6.8	3.9	x	Total Time-to-Doctorate (computed)

x = Year not shown in tables and figures.

^{*} Race/ethnicity was not available until 1975. The nonresponse rates shown in the 1974 column actually represent 1975.

Baccalaureate Institutions of U.S. Minorities

Table 6 is restricted to U.S. minority Ph.D.s (native and naturalized citizens) from 1990 to 1994 who earned baccalaureates at institutions *located in the United States*. Because this population constitutes only 89.4 percent of all U.S. minority Ph.D.s in this period, the totals shown in Table 6 for each group are not all-inclusive. Another 9.5 percent—mostly naturalized Asians and Hispanics—received baccalaureates from foreign institutions, and the remaining 1.1 percent either did not earn a baccalaureate degree or did not report this information. The totals for all U.S. minority Ph.D.s regardless of baccalaureate status are: 4,103 Asians (58.2 percent naturalized); 5,062 blacks (7.3 percent naturalized); 3,942 Hispanics (21.2 percent naturalized); and 637 Native Americans (0.9 percent naturalized).

Country of Citizenship (for non-U.S. Ph.D.s)

Country of citizenship (if missing) was first followed up during the 1990 survey. Consequently, nonresponse has been much lower in recent years than prior to 1990. Nonresponse was only 0.6 percent in 1994, compared to 9.9 percent in 1989. Tables 4 and 5 present data on country of citizenship.

Postgraduation Plans

Postgraduation status: The question on postgraduation status asks recipients to indicate whether they have made a "definite" commitment, are in the process of "negotiating" with one or more organizations, or are seeking a position but have no specific prospects. Because Ph.D.s sometimes complete the survey form months ahead of graduation, it is not possible to determine the final plans of all recipients. It is quite likely that some individuals who check "negotiating" or "seeking" have obtained positions by the time of graduation. Data on postgraduation plans in this report are restricted to the group of Ph.D.s who reported "definite" plans.²

² Comparisons with the most recent longitudinal Survey of Doctorate Recipients (SDR) show the data on "definite" postgraduation plans to be a reasonable indicator of the actual employment status of new Ph.D.s in the first year or so following receipt of the doctorate. (The SDR, also conducted by the National Research Council, is a follow-up employment survey of a sample of doctorate recipients in science, engineering, and humanities fields.) According to the 1993 SDR, 97 percent of new 1992 Ph.D.s with "definite" plans at the time of graduation were employed in the U.S. labor force in April 1993 (postdoctoral appointments included). Moreover, most were working in the sector reported on their SED survey forms. It is important to note that the April 1993 reference point for the SDR fell 9-22 months after graduation for the 1992 Ph.D.s. This gap in time provides a plausible explanation for movement between sectors.

Definite commitments: Tables 15-20 and Figures 13-15 include only those Ph.D.s who reported definite postgraduation commitments and, therefore, do not reflect the entire Ph.D. population. The proportions of each doctoral cohort reporting definite commitments are shown below:

Year ·	% Definite	Year	% Definite
1974	67.4	1989	66.5
1979	68.5	1994	60.7
1984	66.3		

NOTE: These percentages are not adjusted for nonresponse to the question on postgraduation status; nonresponse ranged from 7 to 10 percent during these years. See chart of item nonresponse rates for detail.

Postdoctoral location: Revisions to the survey form have resulted in significant increases in response to postdoctoral location during the last few years. Doctorate recipients can now check a box for "U.S." or "non-U.S." instead of providing the name and exact location of the organization with which they will be affiliated after the doctorate. This explains the much lower nonresponse in 1994 than in earlier years shown in Tables 17-20 and Figures 14-15. See chart of item nonresponse rates for detail.

Postdoctoral employment commitments in the U.S.: To be included in Tables 19-20 and Figure 15, Ph.D.s must have reported definite commitments for employment. Foreign locations and employers are excluded. For temporary residents, a U.S. location must have been reported. For U.S. citizens and permanent residents, unknown locations are assumed to be in the United States because of the high "stay" rates for both groups. Based on actual responses to the 1994 survey, 97 percent of U.S. citizens with employment or study commitments intended to remain in the United States, as did 90 percent or more of permanent residents.

Primary Source of Graduate School Support

Although 93.8 percent of doctorate recipients in 1994 answered the question on sources of support, only 72.3 percent designated a *primary* source—giving this item the highest nonresponse of any item in the survey. Even so, the nonresponse rate of 27.7 percent in 1994 was 6 points less than the 33.9 percent of a year ago. This decrease in nonresponse was likely a result of moving the sentence that requests designation of primary source to the beginning of the question's instructions. Nonresponse should drop further in the 1995 survey because all Ph.D.s will have completed forms containing the clarified instructions; in 1994, 28 percent of the doctorate recipients filled out earlier versions of the questionnaire.

