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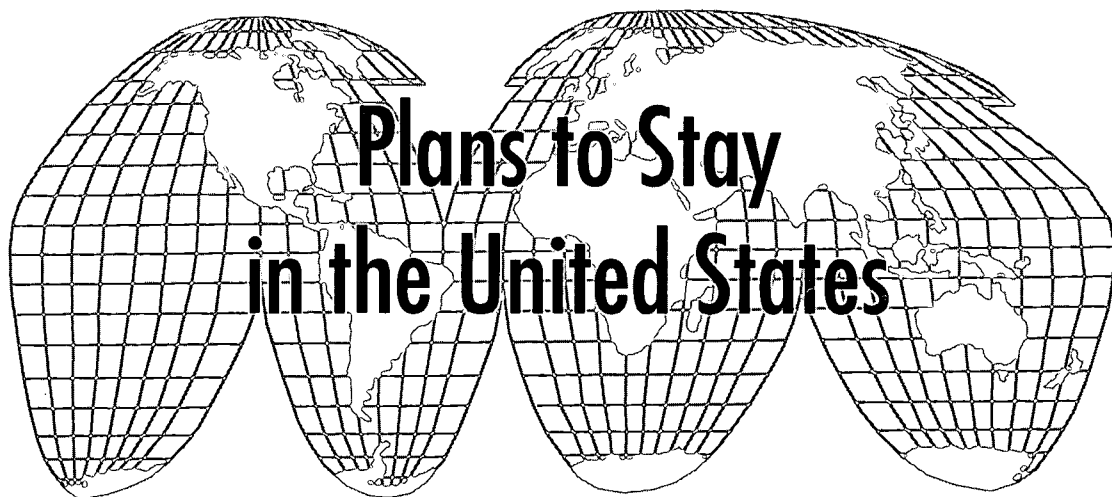
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ABSTRACT

This report provides detailed statistical profiles of students from several major countries who were doctoral recipients in science and engineering at U.S. universities and the initial intent of these foreign doctoral recipients to locate in the United States after graduation. The statistical profiles included in this report contain two tables for each major country of origin in Appendix B. The first set of tables groups degrees by country and field between 1988 and 1996. These tables provide data on several characteristics of doctoral students: gender, visa status, sources of support, time to degree, planned location after Ph.D, and any definite employment plans in the United States. The second set of tables provides similar data for the years 1975, 1980, and 1985-96. (DDR)

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# Statistical Profiles of Foreign Doctoral Recipients in Science and Engineering:



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*An SRS Special Report*

Division of Science Resources Studies  
Directorate for Social, Behavioral and Economic Sciences

National Science Foundation



November 1998

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# Statistical Profiles of Foreign Doctoral Recipients in Science and Engineering:



Jean M. Johnson, Author

*An SRS Special Report*

Division of Science Resources Studies  
Directorate for Social, Behavioral and Economic Sciences



**National Science Foundation**

**November 1998**

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# ACKNOWLEDGMENTS

Susan T. Hill, Director of the Doctorate Data Project within the Division of Science Resources Studies (SRS), designed the initial table format for the statistical profiles in Appendix B. The source of the data is the Survey of Earned Doctorates (SED). The SED is conducted annually for NSF and four other Federal agencies. Prior to 1997, it was conducted by the National Research Council (NRC), and since 1997 it has been conducted by the National Opinion Research Corporation (NORC). NRC staff, under the direction of Peter Henderson, used data from the SED to prepare the statistical profiles in Appendix B. Jeanne E. Griffith, Director of SRS and Ron Fecso, Chief Statistician provided overall review and guidance for this report. Jennifer S. Bond, Director of the Science & Engineering Indicators Program, supported the expansion of these profiles to include major countries

of Asia, Europe, and North America; encouraged a summary analysis; and provided review and guidance on this report. NSF/SRS colleagues, including Linda Hardy, Alan Rapaport, Ann Lanier, and Melissa Pollak, reviewed drafts of this report and provided helpful suggestions. Paul W. Jennings of NSF's Division of Graduate Education and Drew Malizio of the National Center for Educational Statistics (NCES) also reviewed a draft of this report and suggested clarifications. Anne Houghton, Publications Manager of SRS with assistance from Julia Harriston and Tanya Gore provided copyediting, processing, final composition, and contracting support for this report. Amy Olenner, Michelle Neil, and Joanna Zito of ESNE provided editing, proofreading, and composition support for this report.

# FOREWORD

The international mobility of foreign scientists and engineers and their significant presence in the U.S. labor force often begins with their graduate education at U.S. universities. This report provides detailed statistical profiles of students from several major countries who were doctoral recipients in science and engineering (S&E) at U.S. universities. It also provides information on the initial intent of these foreign doctoral recipients to locate in the United States after graduation.

The National Science Foundation (NSF), Division of Science Resources Studies (SRS), is developing a database on global human resources for science and engineering and has data on doctoral S&E programs for some countries in Asia, Europe, and North America. (See *Human Resources for Science and Technology: The Asian Region* [NSF 93-303] and *Human Resources for Science and Technology: The European Region* [NSF 96-316]). This report provides the U.S. component of

doctoral training of students from these countries. It also supplements coverage of foreign doctoral recipients in the National Science Board's *Science and Engineering Indicators: 1998* and other reports published by SRS, e.g., Issue Brief, "International Mobility of Scientists and Engineers to the United States—Brain Drain or Brain Circulation?"

It is hoped that these statistical profiles will prove useful to policymakers and to the research community and will lead to additional analyses in an area of growing interest.

Jeanne E. Griffith, Director  
Division of Science Resources Studies  
Directorate for Social, Behavioral, and  
Economic Sciences

November, 1998

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# GENERAL NOTES

This report provides statistical profiles of foreign students from major countries in Asia, Europe, and North America<sup>1</sup> who earned doctoral degrees in science and engineering (S&E) fields at U.S. institutions. The countries represent 74 percent of all foreign doctoral recipients in S&E fields. Foreign doctoral recipients from other regions of the world (e.g., South America, the Middle East, and Africa) are not included in this report.

The statistical profiles included in this report contain two tables for each major country of origin in Appendix B. The first set of tables (B-1 through B-14) groups degrees by country and field between 1988 and 1996, a period of rapid growth in S&E doctorates earned by foreign students. These tables provide data on several characteristics of doctoral recipients: gender, visa status, sources of support, time to degree, planned location after Ph.D., and any definite employment plans in the United States. The second set of tables (B-15

through B-28) provides similar data for the years 1975, 1980, and 1985–96.

These data are used to analyze the growth of S&E doctoral degrees earned by foreign students and the students' plans to remain in the United States after graduation. Data on plans to stay in the United States are collected by the Survey of Earned Doctorates (SED). A "plan to stay" means that a student intends to remain in the United States after graduation and a "firm plan to stay" means that a student has accepted a definite offer of a postdoctoral appointment or employment in the United States. The number of foreign doctoral recipients with firm plans to stay in the United States is a good indicator of those who actually stay<sup>2</sup> and is referred to in this report as a "stay rate." Summary tables used for this analysis (combining all countries from the three regions) are provided in Appendix A.

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<sup>1</sup> This report contains data for the European countries of France, Germany, Greece, Italy, and the United Kingdom. In addition, data for several groupings—other Western European countries, Eastern European countries, Scandinavian countries, and Russia and former Soviet Republics—are included. The Asian countries covered in this report are those that supply the largest numbers of students—China, India, South Korea, and Taiwan. For North America, data for Canada and Mexico are included.

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<sup>2</sup> Michael G. Finn, Leigh Ann Pennington, and Kathryn Hart Anderson, "Foreign Nationals Who Receive Science or Engineering Ph.D.s from U.S. Universities: Stay Rates and Characteristics of Stayers," Oak Ridge, TN: Oak Ridge Institute for Science and Education, April 1995.

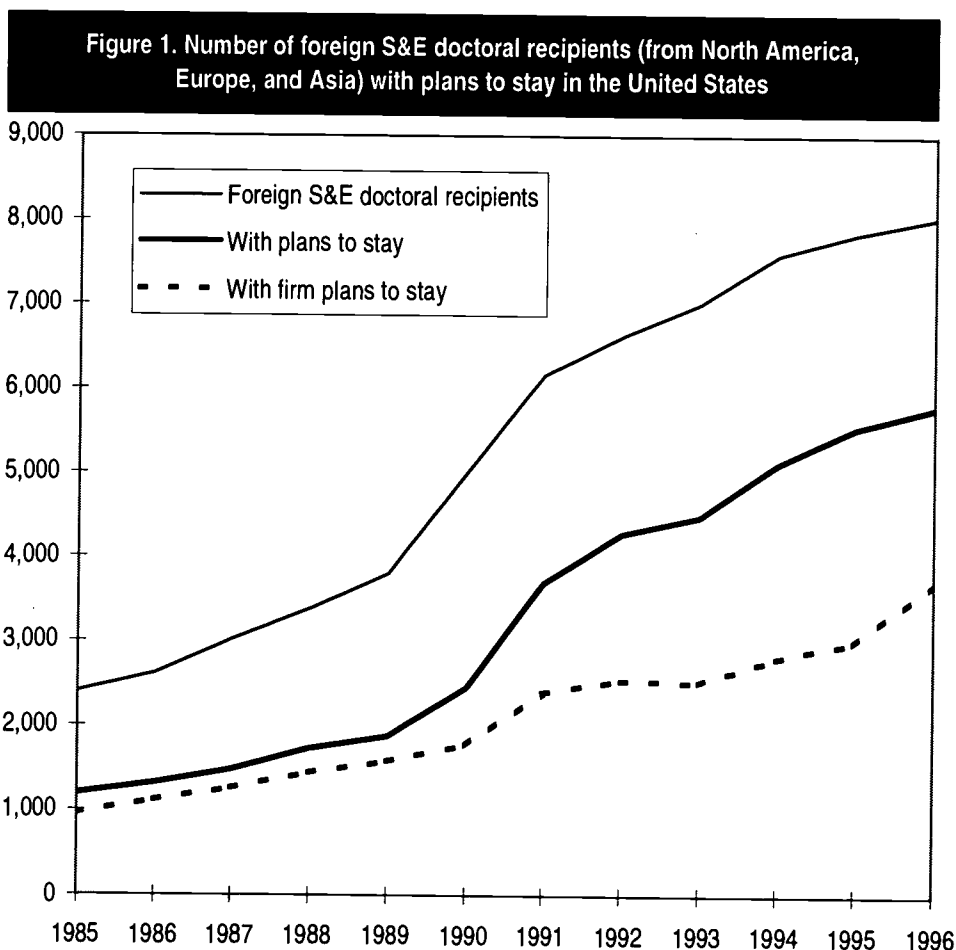


# FOREIGN DOCTORAL RECIPIENTS WITH PLANS TO STAY IN THE UNITED STATES

In the last decade, the number of students from countries of Europe, Asia, and North America earning S&E doctoral degrees at U.S. institutions has been increasing faster than the overall number of S&E doctoral degrees awarded by U.S. institutions. The number of S&E doctoral degrees earned in the United States by students from these regions increased from 2,400 in 1985 to over 8,000 in 1996, an average annual growth rate of 11.6 percent. During the same period, the total number of S&E doctoral degrees earned in

the United States increased from 18,000 to 27,000, representing an annual increase of 3.4 percent<sup>3</sup> (table A-1). Paralleling the increase in the number of S&E doctoral recipients from these three regions is an increase in those who plan to remain in the United States after receiving their degrees (figure 1).

Between 1988–96, students from the major countries of Asia, Europe, and North America earned more than 55,000 S&E doctoral degrees at U.S. institutions. During



**NOTE:** See appendix table A-2 for countries included within each region.

**SOURCE:** National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*, special tabulations, and table A-1.

<sup>3</sup> The average annual increase in the number of degrees awarded to U.S. citizens was 1.8 percent. See *Science and Engineering Doctorate Awards: 1996, Detailed Statistical Tables*, NSF 97-329 (Arlington, VA, 1997).

this period, 63 percent of these 55,000 doctoral recipients planned to remain in the United States after completing their studies and 37 percent planned to locate outside the United States. About 39 percent of foreign doctoral recipients had firm plans to remain in the United States (table 1). To be counted as having “firm plans” to remain, the respondent had to give the name and address of his or her prospective employer.

The number of foreign doctoral recipients from Asia is five times higher than the number from Europe. In addition, students from the Asian region have a higher planned stay rate than those from Europe and North America. Plans to stay in the United States, however, differ widely by country.

## ASIA

High stay rates in the United States are largely attributable to more favorable opportunities for employment or further study in the United States than in countries of origin. Between 1988–96, a large majority

of doctoral recipients from China and India planned to remain in the United States for further study and employment. During this period, about 80 percent of the approximately 25,000 Indian and Chinese S&E doctoral recipients planned to remain in the United States, and about half reported accepting firm offers to do so (figure 2 and table A-2). The high stay rate of Chinese students is largely attributable to the enactment (after the student demonstrations in Tiananmen Square) of the Chinese Student Protection Act of 1992, granting permanent U.S. residence status to most of the students.

In contrast to the high stay rates for Indian and Chinese doctoral students, only 23 percent of doctoral recipients from South Korea and 28 percent from Taiwan reported accepting firm offers to remain in the United States (table A-2).

Planned stay rates for the whole period 1988–96, however, mask differences over time for several countries. The trend in the 1990s has been for fewer doctoral recipients from South Korea and Taiwan to

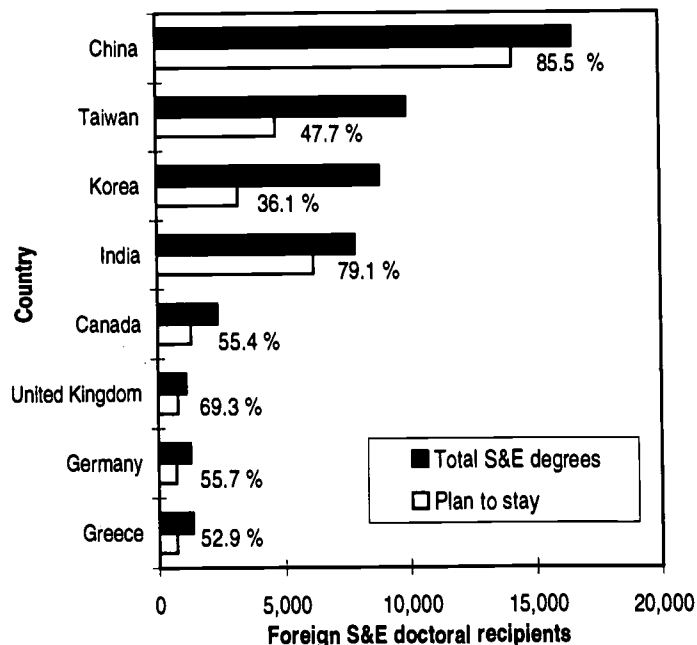
**Table 1. Number and percent of foreign S&E doctoral recipients with plans to stay in the United States, by selected region: 1988–96**

| Regions <sup>1</sup>       | Foreign S&E doctoral recipients |                    |         |                         |         |
|----------------------------|---------------------------------|--------------------|---------|-------------------------|---------|
|                            | Total                           | With plans to stay | Percent | With firm plans to stay | Percent |
| Regions <sup>1</sup> ..... | 55,444                          | 34,917             | 63.0    | 21,779                  | 39.3    |
| Asia.....                  | 43,171                          | 28,280             | 65.5    | 16,964                  | 39.3    |
| Europe.....                | 8,760                           | 4,898              | 55.9    | 3,521                   | 40.2    |
| North America.....         | 3,513                           | 1,739              | 49.5    | 1,294                   | 36.8    |

<sup>1</sup>See table A-1 for countries within each region.

**SOURCE:** National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*, special tabulations, and table A-1.

**Figure 2. Number and percent of foreign S&E doctoral recipients with plans to stay in the U. S., by country of origin**



**SOURCE:** National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*, special tabulations, and table A-2.

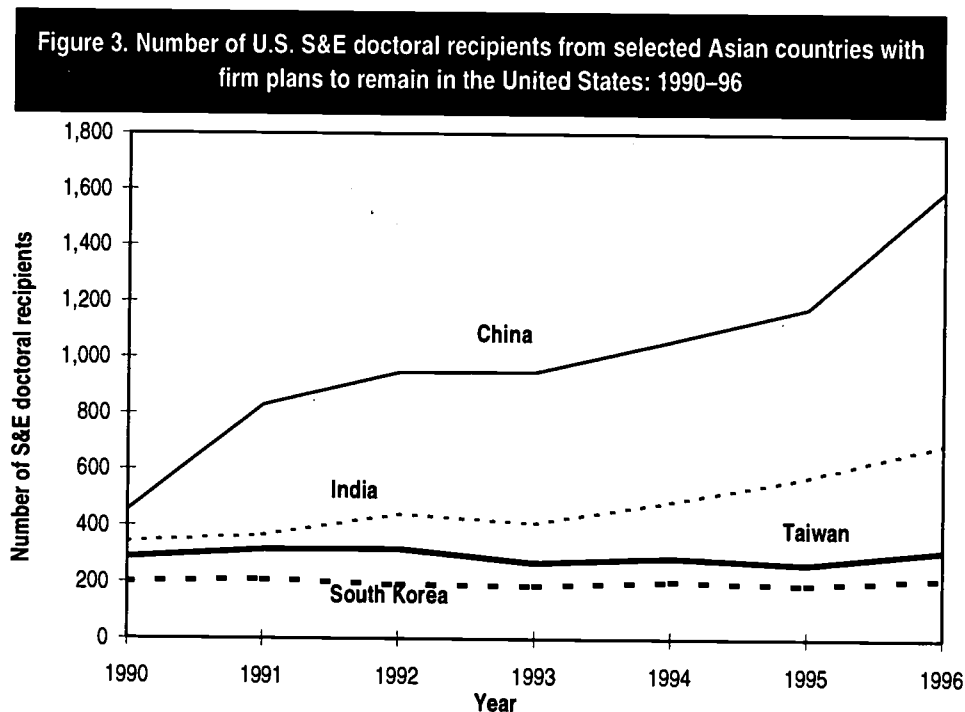
remain in the United States because of improved employment opportunities in their home countries. This is particularly true of South Korean engineering doctoral recipients.<sup>4</sup> However, these trends could change because of deteriorating financial conditions in Asia in 1998. For other countries, notably China, the number of doctoral recipients with firm plans to stay has increased in the 1990s (figure 3).

Before 1988, about half of the foreign students who earned S&E doctoral degrees at U.S. universities planned to locate in the United States after completing their degrees. In the 1990s, however, the proportion with plans to remain in the United States increased to more than 60 percent.<sup>5</sup> Although the increase in the stay rate of Chinese students is largely responsible for the jump in the overall rate of those planning to stay, students from other countries are also contributing to the growing number of those who plan to stay. Undoubtedly, the increase—particularly after 1993—is a reflection of rising employment opportunities made possible by a strong U.S. economy (figure 4).

Information on initial plans to stay in the United States (collected by the SED at the time of graduation) is corroborated by the findings of a recent study of foreign doctoral recipients working and earning wages in the United States.<sup>6</sup> According to this study, the majority of 1990–91 doctoral recipients from India (79 percent) and China (88 percent) were still working in the United States in 1995. In contrast, only 11 percent of South Koreans who earned S&E doctorates from U.S. universities in 1990–91 were working in the United States in 1995.

## EUROPE

The number of European students who completed U.S. doctoral programs between 1988 and 1996 (8,700) is small compared to the number of Asian students who completed U.S. doctoral programs during the same time frame (43,171), even when all Western and Eastern European countries are combined and compared to only four Asian countries. Recently, however, more European students have been taking



**SOURCE:** National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*, special tabulations, and table A-3.

<sup>4</sup> National Science Board, "Higher Education in Science and Engineering," *Science & Engineering Indicators-1998*. Arlington, VA: National Science Foundation, 1998 (NSB98-1).

<sup>5</sup> *Ibid.*

<sup>6</sup> M.G. Finn, "Stay Rates of Foreign Doctorate Recipients from U.S. Universities: 1995," Oak Ridge, TN: Oak Ridge Institute for Science and Education, 1997.

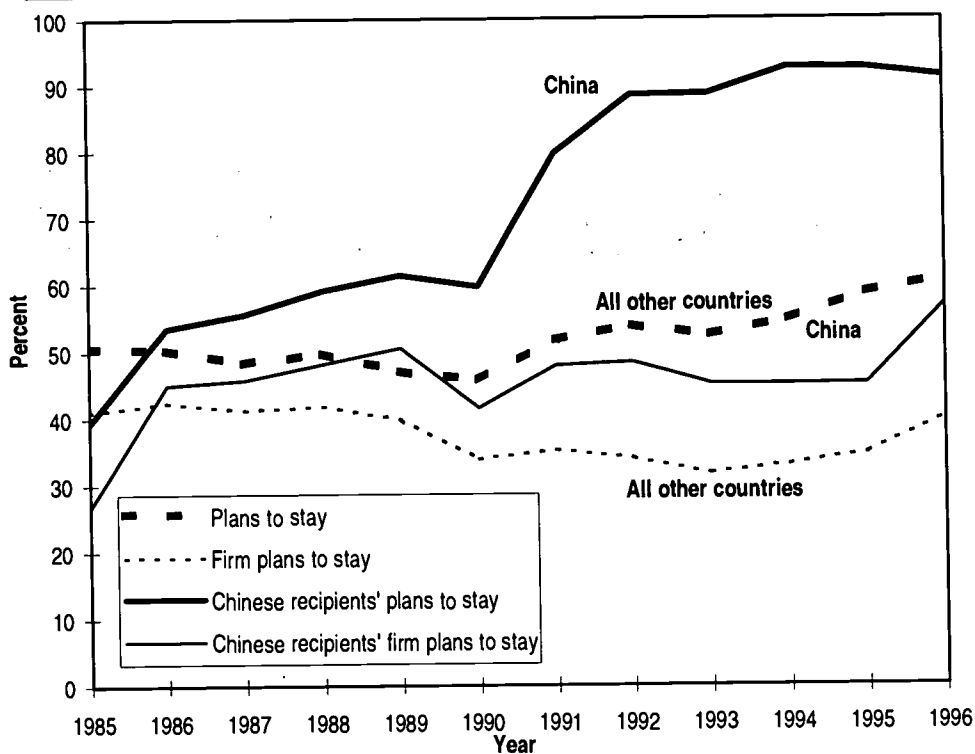
doctoral training at U.S. universities, and a larger proportion of these students is planning to remain in the United States. The United Kingdom and Greece traditionally have been the major countries of origin of European doctoral students in the United States. In recent years, Germany has joined this group.

Relatively few French or Italian students come to the United States for doctoral training compared to the number from other European countries, and relatively few of those plan to remain after completing their degrees (table A-2). However, new Ph.D.s from France have come to the United States temporarily for postdoctoral appointments. In 1995, there were twice as many French postdoctorates (271) as there were French doctoral students (132) in the United States.<sup>7</sup>

## NORTH AMERICA

Within North America, Canada has sent far more S&E doctoral students to U.S. universities than did Mexico. In addition, the number of Canadian students who have earned S&E doctoral degrees in the United States—although smaller than the number from individual Asian countries—is higher than the number from individual European countries. More than half of these doctoral recipients planned to locate in the United States, and 43 percent reported firm offers for further study or work in the United States. Mexico sent relatively few students to U.S. doctoral programs, and a relatively small percentage (similar to that of South Korea) planned to stay in the United States (table A-2).

Figure 4. Percent of U.S. S&E doctoral recipients from China and all other countries with plans to stay in the United States: 1985–96



SOURCE: National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*, special tabulations, and table A-4.

<sup>7</sup> See Damien Terouanne, "Presence Francaise en Science et en Ingenierie Aux Etats-Unis: Cerveaux en fuite ou en voyage?", a joint project between NSF and the French National Committee for Scientific Research (known by its French abbreviation, CNRS), published by CNRS Washington, 1997.

# MAIN ACTIVITY OF FOREIGN DOCTORAL RECIPIENTS WITH PLANS TO STAY IN THE UNITED STATES

From 1988–96, U.S. institutions awarded 55,000 S&E doctoral degrees to persons from the countries covered in this report. Of those students, 39 percent reported firm work or study offers in the United States at the time the SED was conducted (table A-1). Two types of offers were reported: (1) temporary (usually 1–2 years) postdoctoral appointments, and (2) offers of employment positions in industry and other sectors.

## POSTDOCTORAL APPOINTMENTS IN THE UNITED STATES

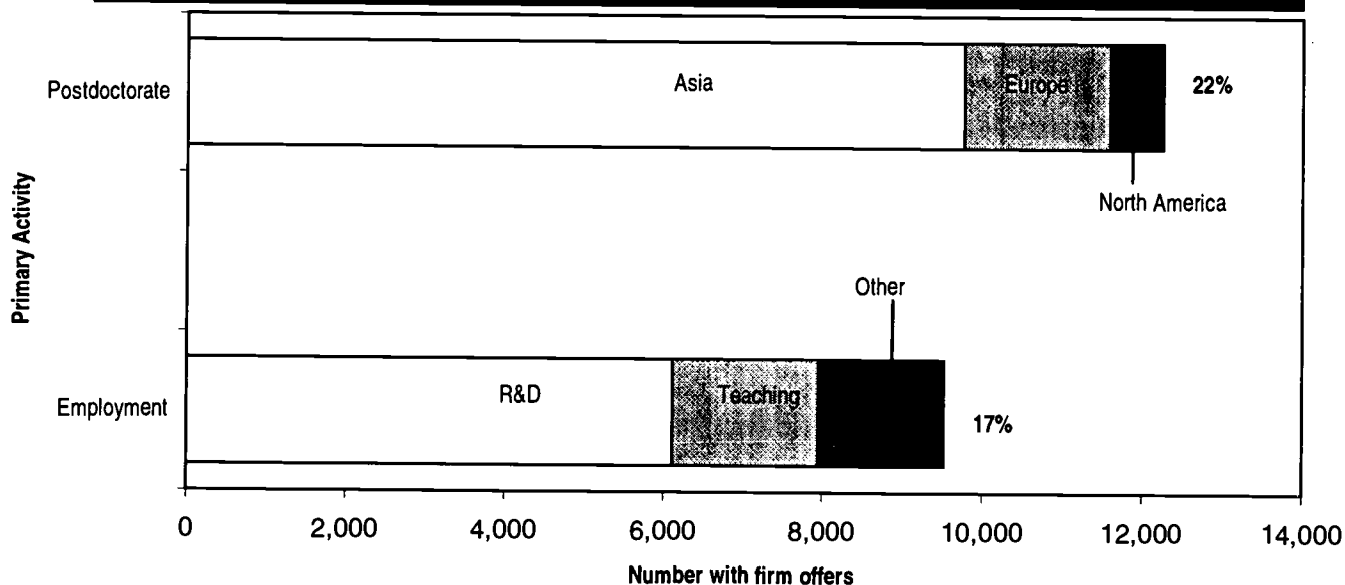
More than half of the students with firm offers reported they were planning to take postdoctoral appointments. This was 22 percent—or 12,000 students—of all 1988–96 foreign doctoral recipients in S&E fields (figure 5). Of these 12,000 students, almost 10,000 were from Asia, almost 2,000 were from Europe, and over 600 were from North America (figure 5 and table A-5).

## EMPLOYMENT POSITIONS IN THE UNITED STATES

About 10,000 students reported receiving firm employment offers in the United States, representing 17 percent of all 1988–96 foreign S&E doctoral recipients (table A-5). Of this group, about 7,000 were from Asia, 1,700 were European, and 600 were from North America. Most of these job offers consisted of employment in research and development (figure 5). Only 3 percent of foreign S&E doctoral recipients receive a firm teaching offer directly after completing their degree. The percentage of teaching offers was somewhat higher (8 percent) for students from the United Kingdom (table A-5).

The primary postgraduation activity reported by foreign doctoral students with firm plans to remain in the United States also differed by country of origin. A large majority of Chinese students received offers of postdoctoral

Figure 5. Number and percent of foreign S&E doctoral recipients with firm offers and plans to stay in the United States, by primary activity: 1988-96



SOURCE: National Science Foundation, Division of Science Resources Studies, Survey of Earned Doctorates, special tabulations, and table A-5.

appointments, probably because the majority earn degrees in the natural sciences, fields in which postdoctoral experiences are common. During the period 1988–96, more than 5,000 Chinese doctoral recipients received postdoctoral appointments (table A-5). In contrast, Indian students were more likely to report permanent employment offers in the United States than postdoctoral appointments. Almost one-third of all S&E doctoral students from India reported receiving firm employment offers in the United States before completing their studies.

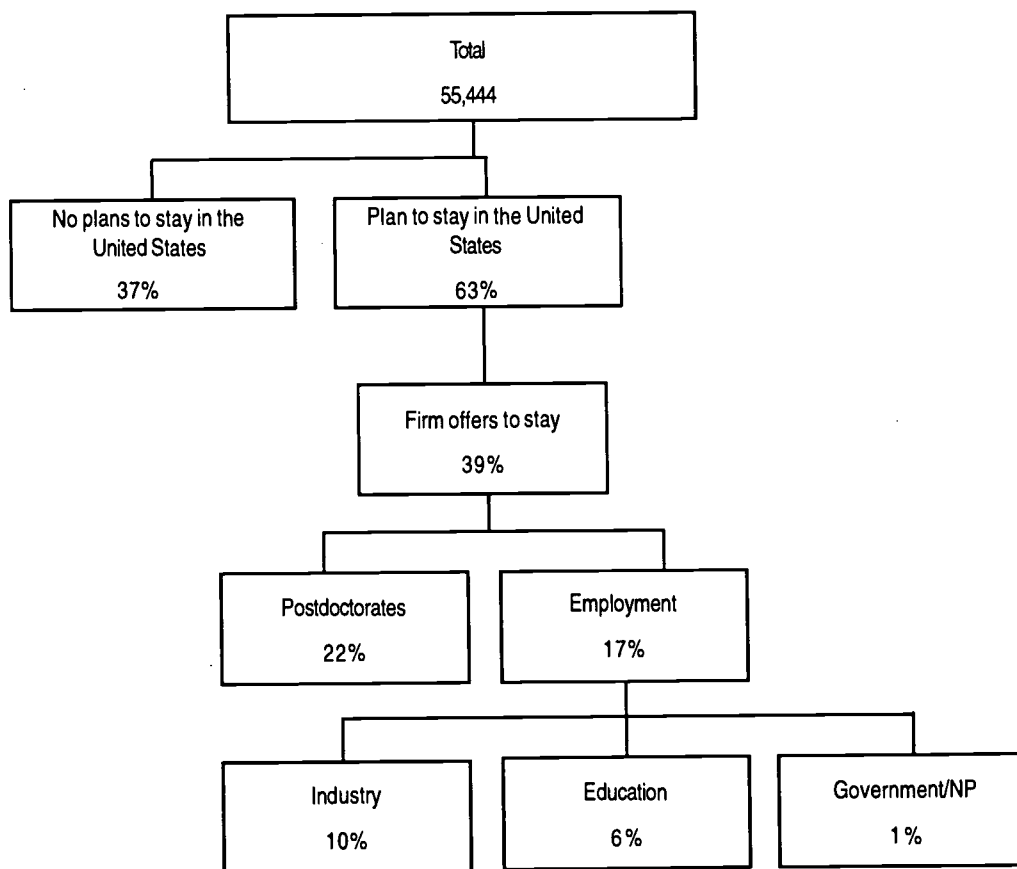
The relatively low stay rates of S&E doctoral recipients from Taiwan and South Korea might be explained in part by those countries' dynamic economies. From 1988–96, these countries were successful in attracting their students to return home. Only a small fraction of Korean doctoral recipients (6 percent) reported firm plans for U.S. employment. Most Koreans who

planned to remain in the United States received offers of temporary postdoctoral appointments. Taiwanese and European students were evenly divided between accepting postdoctoral appointments and employment in the United States.

## TYPE OF EMPLOYER

Industry is the largest employer of foreign S&E doctoral recipients with firm job offers in the United States. Of the almost 10,000 foreign S&E doctoral recipients from 1988–96 who reported firm offers to work in the United States (representing 17 percent of total S&E foreign doctoral recipients), more than half (10 percent of the total) received offers from industry (figure 6). Again, there are differences by country and field. For example, 20 percent of doctoral recipients from India reported receiving firm offers of employment from U.S.

Figure 6. Number and percent of foreign S&E doctoral recipients with plan to stay in the United States: 1988–96



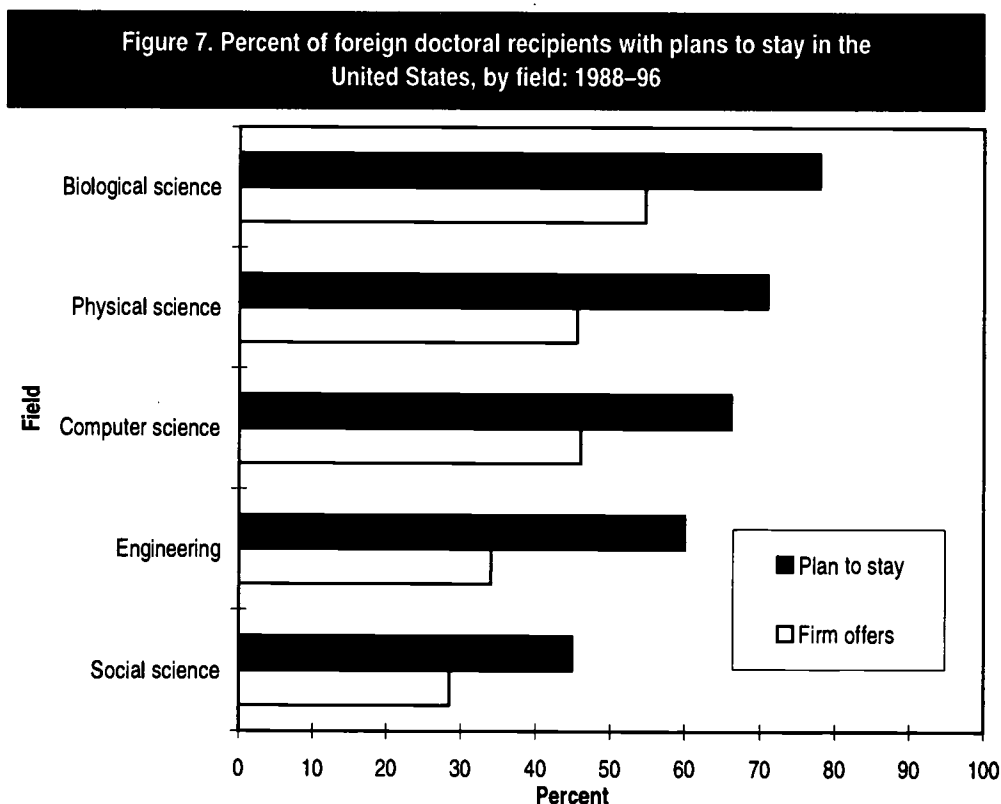
SOURCE: National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*.

industrial firms, nearly—or more than—double the percentages for the other countries covered in this report (table A-6). Although Korea and Taiwan send more students than India to the United States for graduate study in S&E, the percentages of their students receiving firm job offers from U.S. industry are much lower—2.3 percent and 9.8 percent, respectively—than India's.

About 6 percent of the 1988–96 foreign S&E doctoral recipients received academic research or teaching offers from U.S. educational institutions (table A-6). Again, there are differences by country. China and India had the highest absolute numbers of students with these offers (874 and 744, respectively), but the United Kingdom had by far the highest percentage of students with these offers (15.7 percent).

## FIELD OF SCIENCE

The stay rates of foreign doctoral recipients also vary by S&E field. Foreign students earning doctoral degrees in the biological sciences are the most likely to have plans to remain in the United States and to receive firm offers of postdoctoral study to do so. Of the approximately 9,000 foreign students earning doctoral degrees in the biological sciences from 1988–96, 77 percent planned to remain in the United States and 55 percent reported having firm offers (figure 7). Other fields showing relatively high stay rates are the physical sciences and computer sciences. A smaller proportion of foreign doctoral recipients in fields of engineering and the social sciences plans to remain in the United States; this was especially true for Taiwanese and Korean students majoring in engineering.

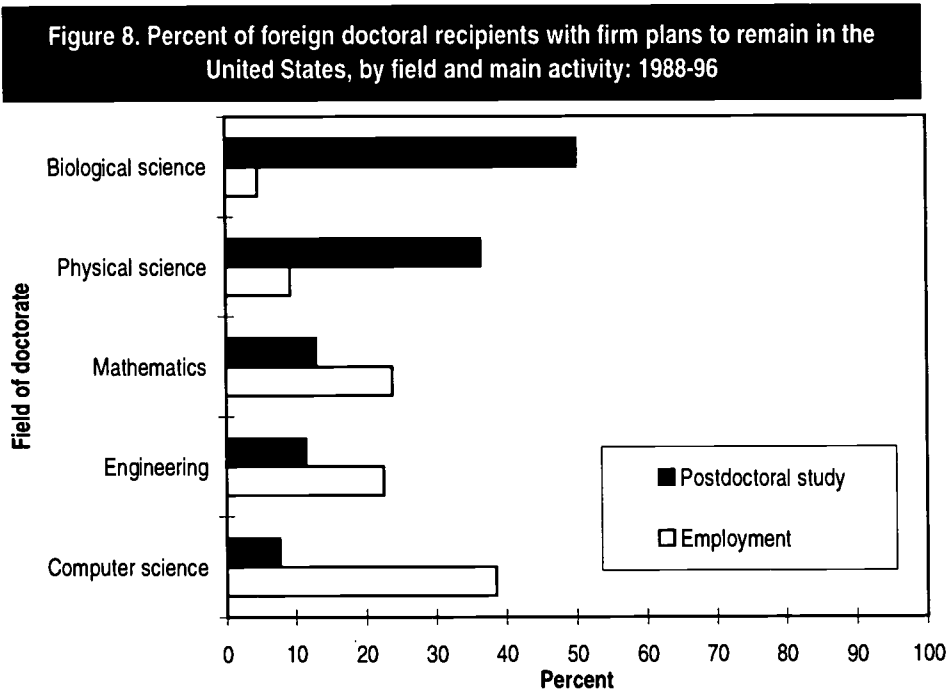


**SOURCE:** National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*, special tabulations, and table A-7.



The decision to accept postdoctoral study is, not surprisingly, greatest in fields in which such further study is a common career path. More than half of all foreign students earning doctoral degrees in the biological sciences plan to remain in the United States for postdoctoral study, whereas only 5 percent report firm job offers (figure 8). In contrast, only 7 percent of computer science majors plan to remain for postdoctoral study, whereas more than 38 percent had employment offers. Those earning Ph.D.s in mathematics also seemed to be in high demand in the United States; most of their employment offers came from universities.

As stated earlier, the majority of U.S. employment offers received by foreign S&E doctoral recipients were from industry; a smaller proportion receives offers from educational institutions. Industry provided the highest numbers of job offers to foreign graduate students majoring in engineering (3,256), physical sciences (713), and computer sciences (591). The highest number of job offers made by educational institutions went to students majoring in psychology and social sciences (1,213), engineering (815), and mathematics (620) (table A-9).



**SOURCE:** National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*, special tabulations, and table A-8.



# SUMMARY AND CONCLUSIONS

The majority of foreign students who earned S&E doctorates from U.S. institutions during 1988–96 planned to locate in the United States, and almost 40 percent reported firm plans for further study or employment. Most of those with firm plans had offers of postdoctoral appointments. The remaining students (17 percent of all foreign S&E doctoral students) had employment offers, mostly from industry. The primary work activity identified in these offers from industry is research and development. Industry was more likely to make offers to new foreign Ph.D.s who majored in engineering, the physical sciences, and computer science than to those who majored in other fields.

Stay rates for foreign students are not static. They are influenced by U.S. immigration policy, the number and quality of job opportunities in the home countries of the students, and political change. The stay rate of foreign doctoral recipients should be closely monitored because it has implications for the U.S. economy and the

concentration of scientists and engineers in the United States as well as on the economies of the nations these students come from. For example, in the 1990s, the number of South Korean and Taiwanese S&E doctoral recipients reporting plans to remain in the United States declined because the economies of South Korea and Taiwan increased those countries' capacities to absorb the majority of the U.S.-trained doctoral scientists and engineers. Whether this trend continues following the Asian economic crisis of 1998 should be monitored. Because China is now the main country of origin of foreign S&E doctoral recipients in the United States, the trend toward increasing stay rates in the 1990s should be followed to see whether it is temporary. Should China succeed in implementing economic reforms that rely heavily on scientific and technological progress, the demand for high-level specialized personnel and the number of new Ph.D.s returning to China may increase substantially.

# APPENDIX A

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**Table A-1. Number and percent of foreign S&E doctoral recipients from major countries of origin with plans to stay in the United States: 1985-96<sup>1</sup>**

| Years     | Total S&E doctoral recipients | Foreign S&E doctoral recipients |                    |         |                         |         |
|-----------|-------------------------------|---------------------------------|--------------------|---------|-------------------------|---------|
|           |                               | Total                           | With plans to stay | Percent | With firm plans to stay | Percent |
| 1985..... | 18,113                        | 2,401                           | 1,201              | 50.0    | 963                     | 40.1    |
| 1986..... | 19,437                        | 2,613                           | 1,322              | 50.6    | 1,111                   | 42.5    |
| 1987..... | 19,894                        | 3,018                           | 1,479              | 49.0    | 1,257                   | 41.7    |
| 1988..... | 20,933                        | 3,383                           | 1,729              | 51.1    | 1,444                   | 42.7    |
| 1989..... | 21,731                        | 3,795                           | 1,873              | 49.4    | 1,575                   | 41.5    |
| 1990..... | 22,867                        | 5,002                           | 2,449              | 49.0    | 1,778                   | 35.5    |
| 1991..... | 24,019                        | 6,167                           | 3,690              | 59.8    | 2,397                   | 38.9    |
| 1992..... | 24,673                        | 6,625                           | 4,274              | 64.5    | 2,541                   | 38.4    |
| 1993..... | 25,441                        | 7,014                           | 4,480              | 63.9    | 2,516                   | 35.9    |
| 1994..... | 26,202                        | 7,590                           | 5,108              | 67.3    | 2,805                   | 37.0    |
| 1995..... | 26,515                        | 7,842                           | 5,533              | 70.6    | 3,000                   | 38.3    |
| 1996..... | 27,230                        | 8,026                           | 5,781              | 72.0    | 3,713                   | 46.3    |

<sup>1</sup> Foreign doctoral recipients from major countries of origin: Asia, Europe, and North America. Asia includes China, India, Japan, South Korea, and Taiwan. Europe includes all Scandinavian, Western, and Eastern European countries. North America includes Canada and Mexico.

**SOURCE:** National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*, special tabulations.

**Table A-2. Number and percent of foreign S&E doctoral recipients with plans to stay in the United States, by selected countries/regions: 1988-96**

| Region/country                        | Foreign S&E doctoral recipients |                    |             |                         |             |
|---------------------------------------|---------------------------------|--------------------|-------------|-------------------------|-------------|
|                                       | Total                           | With plans to stay | Percent     | With firm plans to stay | Percent     |
| <b>Total: Selected countries</b>      | <b>55,444</b>                   | <b>34,917</b>      | <b>63.0</b> | <b>21,779</b>           | <b>39.3</b> |
| Asia.....                             | 43,171                          | 28,280             | 65.5        | 16,964                  | 39.3        |
| China.....                            | 16,550                          | 14,145             | 85.5        | 7,935                   | 47.9        |
| India.....                            | 7,843                           | 6,200              | 79.1        | 4,290                   | 54.7        |
| Korea.....                            | 8,851                           | 3,197              | 36.1        | 2,005                   | 22.7        |
| Taiwan.....                           | 9,927                           | 4,738              | 47.7        | 2,734                   | 27.5        |
| Europe.....                           | 8,760                           | 4,898              | 55.9        | 3,521                   | 40.2        |
| France.....                           | 653                             | 275                | 42.1        | 181                     | 27.7        |
| Germany.....                          | 1,283                           | 714                | 55.7        | 520                     | 40.5        |
| Greece.....                           | 1,343                           | 710                | 52.9        | 494                     | 36.8        |
| Italy.....                            | 658                             | 288                | 43.8        | 198                     | 30.1        |
| United Kingdom.....                   | 1,132                           | 784                | 69.3        | 595                     | 52.6        |
| Other Western European Countries..... | 1,725                           | 870                | 50.4        | 655                     | 38.0        |
| Scandinavian countries.....           | 612                             | 276                | 45.1        | 195                     | 31.9        |
| Eastern Europe.....                   | 1,354                           | 981                | 72.5        | 683                     | 50.4        |
| North America.....                    | 3,513                           | 1,739              | 49.5        | 1,294                   | 36.8        |
| Canada.....                           | 2,387                           | 1,322              | 55.4        | 1,027                   | 43.0        |
| Mexico.....                           | 1,126                           | 417                | 37.0        | 267                     | 23.7        |

**SOURCE:** National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*, special tabulations.

**Table A-3. Foreign S&E doctoral recipients with firm plans to stay in the United States, by year of degree: selected Asian countries**

| Years     | China | India | Taiwan | South Korea |
|-----------|-------|-------|--------|-------------|
| 1990..... | 477   | 342   | 287    | 200         |
| 1991..... | 858   | 365   | 315    | 210         |
| 1992..... | 988   | 442   | 318    | 192         |
| 1993..... | 1,003 | 409   | 269    | 188         |
| 1994..... | 1,138 | 486   | 287    | 204         |
| 1995..... | 1,241 | 573   | 266    | 193         |
| 1996..... | 1,680 | 692   | 314    | 215         |

**SOURCE:** National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*, special tabulations.

**Table A-4. Number and percent of S&E doctoral recipients with plans to stay in the United States, from China and all other countries<sup>1</sup>**

|                                   | Foreign S&E doctoral recipients |                    |         |                               |         |
|-----------------------------------|---------------------------------|--------------------|---------|-------------------------------|---------|
|                                   | Total                           | With plans to stay | Percent | With firm plans plans to stay | Percent |
| <b>All countries except China</b> |                                 |                    |         |                               |         |
| 1985.....                         | 2,266                           | 1,148              | 50.7    | 927                           | 40.9    |
| 1986.....                         | 2,415                           | 1,216              | 50.4    | 1,022                         | 42.3    |
| 1987.....                         | 2,725                           | 1,316              | 48.3    | 1,123                         | 41.2    |
| 1988.....                         | 2,903                           | 1,445              | 49.8    | 1,213                         | 41.8    |
| 1989.....                         | 3,175                           | 1,492              | 47.0    | 1,262                         | 39.7    |
| 1990.....                         | 3,852                           | 1,762              | 45.7    | 1,301                         | 33.8    |
| 1991.....                         | 4,374                           | 2,261              | 51.7    | 1,539                         | 35.2    |
| 1992.....                         | 4,580                           | 2,465              | 53.8    | 1,553                         | 33.9    |
| 1993.....                         | 4,787                           | 2,505              | 52.3    | 1,513                         | 31.6    |
| 1994.....                         | 5,059                           | 2,763              | 54.6    | 1,667                         | 33.0    |
| 1995.....                         | 5,090                           | 2,988              | 58.7    | 1,759                         | 34.6    |
| 1996.....                         | 5,074                           | 3,091              | 60.9    | 2,033                         | 40.1    |
| <b>China</b>                      |                                 |                    |         |                               |         |
| 1985.....                         | 135                             | 53                 | 39.3    | 36                            | 26.7    |
| 1986.....                         | 198                             | 106                | 53.5    | 89                            | 44.9    |
| 1987.....                         | 293                             | 163                | 55.6    | 134                           | 45.7    |
| 1988.....                         | 480                             | 284                | 59.2    | 231                           | 48.1    |
| 1989.....                         | 620                             | 381                | 61.5    | 313                           | 50.5    |
| 1990.....                         | 1,150                           | 687                | 59.7    | 477                           | 41.5    |
| 1991.....                         | 1,793                           | 1,429              | 79.7    | 858                           | 47.9    |
| 1992.....                         | 2,045                           | 1,809              | 88.5    | 988                           | 48.3    |
| 1993.....                         | 2,227                           | 1,975              | 88.7    | 1,003                         | 45.0    |
| 1994.....                         | 2,531                           | 2,345              | 92.6    | 1,138                         | 45.0    |
| 1995.....                         | 2,752                           | 2,545              | 92.5    | 1,241                         | 45.1    |
| 1996.....                         | 2,952                           | 2,690              | 91.1    | 1,680                         | 56.9    |

<sup>1</sup> Foreign doctoral recipients from selected countries of Asia, Europe, and North America. Asia includes India, Japan, South Korea, and Taiwan. Europe includes all Scandinavian, Western, and Eastern European countries. North America includes Canada and Mexico.

**SOURCE:** National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*, special tabulations.

**Table A-5. Number and percent of foreign S&E doctoral recipients with firm plans to stay in the United States, by primary activity and region/country: 1988-96**

| Region/country                   | Total foreign S&E doctorates | Total with firm plans | Percent     | Primary activity   |             |              |             |              |             |              |            |              |            |
|----------------------------------|------------------------------|-----------------------|-------------|--------------------|-------------|--------------|-------------|--------------|-------------|--------------|------------|--------------|------------|
|                                  |                              |                       |             | Postdoctoral study |             | Employment   |             | R&D          |             | Teaching     |            | Other        |            |
|                                  |                              |                       |             | Number             | Percent     | Number       | Percent     | Number       | Percent     | Number       | Percent    | Number       | Percent    |
| <b>Total</b>                     | <b>55,444</b>                | <b>21,770</b>         | <b>39.3</b> | <b>12,252</b>      | <b>22.1</b> | <b>9,517</b> | <b>17.2</b> | <b>6,116</b> | <b>11.0</b> | <b>1,566</b> | <b>2.8</b> | <b>1,837</b> | <b>3.3</b> |
| Asia                             | 43,171                       | 16,956                | 39.3        | 9,766              | 22.6        | 7,189        | 16.7        | 4,812        | 11.1        | 985          | 2.3        | 1,394        | 3.2        |
| China                            | 16,550                       | 7,930                 | 47.9        | 5,085              | 30.7        | 2,845        | 17.2        | 1,866        | 11.3        | 345          | 2.1        | 633          | 3.8        |
| India                            | 7,843                        | 4,291                 | 54.7        | 1,828              | 23.3        | 2,463        | 31.4        | 1,634        | 20.8        | 359          | 4.6        | 470          | 6.0        |
| Korea                            | 8,851                        | 2,002                 | 22.6        | 1,505              | 17.0        | 497          | 5.6         | 311          | 3.5         | 128          | 1.4        | 60           | 0.7        |
| Taiwan                           | 9,927                        | 2,733                 | 27.5        | 1,348              | 13.6        | 1,384        | 13.9        | 1,001        | 10.1        | 153          | 1.5        | 231          | 2.3        |
| Europe                           | 8,760                        | 3,520                 | 40.2        | 1,822              | 20.8        | 1,698        | 19.4        | 980          | 11.2        | 430          | 4.9        | 286          | 3.3        |
| France                           | 653                          | 181                   | 27.7        | 85                 | 13.0        | 96           | 14.7        | 61           | 9.3         | 23           | 3.5        | 12           | 1.8        |
| Germany                          | 1,283                        | 520                   | 40.5        | 285                | 22.2        | 235          | 18.3        | 130          | 10.1        | 64           | 5.0        | 41           | 3.2        |
| Greece                           | 1,343                        | 494                   | 36.8        | 227                | 16.9        | 267          | 19.9        | 153          | 11.4        | 72           | 5.4        | 42           | 3.1        |
| Italy                            | 658                          | 198                   | 30.1        | 94                 | 14.3        | 104          | 15.8        | 59           | 9.0         | 25           | 3.8        | 20           | 3.0        |
| United Kingdom                   | 1,132                        | 595                   | 52.6        | 302                | 26.7        | 293          | 25.9        | 139          | 12.3        | 92           | 8.1        | 62           | 5.5        |
| Other Western European countries | 1,725                        | 655                   | 38.0        | 345                | 20.0        | 310          | 18.0        | 193          | 11.2        | 69           | 4.0        | 48           | 2.8        |
| Scandinavian countries           | 612                          | 195                   | 31.9        | 96                 | 15.7        | 99           | 16.2        | 60           | 9.8         | 19           | 3.1        | 20           | 3.3        |
| Eastern Europe                   | 1,354                        | 682                   | 50.4        | 388                | 28.7        | 294          | 21.7        | 185          | 13.7        | 66           | 4.9        | 43           | 3.2        |
| North America                    | 3,513                        | 1,294                 | 36.8        | 664                | 18.9        | 630          | 17.9        | 324          | 9.2         | 151          | 4.3        | 155          | 4.4        |
| Canada                           | 2,387                        | 1,027                 | 43.0        | 523                | 21.9        | 504          | 21.1        | 257          | 10.8        | 117          | 4.9        | 130          | 5.4        |
| Mexico                           | 1,126                        | 267                   | 23.7        | 141                | 12.5        | 126          | 11.2        | 67           | 6.0         | 34           | 3.0        | 25           | 2.2        |

SOURCE: National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*, special tabulations.

**Table A-6. Number and percent of foreign S&E doctoral recipients with firm employment offers in the United States, by type of employer and region/country of origin: 1988-96**

| Region/country              | Total         | Foreign S&E doctorates     |             | Type of employer        |            |                   |            |                                 |            |
|-----------------------------|---------------|----------------------------|-------------|-------------------------|------------|-------------------|------------|---------------------------------|------------|
|                             |               | With firm employment offer | Percent     | Educational institution | Percent    | Business/industry | Percent    | Government, nonprofit and other | Percent    |
| <b>Total</b> .....          | <b>55,444</b> | <b>9,517</b>               | <b>17.2</b> | <b>3,480</b>            | <b>6.3</b> | <b>5,298</b>      | <b>9.6</b> | <b>738</b>                      | <b>1.3</b> |
| Asia.....                   | 43,171        | 7,189                      | 16.7        | 2,210                   | 5.1        | 4,481             | 10.4       | 497                             | 1.2        |
| China.....                  | 16,550        | 2,845                      | 17.2        | 874                     | 5.3        | 1,738             | 10.5       | 232                             | 1.4        |
| India.....                  | 7,843         | 2,463                      | 31.4        | 744                     | 9.5        | 1,565             | 20.0       | 154                             | 2.0        |
| Korea.....                  | 8,851         | 497                        | 5.6         | 248                     | 2.8        | 206               | 2.3        | 43                              | 0.5        |
| Taiwan.....                 | 9,927         | 1,384                      | 13.9        | 344                     | 3.5        | 972               | 9.8        | 68                              | 0.7        |
| Europe.....                 | 8,760         | 1,698                      | 19.4        | 951                     | 10.9       | 577               | 6.6        | 170                             | 1.9        |
| France.....                 | 653           | 96                         | 14.7        | 40                      | 6.1        | 44                | 6.7        | 12                              | 1.8        |
| Germany.....                | 1,283         | 235                        | 18.3        | 143                     | 11.1       | 66                | 5.1        | 26                              | 2.0        |
| Greece.....                 | 1,343         | 267                        | 19.9        | 148                     | 11.0       | 110               | 8.2        | 9                               | 0.7        |
| Italy.....                  | 658           | 104                        | 15.8        | 70                      | 10.6       | 20                | 3.0        | 14                              | 2.1        |
| United Kingdom.....         | 1,132         | 293                        | 25.9        | 178                     | 15.7       | 75                | 6.6        | 40                              | 3.5        |
| Other Western               |               |                            |             |                         |            |                   |            |                                 |            |
| European countries.....     | 1,725         | 310                        | 18.0        | 169                     | 9.8        | 105               | 6.1        | 36                              | 2.1        |
| Scandinavian countries..... | 612           | 99                         | 16.2        | 51                      | 8.3        | 34                | 5.6        | 14                              | 2.3        |
| Eastern Europe.....         | 1,354         | 294                        | 21.7        | 152                     | 11.2       | 123               | 9.1        | 19                              | 1.4        |
| North America.....          | 3,513         | 630                        | 17.9        | 319                     | 9.1        | 240               | 6.8        | 71                              | 2.0        |
| Canada.....                 | 2,387         | 504                        | 21.1        | 257                     | 10.8       | 191               | 8.0        | 56                              | 2.3        |
| Mexico.....                 | 1,126         | 126                        | 11.2        | 62                      | 5.5        | 49                | 4.4        | 15                              | 1.3        |

SOURCE: National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*, special tabulations.

**Table A-7. Number and percent of foreign S&E doctoral recipients with plans to stay in the United States, by field: 1988-96**

| Field                               | Foreign S&E doctorates |                    |             |                         |             |
|-------------------------------------|------------------------|--------------------|-------------|-------------------------|-------------|
|                                     | Total                  | With plans to stay | Percent     | With firm plans to stay | Percent     |
| <b>Total S&amp;E</b>                | <b>55,444</b>          | <b>34,917</b>      | <b>63.0</b> | <b>21,770</b>           | <b>39.3</b> |
| Physical sciences.....              | 9,874                  | 6,968              | 70.6        | 4,510                   | 45.7        |
| Earth sciences.....                 | 1,541                  | 968                | 62.8        | 555                     | 36.0        |
| Mathematics.....                    | 3,490                  | 2,134              | 61.1        | 1,284                   | 36.8        |
| Computer sciences.....              | 2,613                  | 1,734              | 66.4        | 1,206                   | 46.2        |
| Engineering.....                    | 19,030                 | 11,484             | 60.3        | 6,474                   | 34.0        |
| Biological sciences.....            | 9,149                  | 7,092              | 77.5        | 5,001                   | 54.7        |
| Agricultural sciences.....          | 2,050                  | 1,042              | 50.8        | 550                     | 26.8        |
| Psychology/<br>social sciences..... | 7,697                  | 3,495              | 45.4        | 2,189                   | 28.4        |

SOURCE: National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*, special tabulations.

**Table A-8. Number and percent of foreign S&E doctoral recipients with firm offers to stay in the United States, by field and main activity: 1988-96**

| Field                               | Foreign S&E doctorates    |                        |               | Firm offers              |               |             |              |             | Firm employment by type of activity |             |              |            |              |
|-------------------------------------|---------------------------|------------------------|---------------|--------------------------|---------------|-------------|--------------|-------------|-------------------------------------|-------------|--------------|------------|--------------|
|                                     | Total                     | Total with firm offers | Percent       | Postdoctoral appointment | Percent       | Employment  | Percent      | R&D         | Percent                             | Teaching    | Percent      | Other      | Percent      |
|                                     | <b>Total S&amp;E.....</b> | <b>55,444</b>          | <b>21,770</b> | <b>39.3</b>              | <b>12,252</b> | <b>22.1</b> | <b>9,518</b> | <b>17.2</b> | <b>6,116</b>                        | <b>11.0</b> | <b>1,566</b> | <b>2.8</b> | <b>1,835</b> |
| Physical sciences.....              | 9,874                     | 4,510                  | 45.7          | 3,590                    | 36.4          | 920         | 9.3          | 687         | 7.0                                 | 61          | 0.6          | 172        | 1.7          |
| Earth sciences.....                 | 1,541                     | 555                    | 36.0          | 371                      | 24.1          | 184         | 11.9         | 107         | 6.9                                 | 17          | 1.1          | 80         | 5.2          |
| Mathematics.....                    | 3,490                     | 1,284                  | 36.8          | 453                      | 13.0          | 831         | 23.8         | 366         | 10.5                                | 294         | 8.4          | 171        | 4.9          |
| Computer sciences.....              | 2,613                     | 1,206                  | 46.2          | 199                      | 7.6           | 1,007       | 38.5         | 710         | 27.2                                | 176         | 6.7          | 121        | 4.6          |
| Engineering.....                    | 19,030                    | 6,474                  | 34.0          | 2,195                    | 11.5          | 4,279       | 22.5         | 3,176       | 16.7                                | 365         | 1.9          | 738        | 3.9          |
| Biological sciences.....            | 9,149                     | 5,001                  | 54.7          | 4,580                    | 50.1          | 421         | 4.6          | 258         | 2.8                                 | 54          | 0.6          | 109        | 1.2          |
| Agricultural sciences.....          | 2,050                     | 550                    | 26.8          | 410                      | 20.0          | 150         | 7.3          | 103         | 5.0                                 | 14          | 0.7          | 33         | 1.6          |
| Psychology/<br>social sciences..... | 7,697                     | 2,189                  | 28.4          | 464                      | 6.0           | 1,725       | 22.4         | 709         | 9.2                                 | 589         | 7.7          | 427        | 5.5          |

**SOURCE:** National Science Foundation, Division of Science Resources Studies, *Survey of Eamed Doctorates*, special tabulations.



Table A-9. Number and percent of foreign S&E doctoral recipients with firm employment offers, by field and type of employer: 1988-96

| Field                               | Foreign S&E doctorates |                        |             | Type of employer |            |              |            |                              |            |
|-------------------------------------|------------------------|------------------------|-------------|------------------|------------|--------------|------------|------------------------------|------------|
|                                     | Total                  | With employment offers | Percent     | Education        | Percent    | Industry     | Percent    | Government/private nonprofit | Percent    |
| <b>All S&amp;E fields.....</b>      | <b>55,444</b>          | <b>9,518</b>           | <b>17.2</b> | <b>3,480</b>     | <b>6.3</b> | <b>5,298</b> | <b>9.6</b> | <b>739</b>                   | <b>1.3</b> |
| Physical sciences.....              | 9,874                  | 920                    | 9.3         | 141              | 1.4        | 713          | 7.2        | 66                           | 0.7        |
| Earth sciences.....                 | 1,541                  | 184                    | 11.9        | 49               | 3.2        | 104          | 6.7        | 31                           | 2.0        |
| Mathematics.....                    | 3,490                  | 831                    | 23.8        | 620              | 17.8       | 189          | 5.4        | 22                           | 0.6        |
| Computer sciences.....              | 2,613                  | 1,007                  | 38.5        | 391              | 15         | 591          | 22.6       | 25                           | 1.0        |
| Engineering.....                    | 19,030                 | 4,279                  | 22.5        | 815              | 4.3        | 3,256        | 17.1       | 208                          | 1.1        |
| Biological sciences.....            | 9,149                  | 421                    | 4.6         | 208              | 2.3        | 146          | 1.6        | 67                           | 0.7        |
| Agricultural sciences .....         | 2,050                  | 150                    | 7.3         | 43               | 2.1        | 88           | 4.3        | 19                           | 0.9        |
| Psychology/<br>social sciences..... | 7,696                  | 1,725                  | 22.4        | 1,213            | 15.8       | 211          | 2.7        | 301                          | 3.9        |

SOURCE: National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*, special tabulations.