Race/Ethnicity

Adjustments to numbers: The reader should keep in mind that fluctuations in numbers for a racial/ethnic group reflect to some degree any upward or downward change in both overall survey response and response to the racial/ethnic item. Since 1990, response to race/ethnicity has shown great improvement—a result of new procedures for following up missing information. Race/ethnicity was not followed up prior to 1990.

All follow-up responses received before survey closure are included in data presented in the *Summary Report* for that survey. Responses arriving after closure are included in the next year's report. The extension of survey closure dates in the last two years has allowed most follow-up responses to be received in time to be included in the *Summary Reports* for those surveys. Postsurvey adjustments were greatest for 1990 and 1991 data, much less for 1992, and minimal for 1993. In 1994, response to the racial/ethnic item reached 97 percent by survey closure—the highest rate ever. Any postsurvey adjustments for 1994 data will be included in next year's report, but they are expected to be very slight because of the extended closure. Updated numbers for all recent years appear in Appendix Table B-2 in this report. See the notice at the beginning of Appendix C for more detail.

History of the racial/ethnic question: Although this item was first introduced to the Survey of Earned Doctorates in 1973, over 25 percent of recipients in 1973 and about 13 percent in 1974 either completed earlier questionnaires or provided unusable responses. Since 1975, the racial/ethnic data have been more reliable, with response rates ranging from 90.1 to 97.0 percent (the latter in 1994). The information on race/ethnicity presented in this report is limited to the period 1975 to 1994.

The racial/ethnic question has undergone several revisions over the years. In 1977, it was modified to correspond to a standard question format recommended by the Federal Interagency Committee on Education and adopted by the Office of Management and Budget (OMB) for use in federally sponsored surveys; an explanation of the effect of these changes is detailed on page 13 of Summary Report 1977. (Note: Changes in the OMB guidelines prompted the reclassification of persons having origins in the Indian subcontinent from the white category to the Asian category.) In 1980, the question was further revised in two ways: (1) the Hispanic category was subdivided into Puerto Rican, Mexican American, and other Hispanic, and (2) respondents were asked to check only one racial category. (Before 1980, doctorate recipients could check more than one category to indicate their race.) The item was modified again in 1982 to separate the questions on race and ethnicity. Since then, respondents have been asked to first check one of the four racial group categories (American Indian, Asian, black, or white) and then indicate whether or not they are Hispanic. In this report, Ph.D.s who reported Hispanic heritage are classified as Hispanic regardless of their racial designations; the remaining Ph.D.s are then counted in the respective racial groups. (Note: Doctorate recipients who checked the category "American Indian or Alaskan Native" are identified as "Native American" in this report.)

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 have 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 has been revised. Beginning with Summary Report 1994, 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 Ph.D.s.) 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 than are obtained by the old method. While differences are small (usually one- or two-tenths of a year), the reader should consider these differences when comparing medians presented in this report with those in earlier reports.

NSF Form 558 June 1993

SURVEY OF EARNED DOCTORATES 1993-94

Please return this form to the GRADUATE DEAN for forwarding to

The Office of Scientific and Engineering Personnel, National Research Council • 2101 Constitution Avenue, N.W., Washington, D.C. 20418