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Table B-1. Statistical profile of doctorate recipients from Canada, by major field of doctorate: 1988-96

| Item  | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric, and Ocean Sciences | Mathematics | Computer/Information Sciences | Engineering | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education  | Health Sciences | Professional and Other Fields |
|---|------------------|-------------------------------|-------------------|--|-------------|-------------------------------|-------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|------------|-----------------|-------------------------------|
| <b>Total Number of Ph.D.s<sup>1</sup></b>         | <b>4,156</b>     | <b>2,387</b>                  | <b>322</b>        | <b>90</b>                              | <b>125</b>  | <b>76</b>                     | <b>371</b>  | <b>513</b>          | <b>107</b>            | <b>783</b>                     | <b>1,769</b>                | <b>637</b> | <b>577</b> | <b>191</b>      | <b>364</b>                    |
| Percent men.....                                  | 63.6             | 69.8                          | 86.0              | 75.6                                   | 79.2        | 84.2                          | 89.5        | 62.0                | 69.2                  | 55.4                           | 55.3                        | 58.9       | 50.6       | 28.8            | 70.6                          |
| Percent women.....                                | 36.4             | 30.2                          | 14.0              | 24.4                                   | 20.8        | 15.8                          | 10.5        | 38.0                | 30.8                  | 44.6                           | 44.7                        | 41.1       | 49.4       | 71.2            | 29.4                          |
| Percent with permanent visa.....                  | 26.0             | 24.8                          | 19.9              | 23.3                                   | 12.0        | 27.6                          | 21.0        | 30.0                | 12.2                  | 28.7                           | 27.6                        | 28.4       | 27.9       | 27.7            | 25.5                          |
| Percent with temporary visa.....                  | 74.0             | 75.2                          | 80.1              | 76.7                                   | 88.0        | 72.4                          | 79.0        | 70.0                | 87.9                  | 71.3                           | 72.4                        | 71.6       | 72.1       | 72.3            | 74.5                          |
| Percent married.....                              | 49.1             | 44.7                          | 36.3              | 50.0                                   | 32.8        | 48.7                          | 44.5        | 47.0                | 49.5                  | 46.9                           | 55.1                        | 47.1       | 61.7       | 52.9            | 59.6                          |
| Percent not married.....                          | 45.0             | 50.5                          | 59.3              | 48.9                                   | 63.2        | 46.1                          | 53.1        | 48.3                | 46.7                  | 46.1                           | 37.5                        | 44.0       | 30.8       | 41.4            | 34.9                          |
| Percent unknown.....                              | 5.9              | 4.9                           | 4.3               | 1.1                                    | 4.0         | 5.3                           | 2.4         | 4.7                 | 3.7                   | 7.0                            | 7.4                         | 8.9        | 7.5        | 5.8             | 5.5                           |
| Median age at Ph.D. in years.....                 | 32.8             | 30.8                          | 28.7              | 31.8                                   | 28.9        | 30.7                          | 29.9        | 31.3                | 31.9                  | 32.8                           | 37.3                        | 33.4       | 43.3       | 37.3            | 36.5                          |
| Percent with dependents.....                      | 32.3             | 25.5                          | 18.3              | 26.7                                   | 19.2        | 31.6                          | 28.6        | 23.4                | 30.8                  | 27.8                           | 41.4                        | 28.3       | 52.2       | 37.7            | 49.5                          |
| Percent receiving sources of support <sup>2</sup> |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |            |                 |                               |
| Personal.....                                     | 71.3             | 61.2                          | 39.1              | 53.3                                   | 45.6        | 63.2                          | 57.4        | 58.5                | 59.8                  | 77.1                           | 84.9                        | 78.7       | 92.0       | 86.9            | 83.2                          |
| Foreign government.....                           | 28.2             | 32.1                          | 36.6              | 35.6                                   | 40.8        | 35.5                          | 27.5        | 26.1                | 31.8                  | 34.4                           | 23.0                        | 31.4       | 8.3        | 29.8            | 27.7                          |
| University.....                                   | 82.1             | 88.2                          | 95.3              | 95.6                                   | 93.6        | 92.1                          | 92.5        | 87.5                | 82.2                  | 82.4                           | 73.9                        | 87.9       | 56.7       | 71.7            | 78.0                          |
| Teaching assistant.....                           | 52.3             | 53.0                          | 63.4              | 54.4                                   | 82.4        | 56.6                          | 41.8        | 48.1                | 22.4                  | 56.1                           | 51.4                        | 74.4       | 29.5       | 40.3            | 51.6                          |
| Research assistant.....                           | 49.8             | 65.5                          | 87.0              | 80.0                                   | 59.2        | 80.3                          | 86.8        | 63.9                | 73.8                  | 44.4                           | 28.6                        | 16.0       | 26.0       | 46.6            | 45.3                          |
| Other university.....                             | 29.6             | 28.2                          | 21.4              | 22.2                                   | 24.8        | 15.8                          | 20.2        | 31.2                | 21.5                  | 36.3                           | 31.5                        | 47.4       | 18.0       | 22.0            | 30.2                          |
| Other.....  | 19.9             | 17.3                          | 7.8               | 18.9                                   | 12.0        | 21.1                          | 17.0        | 18.3                | 12.2                  | 21.7                           | 23.4                        | 22.0       | 19.6       | 33.5            | 26.6                          |
| Unknown.....                                      | 3.7              | 3.3                           | 2.8               | 1.1                                    | 4.0         | 0.0                           | 1.9         | 3.5                 | 2.8                   | 4.5                            | 4.4                         | 5.5        | 4.5        | 1.6             | 3.6                           |
| Median years from baccalaureate to Ph.D.          |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |            |                 |                               |
| Total time in years.....                          | 9.3              | 7.9                           | 6.4               | 9.0                                    | 6.2         | 8.2                           | 7.0         | 8.2                 | 8.9                   | 9.1                            | 13.0                        | 10.0       | 18.6       | 13.0            | 12.6                          |
| Registered time.....                              | 7.0              | 6.6                           | 6.0               | 7.2                                    | 5.9         | 7.3                           | 6.0         | 7.0                 | 6.6                   | 7.2                            | 7.4                         | 7.8        | 7.2        | 7.6             | 7.3                           |

See explanatory information, if any, and SOURCE at end of table.

Table B-1. Statistical profile of doctorate recipients from Canada, by major field of doctorate: 1988-96

| Item   | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric, and Ocean Sciences | Mathematics | Computer/Information Sciences | Engineering | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education | Health Sciences | Professional and Other Fields |
|--|------------------|-------------------------------|-------------------|--|-------------|-------------------------------|-------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|-----------|-----------------|-------------------------------|
| <b>Planned location after Ph.D.</b>                              |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Number with permanent visas                                      | 1,079            | 591                           | 64                | 21                                     | 15          | 21                            | 78          | 154                 | 13                    | 225                            | 488                         | 181        | 161       | 53              | 93                            |
| U.S. total: percent  | 75.4             | 78.0                          | 81.3              | 81.0                                   | 73.3        | 90.5                          | 80.8        | 81.8                | 61.5                  | 73.3                           | 72.1                        | 75.7       | 65.2      | 83.0            | 71.0                          |
| Study  | 27.1             | 41.9                          | 59.6              | 76.5                                   | 9.1         | 5.3                           | 20.6        | 79.4                | 37.5                  | 18.8                           | 7.7                         | 5.8        | 6.7       | 27.3            | 0.0                           |
| Employment   | 71.1             | 56.8                          | 40.4              | 23.5                                   | 90.9        | 94.7                          | 76.2        | 20.6                | 62.5                  | 78.8                           | 89.8                        | 88.3       | 92.4      | 72.7            | 100.0                         |
| Unknown  | 1.9              | 1.3                           | 0.0               | 0.0                                    | 0.0         | 0.0                           | 3.2         | 0.0                 | 0.0                   | 2.4                            | 2.6                         | 5.8        | 1.0       | 0.0             | 0.0                           |
| Non-U.S.   | 16.1             | 13.7                          | 17.2              | 4.8                                    | 26.7        | 9.5                           | 11.5        | 11.7                | 23.1                  | 14.7                           | 19.1                        | 17.1       | 21.7      | 15.1            | 20.4                          |
| Unknown location   | 8.5              | 8.3                           | 1.6               | 14.3                                   | 0.0         | 0.0                           | 7.7         | 6.5                 | 15.4                  | 12.0                           | 8.8                         | 7.2        | 13.0      | 1.9             | 8.6                           |
| Number with temporary visas                                      | 3,077            | 1,796                         | 258               | 69                                     | 110         | 55                            | 293         | 359                 | 94                    | 558                            | 1,281                       | 456        | 416       | 138             | 271                           |
| U.S. total: percent  | 38.4             | 47.9                          | 62.4              | 39.1                                   | 49.1        | 58.2                          | 52.2        | 54.9                | 30.9                  | 37.3                           | 24.9                        | 31.8       | 14.2      | 26.1            | 29.2                          |
| Study  | 42.3             | 51.9                          | 75.2              | 63.0                                   | 46.3        | 28.1                          | 27.5        | 81.2                | 58.6                  | 26.9                           | 16.3                        | 19.3       | 16.9      | 33.3            | 2.5                           |
| Employment   | 56.6             | 47.2                          | 23.6              | 37.0                                   | 50.0        | 71.9                          | 71.9        | 17.8                | 41.4                  | 72.6                           | 82.1                        | 80.0       | 79.7      | 66.7            | 94.9                          |
| Unknown  | 1.1              | 0.9                           | 1.2               | 0.0                                    | 3.7         | 0.0                           | 0.7         | 1.0                 | 0.0                   | 0.5                            | 1.6                         | 0.7        | 3.4       | 0.0             | 2.5                           |
| Non-U.S.   | 53.6             | 44.4                          | 31.8              | 56.5                                   | 40.9        | 36.4                          | 38.9        | 38.4                | 62.8                  | 53.9                           | 66.5                        | 55.9       | 77.6      | 66.7            | 67.2                          |
| Unknown location   | 8.0              | 7.6                           | 5.8               | 4.3                                    | 10.0        | 5.5                           | 8.9         | 6.7                 | 6.4                   | 8.8                            | 8.6                         | 12.3       | 8.2       | 7.2             | 3.7                           |
| <b>Number planning location in the United States after Ph.D.</b> | 1,993            | 1,322                         | 213               | 44                                     | 65          | 51                            | 216         | 323                 | 37                    | 373                            | 671                         | 282        | 164       | 80              | 145                           |
| Percent with definite postdoctoral study                         | 28.7             | 39.6                          | 60.6              | 54.5                                   | 32.3        | 17.6                          | 18.1        | 67.2                | 40.5                  | 18.5                           | 7.3                         | 7.4        | 6.1       | 20.0            | 1.4                           |
| Percent with definite employment                                 | 45.8             | 38.1                          | 21.6              | 22.7                                   | 43.1        | 60.8                          | 54.6        | 13.9                | 35.1                  | 57.1                           | 60.8                        | 58.5       | 59.1      | 45.0            | 75.9                          |
| Percent seeking postdoctoral study                               | 7.4              | 8.9                           | 10.8              | 13.6                                   | 7.7         | 2.0                           | 7.4         | 13.3                | 13.5                  | 4.8                            | 4.5                         | 5.3        | 4.3       | 10.0            | 0.0                           |
| Percent seeking employment                                       | 16.8             | 12.4                          | 6.1               | 9.1                                    | 13.8        | 19.6                          | 18.5        | 5.0                 | 10.8                  | 18.2                           | 25.3                        | 25.5       | 28.7      | 25.0            | 21.4                          |
| Percent with postdoctoral plans unknown                          | 1.4              | 1.1                           | 0.9               | 0.0                                    | 3.1         | 0.0                           | 1.4         | 0.6                 | 0.0                   | 1.3                            | 2.1                         | 3.2        | 1.8       | 0.0             | 1.4                           |

See explanatory information, if any, and SOURCE at end of table.

Table B-1. Statistical profile of doctorate recipients from Canada, by major field of doctorate: 1988-96

| Item   | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric, and Ocean Sciences | Mathematics | Computer/Information Sciences | Engineering | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education | Health Sciences | Professional and Other Fields |  |
|--|------------------|-------------------------------|-------------------|--|-------------|-------------------------------|-------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|-----------|-----------------|-------------------------------|--|
| Number with definite employment plans in United States after Ph.D. | 912              | 504                           | 46                | 10                                     | 28          | 31                            | 118         | 45                  | 13                    | 213                            | 408                         | 165        | 97        | 36              | 110                           |  |
| Primary work activity: percent                                     |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |  |
| R&D.....   | 37.6             | 51.0                          | 73.9              | 30.0                                   | 25.0        | 74.2                          | 71.2        | 44.4                | 76.9                  | 35.7                           | 21.1                        | 9.7        | 8.2       | 33.3            | 45.5                          |  |
| Teaching.....  | 36.8             | 23.2                          | 15.2              | 30.0                                   | 39.3        | 19.4                          | 12.7        | 26.7                | 15.4                  | 28.6                           | 53.7                        | 75.2       | 43.3      | 38.9            | 35.5                          |  |
| Administrative.....  | 3.7              | 1.8                           | 0.0               | 0.0                                    | 0.0         | 0.0                           | 3.4         | 2.2                 | 0.0                   | 1.9                            | 6.1                         | 0.6        | 14.4      | 13.9            | 4.5                           |  |
| Professional services.....   | 10.1             | 12.9                          | 2.2               | 40.0                                   | 21.4        | 0.0                           | 6.8         | 11.1                | 7.7                   | 18.8                           | 6.6                         | 1.2        | 18.6      | 8.3             | 3.6                           |  |
| Other.....   | 2.5              | 2.0                           | 2.2               | 0.0                                    | 0.0         | 0.0                           | 3.4         | 4.4                 | 0.0                   | 1.4                            | 3.2                         | 4.8        | 3.1       | 0.0             | 1.8                           |  |
| Unknown.....   | 9.2              | 9.1                           | 6.5               | 0.0                                    | 14.3        | 6.5                           | 2.5         | 11.1                | 0.0                   | 13.6                           | 9.3                         | 8.5        | 12.4      | 5.6             | 9.1                           |  |
| Type of employer: percent  |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |  |
| Educational institution <sup>3</sup> .....                         | 66.7             | 51.0                          | 26.1              | 40.0                                   | 82.1        | 54.8                          | 26.3        | 51.1                | 30.8                  | 67.1                           | 86.0                        | 92.1       | 79.4      | 72.2            | 87.3                          |  |
| Industry/business.....   | 23.1             | 37.9                          | 67.4              | 60.0                                   | 17.9        | 38.7                          | 71.2        | 31.1                | 69.2                  | 14.1                           | 4.9                         | 4.2        | 4.1       | 5.6             | 6.4                           |  |
| Government.....  | 2.2              | 3.0                           | 2.2               | 0.0                                    | 0.0         | 6.5                           | 1.7         | 6.7                 | 0.0                   | 3.3                            | 1.2                         | 0.0        | 2.1       | 2.8             | 1.8                           |  |
| Nonprofit.....   | 6.6              | 6.4                           | 4.3               | 0.0                                    | 0.0         | 0.0                           | 0.8         | 11.1                | 0.0                   | 11.3                           | 6.9                         | 2.4        | 14.4      | 16.7            | 3.6                           |  |
| Other and unknown.....   | 1.4              | 1.8                           | 0.0               | 0.0                                    | 0.0         | 0.0                           | 0.0         | 0.0                 | 0.0                   | 4.2                            | 1.0                         | 1.2        | 0.0       | 2.8             | 0.9                           |  |

<sup>1</sup>This table includes all citizens of Canada who indicated a visa status (permanent or temporary visa). Those with unknown visa status are not included.

<sup>2</sup>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. "Personal" includes a recipient's own earnings, family support, and loans. Federal research assistants are aggregated with university research assistants.

<sup>3</sup>Includes 2-year and 4-year colleges and universities, medical schools, and elementary/secondary schools.

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

Table B-2. Statistical profile of doctorate recipients from China, by major field of doctorate: 1988-96

| Item  | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric, and Ocean Sciences | Mathematics  | Computer/Information Sciences | Engineering  | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education  | Health Sciences | Professional and Other Fields |
|---|------------------|-------------------------------|-------------------|--|--------------|-------------------------------|--------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|------------|-----------------|-------------------------------|
| <b>Total Number of Ph.D.s<sup>1</sup></b>         | <b>17,905</b>    | <b>16,550</b>                 | <b>4,278</b>      | <b>622</b>                             | <b>1,354</b> | <b>421</b>                    | <b>4,377</b> | <b>3,899</b>        | <b>543</b>            | <b>1,056</b>                   | <b>1,355</b>                | <b>391</b> | <b>385</b> | <b>281</b>      | <b>298</b>                    |
| Percent men.....                                  | 76.9             | 77.6                          | 77.4              | 83.0                                   | 84.6         | 85.5                          | 85.0         | 65.0                | 83.8                  | 75.5                           | 68.6                        | 71.9       | 54.3       | 74.0            | 77.9                          |
| Percent women.....                                | 23.1             | 22.5                          | 22.7              | 17.0                                   | 15.4         | 14.5                          | 15.0         | 35.0                | 16.2                  | 24.5                           | 31.4                        | 28.1       | 45.7       | 26.0            | 22.1                          |
| Percent with permanent visa.....                  | 37.8             | 37.3                          | 33.5              | 39.7                                   | 30.3         | 37.3                          | 35.6         | 44.6                | 28.9                  | 43.9                           | 44.1                        | 51.7       | 40.3       | 44.1            | 38.9                          |
| Percent with temporary visa.....                  | 62.2             | 62.7                          | 66.5              | 60.3                                   | 69.7         | 62.7                          | 64.4         | 55.4                | 71.1                  | 56.1                           | 55.9                        | 48.3       | 59.7       | 55.9            | 61.1                          |
| Percent married.....                              | 78.5             | 78.5                          | 75.2              | 83.6                                   | 77.6         | 80.0                          | 80.7         | 78.6                | 87.3                  | 75.9                           | 77.6                        | 74.2       | 79.7       | 82.9            | 74.2                          |
| Percent not married.....                          | 16.2             | 16.3                          | 19.7              | 11.4                                   | 16.7         | 15.2                          | 13.9         | 16.5                | 8.3                   | 18.6                           | 14.8                        | 18.9       | 11.9       | 11.4            | 16.1                          |
| Percent unknown.....                              | 5.4              | 5.2                           | 5.1               | 5.0                                    | 5.7          | 4.8                           | 5.4          | 4.9                 | 4.4                   | 5.6                            | 7.7                         | 6.9        | 8.3        | 5.7             | 9.7                           |
| Median age at Ph.D. in years.....                 | 32.7             | 32.4                          | 31.5              | 33.3                                   | 32.1         | 32.4                          | 32.9         | 32.1                | 33.4                  | 35.3                           | 37.3                        | 39.0       | 36.2       | 34.0            | 36.3                          |
| Percent with dependents.....                      | 61.5             | 61.1                          | 55.2              | 68.7                                   | 65.1         | 62.7                          | 65.7         | 57.4                | 79.0                  | 61.1                           | 65.8                        | 62.7       | 72.7       | 65.1            | 61.4                          |
| Percent receiving sources of support <sup>2</sup> |                  |                               |                   |  |              |                               |              |                     |                       |                                |                             |            |            |                 |                               |
| Personal.....                                     | 23.4             | 21.6                          | 13.5              | 23.5                                   | 15.9         | 30.2                          | 28.0         | 18.7                | 26.9                  | 38.9                           | 44.9                        | 46.8       | 54.5       | 34.2            | 40.3                          |
| Foreign government.....                           | 5.6              | 5.6                           | 3.6               | 7.2                                    | 2.4          | 12.4                          | 8.5          | 3.3                 | 18.2                  | 4.1                            | 5.9                         | 4.6        | 8.3        | 6.4             | 4.0                           |
| University.....                                   | 95.5             | 95.7                          | 96.3              | 96.6                                   | 96.1         | 95.0                          | 95.8         | 95.2                | 94.3                  | 95.2                           | 93.4                        | 96.4       | 94.0       | 90.7            | 91.3                          |
| Teaching assistant.....                           | 57.5             | 57.1                          | 78.2              | 36.7                                   | 90.6         | 66.0                          | 47.3         | 38.7                | 9.8                   | 70.9                           | 61.2                        | 81.1       | 50.4       | 34.5            | 74.2                          |
| Research assistant.....                           | 80.2             | 82.5                          | 88.9              | 91.8                                   | 56.2         | 80.5                          | 90.3         | 78.6                | 91.2                  | 63.9                           | 51.5                        | 23.0       | 56.6       | 79.4            | 56.0                          |
| Other university.....                             | 21.3             | 20.4                          | 16.9              | 17.2                                   | 26.4         | 19.7                          | 15.2         | 26.1                | 9.8                   | 35.3                           | 31.4                        | 44.5       | 26.8       | 19.2            | 31.9                          |
| Other.....  | 6.5              | 6.1                           | 3.1               | 6.6                                    | 3.8          | 10.0                          | 5.7          | 6.8                 | 7.2                   | 17.7                           | 11.0                        | 15.6       | 6.8        | 10.0            | 11.4                          |
| Unknown.....                                      | 3.3              | 3.2                           | 3.3               | 2.4                                    | 3.3          | 3.6                           | 3.5          | 3.2                 | 2.4                   | 2.8                            | 3.8                         | 2.0        | 2.6        | 5.3             | 6.4                           |
| Median years from baccalaureate to Ph.D.          |                  |                               |                   |  |              |                               |              |                     |                       |                                |                             |            |            |                 |                               |
| Total time in years.....                          | 9.8              | 9.8                           | 9.1               | 10.6                                   | 9.6          | 9.8                           | 10.3         | 9.3                 | 10.8                  | 10.8                           | 11.4                        | 12.1       | 11.9       | 10.3            | 10.8                          |
| Registered time.....                              | 6.9              | 6.9                           | 6.8               | 7.8                                    | 7.1          | 7.1                           | 6.8          | 6.8                 | 6.5                   | 7.5                            | 7.4                         | 8.4        | 6.9        | 6.8             | 7.3                           |

See explanatory information, if any, and SOURCE at end of table.



Table B-2. Statistical profile of doctorate recipients from China, by major field of doctorate, 1988-96

| Item   | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric, and Ocean Sciences | Mathematics | Computer/Information Sciences | Engineering | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education | Health Sciences | Professional and Other Fields |
|--|------------------|-------------------------------|-------------------|--|-------------|-------------------------------|-------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|-----------|-----------------|-------------------------------|
| <b>Planned location after Ph.D.</b>                              |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Number with permanent visas                                      | 6,766            | 6,169                         | 1,434             | 247                                    | 410         | 157                           | 1,560       | 1,740               | 157                   | 464                            | 597                         | 202        | 155       | 124             | 116                           |
| U.S. total: percent.....   | 93.9             | 94.2                          | 92.8              | 97.6                                   | 96.3        | 95.5                          | 94.0        | 95.7                | 91.7                  | 89.4                           | 91.6                        | 90.1       | 93.5      | 94.4            | 88.8                          |
| Study.....   | 49.0             | 51.9                          | 58.8              | 56.0                                   | 22.8        | 7.3                           | 25.7        | 86.7                | 61.1                  | 20.5                           | 18.5                        | 13.2       | 7.6       | 52.1            | 4.9                           |
| Employment.....  | 47.3             | 44.4                          | 37.0              | 39.8                                   | 70.4        | 86.7                          | 69.6        | 12.0                | 34.7                  | 74.9                           | 77.7                        | 82.4       | 89.0      | 43.6            | 92.2                          |
| Unknown.....   | 3.8              | 3.7                           | 4.1               | 4.1                                    | 6.8         | 6.0                           | 4.7         | 1.3                 | 4.2                   | 4.6                            | 3.8                         | 4.4        | 3.4       | 4.3             | 2.9                           |
| Non-U.S.....   | 2.4              | 2.2                           | 2.9               | 0.8                                    | 1.0         | 0.6                           | 1.4         | 1.2                 | 4.5                   | 7.8                            | 5.2                         | 5.4        | 5.8       | 1.6             | 7.8                           |
| Unknown location.....  | 3.6              | 3.7                           | 4.3               | 1.6                                    | 2.1         | 3.8                           | 4.6         | 3.2                 | 3.8                   | 2.8                            | 3.2                         | 4.5        | 0.6       | 4.0             | 3.4                           |
| <b>Number with temporary visas</b>                               |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| U.S. total: percent.....   | 11,139           | 10,381                        | 2,844             | 375                                    | 944         | 264                           | 2,817       | 2,159               | 386                   | 592                            | 758                         | 189        | 230       | 157             | 182                           |
| Study.....   | 79.7             | 80.3                          | 80.3              | 78.7                                   | 77.5        | 76.9                          | 78.5        | 88.0                | 74.6                  | 71.8                           | 71.9                        | 66.7       | 73.0      | 80.9            | 68.1                          |
| Employment.....  | 60.3             | 62.6                          | 77.5              | 75.3                                   | 36.5        | 18.2                          | 38.1        | 91.4                | 79.9                  | 26.8                           | 25.3                        | 11.1       | 21.4      | 60.6            | 8.9                           |
| Unknown.....   | 37.2             | 35.1                          | 20.3              | 23.4                                   | 59.6        | 79.8                          | 58.5        | 7.9                 | 18.4                  | 69.7                           | 70.5                        | 83.3       | 76.2      | 36.2            | 84.7                          |
| Non-U.S.....   | 2.5              | 2.4                           | 2.2               | 1.4                                    | 4.0         | 2.0                           | 3.4         | 0.8                 | 1.7                   | 3.5                            | 4.2                         | 5.6        | 2.4       | 3.2             | 6.5                           |
| Unknown location.....  | 6.6              | 6.2                           | 5.8               | 7.2                                    | 7.4         | 8.3                           | 5.3         | 3.4                 | 12.7                  | 15.0                           | 12.5                        | 18.5       | 11.7      | 6.4             | 12.6                          |
|  | 13.7             | 13.5                          | 13.9              | 14.1                                   | 15.0        | 14.8                          | 16.3        | 8.7                 | 12.7                  | 13.2                           | 15.6                        | 14.8       | 15.2      | 12.7            | 19.2                          |
| <b>Number planning location in the United States after Ph.D.</b> |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Percent with definite postdoctoral study.....                    | 15,237           | 14,145                        | 3,615             | 536                                    | 1,127       | 353                           | 3,678       | 3,564               | 432                   | 840                            | 1,092                       | 308        | 313       | 244             | 227                           |
| Percent with definite employment.....                            | 34.2             | 36.0                          | 44.8              | 35.4                                   | 17.3        | 8.2                           | 15.7        | 62.2                | 35.6                  | 11.9                           | 11.7                        | 3.9        | 4.8       | 38.1            | 3.5                           |
| Percent seeking postdoctoral study.....                          | 21.4             | 20.1                          | 13.6              | 15.7                                   | 35.5        | 53.0                          | 30.9        | 5.3                 | 11.1                  | 36.7                           | 37.6                        | 41.9       | 32.3      | 23.0            | 55.1                          |
| Percent seeking employment.....                                  | 21.4             | 22.2                          | 25.8              | 31.2                                   | 14.4        | 5.4                           | 17.4        | 27.0                | 38.0                  | 11.8                           | 10.2                        | 8.4        | 10.2      | 18.4            | 3.5                           |
| Percent with postdoctoral plans unknown.....                     | 20.1             | 18.8                          | 12.9              | 15.1                                   | 27.9        | 29.7                          | 32.0        | 4.5                 | 12.7                  | 35.6                           | 36.5                        | 40.9       | 49.8      | 16.8            | 33.0                          |
|  | 3.0              | 2.9                           | 2.9               | 2.6                                    | 5.0         | 3.7                           | 3.9         | 1.0                 | 2.5                   | 4.1                            | 4.0                         | 4.9        | 2.9       | 3.7             | 4.8                           |

See explanatory information, if any, and SOURCE at end of table.

Table B-2. Statistical profile of doctorate recipients from China, by major field of doctorate: 1988-96

| Item   | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric, and Ocean Sciences | Mathematics | Computer/Information Sciences | Engineering | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education | Health Sciences | Professional and Other Fields |
|--|------------------|-------------------------------|-------------------|--|-------------|-------------------------------|-------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|-----------|-----------------|-------------------------------|
| <b>Number with</b>                                     |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| definite employment plans in United States after Ph.D. | 3,255            | 2,844                         | 491               | 84                                     | 400         | 187                           | 1,138       | 188                 | 48                    | 308                            | 411                         | 129        | 101       | 56              | 125                           |
| Primary work activity: percent                         |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| R&D.....   | 61.2             | 65.6                          | 73.9              | 59.5                                   | 44.0        | 66.3                          | 74.8        | 73.9                | 66.7                  | 42.5                           | 30.4                        | 9.3        | 27.7      | 75.0            | 34.4                          |
| Teaching.....  | 16.5             | 12.1                          | 4.1               | 2.4                                    | 31.5        | 15.5                          | 5.0         | 2.7                 | 12.5                  | 32.5                           | 46.5                        | 69.8       | 41.6      | 8.9             | 43.2                          |
| Administrative.....                                    | 1.1              | 0.8                           | 0.4               | 4.8                                    | 0.0         | 0.0                           | 0.4         | 1.6                 | 0.0                   | 2.0                            | 3.2                         | 0.8        | 5.9       | 1.8             | 4.0                           |
| Professional services.....                             | 6.3              | 6.5                           | 5.9               | 15.5                                   | 5.3         | 2.1                           | 7.0         | 9.0                 | 8.3                   | 5.5                            | 5.1                         | 2.3        | 6.9       | 8.9             | 4.8                           |
| Other.....   | 2.0              | 2.1                           | 2.0               | 1.2                                    | 1.8         | 0.5                           | 2.4         | 3.2                 | 0.0                   | 2.6                            | 1.5                         | 1.6        | 2.0       | 0.0             | 1.6                           |
| Unknown.....   | 12.9             | 12.9                          | 13.7              | 16.7                                   | 16.8        | 15.5                          | 10.5        | 9.6                 | 12.5                  | 14.9                           | 13.4                        | 16.3       | 15.8      | 5.4             | 12.0                          |
| <b>Type of employer: percent</b>                       |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Educational institution <sup>3</sup> .....             | 36.3             | 30.7                          | 12.8              | 19.0                                   | 70.3        | 35.8                          | 14.3        | 46.8                | 33.3                  | 58.4                           | 74.9                        | 93.0       | 75.2      | 26.8            | 77.6                          |
| Industry/business.....                                 | 55.3             | 61.1                          | 79.8              | 61.9                                   | 26.0        | 60.4                          | 80.2        | 34.6                | 52.1                  | 24.0                           | 15.3                        | 5.4        | 6.9       | 42.9            | 20.0                          |
| Government.....  | 3.0              | 2.9                           | 2.9               | 9.5                                    | 0.3         | 0.0                           | 2.2         | 4.8                 | 4.2                   | 7.1                            | 4.4                         | 0.0        | 9.9       | 12.5            | 0.8                           |
| Nonprofit.....   | 3.1              | 2.9                           | 2.0               | 6.0                                    | 1.8         | 1.6                           | 1.6         | 12.2                | 8.3                   | 4.2                            | 4.1                         | 0.8        | 6.9       | 14.3            | 0.8                           |
| Other and unknown.....                                 | 2.2              | 2.4                           | 4.4               | 3.6                                    | 1.8         | 2.1                           | 1.7         | 1.6                 | 2.1                   | 6.2                            | 1.2                         | 0.8        | 1.0       | 3.6             | 0.8                           |

<sup>1</sup> This table includes all citizens of China who indicated a visa status (permanent or temporary visa). Those with unknown visa status are not included.

<sup>2</sup> 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. "Personal" includes a recipient's own earnings, family support, and loans. Federal research assistants are aggregated with university research assistants.

<sup>3</sup> Includes 2-year and 4-year colleges and universities, medical schools, and elementary/secondary schools.

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

Table B-3. Statistical profile of doctorate recipients from Eastern Europe<sup>1</sup>, by major field of doctorate: 1988-96

| Item  | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric, and Ocean Sciences | Mathematics | Computer/Information Sciences | Engineering | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education | Health Sciences | Professional and Other Fields |
|---|------------------|-------------------------------|-------------------|--|-------------|-------------------------------|-------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|-----------|-----------------|-------------------------------|
| Total Number of Ph.D.s <sup>2</sup>               | 1,546            | 1,354                         | 306               | 36                                     | 318         | 64                            | 356         | 138                 | 25                    | 111                            | 192                         | 127        | 18        | 8               | 39                            |
| Percent men                                       | 74.3             | 77.7                          | 82.0              | 77.8                                   | 81.4        | 85.9                          | 84.6        | 61.6                | 60.0                  | 52.3                           | 50.5                        | 44.1       | 50.0      | 75.0            | 66.7                          |
| Percent women                                     | 25.7             | 22.3                          | 18.0              | 22.2                                   | 18.6        | 14.1                          | 15.4        | 38.4                | 40.0                  | 47.7                           | 49.5                        | 55.9       | 50.0      | 25.0            | 33.3                          |
| Percent with permanent visa                       | 22.6             | 20.5                          | 19.0              | 30.6                                   | 14.5        | 32.8                          | 20.5        | 25.4                | 12.0                  | 27.0                           | 38.0                        | 40.2       | 44.4      | 50.0            | 25.6                          |
| Percent with temporary visa                       | 77.4             | 79.5                          | 81.0              | 69.4                                   | 85.5        | 67.2                          | 79.5        | 74.6                | 88.0                  | 73.0                           | 62.0                        | 59.8       | 55.6      | 50.0            | 74.4                          |
| Percent married                                   | 59.6             | 59.7                          | 60.1              | 66.7                                   | 56.0        | 64.1                          | 61.5        | 55.8                | 56.0                  | 64.0                           | 58.9                        | 55.9       | 83.3      | 62.5            | 56.4                          |
| Percent not married                               | 33.8             | 34.1                          | 35.6              | 25.0                                   | 35.5        | 34.4                          | 32.6        | 36.2                | 40.0                  | 29.7                           | 31.8                        | 35.4       | 11.1      | 12.5            | 33.3                          |
| Percent unknown                                   | 6.6              | 6.2                           | 4.2               | 8.3                                    | 8.5         | 1.6                           | 5.9         | 8.0                 | 4.0                   | 6.3                            | 9.4                         | 8.7        | 5.6       | 25.0            | 10.3                          |
| Median age at Ph.D. in years                      | 32.1             | 31.8                          | 30.9              | 33.3                                   | 30.8        | 32.1                          | 32.6        | 31.7                | 32.3                  | 33.0                           | 34.7                        | 34.2       | 36.3      | 38.0            | 36.8                          |
| Percent with dependents                           | 46.4             | 46.6                          | 48.4              | 52.8                                   | 44.0        | 45.3                          | 51.1        | 35.5                | 60.0                  | 44.1                           | 45.3                        | 37.8       | 72.2      | 75.0            | 51.3                          |
| Percent receiving sources of support <sup>3</sup> |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Personal  | 41.3             | 37.7                          | 27.8              | 55.6                                   | 27.0        | 53.1                          | 44.9        | 37.0                | 48.0                  | 55.9                           | 67.2                        | 69.3       | 66.7      | 62.5            | 61.5                          |
| Foreign government                                | 1.3              | 1.3                           | 1.0               | 0.0                                    | 0.9         | 1.6                           | 1.1         | 2.9                 | 8.0                   | 0.9                            | 1.0                         | 0.0        | 0.0       | 0.0             | 5.1                           |
| University  | 94.8             | 95.6                          | 97.4              | 91.7                                   | 96.9        | 100.0                         | 95.2        | 89.9                | 100.0                 | 92.8                           | 89.1                        | 90.6       | 88.9      | 87.5            | 84.6                          |
| Teaching assistant                                | 67.0             | 66.5                          | 79.7              | 33.3                                   | 89.0        | 65.6                          | 49.4        | 44.9                | 8.0                   | 71.2                           | 70.8                        | 77.2       | 55.6      | 50.0            | 61.5                          |
| Research assistant                                | 66.6             | 72.3                          | 86.6              | 80.6                                   | 46.5        | 87.5                          | 86.0        | 68.1                | 100.0                 | 50.5                           | 26.6                        | 19.7       | 44.4      | 37.5            | 38.5                          |
| Other university                                  | 26.8             | 24.5                          | 19.3              | 30.6                                   | 32.7        | 21.9                          | 17.4        | 20.3                | 12.0                  | 45.0                           | 43.8                        | 45.7       | 16.7      | 50.0            | 48.7                          |
| Other   | 13.0             | 12.7                          | 4.6               | 27.8                                   | 13.5        | 17.2                          | 12.4        | 13.0                | 24.0                  | 23.4                           | 15.1                        | 15.0       | 5.6       | 12.5            | 20.5                          |
| Unknown   | 3.8              | 3.3                           | 2.3               | 5.6                                    | 2.8         | 0.0                           | 3.4         | 5.8                 | 0.0                   | 6.3                            | 6.8                         | 6.3        | 5.6       | 12.5            | 7.7                           |
| Median years from baccalaureate to Ph.D.          |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Total time in years                               | 8.2              | 8.0                           | 7.2               | 8.5                                    | 7.2         | 8.0                           | 8.5         | 8.1                 | 9.3                   | 9.9                            | 10.3                        | 9.5        | 13.5      | 0.0             | 12.0                          |
| Registered time                                   | 5.8              | 5.6                           | 5.5               | 5.5                                    | 5.2         | 6.4                           | 5.5         | 6.2                 | 5.3                   | 6.2                            | 6.9                         | 7.0        | 6.8       | 0.0             | 6.6                           |

See explanatory information, if any, and SOURCE at end of table.

Table B-3. Statistical profile of doctorate recipients from Eastern Europe, by major field of doctorate, 1988-96

| Item   | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric, and Ocean Sciences | Mathematics | Computer/ Information Sciences | Engineering | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education | Health Sciences | Professional and Other Fields |
|--|------------------|-------------------------------|-------------------|--|-------------|--------------------------------|-------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|-----------|-----------------|-------------------------------|
| <b>Planned location after Ph.D.</b>                              |                  |                               |                   |  |             |                                |             |                     |                       |                                |                             |            |           |                 |                               |
| Number with permanent visas                                      | 350              | 277                           | 58                | 11                                     | 46          | 21                             | 73          | 35                  | 3                     | 30                             | 73                          | 51         | 8         | 4               | 10                            |
| U.S. total: percent  | 86.3             | 85.2                          | 89.7              | 100.0                                  | 80.4        | 85.7                           | 83.6        | 94.3                | D                     | 76.7                           | 90.4                        | 96.1       | 87.5      | D               | 70.0                          |
| Study  | 37.8             | 46.6                          | 73.1              | 45.5                                   | 40.5        | 27.8                           | 21.3        | 78.8                | D                     | 30.4                           | 6.1                         | 2.0        | 28.6      | D               | 0.0                           |
| Employment   | 58.6             | 50.0                          | 25.0              | 27.3                                   | 56.8        | 72.2                           | 77.0        | 21.2                | D                     | 60.9                           | 89.4                        | 91.8       | 71.4      | D               | 100.0                         |
| Unknown  | 3.6              | 3.4                           | 1.9               | 27.3                                   | 2.7         | 0.0                            | 1.6         | 0.0                 | D                     | 8.7                            | 4.5                         | 6.1        | 0.0       | D               | 0.0                           |
| Non-U.S.   | 5.7              | 6.1                           | 3.4               | 0.0                                    | 6.5         | 9.5                            | 5.5         | 2.9                 | D                     | 10.0                           | 4.1                         | 0.0        | 12.5      | D               | 20.0                          |
| Unknown location   | 8.0              | 8.7                           | 6.9               | 0.0                                    | 13.0        | 4.8                            | 11.0        | 2.9                 | D                     | 13.3                           | 5.5                         | 3.9        | 0.0       | D               | 10.0                          |
| Number with temporary visas                                      | 1,196            | 1,077                         | 248               | 25                                     | 272         | 43                             | 283         | 103                 | 22                    | 81                             | 119                         | 76         | 10        | 4               | 29                            |
| U.S. total: percent  | 68.0             | 69.2                          | 71.4              | 68.0                                   | 66.9        | 74.4                           | 67.8        | 79.6                | 68.2                  | 59.3                           | 57.1                        | 59.2       | 70.0      | D               | 48.3                          |
| Study  | 56.1             | 58.8                          | 80.8              | 64.7                                   | 49.5        | 28.1                           | 50.0        | 87.8                | 66.7                  | 14.6                           | 26.5                        | 24.4       | 28.6      | D               | 28.6                          |
| Employment   | 42.6             | 40.0                          | 19.2              | 35.3                                   | 49.5        | 71.9                           | 49.0        | 11.0                | 33.3                  | 77.1                           | 70.6                        | 71.1       | 71.4      | D               | 71.4                          |
| Unknown  | 1.4              | 1.2                           | 0.0               | 0.0                                    | 1.1         | 0.0                            | 1.0         | 1.2                 | 0.0                   | 8.3                            | 2.9                         | 4.4        | 0.0       | D               | 0.0                           |
| Non-U.S.   | 22.3             | 21.7                          | 22.6              | 28.0                                   | 22.4        | 20.9                           | 20.1        | 13.6                | 27.3                  | 29.6                           | 27.7                        | 26.3       | 10.0      | D               | 34.5                          |
| Unknown location   | 9.7              | 9.1                           | 6.0               | 4.0                                    | 10.7        | 4.7                            | 12.0        | 6.8                 | 4.5                   | 11.1                           | 15.1                        | 14.5       | 20.0      | D               | 17.2                          |
| <b>Number planning location in the United States after Ph.D.</b> |                  |                               |                   |  |             |                                |             |                     |                       |                                |                             |            |           |                 |                               |
| Percent with definite postdoctoral study                         | 36.1             | 39.6                          | 59.4              | 32.1                                   | 33.8        | 22.0                           | 27.7        | 61.7                | 37.5                  | 15.5                           | 10.4                        | 8.5        | 28.6      | D               | 4.8                           |
| Percent with definite employment                                 | 31.9             | 30.0                          | 16.2              | 21.4                                   | 36.1        | 58.0                           | 35.6        | 9.6                 | 18.8                  | 54.9                           | 46.3                        | 44.7       | 50.0      | D               | 57.1                          |
| Percent seeking postdoctoral study                               | 15.1             | 16.3                          | 19.7              | 25.0                                   | 14.2        | 6.0                            | 15.4        | 23.5                | 31.3                  | 4.2                            | 6.0                         | 4.3        | 0.0       | D               | 14.3                          |
| Percent seeking employment                                       | 15.0             | 12.4                          | 4.4               | 10.7                                   | 14.6        | 14.0                           | 20.2        | 4.3                 | 12.5                  | 16.9                           | 33.6                        | 37.2       | 21.4      | D               | 23.8                          |
| Percent with postdoctoral plans unknown                          | 2.0              | 1.7                           | 0.4               | 10.7                                   | 1.4         | 0.0                            | 1.2         | 0.9                 | 0.0                   | 8.5                            | 3.7                         | 5.3        | 0.0       | D               | 0.0                           |

See explanatory information, if any, and SOURCE at end of table.

Table B-3. Statistical profile of doctorate recipients from Eastern Europe<sup>1</sup>, by major field of doctorate: 1988-96

Page 3 of 3

| Item  | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric and Ocean Sciences | Mathematics | Computer/Information Sciences | Engineering | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education | Health Sciences | Professional and Other Fields |
|---|------------------|-------------------------------|-------------------|---------------------------------------|-------------|-------------------------------|-------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|-----------|-----------------|-------------------------------|
| Number with definite employment plans in United States after Ph.D. Primary work activity, percent | 356              | 294                           | 37                | 6                                     | 79          | 29                            | 90          | 11                  | 3                     | 39                             | 62                          | 42         | 7         | 1               | 12                            |
| R&D.....  | 54.5             | 62.9                          | 75.7              | 66.7                                  | 48.1        | 79.3                          | 73.3        | 54.5                | D                     | 43.6                           | 14.5                        | 11.9       | 28.6      | D               | 8.3                           |
| Teaching.....   | 30.1             | 22.5                          | 10.8              | 0.0                                   | 35.4        | 13.8                          | 12.2        | 27.3                | D                     | 41.0                           | 66.1                        | 73.8       | 57.1      | D               | 50.0                          |
| Administrative.....   | 0.6              | 0.3                           | 2.7               | 0.0                                   | 0.0         | 0.0                           | 0.0         | 0.0                 | D                     | 0.0                            | 1.6                         | 0.0        | 0.0       | D               | 8.3                           |
| Professional services.....  | 3.9              | 4.1                           | 5.4               | 16.7                                  | 1.3         | 0.0                           | 6.7         | 18.2                | D                     | 0.0                            | 3.2                         | 0.0        | 14.3      | D               | 8.3                           |
| Other.....  | 2.8              | 3.1                           | 2.7               | 16.7                                  | 1.3         | 0.0                           | 4.4         | 0.0                 | D                     | 5.1                            | 1.6                         | 0.0        | 0.0       | D               | 8.3                           |
| Unknown.....  | 8.2              | 7.1                           | 2.7               | 0.0                                   | 13.9        | 6.9                           | 3.3         | 0.0                 | D                     | 10.3                           | 12.9                        | 14.3       | 0.0       | D               | 16.7                          |
| Type of employer: percent   |                  |                               |                   |                                       |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Educational institution <sup>4</sup> .....  | 58.7             | 51.7                          | 18.9              | 33.3                                  | 84.8        | 58.6                          | 25.6        | 45.5                | D                     | 76.9                           | 91.9                        | 92.9       | 100.0     | D               | 83.3                          |
| Industry/business.....  | 35.4             | 41.8                          | 73.0              | 50.0                                  | 15.2        | 37.9                          | 68.9        | 36.4                | D                     | 7.7                            | 4.8                         | 4.8        | 0.0       | D               | 8.3                           |
| Government.....   | 2.3              | 2.4                           | 2.7               | 16.7                                  | 0.0         | 0.0                           | 4.4         | 0.0                 | D                     | 2.6                            | 1.6                         | 0.0        | 0.0       | D               | 8.3                           |
| Nonprofit.....  | 2.5              | 2.7                           | 5.4               | 0.0                                   | 0.0         | 3.4                           | 1.1         | 18.2                | D                     | 2.6                            | 1.6                         | 2.4        | 0.0       | D               | 0.0                           |
| Other and unknown.....  | 1.1              | 1.4                           | 0.0               | 0.0                                   | 0.0         | 0.0                           | 0.0         | 0.0                 | D                     | 10.3                           | 0.0                         | 0.0        | 0.0       | D               | 0.0                           |

D = data withheld to avoid potential disclosure of confidential information.

<sup>1</sup> Includes Albania, Bulgaria, Czechoslovakia, Czech Republic, Slovakia, Hungary, Poland, Romania, U.S.S.R., Russia, Armenia, Azerbaijan, Belarus, Estonia, Georgia, Kazakhstan, Kyrgyzstan, Latvia, Moldova, Tadjikistan, Turkmenistan, Ukraine, Uzbekistan, Yugoslavia, Bosnia-Herzegovina, Croatia, Macedonia, Serbia-Montenegro, Slovenia, and unspecified Eastern European countries.<sup>2</sup> This table includes all citizens of Eastern European countries who indicated a visa status (permanent or temporary visa). Those with unknown visa status are not included.<sup>3</sup> 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. "Personal" includes a recipient's own earnings, family support, and loans. Federal research assistants are aggregated with university research assistants.<sup>4</sup> Includes 2-year and 4-year colleges and universities, medical schools, and elementary/secondary schools.SOURCE: National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*.

Table B.4 Statistical profile of doctorate recipients from France, by major field of doctorate, 1988-96

| Item  | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric, and Ocean Sciences | Mathematics | Computer/Information Sciences | Engineering | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education | Health Sciences | Professional and Other Fields |
|---|------------------|-------------------------------|-------------------|--|-------------|-------------------------------|-------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|-----------|-----------------|-------------------------------|
| Total Number of Ph.D.s <sup>1</sup>               | 951              | 653                           | 144               | 27                                     | 29          | 30                            | 224         | 77                  | 25                    | 97                             | 298                         | 241        | 16        | 14              | 27                            |
| Percent men                                       | 62.6             | 76.1                          | 70.1              | 85.2                                   | 79.3        | 80.0                          | 87.9        | 55.8                | 80.0                  | 68.0                           | 32.9                        | 28.2       | 31.3      | 57.1            | 63.0                          |
| Percent women                                     | 37.4             | 23.9                          | 29.9              | 14.8                                   | 20.7        | 20.0                          | 12.1        | 44.2                | 20.0                  | 32.0                           | 67.1                        | 71.8       | 68.8      | 42.9            | 37.0                          |
| Percent with permanent visa                       | 29.5             | 19.6                          | 12.5              | 18.5                                   | 17.2        | 26.7                          | 15.2        | 23.4                | 20.0                  | 36.1                           | 51.3                        | 54.8       | 62.5      | 14.3            | 33.3                          |
| Percent with temporary visa                       | 70.5             | 80.4                          | 87.5              | 81.5                                   | 82.8        | 73.3                          | 84.8        | 76.6                | 80.0                  | 63.9                           | 48.7                        | 45.2       | 37.5      | 85.7            | 66.7                          |
| Percent married                                   | 42.3             | 38.6                          | 23.6              | 40.7                                   | 41.4        | 43.3                          | 39.3        | 41.6                | 48.0                  | 51.5                           | 50.3                        | 49.8       | 37.5      | 50.0            | 63.0                          |
| Percent not married                               | 52.9             | 56.7                          | 71.5              | 48.1                                   | 55.2        | 43.3                          | 57.6        | 55.8                | 48.0                  | 42.3                           | 44.6                        | 44.8       | 56.3      | 42.9            | 37.0                          |
| Percent unknown                                   | 4.8              | 4.7                           | 4.9               | 11.1                                   | 3.4         | 13.3                          | 3.1         | 2.6                 | 4.0                   | 6.2                            | 5.0                         | 5.4        | 6.3       | 7.1             | 0.0                           |
| Median age at Ph.D. in years                      | 30.1             | 28.9                          | 28.2              | 30.2                                   | 29.2        | 30.7                          | 28.2        | 30.2                | 30.3                  | 32.3                           | 33.6                        | 33.8       | 36.0      | 30.5            | 30.6                          |
| Percent with dependents                           | 27.7             | 25.1                          | 11.8              | 40.7                                   | 34.5        | 30.0                          | 25.4        | 23.4                | 20.0                  | 38.1                           | 33.2                        | 31.1       | 43.8      | 42.9            | 40.7                          |
| Percent receiving sources of support <sup>2</sup> |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Personal  | 60.8             | 53.0                          | 46.5              | 40.7                                   | 51.7        | 66.7                          | 49.6        | 54.5                | 72.0                  | 63.9                           | 77.9                        | 75.9       | 75.0      | 85.7            | 92.6                          |
| Foreign government                                | 10.2             | 13.0                          | 10.4              | 11.1                                   | 13.8        | 10.0                          | 17.0        | 9.1                 | 12.0                  | 12.4                           | 4.0                         | 2.9        | 0.0       | 21.4            | 7.4                           |
| University  | 89.6             | 88.4                          | 88.9              | 88.9                                   | 93.1        | 83.3                          | 92.9        | 88.3                | 68.0                  | 82.5                           | 92.3                        | 93.4       | 68.8      | 92.9            | 96.3                          |
| Teaching assistant                                | 61.5             | 52.7                          | 66.7              | 37.0                                   | 72.4        | 46.7                          | 44.2        | 46.8                | 16.0                  | 66.0                           | 80.9                        | 88.4       | 37.5      | 50.0            | 55.6                          |
| Research assistant                                | 55.0             | 71.1                          | 74.3              | 77.8                                   | 37.9        | 70.0                          | 86.2        | 71.4                | 60.0                  | 42.3                           | 19.8                        | 11.6       | 31.3      | 71.4            | 59.3                          |
| Other university                                  | 23.3             | 18.8                          | 14.6              | 25.9                                   | 17.2        | 26.7                          | 10.3        | 18.2                | 12.0                  | 43.3                           | 33.2                        | 34.9       | 25.0      | 28.6            | 25.9                          |
| Other   | 18.0             | 19.9                          | 16.7              | 25.9                                   | 34.5        | 30.0                          | 14.3        | 22.1                | 20.0                  | 26.8                           | 13.8                        | 12.4       | 18.8      | 21.4            | 18.5                          |
| Unknown   | 3.3              | 3.8                           | 4.9               | 7.4                                    | 3.4         | 3.3                           | 1.8         | 2.6                 | 8.0                   | 6.2                            | 2.0                         | 2.1        | 0.0       | 7.1             | 0.0                           |
| Median years from baccalaureate to Ph.D.          | 7.4              | 6.3                           | 5.9               | 6.9                                    | 6.4         | 7.5                           | 5.3         | 7.0                 | 7.3                   | 9.5                            | 10.3                        | 10.3       | 12.5      | 7.5             | 8.4                           |
| Total time in years                               | 6.2              | 5.5                           | 5.4               | 4.8                                    | 6.4         | 6.5                           | 4.8         | 6.0                 | 5.8                   | 7.6                            | 8.0                         | 8.0        | 8.6       | 4.5             | 6.9                           |

See explanatory information, if any, and SOURCE at end of table.

Table B-4. Statistical profile of doctorate recipients from France, by major field of doctorate: 1988-96

| Item   | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric, and Ocean Sciences | Mathematics | Computer/Information Sciences | Engineering | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education | Health Sciences | Professional and Other Fields |
|--|------------------|-------------------------------|-------------------|--|-------------|-------------------------------|-------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|-----------|-----------------|-------------------------------|
| <b>Planned location after Ph.D.</b>                              |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Number with permanent visas                                      | 281              | 128                           | 18                | 5                                      | 5           | 8                             | 34          | 18                  | 5                     | 35                             | 153                         | 132        | 10        | 2               | 9                             |
| U.S. total: percent  | 75.8             | 70.3                          | 61.1              | D                                      | D           | 87.5                          | 79.4        | 77.8                | D                     | 65.7                           | 80.4                        | 81.1       | 80.0      | D               | 66.7                          |
| Study  | 21.1             | 38.9                          | 72.7              | D                                      | D           | 28.6                          | 25.9        | 78.6                | D                     | 21.7                           | 8.1                         | 5.6        | 12.5      | D               | 16.7                          |
| Employment   | 77.0             | 61.1                          | 27.3              | D                                      | D           | 71.4                          | 74.1        | 21.4                | D                     | 78.3                           | 88.6                        | 91.6       | 75.0      | D               | 83.3                          |
| Unknown  | 1.9              | 0.0                           | 0.0               | D                                      | D           | 0.0                           | 0.0         | 0.0                 | D                     | 0.0                            | 3.3                         | 2.8        | 12.5      | D               | 0.0                           |
| Non-U.S.   | 11.4             | 20.3                          | 27.8              | D                                      | D           | 0.0                           | 17.6        | 11.1                | D                     | 22.9                           | 3.9                         | 3.0        | 0.0       | D               | 22.2                          |
| Unknown location   | 12.8             | 9.4                           | 11.1              | D                                      | D           | 12.5                          | 2.9         | 11.1                | D                     | 11.4                           | 15.7                        | 15.9       | 20.0      | D               | 11.1                          |
| <b>Number with temporary visas</b>                               |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| U.S. total: percent  | 67.0             | 52.5                          | 126               | 22                                     | 24          | 22                            | 190         | 59                  | 20                    | 62                             | 145                         | 109        | 6         | 12              | 18                            |
| Study  | 40.7             | 35.2                          | 31.7              | 31.8                                   | 29.2        | 45.5                          | 35.8        | 39.0                | 35.0                  | 37.1                           | 60.7                        | 63.3       | 83.3      | 33.3            | 55.6                          |
| Employment   | 37.7             | 49.7                          | 65.0              | 57.1                                   | 28.6        | 20.0                          | 44.1        | 82.6                | 57.1                  | 21.7                           | 12.5                        | 10.1       | 20.0      | 75.0            | 0.0                           |
| Unknown  | 60.8             | 48.1                          | 30.0              | 28.6                                   | 71.4        | 80.0                          | 54.4        | 17.4                | 42.9                  | 78.3                           | 87.5                        | 89.9       | 80.0      | 25.0            | 100.0                         |
| Non-U.S.   | 1.5              | 2.2                           | 5.0               | 14.3                                   | 0.0         | 0.0                           | 1.5         | 0.0                 | 0.0                   | 0.0                            | 0.0                         | 0.0        | 0.0       | 0.0             | 0.0                           |
| Unknown location   | 45.1             | 50.1                          | 55.6              | 59.1                                   | 45.8        | 45.5                          | 46.3        | 49.2                | 50.0                  | 51.6                           | 26.9                        | 22.9       | 16.7      | 41.7            | 44.4                          |
|  | 14.2             | 14.7                          | 12.7              | 9.1                                    | 25.0        | 9.1                           | 17.9        | 11.9                | 15.0                  | 11.3                           | 12.4                        | 13.8       | 0.0       | 25.0            | 0.0                           |
| <b>Number planning location in the United States after Ph.D.</b> |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Percent with definite postdoctoral study                         | 486              | 275                           | 51                | 10                                     | 10          | 17                            | 95          | 37                  | 9                     | 46                             | 211                         | 176        | 13        | 6               | 16                            |
| Percent with definite employment                                 | 19.3             | 30.9                          | 52.9              | 40.0                                   | 20.0        | 23.5                          | 22.1        | 54.1                | 22.2                  | 10.9                           | 4.3                         | 2.8        | 0.0       | 50.0            | 6.3                           |
| Percent seeking postdoctoral study                               | 46.9             | 34.9                          | 15.7              | 30.0                                   | 60.0        | 58.8                          | 36.8        | 8.1                 | 33.3                  | 60.9                           | 62.6                        | 63.6       | 46.2      | 16.7            | 81.3                          |
| Percent seeking employment                                       | 11.1             | 15.3                          | 13.7              | 10.0                                   | 10.0        | 0.0                           | 16.8        | 27.0                | 22.2                  | 10.9                           | 5.7                         | 4.5        | 15.4      | 33.3            | 0.0                           |
| Percent with postdoctoral plans unknown                          | 21.0             | 17.5                          | 13.7              | 10.0                                   | 10.0        | 17.6                          | 23.2        | 10.8                | 22.2                  | 17.4                           | 25.6                        | 27.3       | 30.8      | 0.0             | 12.5                          |
|  | 1.6              | 1.5                           | 3.9               | 10.0                                   | 0.0         | 0.0                           | 1.1         | 0.0                 | 0.0                   | 0.0                            | 1.9                         | 1.7        | 7.7       | 0.0             | 0.0                           |

See explanatory information, if any, and SOURCE at end of table.

Table B-4. Statistical profile of doctorate recipients from France, by major field of doctorate, 1988-96

| Item   | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric, and Ocean Sciences | Mathematics | Computer/Information Sciences | Engineering | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education | Health Sciences | Professional and Other Fields |  |
|--|------------------|-------------------------------|-------------------|--|-------------|-------------------------------|-------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|-----------|-----------------|-------------------------------|--|
| Number with definite employment plans in United States after Ph.D. | 228              | 96                            | 8                 | 3                                      | 6           | 10                            | 35          | 3                   | 3                     | 28                             | 132                         | 112        | 6         | 1               | 13                            |  |
| Primary work activity: percent                                     |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |  |
| R&D.....   | 35.1             | 63.5                          | 75.0              | D                                      | 50.0        | 60.0                          | 82.9        | D                   | D                     | 42.9                           | 14.4                        | 10.7       | 1.0       | D               | 46.2                          |  |
| Teaching.....  | 50.4             | 24.0                          | 25.0              | D                                      | 16.7        | 30.0                          | 8.6         | D                   | D                     | 46.4                           | 69.7                        | 75.0       | 66.7      | D               | 30.8                          |  |
| Administrative.....  | 0.9              | 1.0                           | 0.0               | D                                      | 0.0         | 0.0                           | 0.0         | D                   | D                     | 0.0                            | 0.8                         | 0.0        | 16.7      | D               | 0.0                           |  |
| Professional services.....   | 3.1              | 6.3                           | 0.0               | D                                      | 0.0         | 10.0                          | 2.9         | D                   | D                     | 7.1                            | 0.8                         | 0.0        | 0.0       | D               | 7.7                           |  |
| Other.....   | 1.8              | 1.0                           | 0.0               | D                                      | 0.0         | 0.0                           | 2.9         | D                   | D                     | 0.0                            | 2.3                         | 2.7        | 0.0       | D               | 0.0                           |  |
| Unknown.....   | 8.8              | 4.2                           | 0.0               | D                                      | 33.3        | 0.0                           | 2.9         | D                   | D                     | 3.6                            | 12.1                        | 11.6       | 16.7      | D               | 15.4                          |  |
| Type of employer: percent  |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |  |
| Educational institution <sup>3</sup> .....                         | 71.5             | 41.7                          | 25.0              | D                                      | 83.3        | 50.0                          | 17.1        | D                   | D                     | 71.4                           | 93.2                        | 94.6       | 83.3      | D               | 92.3                          |  |
| Industry/business.....   | 21.1             | 45.8                          | 75.0              | D                                      | 16.7        | 40.0                          | 74.3        | D                   | D                     | 7.1                            | 3.0                         | 1.8        | 1.0       | D               | 7.7                           |  |
| Government.....  | 3.9              | 7.3                           | 0.0               | D                                      | 0.0         | 10.0                          | 5.7         | D                   | D                     | 10.7                           | 1.5                         | 1.8        | 0.0       | D               | 0.0                           |  |
| Nonprofit.....   | 1.3              | 2.1                           | 0.0               | D                                      | 0.0         | 0.0                           | 2.9         | D                   | D                     | 0.0                            | 0.8                         | 0.9        | 0.0       | D               | 0.0                           |  |
| Other and unknown.....   | 2.2              | 3.1                           | 0.0               | D                                      | 0.0         | 0.0                           | 0.0         | D                   | D                     | 10.7                           | 1.5                         | 0.9        | 16.7      | D               | 0.0                           |  |

D = data withheld to avoid potential disclosure of confidential information.

<sup>1</sup> This table includes all citizens of France who indicated a visa status (permanent or temporary visa). Those with unknown visa status are not included.

<sup>2</sup> 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. "Personal" includes a recipient's own earnings, family support, and loans. Federal research assistants are aggregated with university research assistants.

<sup>3</sup> Includes 2-year and 4-year colleges and universities, medical schools, and elementary/secondary schools.

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



Table B-5. Statistical profile of doctorate recipients from Germany, by major field of doctorate, 1988-96

| Item  | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric, and Ocean Sciences | Mathematics | Computer/Information Sciences | Engineering | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education | Health Sciences | Professional and Other Fields |
|---|------------------|-------------------------------|-------------------|--|-------------|-------------------------------|-------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|-----------|-----------------|-------------------------------|
| <b>Total Number of Ph.D.s<sup>2</sup></b>         | <b>1,845</b>     | <b>1,283</b>                  | <b>287</b>        | <b>69</b>                              | <b>123</b>  | <b>76</b>                     | <b>174</b>  | <b>220</b>          | <b>27</b>             | <b>307</b>                     | <b>562</b>                  | <b>428</b> | <b>45</b> | <b>24</b>       | <b>65</b>                     |
| Percent men.....                                  | 65.6             | 74.4                          | 88.2              | 91.3                                   | 75.6        | 84.2                          | 93.7        | 58.2                | 70.4                  | 55.7                           | 45.6                        | 43.5       | 40.0      | 41.7            | 64.6                          |
| Percent women.....                                | 34.4             | 25.6                          | 11.8              | 8.7                                    | 24.4        | 15.8                          | 6.3         | 41.8                | 29.6                  | 44.3                           | 54.4                        | 56.5       | 60.0      | 58.3            | 35.4                          |
| Percent with permanent visa.....                  | 33.2             | 28.0                          | 21.6              | 18.8                                   | 16.3        | 22.4                          | 23.6        | 35.9                | 37.0                  | 38.1                           | 45.0                        | 45.6       | 60.0      | 25.0            | 38.5                          |
| Percent with temporary visa.....                  | 66.8             | 72.0                          | 78.4              | 81.2                                   | 83.7        | 77.6                          | 76.4        | 64.1                | 63.0                  | 61.9                           | 55.0                        | 54.4       | 40.0      | 75.0            | 61.5                          |
| Percent married.....                              | 39.2             | 37.1                          | 27.9              | 39.1                                   | 35.8        | 38.2                          | 39.1        | 39.5                | 44.4                  | 42.0                           | 44.1                        | 45.3       | 40.0      | 37.5            | 41.5                          |
| Percent not married.....                          | 55.1             | 57.8                          | 68.3              | 56.5                                   | 59.4        | 55.3                          | 57.5        | 54.1                | 48.1                  | 52.1                           | 48.8                        | 48.4       | 51.1      | 50.0            | 49.2                          |
| Percent unknown.....                              | 5.7              | 5.1                           | 3.8               | 4.3                                    | 4.9         | 6.6                           | 3.4         | 6.4                 | 7.4                   | 5.9                            | 7.1                         | 6.3        | 8.9       | 12.5            | 9.2                           |
| Median age at Ph.D. in years.....                 | 31.5             | 30.8                          | 29.8              | 32.1                                   | 29.7        | 30.4                          | 30.4        | 31.5                | 32.0                  | 31.6                           | 33.6                        | 33.6       | 38.0      | 35.8            | 32.1                          |
| Percent with dependents.....                      | 22.4             | 20.4                          | 13.6              | 17.4                                   | 15.4        | 27.6                          | 23.0        | 24.5                | 22.2                  | 23.1                           | 27.0                        | 25.2       | 31.1      | 33.3            | 33.8                          |
| Percent receiving sources of support <sup>3</sup> |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Personal.....                                     | 66.3             | 60.5                          | 47.7              | 66.7                                   | 59.4        | 56.6                          | 59.8        | 57.3                | 59.3                  | 75.2                           | 79.5                        | 79.2       | 86.7      | 75.0            | 78.5                          |
| Foreign government.....                           | 13.4             | 13.8                          | 11.2              | 21.7                                   | 19.5        | 14.5                          | 9.2         | 10.5                | 14.8                  | 16.9                           | 12.5                        | 11.4       | 6.7       | 37.5            | 13.8                          |
| University.....                                   | 91.7             | 93.1                          | 95.5              | 94.2                                   | 97.6        | 86.8                          | 95.4        | 93.2                | 92.6                  | 89.3                           | 88.4                        | 92.1       | 71.1      | 75.0            | 81.5                          |
| Teaching assistant.....                           | 65.0             | 59.6                          | 64.5              | 56.5                                   | 90.2        | 55.3                          | 36.8        | 47.7                | 22.2                  | 69.1                           | 77.4                        | 84.8       | 46.7      | 41.7            | 63.1                          |
| Research assistant.....                           | 57.9             | 71.4                          | 86.4              | 82.6                                   | 48.0        | 75.0                          | 89.1        | 70.5                | 85.2                  | 52.8                           | 27.2                        | 21.7       | 37.8      | 41.7            | 50.8                          |
| Other university.....                             | 30.0             | 26.3                          | 17.1              | 30.4                                   | 28.5        | 19.7                          | 10.3        | 29.1                | 40.7                  | 40.4                           | 38.4                        | 41.8       | 26.7      | 25.0            | 29.2                          |
| Other.....  | 19.1             | 20.3                          | 16.0              | 14.5                                   | 17.1        | 28.9                          | 23.0        | 22.7                | 11.1                  | 22.2                           | 16.4                        | 16.8       | 11.1      | 20.8            | 15.4                          |
| Unknown.....                                      | 3.1              | 3.1                           | 3.1               | 4.3                                    | 1.6         | 3.9                           | 2.3         | 2.7                 | 7.4                   | 3.6                            | 3.2                         | 2.1        | 6.7       | 4.2             | 7.7                           |
| Median years from baccalaureate to Ph.D.          |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Total time in years.....                          | 7.1              | 6.7                           | 6.3               | 7.1                                    | 6.4         | 6.9                           | 6.1         | 6.9                 | 7.6                   | 7.0                            | 9.3                         | 9.3        | 11.9      | 8.0             | 8.0                           |
| Registered time.....                              | 6.4              | 6.1                           | 5.9               | 6.9                                    | 6.0         | 6.0                           | 5.2         | 6.3                 | 6.6                   | 6.3                            | 7.8                         | 7.9        | 8.2       | 5.2             | 6.5                           |

See explanatory information, if any, and SOURCE at end of table.