1. Name in full: Last Name Last Name	F	irst Name			Mid	die Name	
Cross Reference: Maiden name or former name legally changed							
2. Permanent address through which you could always be reached: (Ca	re of, if ap	plicable)) 				
Number Street City							
State	Z	ip Code		Or Country	/ if not U.S.	· ·	<u></u>
3. U.S. Social Security Number:							
4. Place of birth: or Country if not U.S.		Date	of birth:	Day			Year
5. Sex: 1 Male 2 Female			you a person with a disability? ☐ Ye s, is it: 1 ☐ Visual 3 ☐ Auditory (hearing) 5 ☐ Other (specify)	2 □ Or 4 □ Vo	thopedic	(mobility)	
Marital status: 0 ☐ Single, never married		0.14/ha	t is your racial background? 0 🗆 Am		n or Alasi	kan Native	
7. Citizenship: 0 ☐ United States, native 1 ☐ United States, naturalized			ck only one.) 1 Asi 2 Bla 3 Wh	an or Pacifi ck	c islander		:
Non-United States: 2 Permanent Resident of United States (Immigrant visa) (Country of present citizenship)		10. Are	you Hispanic? ☐ No ☐ Yes —	1 🔲 Pue	xican Ame erto Rican ner Hispar		
3 ☐ Temporary Resident of United States (Non-immigrant visa) (Country of present citizenship)		11. How (Dep	many dependents do you have? pendent = someone receiving at least	Do not t one half of	include yo	ourself. r support	from you.)
EDUCATION							
12. Location of high school/secondary school last attended:State	•			te of gradua m high scho		Month/Ye	ar
13. List below, chronologically, all colleges (including 2-year) and gradua attended for <u>ALL</u> institutions attended. Include your doctoral institut	ite institut	ions you	have attended and each degree earners at the end.	ed (if any). I	3e sure to	give the	rears -
attenued to ALL Institutions attenued. Include year extension		ars	Field of Study		De	gree (if ar	ıy)
	Atte	nded	Use Specialties List			Gran	ited
Institution/Branch State/Country		To	Name Math	Number	Title	Mo	Yr
EXAMPLE Genesee Community College NY SUNY/Buffalo NY	79 81	81 83	Computer Science	498 400	B.S.	6	83
If a baccalaureate degree (or equivalent) was never received, please	check be)x. 🗆					
			neto degree (or equivalent) and receiving	ng vour de	ctorate (in	clude the	period
14. How many years were you a full-time student between receiving yo spent on your thesis and/or dissertation)(whole no	imbers)						
Toquismont in the second secon	itte of you of field	r disser	tation. If a project report or a musical o	or literary co	omposition per of field		ree ialties List)
16. Name the department (or interdisciplinary committee, center, institu	ute, etc.) a	ınd scho	ool or college of the university which su	pervised y	our docto	ral progra	m.
Department/Institute/Committee/Program					School		

(continued on next page)