Table B-5. Statistical profile of doctorate recipients from Germany, by major field of doctorate, 1988-96

| Item   | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric, and Ocean Sciences | Mathematics | Computer/Information Sciences | Engineering | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education | Health Sciences | Professional and Other Fields |
|--|------------------|-------------------------------|-------------------|--|-------------|-------------------------------|-------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|-----------|-----------------|-------------------------------|
| <b>Planned location after Ph.D.</b>                              |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Number with permanent visas                                      | 612              | 359                           | 62                | 13                                     | 20          | 17                            | 41          | 79                  | 10                    | 117                            | 253                         | 195        | 27        | 6               | 25                            |
| U.S. total: percent.....   | 81.1             | 79.4                          | 71.0              | 84.6                                   | 85.0        | 94.1                          | 70.7        | 82.3                | 70.0                  | 82.1                           | 83.4                        | 85.1       | 85.2      | 83.3            | 68.0                          |
| Study.....   | 26.2             | 39.0                          | 52.3              | 36.4                                   | 23.5        | 25.0                          | 13.8        | 78.5                | 57.1                  | 17.7                           | 9.0                         | 7.2        | 8.7       | 40.0            | 17.6                          |
| Employment.....  | 70.4             | 59.0                          | 40.9              | 63.6                                   | 70.6        | 75.0                          | 86.2        | 20.0                | 42.9                  | 81.3                           | 85.8                        | 86.7       | 87.0      | 60.0            | 82.4                          |
| Unknown.....   | 3.4              | 2.1                           | 6.8               | 0.0                                    | 5.9         | 0.0                           | 0.0         | 1.5                 | 0.0                   | 1.0                            | 5.2                         | 6.0        | 4.3       | 0.0             | 0.0                           |
| Non-U.S. ....  | 9.6              | 12.8                          | 22.6              | 7.7                                    | 15.0        | 0.0                           | 24.4        | 10.1                | 20.0                  | 6.8                            | 5.1                         | 3.6        | 3.7       | 16.7            | 16.0                          |
| Unknown location.....  | 9.3              | 7.8                           | 6.5               | 7.7                                    | 0.0         | 5.9                           | 4.9         | 7.6                 | 10.0                  | 11.1                           | 11.5                        | 11.3       | 11.1      | 0.0             | 16.0                          |
| <b>Number with temporary visas</b>                               | 1,233            | 924                           | 225               | 56                                     | 103         | 59                            | 133         | 141                 | 17                    | 190                            | 309                         | 233        | 18        | 18              | 40                            |
| U.S. total: percent.....   | 47.8             | 46.4                          | 43.1              | 42.9                                   | 42.7        | 57.6                          | 48.9        | 50.4                | 47.1                  | 45.3                           | 51.8                        | 57.9       | 38.9      | 50.0            | 22.5                          |
| Study.....   | 46.5             | 59.0                          | 87.6              | 75.0                                   | 29.5        | 29.4                          | 44.6        | 97.2                | 75.0                  | 26.7                           | 13.1                        | 12.6       | 14.3      | 33.3            | 0.0                           |
| Employment.....  | 52.0             | 39.6                          | 11.3              | 20.8                                   | 68.2        | 70.6                          | 53.8        | 2.8                 | 25.0                  | 70.9                           | 85.0                        | 85.2       | 85.7      | 66.7            | 100.0                         |
| Unknown.....   | 1.5              | 1.4                           | 1.0               | 4.2                                    | 2.3         | 0.0                           | 1.5         | 0.0                 | 0.0                   | 2.3                            | 1.9                         | 2.2        | 0.0       | 0.0             | 0.0                           |
| Non-U.S. ....  | 41.8             | 43.2                          | 46.2              | 50.0                                   | 43.7        | 23.7                          | 39.9        | 42.6                | 41.2                  | 46.3                           | 37.5                        | 33.0       | 33.3      | 44.4            | 62.5                          |
| Unknown location.....  | 10.5             | 10.4                          | 10.7              | 7.1                                    | 13.6        | 18.6                          | 11.3        | 7.1                 | 11.8                  | 8.4                            | 10.7                        | 9.0        | 27.8      | 5.6             | 15.0                          |
| <b>Number planning location in the United States after Ph.D.</b> | 1,085            | 714                           | 141               | 35                                     | 61          | 50                            | 94          | 136                 | 15                    | 182                            | 371                         | 301        | 30        | 14              | 26                            |
| Percent with definite postdoctoral study.....                    | 28.2             | 39.9                          | 64.5              | 45.7                                   | 23.0        | 24.0                          | 20.2        | 70.6                | 46.7                  | 16.5                           | 5.7                         | 4.7        | 10.0      | 14.3            | 7.7                           |
| Percent with definite employment.....                            | 40.1             | 32.9                          | 12.1              | 20.0                                   | 54.1        | 48.0                          | 38.3        | 6.6                 | 26.7                  | 57.7                           | 53.9                        | 53.2       | 46.7      | 42.9            | 76.9                          |
| Percent seeking postdoctoral study.....                          | 9.0              | 11.1                          | 12.1              | 17.1                                   | 4.9         | 4.0                           | 14.9        | 17.6                | 20.0                  | 5.5                            | 5.1                         | 5.0        | 0.0       | 21.4            | 3.8                           |
| Percent seeking employment.....                                  | 20.3             | 14.4                          | 8.5               | 14.3                                   | 14.8        | 24.0                          | 25.5        | 4.4                 | 6.7                   | 18.7                           | 31.5                        | 32.9       | 40.0      | 21.4            | 11.5                          |
| Percent with postdoctoral plans unknown.....                     | 2.4              | 1.7                           | 2.8               | 2.9                                    | 3.3         | 0.0                           | 1.1         | 0.7                 | 0.0                   | 1.6                            | 3.8                         | 4.3        | 3.3       | 0.0             | 0.0                           |

See explanatory information, if any, and SOURCE at end of table.

Table B-5. Statistical profile of doctorate recipients from Germany<sup>1</sup>, by major field of doctorate: 1988-96

| Item  | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric, and Ocean Sciences | Mathematics | Computer/Information Sciences | Engineering | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education | Health Sciences | Professional and Other Fields |
|---|------------------|-------------------------------|-------------------|--|-------------|-------------------------------|-------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|-----------|-----------------|-------------------------------|
| Number with definite employment plans in United States after Ph.D. Primary work activity: percent | 435              | 235                           | 17                | 7                                      | 33          | 24                            | 36          | 9                   | 4                     | 105                            | 200                         | 160        | 14        | 6               | 20                            |
| R&D.....  | 38.9             | 55.3                          | 76.5              | 71.4                                   | 42.4        | 62.5                          | 77.8        | 33.3                | D                     | 46.7                           | 19.5                        | 14.4       | 7.1       | 83.3            | 50.0                          |
| Teaching.....   | 44.6             | 27.2                          | 5.9               | 0.0                                    | 54.5        | 29.2                          | 8.3         | 33.3                | D                     | 29.5                           | 65.0                        | 69.4       | 71.4      | 16.7            | 40.0                          |
| Administrative.....   | 1.8              | 1.7                           | 5.9               | 0.0                                    | 0.0         | 0.0                           | 0.0         | 11.1                | D                     | 1.9                            | 2.0                         | 1.3        | 14.3      | 0.0             | 0.0                           |
| Professional services.....  | 4.8              | 7.7                           | 0.0               | 14.3                                   | 3.0         | 4.2                           | 11.1        | 11.1                | D                     | 9.5                            | 1.5                         | 1.3        | 7.1       | 0.0             | 0.0                           |
| Other.....  | 1.4              | 2.1                           | 0.0               | 0.0                                    | 0.0         | 0.0                           | 2.8         | 0.0                 | D                     | 3.8                            | 0.5                         | 0.6        | 0.0       | 0.0             | 0.0                           |
| Unknown.....  | 8.5              | 6.0                           | 11.8              | 14.3                                   | 0.0         | 4.2                           | 0.0         | 11.1                | D                     | 8.6                            | 11.5                        | 13.1       | 0.0       | 0.0             | 10.0                          |
| Type of employer: percent   |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Educational institution <sup>4</sup> .....  | 76.3             | 60.9                          | 17.6              | 14.3                                   | 93.9        | 70.8                          | 25.0        | 55.6                | D                     | 72.4                           | 94.5                        | 95.6       | 100.0     | 66.7            | 90.0                          |
| Industry/business.....  | 16.3             | 28.1                          | 76.5              | 85.7                                   | 6.1         | 29.2                          | 66.7        | 44.4                | D                     | 8.6                            | 2.5                         | 1.3        | 0.0       | 16.7            | 10.0                          |
| Government.....   | 2.5              | 3.8                           | 5.9               | 0.0                                    | 0.0         | 0.0                           | 5.6         | 0.0                 | D                     | 4.8                            | 1.0                         | 1.3        | 0.0       | 0.0             | 0.0                           |
| Nonprofit.....  | 1.8              | 3.0                           | 0.0               | 0.0                                    | 0.0         | 0.0                           | 2.8         | 0.0                 | D                     | 4.8                            | 0.5                         | 0.0        | 0.0       | 16.7            | 0.0                           |
| Other and unknown.....  | 3.0              | 4.3                           | 0.0               | 0.0                                    | 0.0         | 0.0                           | 0.0         | 0.0                 | D                     | 9.5                            | 1.5                         | 1.9        | 0.0       | 0.0             | 0.0                           |

D = data withheld to avoid potential disclosure of confidential information.

<sup>1</sup> Includes East Germany, West Germany, and the united Germany.

<sup>2</sup> This table includes all citizens of Germany who indicated a visa status (permanent or temporary visa). Those with unknown visa status are not included.

<sup>3</sup> 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. "Personal" includes a recipient's own earnings, family support, and loans. Federal research assistants are aggregated with university research assistants.

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

SOURCE: National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*.

Table B-6. Statistical profile of doctorate recipients from Greece, by major field of doctorate: 1988-96

| Item  | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric, and Ocean Sciences | Mathematics | Computer/Information Sciences | Engineering | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education | Health Sciences | Professional and Other Fields |
|---|------------------|-------------------------------|-------------------|--|-------------|-------------------------------|-------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|-----------|-----------------|-------------------------------|
| <b>Total Number of Ph.D.s<sup>1</sup></b> .....   | 1,499            | 1,343                         | 241               | 19                                     | 107         | 86                            | 546         | 108                 | 29                    | 207                            | 156                         | 57         | 29        | 20              | 50                            |
| Percent men.....                                  | 80.1             | 82.9                          | 85.5              | 78.9                                   | 86.9        | 87.2                          | 88.1        | 72.2                | 86.2                  | 67.6                           | 55.8                        | 35.1       | 51.7      | 55.0            | 82.0                          |
| Percent women.....                                | 20.0             | 17.1                          | 14.5              | 21.1                                   | 13.1        | 12.8                          | 11.9        | 27.8                | 13.8                  | 32.4                           | 44.2                        | 64.9       | 48.3      | 45.0            | 18.0                          |
| Percent with permanent visa.....                  | 16.7             | 15.2                          | 15.4              | 21.1                                   | 12.2        | 4.7                           | 11.7        | 17.6                | 10.3                  | 29.0                           | 30.1                        | 29.8       | 34.5      | 15.0            | 34.0                          |
| Percent with temporary visa.....                  | 83.3             | 84.8                          | 84.6              | 78.9                                   | 87.9        | 95.3                          | 88.3        | 82.4                | 89.7                  | 71.0                           | 69.9                        | 70.2       | 65.5      | 85.0            | 66.0                          |
| Percent married.....                              | 36.0             | 35.6                          | 31.5              | 52.6                                   | 31.8        | 22.1                          | 35.3        | 34.3                | 62.1                  | 44.0                           | 39.1                        | 43.9       | 37.9      | 30.0            | 38.0                          |
| Percent not married.....                          | 57.8             | 58.6                          | 62.2              | 47.4                                   | 61.7        | 66.3                          | 59.0        | 63.9                | 34.5                  | 50.2                           | 51.3                        | 49.1       | 62.1      | 45.0            | 50.0                          |
| Percent unknown.....                              | 6.2              | 5.8                           | 6.2               | 0.0                                    | 6.5         | 11.6                          | 5.7         | 1.9                 | 3.4                   | 5.8                            | 9.6                         | 7.0        | 0.0       | 25.0            | 12.0                          |
| Median age at Ph.D. in years.....                 | 29.7             | 29.5                          | 29.2              | 30.9                                   | 29.0        | 29.2                          | 29.1        | 30.4                | 30.7                  | 31.2                           | 31.5                        | 31.5       | 32.3      | 29.8            | 31.4                          |
| Percent with dependents.....                      | 19.9             | 19.4                          | 17.4              | 31.6                                   | 14.0        | 10.5                          | 20.9        | 16.7                | 44.8                  | 20.8                           | 24.4                        | 21.1       | 31.0      | 10.0            | 30.0                          |
| Percent receiving sources of support <sup>2</sup> |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Personal.....                                     | 54.5             | 53.8                          | 43.6              | 52.6                                   | 41.1        | 53.5                          | 51.8        | 53.7                | 58.6                  | 77.3                           | 60.3                        | 57.9       | 79.3      | 40.0            | 60.0                          |
| Foreign government.....                           | 2.9              | 2.8                           | 0.8               | 0.0                                    | 0.9         | 0.0                           | 2.7         | 3.7                 | 17.2                  | 5.3                            | 3.2                         | 1.8        | 10.3      | 0.0             | 2.0                           |
| University.....                                   | 94.3             | 95.7                          | 95.9              | 89.5                                   | 98.1        | 94.2                          | 96.7        | 97.2                | 93.1                  | 92.3                           | 82.7                        | 86.0       | 79.3      | 85.0            | 80.0                          |
| Teaching assistant.....                           | 64.2             | 64.5                          | 76.3              | 36.8                                   | 91.6        | 73.3                          | 57.1        | 45.4                | 17.2                  | 71.5                           | 62.2                        | 73.7       | 55.2      | 65.0            | 52.0                          |
| Research assistant.....                           | 73.5             | 77.4                          | 87.1              | 89.5                                   | 60.7        | 82.6                          | 86.6        | 76.9                | 93.1                  | 44.9                           | 40.4                        | 17.5       | 55.2      | 50.0            | 54.0                          |
| Other university.....                             | 24.6             | 23.5                          | 14.9              | 10.5                                   | 32.7        | 18.6                          | 20.7        | 26.9                | 17.2                  | 38.6                           | 33.3                        | 47.4       | 20.7      | 35.0            | 24.0                          |
| Other.....  | 11.2             | 10.4                          | 6.6               | 21.1                                   | 7.5         | 10.5                          | 9.3         | 15.7                | 10.3                  | 15.0                           | 18.6                        | 21.1       | 20.7      | 10.0            | 18.0                          |
| Unknown.....                                      | 3.5              | 3.0                           | 4.1               | 5.3                                    | 1.9         | 4.7                           | 3.1         | 0.9                 | 3.4                   | 1.9                            | 8.3                         | 12.3       | 0.0       | 15.0            | 6.0                           |
| Median years from baccalaureate to Ph.D.          |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Total time in years.....                          | 6.7              | 6.5                           | 6.5               | 7.8                                    | 6.1         | 6.4                           | 5.9         | 7.3                 | 7.8                   | 8.0                            | 8.4                         | 8.5        | 9.1       | 7.7             | 8.4                           |
| Registered time.....                              | 5.9              | 5.8                           | 5.9               | 7.6                                    | 5.7         | 5.8                           | 5.4         | 6.2                 | 5.9                   | 6.8                            | 7.0                         | 7.0        | 7.0       | 6.3             | 7.3                           |

See explanatory information, if any, and SOURCE at end of table.

Table B-6. Statistical profile of doctorate recipients from Greece, by major field of doctorate: 1988-96

| Item:  | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric, and Ocean Sciences | Mathematics | Computer/Information Sciences | Engineering | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education | Health Sciences | Professional and Other Fields |
|--|------------------|-------------------------------|-------------------|--|-------------|-------------------------------|-------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|-----------|-----------------|-------------------------------|
| <b>Planned location after Ph.D.</b>                              |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Number with permanent visas                                      | 251              | 204                           | 37                | 4                                      | 13          | 4                             | 64          | 19                  | 3                     | 60                             | 47                          | 17         | 10        | 3               | 17                            |
| U.S. total: percent.....   | 74.1             | 76.0                          | 64.9              | D                                      | 76.9        | D                             | 78.1        | 73.7                | D                     | 80.0                           | 66.0                        | 76.5       | 40.0      | D               | 76.5                          |
| Study.....   | 33.3             | 38.7                          | 66.7              | D                                      | 60.0        | D                             | 26.0        | 64.3                | D                     | 29.2                           | 6.5                         | 15.4       | 0.0       | D               | 0.0                           |
| Employment.....  | 64.5             | 59.4                          | 29.2              | D                                      | 40.0        | D                             | 74.0        | 28.6                | D                     | 68.8                           | 90.3                        | 76.9       | 100.0     | D               | 100.0                         |
| Unknown.....   | 2.2              | 1.9                           | 4.2               | D                                      | 0.0         | D                             | 0.0         | 7.1                 | D                     | 2.1                            | 3.2                         | 7.7        | 0.0       | D               | 0.0                           |
| Non-U.S.....   | 12.0             | 10.8                          | 18.9              | D                                      | 15.4        | D                             | 7.8         | 21.1                | D                     | 5.0                            | 17.0                        | 0.0        | 40.0      | D               | 17.6                          |
| Unknown location.....  | 13.9             | 13.2                          | 16.2              | D                                      | 7.7         | D                             | 14.1        | 5.3                 | D                     | 15.0                           | 17.0                        | 23.5       | 20.0      | D               | 5.9                           |
| Number with temporary visas                                      | 1,248            | 1,139                         | 204               | 15                                     | 94          | 82                            | 482         | 89                  | 26                    | 147                            | 109                         | 40         | 19        | 17              | 33                            |
| U.S. total: percent.....   | 47.8             | 48.7                          | 45.6              | 40.0                                   | 51.1        | 56.1                          | 50.4        | 59.6                | 26.9                  | 40.1                           | 36.5                        | 35.0       | 36.8      | 41.2            | 42.4                          |
| Study.....   | 46.2             | 47.8                          | 81.7              | 66.7                                   | 35.4        | 30.4                          | 36.2        | 92.5                | 71.4                  | 20.3                           | 26.2                        | 21.4       | 28.6      | 14.3            | 35.7                          |
| Employment.....  | 52.1             | 50.6                          | 17.2              | 33.3                                   | 60.4        | 67.4                          | 62.6        | 7.5                 | 28.6                  | 76.3                           | 71.4                        | 71.4       | 71.4      | 85.7            | 64.3                          |
| Unknown.....   | 1.7              | 1.6                           | 1.1               | 0.0                                    | 4.2         | 2.2                           | 1.2         | 0.0                 | 0.0                   | 3.4                            | 2.4                         | 7.1        | 0.0       | 0.0             | 0.0                           |
| Non-U.S.....   | 37.5             | 36.3                          | 36.3              | 40.0                                   | 39.4        | 36.6                          | 30.5        | 32.6                | 65.4                  | 49.7                           | 50.5                        | 45.0       | 52.6      | 52.9            | 54.5                          |
| Unknown location.....  | 14.7             | 15.0                          | 18.1              | 20.0                                   | 9.6         | 7.3                           | 19.1        | 7.9                 | 7.7                   | 10.2                           | 11.0                        | 20.0       | 10.5      | 5.9             | 3.0                           |
| <b>Number planning location in the United States after Ph.D.</b> | <b>783</b>       | <b>710</b>                    | <b>117</b>        | <b>8</b>                               | <b>58</b>   | <b>50</b>                     | <b>293</b>  | <b>67</b>           | <b>10</b>             | <b>107</b>                     | <b>73</b>                   | <b>27</b>  | <b>11</b> | <b>8</b>        | <b>27</b>                     |
| Percent with definite postdoctoral study.....                    | 30.0             | 32.0                          | 60.7              | 25.0                                   | 29.3        | 22.0                          | 20.5        | 62.7                | 60.0                  | 16.8                           | 11.0                        | 18.5       | 9.1       | 12.5            | 3.7                           |
| Percent with definite employment.....                            | 38.8             | 37.6                          | 13.7              | 50.0                                   | 43.1        | 48.0                          | 47.1        | 10.4                | 10.0                  | 48.6                           | 50.7                        | 55.6       | 27.3      | 50.0            | 55.6                          |
| Percent seeking postdoctoral study.....                          | 13.2             | 13.8                          | 17.9              | 25.0                                   | 10.3        | 8.0                           | 14.0        | 23.9                | 0.0                   | 7.5                            | 6.8                         | 0.0        | 9.1       | 0.0             | 14.8                          |
| Percent seeking employment.....                                  | 16.2             | 14.9                          | 6.0               | 0.0                                    | 13.8        | 20.0                          | 17.4        | 1.5                 | 30.0                  | 24.3                           | 28.8                        | 18.5       | 54.5      | 37.5            | 25.9                          |
| Percent with postdoctoral plans unknown.....                     | 1.8              | 1.7                           | 1.7               | 0.0                                    | 3.4         | 2.0                           | 1.0         | 1.5                 | 0.0                   | 2.8                            | 2.7                         | 7.4        | 0.0       | 0.0             | 0.0                           |

See explanatory information, if any, and SOURCE at end of table.

Table B-6. Statistical profile of doctorate recipients from Greece, by major field of doctorate: 1988-96

| Item   | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric, and Ocean Sciences | Mathematics | Computer/Information Sciences | Engineering | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education | Health Sciences | Professional and Other Fields |
|--|------------------|-------------------------------|-------------------|--|-------------|-------------------------------|-------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|-----------|-----------------|-------------------------------|
| Number with definite employment plans in United States after Ph.D. | 304              | 267                           | 16                | 4                                      | 25          | 24                            | 138         | 7                   | 1                     | 52                             | 37                          | 15         | 3         | 4               | 15                            |
| Primary work activity, percent                                     |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| R&D.....   | 53.6             | 57.3                          | 62.5              | D                                      | 40.0        | 70.8                          | 65.2        | 85.7                | D                     | 28.8                           | 27.0                        | 13.3       | D         | D               | 33.3                          |
| Teaching.....  | 29.0             | 27.0                          | 0.0               | D                                      | 40.0        | 25.0                          | 21.0        | 14.3                | D                     | 50.0                           | 43.2                        | 53.3       | D         | D               | 40.0                          |
| Administrative.....  | 0.7              | 0.8                           | 0.0               | D                                      | 0.0         | 0.0                           | 0.0         | 0.0                 | D                     | 3.8                            | 0.0                         | 0.0        | D         | D               | 0.0                           |
| Professional services.....   | 5.3              | 4.9                           | 25.0              | D                                      | 4.0         | 0.0                           | 3.6         | 0.0                 | D                     | 5.8                            | 8.1                         | 6.7        | D         | D               | 13.3                          |
| Other.....   | 1.6              | 1.5                           | 0.0               | D                                      | 0.0         | 4.2                           | 0.7         | 0.0                 | D                     | 3.8                            | 2.7                         | 6.7        | D         | D               | 0.0                           |
| Unknown.....   | 9.9              | 8.6                           | 12.5              | D                                      | 16.0        | 0.0                           | 9.4         | 0.0                 | D                     | 7.7                            | 18.9                        | 20.0       | D         | D               | 13.3                          |
| Type of employer, percent  |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Educational institution <sup>3</sup> .....                         | 58.2             | 55.4                          | 6.3               | D                                      | 88.0        | 50.0                          | 46.4        | 85.7                | D                     | 78.8                           | 78.4                        | 86.7       | D         | D               | 73.3                          |
| Industry/business.....   | 37.8             | 41.2                          | 93.8              | D                                      | 12.0        | 50.0                          | 50.7        | 14.3                | D                     | 11.5                           | 13.5                        | 6.7        | D         | D               | 13.3                          |
| Government.....  | 1.0              | 1.1                           | 0.0               | D                                      | 0.0         | 0.0                           | 1.4         | 0.0                 | D                     | 1.9                            | 0.0                         | 0.0        | D         | D               | 0.0                           |
| Nonprofit.....   | 1.0              | 0.4                           | 0.0               | D                                      | 0.0         | 0.0                           | 0.7         | 0.0                 | D                     | 0.0                            | 5.4                         | 6.7        | D         | D               | 6.7                           |
| Other and unknown.....   | 2.0              | 1.9                           | 0.0               | D                                      | 0.0         | 0.0                           | 0.7         | 0.0                 | D                     | 7.7                            | 2.7                         | 0.0        | D         | D               | 6.7                           |

D = data withheld to avoid potential disclosure of confidential information.

<sup>1</sup> This table includes all citizens of Greece who indicated a visa status (permanent or temporary visa). Those with unknown visa status are not included.

<sup>2</sup> 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. "Personal" includes a recipient's own earnings, family support, and loans. Federal research assistants are aggregated with university research assistants.

<sup>3</sup> Includes 2-year and 4-year colleges and universities, medical schools, and elementary/secondary schools.

SOURCE: National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*.

Table B-7. Statistical profile of doctorate recipients from India, by major field of doctorate: 1988-96

| Item  | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric, and Ocean Sciences | Mathematics | Computer/Information Sciences | Engineering | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education | Health Sciences | Professional and Other Fields |
|---|------------------|-------------------------------|-------------------|--|-------------|-------------------------------|-------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|-----------|-----------------|-------------------------------|
| <b>Total Number of Ph.D.s<sup>1</sup></b>         | 9,537            | 7,843                         | 1,069             | 94                                     | 261         | 747                           | 3,700       | 971                 | 176                   | 825                            | 1,694                       | 229        | 154       | 267             | 1,044                         |
| Percent men                                       | 80.0             | 81.9                          | 77.4              | 83.0                                   | 69.7        | 93.0                          | 95.2        | 53.3                | 79.5                  | 56.1                           | 71.4                        | 37.6       | 36.4      | 70.4            | 84.2                          |
| Percent women                                     | 20.0             | 18.1                          | 22.6              | 17.0                                   | 30.3        | 7.0                           | 4.8         | 46.7                | 20.5                  | 43.9                           | 28.6                        | 62.4       | 63.6      | 29.6            | 15.8                          |
| Percent with permanent visa                       | 17.2             | 15.8                          | 15.4              | 16.0                                   | 17.2        | 14.6                          | 12.5        | 24.2                | 14.2                  | 21.5                           | 24.1                        | 32.8       | 35.1      | 18.0            | 22.1                          |
| Percent with temporary visa                       | 82.8             | 84.3                          | 84.6              | 84.0                                   | 82.8        | 85.4                          | 87.5        | 75.8                | 85.8                  | 78.5                           | 75.9                        | 67.2       | 64.9      | 82.0            | 77.9                          |
| Percent married                                   | 51.0             | 49.6                          | 48.4              | 57.4                                   | 44.4        | 49.1                          | 48.0        | 52.5                | 63.6                  | 53.3                           | 57.6                        | 50.2       | 66.9      | 47.6            | 60.3                          |
| Percent not married                               | 41.7             | 43.3                          | 43.8              | 39.4                                   | 48.7        | 44.8                          | 45.4        | 40.3                | 28.4                  | 37.9                           | 34.2                        | 38.9       | 26.6      | 41.9            | 32.3                          |
| Percent unknown                                   | 7.3              | 7.1                           | 7.9               | 3.2                                    | 6.9         | 6.0                           | 6.7         | 7.2                 | 8.0                   | 8.7                            | 8.3                         | 10.9       | 6.5       | 10.5            | 7.4                           |
| Median age at Ph.D. in years                      | 30.0             | 29.7                          | 29.8              | 31.4                                   | 29.5        | 29.3                          | 29.2        | 30.2                | 32.0                  | 31.4                           | 32.1                        | 33.7       | 37.5      | 30.0            | 32.2                          |
| Percent with dependents                           | 37.0             | 35.7                          | 31.4              | 44.7                                   | 25.3        | 39.2                          | 38.4        | 30.8                | 55.1                  | 29.9                           | 43.0                        | 24.5       | 45.5      | 34.1            | 49.0                          |
| Percent receiving sources of support <sup>2</sup> |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Personal  | 34.2             | 30.4                          | 19.0              | 39.4                                   | 20.3        | 27.6                          | 29.2        | 33.8                | 39.8                  | 49.2                           | 51.6                        | 53.7       | 70.1      | 43.8            | 50.4                          |
| Foreign government                                | 0.9              | 0.8                           | 0.0               | 3.2                                    | 0.4         | 0.8                           | 0.7         | 0.8                 | 3.4                   | 2.2                            | 1.0                         | 1.3        | 3.9       | 0.7             | 0.6                           |
| University  | 94.2             | 94.7                          | 95.5              | 93.6                                   | 95.8        | 96.1                          | 94.7        | 95.3                | 89.2                  | 92.4                           | 92.0                        | 93.9       | 81.2      | 90.3            | 93.6                          |
| Teaching assistant                                | 65.4             | 64.3                          | 81.1              | 52.1                                   | 90.4        | 80.6                          | 56.3        | 54.1                | 24.4                  | 77.0                           | 70.5                        | 83.0       | 42.2      | 63.3            | 73.9                          |
| Research assistant                                | 74.4             | 78.8                          | 82.0              | 87.2                                   | 49.4        | 83.8                          | 87.5        | 66.0                | 80.1                  | 54.1                           | 54.0                        | 16.2       | 44.2      | 62.9            | 61.5                          |
| Other university                                  | 21.6             | 19.9                          | 13.5              | 19.1                                   | 21.5        | 20.5                          | 17.0        | 26.5                | 13.6                  | 33.5                           | 29.8                        | 40.2       | 31.2      | 21.7            | 29.3                          |
| Other   | 8.0              | 7.8                           | 4.0               | 10.6                                   | 3.8         | 10.8                          | 6.5         | 8.7                 | 17.0                  | 13.6                           | 9.1                         | 12.2       | 14.3      | 9.0             | 7.7                           |
| Unknown   | 4.1              | 4.0                           | 4.1               | 2.1                                    | 3.4         | 2.8                           | 4.2         | 3.4                 | 3.4                   | 5.1                            | 4.7                         | 3.9        | 3.9       | 7.9             | 4.1                           |
| Median years from baccalaureate to Ph.D.          | 8.4              | 8.0                           | 9.0               | 10.6                                   | 8.8         | 7.4                           | 7.2         | 9.0                 | 10.0                  | 10.3                           | 10.8                        | 11.8       | 16.9      | 8.2             | 10.9                          |
| Total time in years                               | 6.8              | 6.7                           | 7.6               | 8.2                                    | 7.6         | 6.4                           | 6.1         | 7.4                 | 7.2                   | 8.0                            | 7.3                         | 9.0        | 7.9       | 6.8             | 7.2                           |
| Registered time                                   |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |

See explanatory information, if any, and SOURCE at end of table.

Table B-7. Statistical profile of doctorate recipients from India, by major field of doctorate, 1988-96

| Item   | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric, and Ocean Sciences | Mathematics | Computer/Information Sciences | Engineering | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education | Health Sciences | Professional and Other Fields |
|--|------------------|-------------------------------|-------------------|--|-------------|-------------------------------|-------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|-----------|-----------------|-------------------------------|
| <b>Planned location after Ph.D.</b>                              |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Number with permanent visas                                      | 1,643            | 1,235                         | 165               | 15                                     | 45          | 109                           | 464         | 235                 | 25                    | 177                            | 408                         | 75         | 54        | 48              | 231                           |
| U.S. total percent   | 86.9             | 87.4                          | 89.1              | 86.7                                   | 91.1        | 93.6                          | 84.5        | 88.1                | 92.0                  | 87.0                           | 85.3                        | 77.3       | 88.9      | 85.4            | 87.0                          |
| Study  | 28.8             | 35.7                          | 50.3              | 38.5                                   | 17.1        | 7.8                           | 19.6        | 86.5                | 43.5                  | 16.2                           | 7.5                         | 10.3       | 12.5      | 19.5            | 3.0                           |
| Employment   | 68.1             | 61.6                          | 44.9              | 61.5                                   | 80.5        | 89.2                          | 79.1        | 12.1                | 56.5                  | 77.3                           | 88.2                        | 86.2       | 81.3      | 73.2            | 93.5                          |
| Unknown  | 3.1              | 2.7                           | 4.8               | 0.0                                    | 2.4         | 2.9                           | 1.3         | 1.4                 | 0.0                   | 6.5                            | 4.3                         | 3.4        | 6.3       | 7.3             | 3.5                           |
| Non-U.S.   | 2.9              | 2.8                           | 1.8               | 0.0                                    | 6.7         | 2.8                           | 2.4         | 3.0                 | 0.0                   | 4.5                            | 3.2                         | 2.7        | 1.9       | 0.0             | 4.3                           |
| Unknown location   | 10.2             | 9.8                           | 9.1               | 13.3                                   | 2.2         | 3.7                           | 13.2        | 8.9                 | 8.0                   | 8.5                            | 11.5                        | 20.0       | 9.3       | 14.6            | 8.7                           |
| <b>Number with temporary visas</b>                               | 7,894.0          | 6,608.0                       | 904.0             | 79.0                                   | 216.0       | 638.0                         | 3,236.0     | 736.0               | 151.0                 | 648.0                          | 1,286.0                     | 154.0      | 100.0     | 219.0           | 813.0                         |
| U.S. total percent   | 77               | 78                            | 74                | 70                                     | 71          | 83                            | 80          | 86                  | 72                    | 61                             | 75                          | 58         | 54        | 79              | 79                            |
| Study  | 38.8             | 43.9                          | 77.9              | 65.5                                   | 21.6        | 18.2                          | 33.0        | 90.7                | 70.6                  | 15.4                           | 11.7                        | 14.4       | 18.5      | 43.0            | 2.3                           |
| Employment   | 59.5             | 54.6                          | 20.7              | 32.7                                   | 75.8        | 79.9                          | 65.4        | 8.2                 | 29.4                  | 83.3                           | 85.6                        | 81.1       | 77.8      | 54.1            | 95.4                          |
| Unknown  | 1.7              | 1.5                           | 1.3               | 1.8                                    | 2.6         | 1.9                           | 1.6         | 1.1                 | 0.0                   | 1.3                            | 2.7                         | 4.4        | 3.7       | 2.9             | 2.3                           |
| Non-U.S.   | 12.9             | 12.4                          | 14.3              | 20.3                                   | 16.2        | 11.0                          | 9.5         | 7.6                 | 19.2                  | 26.9                           | 15.6                        | 31.2       | 27.0      | 5.9             | 13.8                          |
| Unknown location   | 10.1             | 10.1                          | 11.5              | 10.1                                   | 13.0        | 6.4                           | 10.8        | 6.5                 | 8.6                   | 12.2                           | 9.7                         | 10.4       | 19.0      | 15.5            | 6.9                           |
| <b>Number planning location in the United States after Ph.D.</b> | 7,509            | 6,200                         | 818               | 68                                     | 194         | 629                           | 2,971       | 839                 | 132                   | 549                            | 1,309                       | 148        | 102       | 213             | 846                           |
| Percent with definite postdoctoral study                         | 25.5             | 29.5                          | 56.6              | 36.8                                   | 13.9        | 12.6                          | 19.6        | 65.9                | 35.6                  | 9.7                            | 6.3                         | 4.7        | 4.9       | 27.2            | 1.5                           |
| Percent with definite employment                                 | 44.6             | 39.7                          | 15.3              | 30.9                                   | 51.5        | 64.9                          | 47.4        | 6.0                 | 20.5                  | 59.0                           | 67.6                        | 54.1       | 43.1      | 39.4            | 80.0                          |
| Percent seeking postdoctoral study                               | 11.5             | 13.0                          | 16.4              | 23.5                                   | 6.7         | 4.0                           | 11.7        | 23.7                | 30.3                  | 6.0                            | 4.2                         | 8.1        | 10.8      | 11.3            | 1.0                           |
| Percent seeking employment                                       | 16.5             | 16.1                          | 9.8               | 7.4                                    | 25.3        | 16.5                          | 19.8        | 3.2                 | 13.6                  | 22.6                           | 18.7                        | 29.1       | 36.3      | 18.3            | 14.9                          |
| Percent with postdoctoral plans unknown                          | 2.0              | 1.7                           | 2.0               | 1.5                                    | 2.6         | 2.1                           | 1.6         | 1.2                 | 0.0                   | 2.7                            | 3.1                         | 4.1        | 4.9       | 3.8             | 2.6                           |

See explanatory information, if any, and SOURCE at end of table.



Table B-7. Statistical profile of doctorate recipients from India, by major field of doctorate, 1988-96

| Item  | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric, and Ocean Sciences | Mathematics | Computer/Information Sciences | Engineering  | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education | Health Sciences | Professional and Other Fields |
|---|------------------|-------------------------------|-------------------|--|-------------|-------------------------------|--------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|-----------|-----------------|-------------------------------|
| <b>Number with definite employment plans in United States after Ph.D.</b> | <b>3,348</b>     | <b>2,463</b>                  | <b>125</b>        | <b>21</b>                              | <b>100</b>  | <b>408</b>                    | <b>1,408</b> | <b>50</b>           | <b>27</b>             | <b>324</b>                     | <b>885</b>                  | <b>80</b>  | <b>44</b> | <b>84</b>       | <b>677</b>                    |
| Primary work activity: percent  |                  |                               |                   |  |             |                               |              |                     |                       |                                |                             |            |           |                 |                               |
| R&D.....  | 59.6             | 66.3                          | 80.0              | 38.1                                   | 47.0        | 71.1                          | 72.5         | 50.0                | 48.1                  | 40.1                           | 40.8                        | 7.5        | 18.2      | 66.7            | 43.0                          |
| Teaching.....   | 22.8             | 14.6                          | 7.2               | 9.5                                    | 33.0        | 18.6                          | 8.9          | 16.0                | 3.7                   | 32.4                           | 45.5                        | 81.3       | 63.6      | 14.3            | 44.0                          |
| Administrative.....   | 0.7              | 0.7                           | 0.8               | 0.0                                    | 2.0         | 0.2                           | 0.4          | 2.0                 | 3.7                   | 1.2                            | 0.8                         | 0.0        | 2.3       | 1.2             | 0.7                           |
| Professional services.....  | 5.8              | 7.0                           | 3.2               | 19.0                                   | 7.0         | 2.7                           | 7.9          | 12.0                | 22.2                  | 7.4                            | 2.3                         | 1.3        | 2.3       | 3.6             | 2.2                           |
| Other.....  | 2.1              | 2.5                           | 0.0               | 4.8                                    | 1.0         | 1.0                           | 2.8          | 0.0                 | 3.7                   | 4.9                            | 0.8                         | 0.0        | 4.5       | 2.4             | 0.4                           |
| Unknown.....  | 9.1              | 8.9                           | 8.8               | 28.6                                   | 10.0        | 6.4                           | 7.5          | 20.0                | 18.5                  | 13.9                           | 9.8                         | 10.0       | 9.1       | 11.9            | 9.6                           |
| <b>Type of employer: percent</b>  |                  |                               |                   |  |             |                               |              |                     |                       |                                |                             |            |           |                 |                               |
| Educational institution <sup>3</sup> .....                                | 44.0             | 30.2                          | 18.4              | 33.3                                   | 63.0        | 39.5                          | 17.3         | 38.0                | 18.5                  | 68.5                           | 82.3                        | 98.8       | 81.8      | 22.6            | 87.7                          |
| Industry/business.....  | 50.7             | 63.5                          | 75.2              | 47.6                                   | 35.0        | 58.6                          | 78.4         | 48.0                | 66.7                  | 12.7                           | 14.8                        | 1.3        | 11.4      | 72.6            | 9.5                           |
| Government.....   | 1.8              | 2.0                           | 3.2               | 9.5                                    | 0.0         | 1.0                           | 1.5          | 6.0                 | 3.7                   | 4.6                            | 1.0                         | 0.0        | 4.5       | 2.4             | 0.7                           |
| Nonprofit.....  | 2.0              | 2.4                           | 2.4               | 4.8                                    | 2.0         | 1.0                           | 2.0          | 6.0                 | 3.7                   | 4.9                            | 0.9                         | 0.0        | 2.3       | 2.4             | 0.7                           |
| Other and unknown.....  | 1.6              | 1.9                           | 0.8               | 4.8                                    | 0.0         | 0.0                           | 0.8          | 2.0                 | 7.4                   | 9.3                            | 1.0                         | 0.0        | 0.0       | 0.0             | 1.3                           |

<sup>1</sup> This table includes all citizens of India who indicated a visa status (permanent or temporary visa). Those with unknown visa status are not included.

<sup>2</sup> 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. "Personal" includes a recipient's own earnings, family support, and loans. Federal research assistants are aggregated with university research assistants.

<sup>3</sup> Includes 2-year and 4-year colleges and universities, medical schools, and elementary/secondary schools.

SOURCE: National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*.

Table B-8. Statistical profile of doctorate recipients from Italy, by major field of doctorate: 1988-96

| Item  | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric and Ocean Sciences | Mathematics | Computer/Information Sciences | Engineering | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education | Health Sciences | Professional and Other Fields |
|---|------------------|-------------------------------|-------------------|---------------------------------------|-------------|-------------------------------|-------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|-----------|-----------------|-------------------------------|
| Total Number of Ph.D.s <sup>1</sup>               | 883              | 658                           | 119               | 20                                    | 113         | 28                            | 96          | 64                  | 10                    | 208                            | 225                         | 182        | 9         | 12              | 22                            |
| Percent men                                       | 65.1             | 72.8                          | 80.7              | 50.0                                  | 71.7        | 82.1                          | 94.8        | 51.6                | 80.0                  | 65.9                           | 42.7                        | 38.5       | 44.4      | 66.7            | 63.6                          |
| Percent women                                     | 34.9             | 27.2                          | 19.3              | 50.0                                  | 28.3        | 17.9                          | 5.2         | 48.4                | 20.0                  | 34.1                           | 57.3                        | 61.5       | 55.6      | 33.3            | 36.4                          |
| Percent with permanent visa                       | 21.6             | 16.1                          | 10.9              | 30.0                                  | 6.2         | 14.3                          | 13.5        | 39.1                | 0.0                   | 18.3                           | 37.8                        | 39.0       | 55.6      | 25.0            | 27.3                          |
| Percent with temporary visa                       | 78.4             | 83.9                          | 89.1              | 70.0                                  | 93.8        | 85.7                          | 86.5        | 60.9                | 100.0                 | 81.7                           | 62.2                        | 61.0       | 44.4      | 75.0            | 72.7                          |
| Percent married                                   | 40.2             | 38.5                          | 33.6              | 40.0                                  | 33.6        | 32.1                          | 39.6        | 51.6                | 60.0                  | 38.9                           | 45.3                        | 44.0       | 44.4      | 58.3            | 50.0                          |
| Percent not married                               | 53.8             | 56.1                          | 60.5              | 55.0                                  | 62.8        | 60.7                          | 59.4        | 42.2                | 20.0                  | 53.8                           | 47.1                        | 48.9       | 44.4      | 25.0            | 45.5                          |
| Percent unknown                                   | 6.0              | 5.5                           | 5.9               | 5.0                                   | 3.5         | 7.1                           | 1.0         | 6.3                 | 20.0                  | 7.2                            | 7.6                         | 7.1        | 11.1      | 16.7            | 4.5                           |
| Median age at Ph.D. in years                      | 32.0             | 31.3                          | 30.5              | 32.7                                  | 30.3        | 31.0                          | 31.7        | 31.3                | 35.7                  | 32.3                           | 35.4                        | 34.9       | 45.5      | 37.5            | 34.3                          |
| Percent with dependents                           | 23.6             | 22.3                          | 16.0              | 20.0                                  | 14.2        | 28.6                          | 28.1        | 32.8                | 60.0                  | 22.1                           | 27.1                        | 24.7       | 44.4      | 33.3            | 36.4                          |
| Percent receiving sources of support <sup>2</sup> |                  |                               |                   |                                       |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Personal  | 60.1             | 53.8                          | 45.4              | 65.0                                  | 30.1        | 42.9                          | 59.4        | 65.6                | 40.0                  | 66.3                           | 78.7                        | 78.0       | 88.9      | 83.3            | 77.3                          |
| Foreign government                                | 19.4             | 23.3                          | 10.1              | 20.0                                  | 38.9        | 14.3                          | 17.7        | 10.9                | 60.0                  | 28.4                           | 8.0                         | 7.7        | 0.0       | 16.7            | 9.1                           |
| University  | 90.1             | 91.3                          | 96.6              | 100.0                                 | 93.8        | 92.9                          | 96.9        | 78.1                | 70.0                  | 88.5                           | 86.7                        | 89.6       | 55.6      | 75.0            | 81.8                          |
| Teaching assistant                                | 63.6             | 61.9                          | 68.1              | 40.0                                  | 84.1        | 50.0                          | 44.8        | 37.5                | 20.0                  | 67.3                           | 68.9                        | 78.0       | 44.4      | 16.7            | 31.8                          |
| Research assistant                                | 52.3             | 62.2                          | 85.7              | 95.0                                  | 50.4        | 78.6                          | 86.5        | 56.3                | 60.0                  | 40.4                           | 23.6                        | 18.1       | 22.2      | 58.3            | 50.0                          |
| Other university                                  | 31.9             | 28.3                          | 27.7              | 20.0                                  | 26.5        | 17.9                          | 11.5        | 32.8                | 10.0                  | 38.9                           | 42.7                        | 46.2       | 33.3      | 16.7            | 31.8                          |
| Other   | 22.4             | 23.4                          | 11.8              | 20.0                                  | 14.2        | 32.1                          | 11.5        | 31.3                | 10.0                  | 38.0                           | 19.6                        | 18.7       | 33.3      | 16.7            | 22.7                          |
| Unknown   | 3.4              | 2.7                           | 3.4               | 0.0                                   | 4.4         | 3.6                           | 0.0         | 3.1                 | 20.0                  | 1.9                            | 5.3                         | 5.5        | 0.0       | 16.7            | 0.0                           |
| Median years from baccalaureate to Ph.D.          |                  |                               |                   |                                       |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Total time in years                               | 7.3              | 7.0                           | 6.3               | 7.5                                   | 6.1         | 7.4                           | 6.8         | 6.9                 | 9.4                   | 7.8                            | 9.7                         | 9.3        | 16.7      | 10.8            | 9.8                           |
| Registered time                                   | 5.8              | 5.5                           | 5.1               | 6.2                                   | 4.9         | 5.4                           | 5.1         | 5.9                 | 5.0                   | 5.8                            | 7.0                         | 7.0        | 7.8       | 7.4             | 5.7                           |

See explanatory information, if any, and SOURCE at end of table.

Table B-8. Statistical profile of doctorate recipients from Italy, by major field of doctorate, 1988-96

| Item   | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric, and Ocean Sciences | Mathematics | Computer/Information Sciences | Engineering | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education | Health Sciences | Professional and Other Fields |
|--|------------------|-------------------------------|-------------------|--|-------------|-------------------------------|-------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|-----------|-----------------|-------------------------------|
| <b>Planned location after Ph.D.</b>                              |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Number with permanent visas                                      | 191              | 106                           | 13                | 6                                      | 7           | 4                             | 13          | 25                  | 0                     | 38                             | 85                          | 71         | 5         | 3               | 6                             |
| U.S. total: percent  | 78.0             | 74.5                          | 92.3              | 83.3                                   | 42.9        | D                             | 53.8        | 92.0                | 0.0                   | 68.4                           | 82.4                        | 81.7       | D         | D               | 83.3                          |
| Study  | 32.9             | 45.6                          | 75.0              | 20.0                                   | 66.7        | D                             | 14.3        | 73.9                | 0.0                   | 23.1                           | 18.6                        | 15.5       | D         | D               | 20.0                          |
| Employment   | 65.8             | 53.2                          | 25.0              | 80.0                                   | 33.3        | D                             | 85.7        | 21.7                | 0.0                   | 76.9                           | 80.0                        | 82.8       | D         | D               | 80.0                          |
| Unknown  | 1.3              | 1.3                           | 0.0               | 0.0                                    | 0.0         | D                             | 0.0         | 4.3                 | 0.0                   | 0.0                            | 1.4                         | 1.7        | D         | D               | 0.0                           |
| Non-U.S.   | 8.9              | 11.3                          | 7.7               | 16.7                                   | 28.6        | D                             | 23.1        | 0.0                 | 0.0                   | 13.2                           | 5.9                         | 7.0        | D         | D               | 0.0                           |
| Unknown location   | 13.1             | 14.2                          | 0.0               | 0.0                                    | 28.6        | D                             | 23.1        | 8.0                 | 0.0                   | 18.4                           | 11.8                        | 11.3       | D         | D               | 16.7                          |
| Number with temporary visas                                      | 692              | 552                           | 106               | 14                                     | 106         | 24                            | 83          | 39                  | 10                    | 170                            | 140                         | 111        | 4         | 9               | 16                            |
| U.S. total: percent  | 38.3             | 37.9                          | 32.1              | 42.9                                   | 29.2        | 45.8                          | 38.6        | 48.7                | 20.0                  | 43.5                           | 40.0                        | 44.1       | D         | 11.1            | 25.0                          |
| Study  | 44.5             | 51.7                          | 91.2              | 66.7                                   | 71.0        | 18.2                          | 50.0        | 78.9                | 50.0                  | 23.0                           | 17.9                        | 18.4       | D         | 0.0             | 0.0                           |
| Employment   | 54.7             | 47.8                          | 8.8               | 33.3                                   | 29.0        | 81.8                          | 50.0        | 21.1                | 0.0                   | 77.0                           | 80.4                        | 79.6       | D         | 0.0             | 100.0                         |
| Unknown  | 0.8              | 0.5                           | 0.0               | 0.0                                    | 0.0         | 0.0                           | 0.0         | 0.0                 | 50.0                  | 0.0                            | 1.8                         | 2.0        | D         | 0.0             | 0.0                           |
| Non-U.S.   | 51.6             | 53.4                          | 55.7              | 0.0                                    | 59.4        | 45.8                          | 53.0        | 46.2                | 70.0                  | 50.0                           | 44.3                        | 40.5       | D         | 55.6            | 62.5                          |
| Unknown location   | 10.1             | 8.7                           | 12.3              |  | 11.3        | 8.3                           | 8.4         | 5.1                 | 10.0                  | 6.5                            | 15.7                        | 15.3       | D         | 33.3            | 12.5                          |
| <b>Number planning location in the United States after Ph.D.</b> | <b>414</b>       | <b>288</b>                    | <b>46</b>         | <b>11</b>                              | <b>34</b>   | <b>14</b>                     | <b>39</b>   | <b>42</b>           | <b>2</b>              | <b>100</b>                     | <b>126</b>                  | <b>107</b> | <b>6</b>  | <b>4</b>        | <b>9</b>                      |
| Percent with definite postdoctoral study                         | 25.1             | 32.6                          | 63.0              | 18.2                                   | 55.9        | 14.3                          | 17.9        | 52.4                | D                     | 13.0                           | 7.9                         | 6.5        | 16.7      | D               | 0.0                           |
| Percent with definite employment                                 | 41.3             | 36.1                          | 13.0              | 45.5                                   | 20.6        | 78.6                          | 41.0        | 7.1                 | D                     | 56.0                           | 53.2                        | 54.2       | 50.0      | D               | 55.6                          |
| Percent seeking postdoctoral study                               | 15.2             | 17.4                          | 23.9              | 27.3                                   | 14.7        | 0.0                           | 25.6        | 23.8                | D                     | 10.0                           | 10.3                        | 10.3       | 0.0       | D               | 11.1                          |
| Percent seeking employment                                       | 17.4             | 13.2                          | 0.0               | 9.1                                    | 8.8         | 7.1                           | 15.4        | 14.3                | D                     | 21.0                           | 27.0                        | 27.1       | 33.3      | D               | 33.3                          |
| Percent with postdoctoral plans unknown                          | 1.0              | 0.7                           | 0.0               | 0.0                                    | 0.0         | 0.0                           | 0.0         | 2.4                 | D                     | 0.0                            | 1.6                         | 1.9        | 0.0       | D               | 0.0                           |

See explanatory information, if any, and SOURCE at end of table.

Table B-8. Statistical profile of doctorate recipients from Italy, by major field of doctorate: 1988-96

| Item  | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric, and Ocean Sciences | Mathematics | Computer/Information Sciences | Engineering | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education | Health Sciences | Professional and Other Fields |
|---|------------------|-------------------------------|-------------------|--|-------------|-------------------------------|-------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|-----------|-----------------|-------------------------------|
| <b>Number with definite employment plans in United States after Ph.D.</b> | <b>171</b>       | <b>104</b>                    | <b>6</b>          | <b>5</b>                               | <b>7</b>    | <b>11</b>                     | <b>16</b>   | <b>3</b>            | <b>0</b>              | <b>56</b>                      | <b>67</b>                   | <b>58</b>  | <b>3</b>  | <b>1</b>        | <b>5</b>                      |
| Primary work activity: percent  |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| R&D.....  | 40.9             | 56.7                          | 50.0              | D                                      | 28.6        | 81.8                          | 50.0        | D                   | 0.0                   | 55.4                           | 16.4                        | 12.1       | D         | D               | D                             |
| Teaching.....   | 40.4             | 24.0                          | 33.3              | D                                      | 42.9        | 18.2                          | 37.5        | D                   | 0.0                   | 17.9                           | 65.7                        | 70.7       | D         | D               | D                             |
| Administrative.....   | 0.6              | 0.0                           | 0.0               | D                                      | 0.0         | 0.0                           | 0.0         | D                   | 0.0                   | 0.0                            | 1.5                         | 0.0        | D         | D               | D                             |
| Professional services.....  | 2.3              | 3.8                           | 0.0               | D                                      | 0.0         | 0.0                           | 0.0         | D                   | 0.0                   | 7.1                            | 0.0                         | 0.0        | D         | D               | D                             |
| Other.....  | 1.8              | 2.9                           | 0.0               | D                                      | 0.0         | 0.0                           | 6.3         | D                   | 0.0                   | 3.6                            | 0.0                         | 0.0        | D         | D               | D                             |
| Unknown.....  | 14.0             | 12.5                          | 16.7              | D                                      | 28.6        | 0.0                           | 6.3         | D                   | 0.0                   | 16.1                           | 16.4                        | 17.2       | D         | D               | D                             |
| Type of employer: percent   |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Educational institution <sup>3</sup> .....                                | 77.8             | 67.3                          | 33.3              | D                                      | 100.0       | 63.6                          | 50.0        | D                   | 0.0                   | 73.2                           | 94.0                        | 94.8       | D         | D               | D                             |
| Industry/business.....  | 12.3             | 19.2                          | 50.0              | D                                      | 0.0         | 36.4                          | 50.0        | D                   | 0.0                   | 3.6                            | 1.5                         | 1.7        | D         | D               | D                             |
| Government.....   | 0.6              | 1.0                           | 0.0               | D                                      | 0.0         | 0.0                           | 0.0         | D                   | 0.0                   | 1.8                            | 0.0                         | 0.0        | D         | D               | D                             |
| Nonprofit.....  | 3.5              | 4.8                           | 16.7              | D                                      | 0.0         | 0.0                           | 0.0         | D                   | 0.0                   | 7.1                            | 1.5                         | 1.7        | D         | D               | D                             |
| Other and unknown.....  | 5.8              | 7.7                           | 0.0               | D                                      | 0.0         | 0.0                           | 0.0         | D                   | 0.0                   | 14.3                           | 3.0                         | 1.7        | D         | D               | D                             |

D = data withheld to avoid potential disclosure of confidential information.

<sup>1</sup> This table includes all citizens of Italy who indicated a visa status (permanent or temporary visa). Those with unknown visa status are not included.

<sup>2</sup> 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. "Personal" includes a recipient's own earnings, family support, and loans. Federal research assistants are aggregated with university research assistants.

<sup>3</sup> Includes 2-year and 4-year colleges and universities, medical schools, and elementary/secondary schools.

SOURCE: National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*.

Table B-9. Statistical profile of doctorate recipients from Korea, by major field of doctorate, 1988-96

| Item  | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric, and Ocean Sciences | Mathematics | Computer/Information Sciences | Engineering  | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education  | Health Sciences | Professional and Other Fields |
|---|------------------|-------------------------------|-------------------|--|-------------|-------------------------------|--------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|------------|-----------------|-------------------------------|
| <b>Total Number of Ph.D.s<sup>2</sup></b>         | <b>11,294</b>    | <b>8,851</b>                  | <b>1,271</b>      | <b>155</b>                             | <b>377</b>  | <b>350</b>                    | <b>3,377</b> | <b>985</b>          | <b>335</b>            | <b>2,001</b>                   | <b>2,443</b>                | <b>461</b> | <b>626</b> | <b>152</b>      | <b>1,204</b>                  |
| Percent men.....                                  | 84.4             | 88.3                          | 86.9              | 89.7                                   | 77.5        | 90.0                          | 99.0         | 67.2                | 86.0                  | 83.6                           | 70.4                        | 53.4       | 51.1       | 62.5            | 87.9                          |
| Percent women.....                                | 15.6             | 11.7                          | 13.1              | 10.3                                   | 22.5        | 10.0                          | 1.0          | 32.8                | 14.0                  | 16.4                           | 29.6                        | 46.6       | 48.9       | 37.5            | 12.1                          |
| Percent with permanent visa.....                  | 9.1              | 8.1                           | 6.9               | 9.0                                    | 7.4         | 11.1                          | 8.6          | 9.0                 | 6.9                   | 7.3                            | 12.6                        | 16.7       | 10.9       | 11.8            | 12.0                          |
| Percent with temporary visa.....                  | 91.0             | 91.9                          | 93.2              | 91.0                                   | 92.6        | 88.9                          | 91.4         | 91.0                | 93.1                  | 92.8                           | 87.4                        | 83.3       | 89.1       | 88.2            | 88.0                          |
| Percent married.....                              | 82.8             | 83.8                          | 81.9              | 87.7                                   | 80.4        | 85.7                          | 86.5         | 82.2                | 88.4                  | 80.5                           | 79.2                        | 68.5       | 77.3       | 75.0            | 84.8                          |
| Percent not married.....                          | 13.4             | 12.7                          | 14.8              | 9.7                                    | 15.7        | 8.9                           | 10.2         | 15.3                | 9.9                   | 15.2                           | 15.7                        | 23.9       | 20.0       | 18.4            | 10.1                          |
| Percent unknown.....                              | 3.8              | 3.5                           | 3.3               | 2.6                                    | 4.0         | 5.4                           | 3.4          | 2.4                 | 1.8                   | 4.3                            | 5.1                         | 7.6        | 2.7        | 6.6             | 5.2                           |
| Median age at Ph.D. in years.....                 | 33.7             | 33.5                          | 32.8              | 34.3                                   | 33.0        | 34.3                          | 33.4         | 33.0                | 33.3                  | 34.2                           | 34.6                        | 34.6       | 34.4       | 33.8            | 34.8                          |
| Percent with dependents.....                      | 77.8             | 79.2                          | 76.5              | 79.4                                   | 73.2        | 85.4                          | 84.0         | 74.2                | 81.2                  | 74.9                           | 72.7                        | 56.2       | 69.5       | 65.8            | 81.6                          |
| Percent receiving sources of support <sup>3</sup> |                  |                               |                   |  |             |                               |              |                     |                       |                                |                             |            |            |                 |                               |
| Personal.....                                     | 77.4             | 74.8                          | 59.2              | 72.3                                   | 66.6        | 81.1                          | 77.1         | 66.4                | 80.0                  | 84.7                           | 87.0                        | 85.0       | 89.3       | 73.7            | 88.3                          |
| Foreign government.....                           | 6.4              | 6.8                           | 3.4               | 13.5                                   | 5.6         | 10.6                          | 9.8          | 3.8                 | 6.3                   | 4.5                            | 5.2                         | 2.4        | 9.1        | 3.9             | 4.4                           |
| University.....                                   | 87.6             | 90.2                          | 95.4              | 91.6                                   | 92.0        | 87.7                          | 90.3         | 95.0                | 93.1                  | 83.7                           | 78.1                        | 71.4       | 67.4       | 85.5            | 85.3                          |
| Teaching assistant.....                           | 47.1             | 47.9                          | 69.1              | 29.7                                   | 86.7        | 62.9                          | 36.0         | 38.8                | 7.5                   | 57.2                           | 44.3                        | 46.4       | 27.5       | 30.3            | 53.9                          |
| Research assistant.....                           | 65.2             | 71.2                          | 86.9              | 85.2                                   | 35.8        | 64.0                          | 80.8         | 79.7                | 88.4                  | 44.8                           | 43.3                        | 15.2       | 36.1       | 65.1            | 55.1                          |
| Other university.....                             | 16.5             | 14.3                          | 12.6              | 10.3                                   | 14.9        | 9.7                           | 8.4          | 21.2                | 7.2                   | 24.1                           | 24.6                        | 32.5       | 21.9       | 12.5            | 24.4                          |
| Other.....  | 7.2              | 6.8                           | 3.3               | 5.8                                    | 1.9         | 6.9                           | 6.8          | 6.9                 | 4.5                   | 10.5                           | 8.4                         | 10.6       | 5.8        | 14.5            | 8.1                           |
| Unknown.....                                      | 4.4              | 4.1                           | 3.6               | 4.5                                    | 5.3         | 3.4                           | 4.3          | 2.5                 | 2.4                   | 5.2                            | 5.5                         | 8.5        | 3.8        | 6.6             | 5.1                           |
| Median years from baccalaureate to Ph.D.          |                  |                               |                   |  |             |                               |              |                     |                       |                                |                             |            |            |                 |                               |
| Total time in years.....                          | 10.4             | 10.3                          | 9.7               | 11.3                                   | 10.3        | 10.8                          | 10.4         | 9.8                 | 9.8                   | 10.5                           | 10.8                        | 11.1       | 10.8       | 10.8            | 11.0                          |
| Registered time.....                              | 7.3              | 7.3                           | 7.3               | 8.3                                    | 7.8         | 7.5                           | 7.0          | 7.3                 | 6.8                   | 7.7                            | 7.8                         | 8.3        | 7.1        | 7.5             | 7.8                           |

See explanatory information, if any, and SOURCE at end of table.