Own/Family Resources		oral Bassarah Assistant	one source as	P- 41 6		_		
01 Own Earnings	_	eral Research Assistant ☐ NIH	Other	Federal Support	(continued)	Student		
02 Spouse's Earning		⊒ NSF	49 🗆	Other Dept. Educ	ation		aranteed Stu	dent Loan
03 Family Contribution	ons 52 [⊒ USDA		Veterans Adminis USDA Fellowship		(Si	afford Loan)	
		Other Federal		USDA Fellowsnip Other Federal		81 ∟ Pe	rkins Loan —	formerly
University-Related			69 🗀	Other Federal			tional Direct : her Loan	Student Loan
10 Teaching Assistar	ıt	Specify		Specify		99 LJ Ot	ner Loan	
11 Research Assista	.nt Othe	er Federal Support	USN	ationally Compet	itiva	Sp	ecify	
12 University Fellow	21 🗆	NIH Traineeship/Fellowship	p Fellow	ships (Non-Feder		Other So	•	
14 College Work-Stu	.dy 29 [Other HHS		Ford Foundation	aıı		siness/Emplo	
19 🗌 Other		NSF Fellowship		Rockefeller Found	dation			syer S.) Government
Specify	 40 [Patricia Roberts-Harris		Mellon Foundation			ate Governme	
орос., у		Fellowship - formerly G*P		Other Fellowship		99 □ Ot		ait
		(Department of Education)) _			33 L. Ot	ici	
	44 🗆	Title VI Foreign Language	3	Specify		Spe	ecify	
19 Milhon very receive very								
that is directly related t	ouctorate degree,	how much money will you o ate and/or graduate educat)we	0 □ None 1 □ \$5,000 o	- !		5,001-\$20,00	
(tuition and fees living	o your undergrade	late and/or graduate educat lies, transportation to and fr	iion	2 🗆 \$5,001-\$		5 🗆 \$20	0,001-\$25,00	ט
school)?	whenses and supp	mes, transportation to and fr	om	3 🗆 \$10,001-			5,001-\$30,00	
301001):				3 🗆 \$10,001-	\$ 15,000 	/ Li \$30),001 or more	,
19A. Please check the cate	gory that most full	y describes your status for		B. If full-time o	mployed, what t	tune of n-	eition did	hold?
employment or study of	during the year imn	nediately preceding the awar	rd	5. ii faii-time e	mpioyed, what t ge or university,	faculty type of po	ornon ara you	nola?
of the doctorate.	- ·	,	•	7 🗆 Colle	ge or university, ge or university,	non-facul	tv	
0 🔲 Full-time employe	d →	Go to item 19B -	→	8 T Flem	entary or second	darv echo	nl teaching	
1 🔲 Held fellowship		•	-	9 Fleme	entary or second	darv echo	oi, icacilliy ol non-tosobi	na
2 🔲 Held assistantshir				(11) Indus	try or business	y 361101	on non-reacht	A
3 Part-time employe	ed .			(12) ☐ Other	(specify)			
4 Not employed				, _,_ 00				
5 Other (specify)								
STGRADUATION PI	LANS							
20. How definite are your im	mediate postgradi	uate plans?		23. If you plan to	he employed	nter -:	ory constant	or atha-
0 Am returning to, or	continuing in, pred	octoral employment	'	A For what to	pe of employe d, e	mier milit	ary service o	or otner:
1 Have signed contra	ct or made definite	commitment		Educat		will you t	e working?	
2 Am negotiating with	one or more spec	effic organizations						
3 Am seeking position	n but have no spec	ific prospects			.S. medical scho		ty otner than	medical school
4 Other (specify)					.S. jr. or commu		_	
				d □ E	ementary or sec	rondani e	e chool	
21. What best describes you	ır immediate poete	raduata plana?		4 □ E	oreign institution	oonuary si	SHOOL	
Study	ar irrinediate posty	raduate plans?	1 1		-	•		
0 ☐ Postdoctoral fel	lowshin	> For study	1 1	Govern				
1 Postdoctoral res	search associatesh	ip plans go to			oreign governme			
2 Traineeship	roaron associatesii	Item 22		g 🗀 U.	S. federal gover	rnment		
3 Other study (spe	ecify)	J item 22			S. state govern			
4 - Employment (other	than () 1 2 3)	For employ-	1 1	I 🗆 U.	S. local governm	nent		
5 Military service	1101 0, 1, 2, 3)				Sector			
6 Other (specify)		ment plans go to Item 23	,	j 🗆 No	onprofit organiza	ation		
- Carron (Speciny)		yo to item 23	<u>'</u>		dustry or busine	ess		
2 If you plop to have a past	de et e e l'e		\neg	I □ Se	elf-employed			
otherwise undertake furt	doctoral reliowship	, associateship, traineeship,	or	Other				
				m□ Ot	ther (specify)			
from Capacialties Link	or your postdoctors	al study? Please enter numb	er	B. Indicate wh	at your primary	and seco	ndary work a	ctivities will be by
Irom Specialties List			_	entering "1"	or "2" in the a	ppropriate	box.	•
P What will be the main a		IDDOM for your study research	n?	0 ∐Re	search and deve	elopment		
B. What will be the main s	ource of financial su	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1 1	1 □ Tea	aching			
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B. What will be the main so 0 U.S. Government 1 College or univers 2 Private foundation 3 Nonprofit, other ti	ource of financial su sity n han private foundat	tion		2 □ Ad 3 □ Pro 5 □ Ot	ofessional servic her (specify)			
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SPECIALTIES LIST

Instructions: The following field listing is to be used in responding to items 13, 15, 22A, and 23C. If a field marked with an asterisk (*) is chosen in item 13, please write in your field of specialization in the space provided.