Table B-9. Statistical profile of doctorate recipients from Korea<sup>1</sup>, by major field of doctorate: 1988-96

| Item   | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric, and Ocean Sciences | Mathematics | Computer/Information Sciences | Engineering  | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education  | Health Sciences | Professional and Other Fields |
|--|------------------|-------------------------------|-------------------|--|-------------|-------------------------------|--------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|------------|-----------------|-------------------------------|
| <b>Planned location after Ph.D.</b>                              |                  |                               |                   |  |             |                               |              |                     |                       |                                |                             |            |            |                 |                               |
| Number with permanent visas                                      | 1,022            | 715                           | 87                | 14                                     | 28          | 39                            | 290          | 89                  | 23                    | 145                            | 307                         | 77         | 68         | 18              | 144                           |
| U.S. total: percent.....   | 56.0             | 61.0                          | 67.8              | 57.1                                   | 60.7        | 59.0                          | 65.2         | 77.5                | 56.5                  | 40.0                           | 44.3                        | 44.2       | 38.2       | 55.6            | 45.8                          |
| Study.....   | 41.6             | 50.7                          | 84.8              | 62.5                                   | 41.2        | 17.4                          | 34.4         | 92.8                | 76.9                  | 27.6                           | 12.5                        | 5.9        | 19.2       | 50.0            | 7.6                           |
| Employment.....  | 56.1             | 47.7                          | 15.3              | 37.5                                   | 52.9        | 78.3                          | 64.0         | 7.2                 | 23.1                  | 69.0                           | 83.1                        | 88.2       | 80.8       | 30.0            | 89.4                          |
| Unknown.....   | 2.3              | 1.6                           | 0.0               | 0.0                                    | 5.9         | 4.3                           | 1.6          | 0.0                 | 0.0                   | 3.5                            | 4.4                         | 5.9        | 0.0        | 20.0            | 3.0                           |
| Non-U.S. ....  | 31.0             | 25.6                          | 19.5              | 21.4                                   | 28.6        | 28.2                          | 21.7         | 11.2                | 34.8                  | 43.5                           | 43.7                        | 45.5       | 44.1       | 38.9            | 43.1                          |
| Unknown location.....  | 13.0             | 13.4                          | 12.6              | 21.4                                   | 10.7        | 12.8                          | 13.1         | 11.2                | 8.7                   | 16.6                           | 12.1                        | 10.4       | 17.6       | 5.6             | 11.1                          |
| <b>Number with temporary visas</b>                               | <b>10,272</b>    | <b>8,136</b>                  | <b>1,184</b>      | <b>141</b>                             | <b>349</b>  | <b>311</b>                    | <b>3,087</b> | <b>896</b>          | <b>312</b>            | <b>1,856</b>                   | <b>2,136</b>                | <b>384</b> | <b>558</b> | <b>134</b>      | <b>1,060</b>                  |
| U.S. total: percent.....   | 31.3             | 33.9                          | 53.9              | 31.9                                   | 21.8        | 27.7                          | 30.3         | 61.0                | 36.9                  | 17.2                           | 21.3                        | 15.9       | 10.9       | 39.6            | 26.3                          |
| Study.....   | 66.9             | 73.7                          | 94.7              | 91.1                                   | 53.9        | 23.3                          | 63.5         | 96.9                | 91.3                  | 31.4                           | 25.8                        | 23.0       | 31.1       | 92.5            | 12.5                          |
| Employment.....  | 31.4             | 25.1                          | 4.7               | 6.7                                    | 42.1        | 72.1                          | 35.3         | 2.7                 | 7.8                   | 66.1                           | 69.8                        | 63.9       | 67.2       | 5.7             | 83.9                          |
| Unknown.....   | 1.7              | 1.2                           | 0.6               | 2.2                                    | 3.9         | 4.7                           | 1.2          | 0.4                 | 0.9                   | 2.5                            | 4.4                         | 13.1       | 1.6        | 1.9             | 3.6                           |
| Non-U.S. ....  | 56.4             | 54.1                          | 36.2              | 54.6                                   | 63.0        | 63.0                          | 56.1         | 32.4                | 51.3                  | 69.7                           | 65.2                        | 72.1       | 74.9       | 51.5            | 59.3                          |
| Unknown location.....  | 12.3             | 12.0                          | 9.9               | 13.5                                   | 15.2        | 9.3                           | 13.6         | 6.6                 | 11.9                  | 13.1                           | 13.6                        | 12.0       | 14.2       | 9.0             | 14.4                          |
| <b>Number planning location in the United States after Ph.D.</b> | <b>3,787</b>     | <b>3,197</b>                  | <b>697</b>        | <b>53</b>                              | <b>93</b>   | <b>109</b>                    | <b>1,124</b> | <b>616</b>          | <b>128</b>            | <b>377</b>                     | <b>590</b>                  | <b>95</b>  | <b>87</b>  | <b>63</b>       | <b>345</b>                    |
| Percent with definite postdoctoral study.....                    | 41.6             | 47.1                          | 68.9              | 45.3                                   | 26.9        | 10.1                          | 31.7         | 76.3                | 59.4                  | 16.7                           | 12.2                        | 6.3        | 10.3       | 65.1            | 4.6                           |
| Percent with definite employment.....                            | 20.3             | 15.6                          | 3.3               | 7.5                                    | 25.8        | 38.5                          | 21.4         | 2.1                 | 5.5                   | 37.9                           | 45.9                        | 25.3       | 35.6       | 3.2             | 62.0                          |
| Percent seeking postdoctoral study.....                          | 21.5             | 23.5                          | 25.0              | 41.5                                   | 24.7        | 11.9                          | 27.0         | 20.1                | 30.5                  | 14.1                           | 10.5                        | 10.5       | 17.2       | 20.6            | 7.0                           |
| Percent seeking employment.....                                  | 14.8             | 12.6                          | 2.3               | 3.8                                    | 18.3        | 34.9                          | 18.7         | 1.1                 | 3.9                   | 28.7                           | 27.0                        | 47.4       | 35.6       | 6.3             | 22.9                          |
| Percent with postdoctoral plans unknown.....                     | 1.8              | 1.3                           | 0.6               | 1.9                                    | 4.3         | 4.6                           | 1.3          | 0.3                 | 0.8                   | 2.7                            | 4.4                         | 10.5       | 1.1        | 4.8             | 3.5                           |

See explanatory information, if any, and SOURCE at end of table.

Table B-9. Statistical profile of doctorate recipients from Korea, by major field of doctorate: 1988-96

| Item  | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric, and Ocean Sciences | Mathematics | Computer/Information Sciences | Engineering | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education | Health Sciences | Professional and Other Fields |
|---|------------------|-------------------------------|-------------------|--|-------------|-------------------------------|-------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|-----------|-----------------|-------------------------------|
| <b>Number with definite employment plans in United States after Ph.D.</b> | <b>768</b>       | <b>497</b>                    | <b>23</b>         | <b>4</b>                               | <b>24</b>   | <b>42</b>                     | <b>241</b>  | <b>13</b>           | <b>7</b>              | <b>143</b>                     | <b>271</b>                  | <b>24</b>  | <b>31</b> | <b>2</b>        | <b>214</b>                    |
| Primary work activity: percent  |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| R&D.....  | 51.0             | 62.6                          | 78.3              | D                                      | 33.3        | 61.9                          | 77.2        | 53.8                | 100.0                 | 39.2                           | 29.9                        | 4.2        | 45.2      | D               | 29.9                          |
| Teaching.....   | 35.6             | 25.8                          | 4.4               | D                                      | 58.3        | 26.2                          | 13.7        | 15.4                | 0.0                   | 46.9                           | 53.5                        | 75.0       | 38.7      | D               | 53.7                          |
| Administrative.....   | 0.4              | 0.2                           | 0.0               | D                                      | 0.0         | 0.0                           | 0.0         | 0.0                 | 0.0                   | 0.7                            | 0.7                         | 0.0        | 3.2       | D               | 0.5                           |
| Professional services.....  | 3.9              | 3.8                           | 8.7               | D                                      | 0.0         | 0.0                           | 4.6         | 7.7                 | 0.0                   | 2.8                            | 4.1                         | 0.0        | 6.5       | D               | 4.2                           |
| Other.....  | 0.9              | 0.4                           | 4.4               | D                                      | 0.0         | 0.0                           | 0.0         | 0.0                 | 0.0                   | 0.7                            | 1.9                         | 12.5       | 0.0       | D               | 0.9                           |
| Unknown.....  | 8.2              | 7.2                           | 4.4               | D                                      | 8.3         | 11.9                          | 4.6         | 23.1                | 0.0                   | 9.8                            | 10.0                        | 8.3        | 6.5       | D               | 10.8                          |
| Type of employer: percent   |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Educational institution <sup>4</sup> .....                                | 63.3             | 49.9                          | 13.0              | D                                      | 95.8        | 47.6                          | 29.1        | 69.2                | 42.9                  | 83.2                           | 87.8                        | 83.3       | 80.6      | D               | 90.2                          |
| Industry/business.....  | 28.4             | 41.5                          | 69.6              | D                                      | 4.2         | 50.0                          | 63.9        | 23.1                | 42.9                  | 4.2                            | 4.4                         | 0.0        | 9.7       | D               | 3.7                           |
| Government.....   | 2.6              | 3.6                           | 13.0              | D                                      | 0.0         | 2.4                           | 2.9         | 7.7                 | 14.3                  | 2.8                            | 0.7                         | 0.0        | 3.2       | D               | 0.0                           |
| Nonprofit.....  | 4.0              | 2.8                           | 0.0               | D                                      | 0.0         | 0.0                           | 3.7         | 0.0                 | 0.0                   | 3.5                            | 6.3                         | 16.7       | 6.5       | D               | 5.1                           |
| Other and unknown.....  | 1.7              | 2.2                           | 4.4               | D                                      | 0.0         | 0.0                           | 0.4         | 0.0                 | 0.0                   | 6.3                            | 0.7                         | 0.0        | 0.0       | D               | 0.9                           |

<sup>1</sup>D = data withheld to avoid potential disclosure of confidential information.

<sup>2</sup>Includes all responses for South Korea, North Korea, and unspecified Korean locations.

<sup>3</sup>This table includes all citizens of Korea who indicated a visa status (permanent or temporary visa). Those with unknown visa status are not included.

<sup>4</sup>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. "Personal" includes a recipient's own earnings, family support, and loans. Federal research assistants are aggregated with university research assistants.

<sup>5</sup>Includes 2-year and 4-year colleges and universities, medical schools, and elementary/secondary schools.

SOURCE: National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*.

Table B-10. Statistical profile of doctorate recipients from Mexico, by major field of doctorate: 1988-96

| Item  | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric, and Ocean Sciences | Mathematics | Computer/Information Sciences | Engineering | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education | Health Sciences | Professional and Other Fields |
|---|------------------|-------------------------------|-------------------|--|-------------|-------------------------------|-------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|-----------|-----------------|-------------------------------|
| <b>Total Number of Ph.D.s<sup>1</sup></b>         | 1,359            | 1,126                         | 102               | 61                                     | 68          | 26                            | 238         | 230                 | 198                   | 203                            | 233                         | 91         | 63        | 41              | 38                            |
| Percent men.....                                  | 80.7             | 83.3                          | 88.2              | 93.4                                   | 92.6        | 100.0                         | 92.0        | 70.9                | 88.9                  | 70.9                           | 68.2                        | 65.9       | 58.7      | 68.3            | 89.5                          |
| Percent women.....                                | 19.3             | 16.7                          | 11.8              | 6.6                                    | 7.4         | 0.0                           | 8.0         | 29.1                | 11.1                  | 29.1                           | 31.8                        | 34.1       | 41.3      | 31.7            | 10.5                          |
| Percent with permanent visa.....                  | 18.0             | 15.7                          | 15.7              | 19.7                                   | 16.2        | 15.4                          | 13.0        | 13.9                | 15.7                  | 19.7                           | 28.8                        | 38.5       | 23.8      | 19.5            | 23.7                          |
| Percent with temporary visa.....                  | 82.1             | 84.3                          | 84.3              | 80.3                                   | 83.8        | 84.6                          | 87.0        | 86.1                | 84.3                  | 80.3                           | 71.2                        | 61.5       | 76.2      | 80.5            | 76.3                          |
| Percent married.....                              | 65.5             | 65.9                          | 54.9              | 63.9                                   | 61.8        | 53.8                          | 70.2        | 63.9                | 81.3                  | 57.1                           | 63.5                        | 57.1       | 65.1      | 68.3            | 71.1                          |
| Percent not married.....                          | 30.0             | 29.6                          | 42.2              | 29.5                                   | 32.4        | 38.5                          | 26.9        | 33.0                | 13.1                  | 36.5                           | 32.2                        | 39.6       | 30.2      | 26.8            | 23.7                          |
| Percent unknown.....                              | 4.5              | 4.5                           | 2.9               | 6.6                                    | 5.9         | 7.7                           | 2.9         | 3.0                 | 5.6                   | 6.4                            | 4.3                         | 3.3        | 4.8       | 4.9             | 5.3                           |
| Median age at Ph.D. in years.....                 | 34.5             | 34.0                          | 31.8              | 35.5                                   | 32.3        | 32.5                          | 33.2        | 33.7                | 36.0                  | 35.2                           | 36.3                        | 36.2       | 37.7      | 34.8            | 36.2                          |
| Percent with dependents.....                      | 60.6             | 61.0                          | 52.0              | 62.3                                   | 57.4        | 50.0                          | 63.4        | 56.5                | 81.3                  | 50.2                           | 58.4                        | 52.7       | 54.0      | 63.4            | 73.7                          |
| Percent receiving sources of support <sup>2</sup> |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Personal.....                                     | 46.9             | 43.0                          | 40.2              | 32.8                                   | 27.9        | 50.0                          | 46.6        | 39.6                | 38.4                  | 55.7                           | 65.7                        | 78.0       | 54.0      | 53.7            | 68.4                          |
| Foreign government.....                           | 45.0             | 48.8                          | 31.4              | 41.0                                   | 48.5        | 57.7                          | 46.6        | 50.4                | 70.2                  | 38.4                           | 26.6                        | 11.0       | 36.5      | 51.2            | 21.1                          |
| University.....                                   | 77.8             | 78.4                          | 94.1              | 73.8                                   | 89.7        | 76.9                          | 85.7        | 77.4                | 58.6                  | 80.3                           | 74.7                        | 84.6       | 58.7      | 73.2            | 78.9                          |
| Teaching assistant.....                           | 44.0             | 42.5                          | 68.6              | 32.8                                   | 70.6        | 42.3                          | 45.8        | 34.3                | 15.2                  | 54.7                           | 51.5                        | 76.9       | 30.2      | 22.0            | 57.9                          |
| Research assistant.....                           | 48.9             | 52.9                          | 80.4              | 67.2                                   | 30.9        | 50.0                          | 66.4        | 50.9                | 48.0                  | 34.0                           | 29.2                        | 15.4       | 25.4      | 63.4            | 31.6                          |
| Other university.....                             | 22.5             | 21.5                          | 17.6              | 18.0                                   | 25.0        | 30.8                          | 17.2        | 21.7                | 14.1                  | 34.0                           | 27.5                        | 38.5       | 23.8      | 17.1            | 18.4                          |
| Other.....  | 21.9             | 20.9                          | 13.7              | 18.0                                   | 10.3        | 19.2                          | 14.3        | 22.2                | 14.6                  | 41.4                           | 27.0                        | 16.5       | 34.9      | 29.3            | 36.8                          |
| Unknown.....                                      | 3.8              | 3.9                           | 2.9               | 8.2                                    | 2.9         | 3.8                           | 3.4         | 3.0                 | 3.5                   | 5.4                            | 3.4                         | 1.1        | 3.2       | 4.9             | 7.9                           |
| Median years from baccalaureate to Ph.D.          |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Total time in years.....                          | 10.3             | 9.9                           | 8.6               | 11.5                                   | 8.1         | 8.9                           | 10.0        | 9.1                 | 11.8                  | 10.1                           | 12.0                        | 10.0       | 13.3      | 12.4            | 14.0                          |
| Registered time.....                              | 6.5              | 6.4                           | 6.8               | 7.3                                    | 6.8         | 6.4                           | 6.4         | 6.5                 | 5.8                   | 6.8                            | 7.3                         | 7.3        | 7.0       | 8.4             | 7.3                           |

See explanatory information, if any, and SOURCE at end of table.



Table B-10. Statistical profile of doctorate recipients from Mexico, by major field of doctorate, 1988-96

| Item   | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric, and Ocean Sciences | Mathematics | Computer/Information Sciences | Engineering | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education | Health Sciences | Professional and Other Fields |
|--|------------------|-------------------------------|-------------------|--|-------------|-------------------------------|-------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|-----------|-----------------|-------------------------------|
| <b>Planned location after Ph.D.</b>                              |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Number with permanent visas                                      | 244              | 177                           | 16                | 12                                     | 11          | 4                             | 31          | 32                  | 31                    | 40                             | 67                          | 35         | 15        | 8               | 9                             |
| U.S. total: percent.....   | 71.3             | 68.9                          | 81.3              | 58.3                                   | 81.8        | D                             | 67.7        | 75.0                | 48.4                  | 75.0                           | 77.6                        | 85.7       | 73.3      | 62.5            | 66.7                          |
| Study.....   | 26.4             | 34.4                          | 38.5              | 42.9                                   | 44.4        | D                             | 33.3        | 54.2                | 13.3                  | 26.7                           | 7.7                         | 10.0       | 9.1       | 0.0             | 0.0                           |
| Employment.....  | 70.1             | 62.3                          | 61.5              | 57.1                                   | 55.6        | D                             | 61.9        | 33.3                | 86.7                  | 73.3                           | 88.5                        | 83.3       | 90.9      | 100.0           | 100.0                         |
| Unknown.....   | 3.5              | 3.3                           | 0.0               | 0.0                                    | 0.0         | D                             | 4.8         | 12.5                | 0.0                   | 0.0                            | 3.8                         | 6.7        | 0.0       | 0.0             | 0.0                           |
| Non-U.S.....   | 18.9             | 22.0                          | 12.5              | 33.3                                   | 18.2        | D                             | 12.9        | 18.8                | 48.4                  | 12.5                           | 10.4                        | 8.6        | 13.3      | 25.0            | 0.0                           |
| Unknown location.....  | 9.8              | 9.0                           | 6.3               | 8.3                                    | 0.0         | D                             | 19.4        | 6.3                 | 3.2                   | 12.5                           | 11.9                        | 5.7        | 13.3      | 12.5            | 33.3                          |
| <b>Number with temporary visas</b>                               | 1,115            | 949                           | 86                | 49                                     | 57          | 22                            | 207         | 198                 | 167                   | 163                            | 166                         | 56         | 48        | 33              | 29                            |
| U.S. total: percent.....   | 30.9             | 31.1                          | 55.8              | 26.5                                   | 22.8        | 50.0                          | 39.1        | 35.4                | 12.0                  | 23.9                           | 29.5                        | 37.5       | 20.8      | 33.3            | 24.1                          |
| Study.....   | 54.1             | 59.7                          | 79.2              | 69.2                                   | 46.2        | 18.2                          | 46.9        | 92.9                | 50.0                  | 20.5                           | 20.4                        | 9.5        | 20.0      | 54.5            | 0.0                           |
| Employment.....  | 44.8             | 39.0                          | 20.8              | 23.1                                   | 53.8        | 81.8                          | 53.1        | 5.7                 | 50.0                  | 74.4                           | 79.6                        | 90.5       | 80.0      | 45.5            | 100.0                         |
| Unknown.....   | 1.2              | 1.4                           | 0.0               | 7.7                                    | 0.0         | 0.0                           | 0.0         | 1.4                 | 0.0                   | 5.1                            | 0.0                         | 0.0        | 0.0       | 0.0             | 0.0                           |
| Non-U.S.....   | 61.2             | 61.4                          | 40.7              | 65.3                                   | 70.2        | 40.9                          | 49.3        | 61.1                | 77.8                  | 69.9                           | 59.6                        | 55.4       | 68.8      | 54.5            | 58.6                          |
| Unknown location.....  | 8.0              | 7.5                           | 3.5               | 8.2                                    | 7.0         | 9.1                           | 11.6        | 3.5                 | 10.2                  | 6.1                            | 10.8                        | 7.1        | 10.4      | 12.1            | 17.2                          |
| <b>Number planning location in the United States after Ph.D.</b> | 518              | 417                           | 61                | 20                                     | 22          | 14                            | 102         | 94                  | 35                    | 69                             | 101                         | 51         | 21        | 16              | 13                            |
| Percent with definite postdoctoral study.....                    | 28.8             | 33.8                          | 47.5              | 35.0                                   | 22.7        | 14.3                          | 23.5        | 62.8                | 22.9                  | 10.1                           | 7.9                         | 5.9        | 9.5       | 18.8            | 0.0                           |
| Percent with definite employment.....                            | 33.8             | 30.2                          | 14.8              | 20.0                                   | 50.0        | 42.9                          | 43.1        | 7.4                 | 34.3                  | 47.8                           | 48.5                        | 54.9       | 28.6      | 31.3            | 76.9                          |
| Percent seeking postdoctoral study.....                          | 16.0             | 18.5                          | 23.0              | 25.0                                   | 22.7        | 0.0                           | 20.6        | 20.2                | 11.4                  | 13.0                           | 5.9                         | 3.9        | 4.8       | 18.8            | 0.0                           |
| Percent seeking employment.....                                  | 19.5             | 15.6                          | 14.8              | 15.0                                   | 4.5         | 42.9                          | 11.8        | 5.3                 | 31.4                  | 26.1                           | 35.6                        | 31.4       | 57.1      | 31.3            | 23.1                          |
| Percent with postdoctoral plans unknown.....                     | 1.9              | 1.9                           | 0.0               | 5.0                                    | 0.0         | 0.0                           | 1.0         | 4.3                 | 0.0                   | 2.9                            | 2.0                         | 3.9        | 0.0       | 0.0             | 0.0                           |

See explanatory information, if any, and SOURCE at end of table.

Table B-10. Statistical profile of doctorate recipients from Mexico, by major field of doctorate: 1988-96

| Item   | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric, and Ocean Sciences | Mathematics | Computer/Information Sciences | Engineering | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education | Health Sciences | Professional and Other Fields |
|--|------------------|-------------------------------|-------------------|--|-------------|-------------------------------|-------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|-----------|-----------------|-------------------------------|
| Number with definite employment plans in United States after Ph.D. | 175              | 126                           | 9                 | 4                                      | 11          | 6                             | 44          | 7                   | 12                    | 33                             | 49                          | 28         | 6         | 5               | 10                            |
| Primary work activity: percent                                     |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| R&D.....   | 45.1             | 53.2                          | 88.9              | D                                      | 18.2        | 100.0                         | 56.8        | 42.9                | 83.3                  | 33.3                           | 24.5                        | 14.3       | 50.0      | D               | 20.0                          |
| Teaching.....  | 35.4             | 27.0                          | 11.1              | D                                      | 72.7        | 0.0                           | 20.5        | 28.6                | 0.0                   | 42.4                           | 57.1                        | 60.7       | 50.0      | D               | 70.0                          |
| Administrative.....  | 2.9              | 1.6                           | 0.0               | D                                      | 0.0         | 0.0                           | 2.3         | 0.0                 | 0.0                   | 3.0                            | 6.1                         | 10.7       | -0.0      | D               | 0.0                           |
| Professional services.....   | 5.7              | 7.9                           | 0.0               | D                                      | 9.1         | 0.0                           | 9.1         | 14.3                | 8.3                   | 6.1                            | 0.0                         | 0.0        | 0.0       | D               | 0.0                           |
| Other.....   | 1.7              | 2.4                           | 0.0               | D                                      | 0.0         | 0.0                           | 2.3         | 14.3                | 0.0                   | 3.0                            | 0.0                         | 0.0        | 0.0       | D               | 0.0                           |
| Unknown.....   | 9.1              | 7.9                           | 0.0               | D                                      | 0.0         | 0.0                           | 9.1         | 0.0                 | 8.3                   | 12.1                           | 12.2                        | 14.3       | 0.0       | D               | 10.0                          |
| Type of employer: percent  |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Educational institution <sup>3</sup> .....                         | 59.4             | 49.2                          | 11.1              | D                                      | 90.9        | 16.7                          | 43.2        | 42.9                | 41.7                  | 66.7                           | 85.7                        | 85.7       | 100.0     | D               | 90.0                          |
| Industry/business.....   | 29.7             | 38.9                          | 66.7              | D                                      | 9.1         | 83.3                          | 52.3        | 42.9                | 50.0                  | 6.1                            | 6.1                         | 7.1        | 0.0       | D               | 0.0                           |
| Government.....  | 4.0              | 5.6                           | 11.1              | D                                      | 0.0         | 0.0                           | 4.5         | 0.0                 | 8.3                   | 9.1                            | 0.0                         | 0.0        | 0.0       | D               | 0.0                           |
| Nonprofit.....   | 1.7              | 0.8                           | 11.1              | D                                      | 0.0         | 0.0                           | 0.0         | 0.0                 | 0.0                   | 0.0                            | 4.1                         | 3.6        | 0.0       | D               | 10.0                          |
| Other and unknown.....   | 5.1              | 5.6                           | 0.0               | D                                      | 0.0         | 0.0                           | 0.0         | 14.3                | 0.0                   | 18.2                           | 4.1                         | 3.6        | 0.0       | D               | 0.0                           |

D = data withheld to avoid potential disclosure of confidential information.

<sup>1</sup> This table includes all citizens of Mexico who indicated a visa status (permanent or temporary visa). Those with unknown visa status are not included.

<sup>2</sup> 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. "Personal" includes a recipient's own earnings, family support, and loans. Federal research assistants are aggregated with university research assistants.

<sup>3</sup> Includes 2-year and 4-year colleges and universities, medical schools, and elementary/secondary schools.

SOURCE: National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*.

Table B-11. Statistical profile of doctorate recipients from Scandinavia, by major field of doctorate: 1988-96

| Item  | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric, and Ocean Sciences | Mathematics | Computer/Information Sciences | Engineering | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education | Health Sciences | Professional and Other Fields |
|---|------------------|-------------------------------|-------------------|--|-------------|-------------------------------|-------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|-----------|-----------------|-------------------------------|
| Total Number of Ph.D.s <sup>2</sup>               | 823              | 612                           | 97                | 40                                     | 44          | 33                            | 112         | 92                  | 32                    | 162                            | 211                         | 90         | 41        | 22              | 58                            |
| Percent men                                       | 65.4             | 69.6                          | 78.4              | 77.5                                   | 90.9        | 81.8                          | 85.7        | 55.4                | 50.0                  | 54.9                           | 53.1                        | 50.0       | 36.6      | 27.3            | 79.3                          |
| Percent women                                     | 34.6             | 30.4                          | 21.6              | 22.5                                   | 9.1         | 18.2                          | 14.3        | 44.6                | 50.0                  | 45.1                           | 46.9                        | 50.0       | 63.4      | 72.7            | 20.7                          |
| Percent with permanent visa                       | 24.1             | 20.6                          | 19.6              | 5.0                                    | 6.8         | 27.3                          | 13.4        | 27.2                | 21.9                  | 28.4                           | 34.1                        | 42.2       | 29.3      | 36.4            | 24.1                          |
| Percent with temporary visa                       | 75.9             | 79.4                          | 80.4              | 95.0                                   | 93.2        | 72.7                          | 86.6        | 72.8                | 78.1                  | 71.6                           | 65.9                        | 57.8       | 70.7      | 63.6            | 75.9                          |
| Percent married                                   | 51.3             | 47.7                          | 44.3              | 50.0                                   | 36.4        | 45.5                          | 46.4        | 54.3                | 65.6                  | 46.3                           | 61.6                        | 54.4       | 68.3      | 72.7            | 63.8                          |
| Percent not married                               | 42.2             | 45.8                          | 49.5              | 45.0                                   | 56.8        | 48.5                          | 50.9        | 40.2                | 28.1                  | 43.2                           | 31.8                        | 40.0       | 26.8      | 18.2            | 27.6                          |
| Percent unknown                                   | 6.6              | 6.5                           | 6.2               | 5.0                                    | 6.8         | 6.1                           | 2.7         | 5.4                 | 6.3                   | 10.5                           | 6.6                         | 5.6        | 4.9       | 9.1             | 8.6                           |
| Median age at Ph.D. in years                      | 32.3             | 31.7                          | 30.7              | 33.2                                   | 30.0        | 31.4                          | 31.0        | 31.5                | 33.5                  | 33.1                           | 35.3                        | 34.8       | 38.2      | 36.4            | 33.5                          |
| Percent with dependents                           | 37.3             | 33.7                          | 25.8              | 47.5                                   | 20.5        | 15.2                          | 34.8        | 38.0                | 46.9                  | 36.4                           | 47.9                        | 40.0       | 61.0      | 54.5            | 48.3                          |
| Percent receiving sources of support <sup>3</sup> |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Personal  | 61.0             | 54.9                          | 41.2              | 50.0                                   | 34.1        | 63.6                          | 51.8        | 64.1                | 56.3                  | 64.8                           | 78.7                        | 86.7       | 80.5      | 72.7            | 67.2                          |
| Foreign government                                | 33.5             | 34.3                          | 19.6              | 42.5                                   | 38.6        | 39.4                          | 40.2        | 31.5                | 59.4                  | 31.5                           | 31.3                        | 23.3       | 41.5      | 22.7            | 39.7                          |
| University  | 84.2             | 86.1                          | 95.9              | 90.0                                   | 81.8        | 87.9                          | 91.1        | 91.3                | 68.8                  | 77.2                           | 78.7                        | 82.2       | 75.6      | 72.7            | 77.6                          |
| Teaching assistant                                | 50.2             | 49.0                          | 64.9              | 35.0                                   | 70.5        | 57.6                          | 34.8        | 42.4                | 15.6                  | 55.6                           | 53.6                        | 68.9       | 41.5      | 31.8            | 46.6                          |
| Research assistant                                | 56.4             | 65.7                          | 83.5              | 82.5                                   | 61.4        | 78.8                          | 83.0        | 70.7                | 53.1                  | 37.0                           | 29.4                        | 14.4       | 29.3      | 31.8            | 51.7                          |
| Other university                                  | 28.1             | 25.5                          | 21.6              | 22.5                                   | 27.3        | 21.2                          | 16.1        | 33.7                | 9.4                   | 34.0                           | 35.5                        | 42.2       | 22.0      | 31.8            | 36.2                          |
| Other   | 32.9             | 31.2                          | 22.7              | 35.0                                   | 25.0        | 33.3                          | 26.8        | 31.5                | 25.0                  | 40.7                           | 37.9                        | 40.0       | 43.9      | 36.4            | 31.0                          |
| Unknown   | 4.3              | 4.9                           | 4.1               | 7.5                                    | 4.5         | 6.1                           | 2.7         | 1.1                 | 3.1                   | 8.6                            | 2.4                         | 1.1        |           | 4.5             | 5.2                           |
| Median years from baccalaureate to Ph.D.          |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Total time in years                               | 8.0              | 7.5                           | 6.3               | 9.5                                    | 6.0         | 7.1                           | 6.8         | 7.6                 | 8.3                   | 8.3                            | 10.2                        | 10.0       | 13.5      | 12.0            | 8.5                           |
| Registered time                                   | 6.4              | 6.2                           | 5.8               | 7.3                                    | 5.3         | 6.4                           | 5.6         | 6.4                 | 5.9                   | 7.0                            | 6.9                         | 8.2        | 6.6       | 7.3             | 6.0                           |

See explanatory information, if any, and SOURCE at end of table.