in your field of speciali	Edition in the space promotes		
AGRICULTURAL SCIENCES	330 Engineering Physics	Miscellaneous Physical Sciences	EDUCATION
000 Agricultural Economics	333 Engineering Science	580 Environmental Science	800 Curriculum & Instruction
002 Agricultural Business & Mgmt.	336 Environmental Health Engin.	585 Hydrology & Water Resources	805 Educational Admin. &
005 Animal Breeding & Genetics	339 Industrial & Manufacturing	590 Oceanography	Supervision 807 Educational Leadership
010 Animal Nutrition	342 Materials Science 345 Mechanical	595 Marine Sciences 599 Misc. Physical Sci., Other*	810 Educ./Instruct. Media Design
012 Dairy Science	348 Metallurgical	333 Milde Friyologi Coll, Carol	815 Educ. St. Research Methods
014 Poultry Science 055 Fisheries Sci. & Mgmt.	351 Mining & Mineral	PSYCHOLOGY	820 Educ. Assess./Test./Meas.
019 Animal Sciences, Other*	357 Nuclear	600 Clinical	822 Educational Psychology
020 Agronomy & Crop Science	360 Ocean 363 Operations Research	603 Cognitive & Psycholinguistics	(See also 618) 825 School Psychology —
025 Plant Breeding & Genetics	(See also 465, 930)	606 Comparative 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	(See also 636)
030 Plant Path. (See also 120) 039 Plant Sciences, Other*	366 Petroleum	612 Developmental & Child	830 Social/Phil. Found. of Educ.
042 Food Distribution	369 Polymer & Plastics	615 Experimental	835 Special Education
043 Food Engineering	372 Systems	618 Educational (See also 822)	840 Counseling Educ./ Couns. & Guidance Services
044 Food Sciences, Other*	398 Engineering, General 399 Engineering, Other*	621 Industrial & Organizational	845 Higher Ed./Eval. & Research
046 Soil Chemistry/Microbiology	555 Engineering, exiter	(See also 935) 624 Personality	
049 Soil Sciences, Other* 050 Horticulture Science	COMPUTER AND	627 Physiological/Psychobiology	Teacher Education
066 Forest Biology	INFORMATION SCIENCES	630 Psychometrics	850 Pre-elem./Early Childhood
070 Forest Management	400 Computer Science	633 Quantitative	852 Elementary 856 Secondary
072 Wood Sci. & Pulp/Paper Tech.	410 Information Sci. & Systems*	636 School (See also 825) 639 Social	858 Adult & Continuing
074 Conserv./Renewable Nat. Res. 079 Forestry & Related Sci., Other*	MATHEMATICS	648 Psychology, General	
080 Wildlife/Range Management	420 Applied Mathematics	649 Psychology, Other*	Teaching Fields
098 Agricultural Sci., General	425 Algebra		860 Agricultural Education
099 Agricultural Sci., Other*	430 Analysis & Functional Analysis	SOCIAL SCIENCES	861 Art Education 862 Business Education
BIOLOGICAL SCIENCES	435 Geometry 440 Logic (See also 785)	650 Anthropology	864 English Education
100 Biochemistry	445 Number Theory	652 Area Studies 658 Criminology	866 Foreign Languages Education
105 Biophysics	450 Mathematical Statistics	662 Demography/Population Studies	868 Health Education
107 Biotechnology Research	455 Topology	666 Economics	870 Home Economics Education 872 Tech. & Indust. Arts Education
110 Bacteriology 115 Plant Genetics	460 Computing Theory & Practice	668 Econometrics	874 Mathematics Education
120 Plant Path. (See also 030)	465 Operations Research (See also 363, 930)	670 Geography 672 Human/Individ. & Family Devlpmt	876 Music Education
125 Plant Physiology	498 Mathematics, General	674 Int.'I Relations/Affairs	878 Nursing Education
129 Botany, Other*	499 Mathematics, Other*	678 Political Sci. & Government	880 Physical Education & Coaching
130 Anatomy 133 Biometrics & Biostatistics	PHYSICAL SCIENCES	682 Public Policy Analysis	882 Reading Education 884 Science Education
136 Cell Biology (See also 154)	Phisical Sciences	686 Sociology	885 Social Science Education
139 Ecology	Astronomy	690 Statistics (See also 450) 694 Urban Affairs/Studies	887 Technical Education
142 Developmental Bio./Embry.	500 Astronomy	698 Social Sciences, General	888 Trade & Industrial Education
145 Endocrinology	505 Astrophysics	699 Social Sciences, Other*	889 Teacher Educ., Specific Acad.
148 Entomology			& Voc. Prog., Other*
	Atmospheric Sciences		898 Education General
151 Biological Immunology	Atmospheric Sciences and Meteorology	HUMANITIES	898 Education, General 899 Education, Other*
	and Meteorology 510 Atmospheric Physics & Chem.	HUMANITIES History	898 Education, General 899 Education, Other*
151 Biological Immunology154 Molecular Biology157 Microbiology160 Neuroscience	and Meteorology 510 Atmospheric Physics & Chem. 512 Atmospheric Dynamics		
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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, 580-599)

Mathematics (420-499)

Computer Sciences (400-410) Combined in Table A-7

Engineering (300-399)

Life Sciences (000-299)

Biological Sciences (100-199) Biochemistry (100) Other Biological Sciences (105-199) Health Sciences (200-299) Agricultural Sciences (000-099)

Social Sciences (600-699)

Psychology (600-649) Economics and Econometrics (666, 668) Anthropology and Sociology (650, 686) Political Science and International Relations (674, 678)Other Social Sciences (652-662, 670, 672, 682, 690-699)

NONSCIENCES

Humanities (700-799)

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

Combined in Table A-7

Education (800-899)

Professional and Other Fields (900-999)

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

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

Combined in Table A-7

TITLES OF RESEARCH DEGREES INCLUDED IN THE SURVEY OF EARNED DOCTORATES

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