Table B-11. Statistical profile of doctorate recipients from Scandinavia, by major field of doctorate: 1988-96

| Item   | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric, and Ocean Sciences | Mathematics | Computer/Information Sciences | Engineering | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education | Health Sciences | Professional and Other Fields |
|--|------------------|-------------------------------|-------------------|--|-------------|-------------------------------|-------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|-----------|-----------------|-------------------------------|
| <b>Planned location after Ph.D.</b>                              |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Number with permanent visas                                      | 198              | 126                           | 19                | 2                                      | 3           | 9                             | 15          | 25                  | 7                     | 46                             | 72                          | 38         | 12        | 8               | 14                            |
| U.S. total: percent  | 71.7             | 75.4                          | 68.4              | D                                      | D           | 88.9                          | 60.0        | 76.0                | 85.7                  | 76.1                           | 65.3                        | 73.7       | 58.3      | 37.5            | 64.3                          |
| Study  | 28.2             | 37.9                          | 23.1              | D                                      | D           | 12.5                          | 22.2        | 89.5                | 16.7                  | 22.9                           | 8.5                         | 7.1        | 0.0       | 33.3            | 11.1                          |
| Employment   | 68.3             | 60.0                          | 69.2              | D                                      | D           | 87.5                          | 77.8        | 10.5                | 83.3                  | 74.3                           | 85.1                        | 85.7       | 100.0     | 66.7            | 77.8                          |
| Unknown  | 3.5              | 2.1                           | 7.7               | D                                      | D           | 0.0                           | 0.0         | 0.0                 | 0.0                   | 2.9                            | 6.4                         | 7.1        | 0.0       | 0.0             | 11.1                          |
| Non-U.S.   | 18.7             | 15.1                          | 10.5              | D                                      | D           | 11.1                          | 26.7        | 24.0                | 14.3                  | 10.9                           | 25.0                        | 18.4       | 33.3      | 50.0            | 21.4                          |
| Unknown location   | 9.6              | 9.5                           | 21.1              | D                                      | D           | 0.0                           | 13.3        | 0.0                 | 0.0                   | 13.0                           | 9.7                         | 7.9        | 8.3       | 12.5            | 14.3                          |
| <b>Number with temporary visas</b>                               |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| U.S. total: percent  | 625              | 486                           | 78                | 38                                     | 41          | 24                            | 97          | 67                  | 25                    | 116                            | 139                         | 52         | 29        | 14              | 44                            |
| Study  | 33.8             | 37.2                          | 50.0              | 23.7                                   | 29.3        | 54.2                          | 35.1        | 40.3                | 12.0                  | 37.9                           | 21.6                        | 25.0       | 13.8      | 14.3            | 25.0                          |
| Employment   | 50.2             | 57.5                          | 84.6              | 88.9                                   | 58.3        | 30.8                          | 50.0        | 92.6                | 100.0                 | 15.9                           | 6.7                         | 7.7        | 0.0       | 50.0            | 0.0                           |
| Unknown  | 47.9             | 41.4                          | 12.8              | 11.1                                   | 41.7        | 69.2                          | 50.0        | 7.4                 | 0.0                   | 81.8                           | 86.7                        | 76.9       | 100.0     | 50.0            | 100.0                         |
| Non-U.S.   | 1.9              | 1.1                           | 2.6               | 0.0                                    | 0.0         | 0.0                           | 0.0         | 0.0                 | 0.0                   | 2.3                            | 6.7                         | 15.4       | 0.0       | 0.0             | 0.0                           |
| Unknown location   | 55.8             | 51.9                          | 39.7              | 63.2                                   | 46.3        | 37.5                          | 51.5        | 53.7                | 84.0                  | 53.4                           | 69.8                        | 61.5       | 75.9      | 85.7            | 70.5                          |
| <b>Number planning location in the United States after Ph.D.</b> |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Percent with definite postdoctoral study                         | 353              | 276                           | 52                | 11                                     | 15          | 21                            | 43          | 46                  | 9                     | 79                             | 77                          | 41         | 11        | 5               | 20                            |
| Percent with definite employment                                 | 28.6             | 34.8                          | 53.8              | 81.8                                   | 20.0        | 9.5                           | 25.6        | 71.7                | 33.3                  | 8.9                            | 6.5                         | 4.9        | 0.0       | D               | 5.0                           |
| Percent seeking postdoctoral study                               | 40.2             | 35.9                          | 15.4              | 9.1                                    | 40.0        | 61.9                          | 46.5        | 2.2                 | 33.3                  | 59.5                           | 55.8                        | 43.9       | 63.6      | D               | 80.0                          |
| Percent seeking employment                                       | 12.7             | 15.9                          | 15.4              | 9.1                                    | 40.0        | 14.3                          | 18.6        | 19.6                | 11.1                  | 10.1                           | 1.3                         | 2.4        | 0.0       | D               | 0.0                           |
| Percent with postdoctoral plans unknown                          | 15.9             | 12.0                          | 11.5              | 0.0                                    | 0.0         | 14.3                          | 9.3         | 6.5                 | 22.2                  | 19.0                           | 29.9                        | 39.0       | 36.4      | D               | 10.0                          |
|  | 2.6              | 1.4                           | 3.8               | 0.0                                    | 0.0         | 0.0                           | 0.0         | 0.0                 | 0.0                   | 2.5                            | 6.5                         | 9.8        | 0.0       | D               | 5.0                           |

See explanatory information, if any, and SOURCE at end of table.

Table B-11. Statistical profile of doctorate recipients from Scandinavia, by major field of doctorate: 1988-96

| Item   | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric and Ocean Sciences | Mathematics | Computer/Information Sciences | Engineering | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education | Health Sciences | Professional and Other Fields |
|--|------------------|-------------------------------|-------------------|---------------------------------------|-------------|-------------------------------|-------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|-----------|-----------------|-------------------------------|
| <b>Number with definite employment plans in United States after Ph.D. Primary work activity, percent</b> | <b>142</b>       | <b>99</b>                     | <b>8</b>          | <b>1</b>                              | <b>6</b>    | <b>13</b>                     | <b>20</b>   | <b>1</b>            | <b>3</b>              | <b>47</b>                      | <b>43</b>                   | <b>18</b>  | <b>7</b>  | <b>2</b>        | <b>16</b>                     |
| R&D.....   | 50.7             | 60.6                          | 87.5              | D                                     | 83.3        | 92.3                          | 65.0        | D                   | D                     | 46.8                           | 27.9                        | 22.2       | 14.3      | D               | 31.3                          |
| Teaching.....  | 30.3             | 19.2                          | 0.0               | D                                     | 0.0         | 0.0                           | 5.0         | D                   | D                     | 36.2                           | 55.8                        | 61.1       | 42.9      | D               | 62.5                          |
| Administrative.....  | 1.4              | 1.0                           | 0.0               | D                                     | 0.0         | 0.0                           | 0.0         | D                   | D                     | 2.1                            | 2.3                         | 0.0        | 14.3      | D               | 0.0                           |
| Professional services.....   | 9.2              | 11.1                          | 12.5              | D                                     | 0.0         | 7.7                           | 20.0        | D                   | D                     | 6.4                            | 4.7                         | 5.6        | 14.3      | D               | 0.0                           |
| Other.....   | 2.1              | 3.0                           | 0.0               | D                                     | 0.0         | 0.0                           | 10.0        | D                   | D                     | 2.1                            | 0.0                         | 0.0        | 0.0       | D               | 0.0                           |
| Unknown.....   | 6.3              | 5.1                           | 0.0               | D                                     | 16.7        | 0.0                           | 0.0         | D                   | D                     | 6.4                            | 9.3                         | 11.1       | 14.3      | D               | 6.3                           |
| Type of employer, percent  |                  |                               |                   |                                       |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Educational institution <sup>4</sup> .....   | 64.1             | 51.5                          | 37.5              | D                                     | 83.3        | 15.4                          | 15.0        | D                   | D                     | 76.6                           | 93.0                        | 94.4       | 100.0     | D               | 100.0                         |
| Industry/business.....   | 24.6             | 34.3                          | 50.0              | D                                     | 16.7        | 84.6                          | 75.0        | D                   | D                     | 4.3                            | 2.3                         | 0.0        | 0.0       | D               | 0.0                           |
| Government.....  | 4.9              | 5.1                           | 12.5              | D                                     | 0.0         | 0.0                           | 10.0        | D                   | D                     | 2.1                            | 4.7                         | 5.6        | 0.0       | D               | 0.0                           |
| Nonprofit.....   | 2.8              | 4.0                           | 0.0               | D                                     | 0.0         | 0.0                           | 0.0         | D                   | D                     | 6.4                            | 0.0                         | 0.0        | 0.0       | D               | 0.0                           |
| Other and unknown.....   | 3.5              | 5.1                           | 0.0               | D                                     | 0.0         | 0.0                           | 0.0         | D                   | D                     | 10.6                           | 0.0                         | 0.0        | 0.0       | D               | 0.0                           |

D = data withheld to avoid potential disclosure of confidential information.

<sup>1</sup> Includes Denmark, Finland, Iceland, Norway, Sweden, and unspecified Northern European countries.

<sup>2</sup> This table includes all citizens of Scandinavian countries who indicated a visa status (permanent or temporary visa). Those with unknown visa status are not included.

<sup>3</sup> 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. "Personal" includes a recipient's own earnings, family support, and loans. Federal research assistants are aggregated with university research assistants.

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

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

Table B-12. Statistical profile of doctorate recipients from Taiwan, by major field of doctorate, 1988-96

| Item  | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric, and Ocean Sciences | Mathematics | Computer/Information Sciences | Engineering | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education | Health Sciences | Professional and Other Fields |
|---|------------------|-------------------------------|-------------------|--|-------------|-------------------------------|-------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|-----------|-----------------|-------------------------------|
| Total Number of Ph.D.s <sup>1</sup>               | 11,705           | 9,927                         | 1,186             | 179                                    | 376         | 591                           | 4,987       | 1,322               | 384                   | 902                            | 1,778                       | 238        | 753       | 264             | 523                           |
| Percent men                                       | 78.6             | 83.4                          | 81.1              | 88.3                                   | 72.6        | 89.2                          | 95.3        | 58.6                | 70.6                  | 62.2                           | 51.9                        | 41.2       | 45.3      | 45.8            | 69.4                          |
| Percent women                                     | 21.4             | 16.6                          | 18.9              | 11.7                                   | 27.4        | 10.8                          | 4.7         | 41.5                | 29.4                  | 37.8                           | 48.1                        | 58.8       | 54.7      | 54.2            | 30.6                          |
| Percent with permanent visa                       | 14.0             | 14.0                          | 13.2              | 12.8                                   | 11.4        | 21.5                          | 13.8        | 16.3                | 10.4                  | 10.6                           | 14.2                        | 17.2       | 9.6       | 16.3            | 18.4                          |
| Percent with temporary visa                       | 86.0             | 86.0                          | 86.8              | 87.2                                   | 88.6        | 78.5                          | 86.2        | 83.7                | 89.6                  | 89.4                           | 85.8                        | 82.8       | 90.4      | 83.7            | 81.6                          |
| Percent married                                   | 69.1             | 69.4                          | 63.8              | 72.6                                   | 63.0        | 73.6                          | 72.2        | 64.5                | 71.1                  | 66.9                           | 67.1                        | 58.0       | 69.5      | 67.0            | 67.9                          |
| Percent not married                               | 26.8             | 26.6                          | 31.7              | 24.0                                   | 32.4        | 22.0                          | 24.2        | 30.9                | 24.7                  | 28.5                           | 27.7                        | 36.1       | 27.1      | 24.2            | 26.4                          |
| Percent unknown                                   | 4.2              | 4.0                           | 4.5               | 3.4                                    | 4.5         | 4.4                           | 3.6         | 4.5                 | 4.2                   | 4.7                            | 5.2                         | 5.9        | 3.5       | 8.7             | 5.7                           |
| Median age at Ph.D. in years                      | 32.8             | 32.6                          | 32.3              | 33.5                                   | 32.5        | 32.6                          | 32.3        | 32.7                | 33.5                  | 33.6                           | 34.5                        | 34.8       | 34.9      | 34.3            | 33.9                          |
| Percent with dependents                           | 57.1             | 57.9                          | 52.1              | 63.7                                   | 53.7        | 60.2                          | 63.0        | 48.6                | 56.8                  | 50.6                           | 52.4                        | 39.9       | 54.6      | 50.0            | 56.2                          |
| Percent receiving sources of support <sup>2</sup> |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Personal  | 69.9             | 68.1                          | 52.3              | 64.2                                   | 61.4        | 77.3                          | 71.8        | 58.4                | 73.4                  | 77.6                           | 80.2                        | 81.9       | 83.5      | 71.2            | 79.0                          |
| Foreign government                                | 9.8              | 8.1                           | 2.2               | 12.8                                   | 2.4         | 4.7                           | 7.8         | 11.4                | 16.7                  | 12.1                           | 19.8                        | 14.3       | 23.5      | 23.9            | 14.9                          |
| University  | 85.3             | 88.7                          | 94.4              | 89.4                                   | 92.8        | 89.7                          | 88.4        | 89.2                | 84.6                  | 81.6                           | 66.1                        | 76.5       | 54.2      | 71.6            | 75.9                          |
| Teaching assistant                                | 44.7             | 46.3                          | 69.8              | 26.8                                   | 85.6        | 62.3                          | 40.9        | 34.0                | 11.7                  | 55.5                           | 35.8                        | 57.1       | 23.0      | 26.1            | 49.3                          |
| Research assistant                                | 68.9             | 74.6                          | 83.6              | 86.0                                   | 46.5        | 68.5                          | 79.2        | 74.5                | 80.5                  | 48.7                           | 36.8                        | 14.3       | 30.4      | 52.3            | 48.6                          |
| Other university                                  | 12.8             | 11.6                          | 9.7               | 8.4                                    | 13.3        | 10.0                          | 9.5         | 18.5                | 7.0                   | 18.1                           | 19.4                        | 33.2       | 15.8      | 14.8            | 20.5                          |
| Other   | 5.4              | 4.9                           | 3.1               | 5.6                                    | 3.2         | 5.6                           | 4.5         | 5.8                 | 5.5                   | 7.4                            | 8.4                         | 16.4       | 6.4       | 10.2            | 6.7                           |
| Unknown   | 3.7              | 3.5                           | 3.8               | 2.8                                    | 3.2         | 3.6                           | 3.3         | 3.7                 | 3.6                   | 4.0                            | 4.7                         | 4.6        | 2.9       | 8.0             | 5.5                           |
| Median years from baccalaureate to Ph.D.          |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Total time in years                               | 10.0             | 9.9                           | 9.5               | 10.8                                   | 9.9         | 10.1                          | 9.9         | 9.6                 | 10.4                  | 10.9                           | 11.5                        | 11.9       | 11.6      | 11.1            | 11.4                          |
| Registered time                                   | 6.3              | 6.3                           | 6.5               | 7.0                                    | 6.5         | 6.6                           | 6.2         | 6.7                 | 6.4                   | 7.2                            | 6.4                         | 8.2        | 5.8       | 6.4             | 7.0                           |

See explanatory information, if any, and SOURCE at end of table.

Table B-12. Statistical profile of doctorate recipients from Taiwan, by major field of doctorate: 1988-96

| Item   | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric, and Ocean Sciences | Mathematics | Computer/Information Sciences | Engineering  | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education  | Health Sciences | Professional and Other Fields |
|--|------------------|-------------------------------|-------------------|--|-------------|-------------------------------|--------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|------------|-----------------|-------------------------------|
| <b>Planned location after Ph.D.</b>                              |                  |                               |                   |  |             |                               |              |                     |                       |                                |                             |            |            |                 |                               |
| Number with permanent visas                                      | 1,643            | 1,391                         | 157               | 23                                     | 43          | 127                           | 690          | 215                 | 40                    | 96                             | 252                         | 41         | 72         | 43              | 96                            |
| U.S. total: percent  | 72.9             | 74.4                          | 70.1              | 73.9                                   | 67.4        | 75.6                          | 72.9         | 87.4                | 77.5                  | 63.5                           | 64.7                        | 63.4       | 58.3       | 72.1            | 66.7                          |
| Study  | 29.2             | 32.1                          | 59.1              | 41.2                                   | 20.7        | 4.2                           | 14.9         | 81.9                | 35.5                  | 16.4                           | 11.0                        | 7.7        | 11.9       | 25.8            | 4.7                           |
| Employment   | 69.0             | 66.2                          | 38.2              | 58.8                                   | 79.3        | 91.7                          | 83.1         | 18.1                | 64.5                  | 82.0                           | 86.5                        | 92.3       | 88.1       | 71.0            | 90.6                          |
| Unknown  | 1.8              | 1.7                           | 2.7               | 0.0                                    | 0.0         | 4.2                           | 2.0          | 0.0                 | 0.0                   | 1.6                            | 2.5                         | 0.0        | 0.0        | 3.2             | 4.7                           |
| Non-U.S.   | 14.9             | 13.2                          | 14.0              | 13.0                                   | 9.3         | 11.0                          | 13.6         | 6.5                 | 17.5                  | 26.0                           | 24.6                        | 22.0       | 31.9       | 20.9            | 21.9                          |
| Unknown location   | 12.2             | 12.4                          | 15.9              | 13.0                                   | 23.3        | 13.4                          | 13.5         | 6.1                 | 5.0                   | 10.4                           | 10.7                        | 14.6       | 9.7        | 7.0             | 11.5                          |
| Number with temporary visas                                      | 10,062           | 8,536                         | 1,029             | 156                                    | 333         | 464                           | 4,297        | 1,107               | 344                   | 806                            | 1,526                       | 197        | 681        | 221             | 427                           |
| U.S. total: percent  | 39.6             | 43.4                          | 53.2              | 39.7                                   | 32.1        | 47.8                          | 42.1         | 60.0                | 35.2                  | 21.3                           | 18.2                        | 15.2       | 12.2       | 27.6            | 24.4                          |
| Study  | 47.1             | 49.2                          | 77.9              | 69.4                                   | 23.4        | 7.2                           | 32.5         | 91.1                | 60.3                  | 25.6                           | 19.4                        | 13.3       | 22.9       | 42.6            | 4.8                           |
| Employment   | 51.0             | 49.0                          | 19.9              | 27.4                                   | 75.7        | 90.1                          | 66.1         | 7.4                 | 33.9                  | 70.9                           | 78.4                        | 80.0       | 74.7       | 55.7            | 94.2                          |
| Unknown  | 1.9              | 1.9                           | 2.2               | 3.2                                    | 0.9         | 2.7                           | 1.4          | 1.5                 | 5.8                   | 3.5                            | 2.2                         | 6.7        | 2.4        | 1.6             | 1.0                           |
| Non-U.S.   | 47.1             | 43.0                          | 30.5              | 45.5                                   | 51.4        | 37.7                          | 43.5         | 31.0                | 52.6                  | 67.6                           | 70.3                        | 75.1       | 76.5       | 57.0            | 64.9                          |
| Unknown location   | 13.3             | 13.6                          | 16.3              | 14.7                                   | 16.5        | 14.4                          | 14.4         | 9.0                 | 12.2                  | 11.0                           | 11.5                        | 9.6        | 11.3       | 15.4            | 10.8                          |
| <b>Number planning location in the United States after Ph.D.</b> | <b>5,179</b>     | <b>4,738</b>                  | <b>657</b>        | <b>79</b>                              | <b>136</b>  | <b>318</b>                    | <b>2,311</b> | <b>852</b>          | <b>152</b>            | <b>233</b>                     | <b>441</b>                  | <b>56</b>  | <b>125</b> | <b>92</b>       | <b>168</b>                    |
| Percent with definite postdoctoral study                         | 26.7             | 28.5                          | 50.2              | 38.0                                   | 11.0        | 3.5                           | 15.7         | 62.2                | 32.2                  | 9.0                            | 7.5                         | 3.6        | 7.2        | 21.7            | 1.2                           |
| Percent with definite employment                                 | 30.5             | 29.2                          | 12.3              | 20.3                                   | 49.3        | 59.4                          | 37.8         | 5.6                 | 10.5                  | 40.8                           | 44.2                        | 42.9       | 23.2       | 26.1            | 70.2                          |
| Percent seeking postdoctoral study                               | 16.3             | 17.0                          | 24.5              | 25.3                                   | 11.8        | 2.8                           | 13.0         | 26.9                | 23.0                  | 14.2                           | 8.8                         | 7.1        | 12.0       | 15.2            | 3.6                           |
| Percent seeking employment                                       | 24.7             | 23.5                          | 10.7              | 13.9                                   | 27.2        | 31.1                          | 32.0         | 4.1                 | 29.6                  | 33.0                           | 37.2                        | 42.9       | 56.0       | 34.8            | 22.6                          |
| Percent with postdoctoral plans unknown                          | 1.9              | 1.8                           | 2.3               | 2.5                                    | 0.7         | 3.1                           | 1.5          | 1.2                 | 4.6                   | 3.0                            | 2.3                         | 3.6        | 1.6        | 2.2             | 2.4                           |

See explanatory information, if any, and SOURCE at end of table.

Table B-12. Statistical profile of doctorate recipients from Taiwan, by major field of doctorate: 1988-96

| Item  | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric, and Ocean Sciences | Mathematics | Computer/Information Sciences | Engineering | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education | Health Sciences | Professional and Other Fields |  |
|---|------------------|-------------------------------|-------------------|--|-------------|-------------------------------|-------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|-----------|-----------------|-------------------------------|--|
| <b>Number with definite employment plans in United States after Ph.D.</b> | <b>1,580</b>     | <b>1,385</b>                  | <b>81</b>         | <b>16</b>                              | <b>67</b>   | <b>189</b>                    | <b>873</b>  | <b>48</b>           | <b>16</b>             | <b>95</b>                      | <b>195</b>                  | <b>24</b>  | <b>29</b> | <b>24</b>       | <b>118</b>                    |  |
| Primary work activity: percent  |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |  |
| R&D.....  | 68.2             | 72.3                          | 74.1              | 68.8                                   | 50.7        | 75.1                          | 78.0        | 60.4                | 81.3                  | 32.6                           | 39.0                        | 8.3        | 48.3      | 66.7            | 37.3                          |  |
| Teaching.....   | 14.9             | 11.1                          | 8.6               | 0.0                                    | 32.8        | 12.7                          | 7.1         | 8.3                 | 0.0                   | 35.8                           | 42.6                        | 75.0       | 31.0      | 12.5            | 44.9                          |  |
| Administrative.....   | 0.8              | 0.7                           | 0.0               | 0.0                                    | 0.0         | 1.1                           | 0.5         | 2.1                 | 0.0                   | 2.1                            | 1.5                         | 4.2        | 0.0       | 0.0             | 1.7                           |  |
| Professional services.....  | 7.2              | 7.5                           | 6.2               | 18.8                                   | 7.5         | 3.2                           | 7.8         | 20.8                | 12.5                  | 5.3                            | 4.6                         | 0.0        | 6.9       | 12.5            | 3.4                           |  |
| Other.....  | 0.9              | 0.9                           | 1.2               | 0.0                                    | 0.0         | 0.5                           | 0.7         | 4.2                 | 0.0                   | 2.1                            | 1.0                         | 0.0        | 0.0       | 4.2             | 0.8                           |  |
| Unknown.....  | 8.1              | 7.7                           | 9.9               | 12.5                                   | 9.0         | 7.4                           | 6.0         | 4.2                 | 6.3                   | 22.1                           | 11.3                        | 12.5       | 13.8      | 4.2             | 11.9                          |  |
| <b>Type of employer: percent</b>  |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |  |
| Educational institution <sup>3</sup> .....                                | 31.3             | 24.8                          | 14.8              | 25.0                                   | 70.1        | 25.9                          | 15.7        | 56.3                | 6.3                   | 70.5                           | 76.9                        | 79.2       | 58.6      | 45.8            | 87.3                          |  |
| Industry/business.....  | 63.4             | 70.2                          | 81.5              | 50.0                                   | 22.4        | 73.0                          | 79.8        | 31.3                | 93.8                  | 18.9                           | 14.9                        | 8.3        | 13.8      | 45.8            | 10.2                          |  |
| Government.....   | 2.0              | 2.1                           | 2.5               | 12.5                                   | 1.5         | 1.1                           | 2.0         | 4.2                 | 0.0                   | 3.2                            | 1.5                         | 0.0        | 3.4       | 0.0             | 1.7                           |  |
| Nonprofit.....  | 2.5              | 2.0                           | 1.2               | 12.5                                   | 4.5         | 0.0                           | 1.5         | 8.3                 | 0.0                   | 5.3                            | 6.2                         | 8.3        | 24.1      | 8.3             | 0.8                           |  |
| Other and unknown.....  | 0.8              | 0.9                           | 0.0               | 0.0                                    | 1.5         | 0.0                           | 1.0         | 0.0                 | 0.0                   | 2.1                            | 0.5                         | 4.2        | 0.0       | 0.0             | 0.0                           |  |

<sup>1</sup>This table includes all citizens of Taiwan who indicated a visa status (permanent or temporary visa). Those with unknown visa status are not included.

<sup>2</sup>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. "Personal" includes a recipient's own earnings, family support, and loans. Federal research assistants are aggregated with university research assistants.

<sup>3</sup>Includes 2-year and 4-year colleges and universities, medical schools, and elementary/secondary schools.

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



Table B-13. Statistical profile of doctorate recipients from United Kingdom<sup>1</sup>, by major field of doctorate: 1988-96

| Item  | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric, and Ocean Sciences | Mathematics | Computer/Information Sciences | Engineering | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education | Health Sciences | Professional and Other Fields |
|---|------------------|-------------------------------|-------------------|--|-------------|-------------------------------|-------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|-----------|-----------------|-------------------------------|
| Total Number of Ph.D.s <sup>2</sup>               | 1,808            | 1,132                         | 214               | 53                                     | 70          | 23                            | 135         | 226                 | 33                    | 378                            | 676                         | 406        | 146       | 29              | 95                            |
| Percent men                                       | 67.5             | 74.7                          | 87.4              | 79.2                                   | 78.6        | 82.6                          | 88.1        | 71.2                | 63.6                  | 63.8                           | 55.6                        | 54.9       | 52.1      | 65.5            | 61.1                          |
| Percent women                                     | 32.5             | 25.4                          | 12.6              | 20.8                                   | 21.4        | 17.4                          | 11.9        | 28.8                | 36.4                  | 36.2                           | 44.4                        | 45.1       | 47.9      | 34.5            | 38.9                          |
| Percent with permanent visa                       | 42.5             | 38.8                          | 29.0              | 35.8                                   | 24.3        | 47.8                          | 37.8        | 42.9                | 30.3                  | 45.5                           | 48.8                        | 45.1       | 56.8      | 65.5            | 47.4                          |
| Percent with temporary visa                       | 57.5             | 61.2                          | 71.0              | 64.2                                   | 75.7        | 52.2                          | 62.2        | 57.1                | 69.7                  | 54.5                           | 51.2                        | 54.9       | 43.2      | 34.5            | 52.6                          |
| Percent married                                   | 44.4             | 40.5                          | 34.1              | 43.4                                   | 25.7        | 39.1                          | 44.4        | 43.4                | 42.4                  | 43.1                           | 50.9                        | 48.0       | 61.6      | 34.5            | 51.6                          |
| Percent not married                               | 49.7             | 54.0                          | 58.9              | 52.8                                   | 71.4        | 56.5                          | 51.1        | 52.7                | 51.5                  | 50.0                           | 42.6                        | 45.6       | 32.2      | 51.7            | 43.2                          |
| Percent unknown                                   | 5.9              | 5.6                           | 7.0               | 3.8                                    | 2.9         | 4.3                           | 4.4         | 4.0                 | 6.1                   | 6.9                            | 6.5                         | 6.4        | 6.2       | 13.8            | 5.3                           |
| Median age at Ph.D. in years                      | 31.2             | 30.0                          | 28.2              | 30.8                                   | 28.0        | 32.8                          | 29.0        | 30.8                | 32.0                  | 32.0                           | 33.9                        | 32.3       | 39.5      | 31.5            | 35.1                          |
| Percent with dependents                           | 25.2             | 21.1                          | 15.9              | 22.6                                   | 12.9        | 21.7                          | 23.7        | 19.5                | 30.3                  | 24.6                           | 32.0                        | 25.9       | 43.8      | 34.5            | 38.9                          |
| Percent receiving sources of support <sup>3</sup> |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Personal  | 60.7             | 51.0                          | 29.0              | 49.1                                   | 40.0        | 56.5                          | 43.0        | 46.5                | 63.6                  | 69.8                           | 76.9                        | 72.4       | 87.0      | 69.0            | 83.2                          |
| Foreign government                                | 2.1              | 2.5                           | 3.3               | 0.0                                    | 4.3         | 4.3                           | 4.4         | 1.3                 | 6.1                   | 1.6                            | 1.5                         | 2.0        | 0.0       | 0.0             | 2.1                           |
| University  | 90.9             | 92.4                          | 91.1              | 96.2                                   | 95.7        | 95.7                          | 91.9        | 93.8                | 93.9                  | 91.0                           | 88.5                        | 94.3       | 74.0      | 75.9            | 89.5                          |
| Teaching assistant                                | 67.5             | 64.7                          | 72.9              | 60.4                                   | 82.9        | 52.2                          | 46.7        | 50.9                | 30.3                  | 75.7                           | 72.2                        | 84.2       | 50.7      | 48.3            | 61.1                          |
| Research assistant                                | 51.7             | 66.7                          | 76.6              | 86.8                                   | 61.4        | 69.6                          | 84.4        | 69.0                | 84.8                  | 49.7                           | 26.5                        | 18.2       | 26.7      | 48.3            | 54.7                          |
| Other university                                  | 37.7             | 32.8                          | 21.5              | 30.2                                   | 25.7        | 30.4                          | 22.2        | 32.3                | 18.2                  | 46.3                           | 46.0                        | 56.9       | 26.0      | 24.1            | 36.8                          |
| Other   | 17.2             | 15.9                          | 7.9               | 15.1                                   | 5.7         | 4.3                           | 14.8        | 21.2                | 21.2                  | 19.8                           | 19.4                        | 20.4       | 15.8      | 34.5            | 15.8                          |
| Unknown   | 3.1              | 2.8                           | 5.6               | 0.0                                    | 1.4         | 4.3                           | 3.7         | 0.4                 | 0.0                   | 3.2                            | 3.6                         | 3.0        | 3.4       | 10.3            | 4.2                           |
| Median years from baccalaureate to Ph.D.          |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Total time in years                               | 8.3              | 7.4                           | 6.3               | 7.9                                    | 6.0         | 11.8                          | 6.6         | 8.0                 | 9.5                   | 9.0                            | 9.9                         | 9.2        | 13.4      | 8.3             | 11.9                          |
| Registered time                                   | 6.4              | 6.1                           | 5.4               | 6.4                                    | 5.9         | 6.8                           | 6.0         | 6.0                 | 6.1                   | 6.8                            | 7.1                         | 7.4        | 6.9       | 5.8             | 5.9                           |

See explanatory information, if any, and SOURCE at end of table.

Table B-13. Statistical profile of doctorate recipients from United Kingdom, by major field of doctorate: 1988-96

| Item   | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric, and Ocean Sciences | Mathematics | Computer/Information Sciences | Engineering | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education | Health Sciences | Professional and Other Fields |
|--|------------------|-------------------------------|-------------------|--|-------------|-------------------------------|-------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|-----------|-----------------|-------------------------------|
| <b>Planned location after Ph.D.</b>                              |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Number with permanent visas                                      | 769              | 439                           | 62                | 19                                     | 17          | 11                            | 51          | 97                  | 10                    | 172                            | 330                         | 183        | 83        | 19              | 45                            |
| U.S. total: percent.....   | 82.8             | 82.5                          | 77.4              | 73.7                                   | 82.4        | 90.9                          | 88.2        | 87.6                | 60.0                  | 81.4                           | 83.3                        | 88.5       | 75.9      | 73.7            | 80.0                          |
| Study.....   | 25.0             | 38.4                          | 47.9              | 42.9                                   | 21.4        | 20.0                          | 22.2        | 81.2                | 83.3                  | 15.0                           | 7.3                         | 6.8        | 9.5       | 7.1             | 5.6                           |
| Employment.....  | 73.6             | 60.2                          | 50.0              | 57.1                                   | 78.6        | 80.0                          | 77.8        | 18.8                | 0.0                   | 82.9                           | 91.3                        | 90.7       | 90.5      | 92.9            | 94.4                          |
| Unknown.....   | 1.4              | 1.4                           | 2.1               | 0.0                                    | 0.0         | 0.0                           | 0.0         | 0.0                 | 16.7                  | 2.1                            | 1.5                         | 2.5        | 0.0       | 0.0             | 0.0                           |
| Non-U.S.....   | 7.7              | 8.9                           | 8.1               | 21.1                                   | 17.6        | 0.0                           | 3.9         | 5.2                 | 20.0                  | 10.5                           | 6.1                         | 4.9        | 7.2       | 5.3             | 8.9                           |
| Unknown location.....  | 9.5              | 8.7                           | 14.5              | 5.3                                    | 0.0         | 9.1                           | 7.8         | 7.2                 | 20.0                  | 8.1                            | 10.6                        | 6.6        | 16.9      | 21.1            | 11.1                          |
| <b>Number with temporary visas</b>                               |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| U.S. total: percent.....   | 1,039            | 693                           | 152               | 34                                     | 53          | 12                            | 84          | 129                 | 23                    | 206                            | 346                         | 223        | 63        | 10              | 50                            |
| Study.....   | 60.4             | 60.9                          | 63.2              | 58.8                                   | 62.3        | 66.7                          | 67.9        | 66.7                | 43.5                  | 54.4                           | 59.2                        | 61.9       | 52.4      | 70.0            | 54.0                          |
| Employment.....  | 38.9             | 54.3                          | 70.8              | 65.0                                   | 36.4        | 37.5                          | 42.1        | 84.9                | 70.0                  | 25.9                           | 7.3                         | 8.0        | 3.0       | 28.6            | 3.7                           |
| Unknown.....   | 59.3             | 44.3                          | 25.0              | 35.0                                   | 63.6        | 62.5                          | 57.9        | 14.0                | 30.0                  | 73.2                           | 90.2                        | 89.1       | 97.0      | 71.4            | 92.6                          |
| Non-U.S.....   | 1.8              | 1.4                           | 4.2               | 0.0                                    | 0.0         | 0.0                           | 0.0         | 1.2                 | 0.0                   | 0.9                            | 2.4                         | 2.9        | 0.0       | 0.0             | 3.7                           |
| Unknown location.....  | 29.2             | 29.3                          | 28.9              | 32.4                                   | 28.3        | 16.7                          | 20.2        | 28.7                | 39.1                  | 33.0                           | 28.9                        | 27.8       | 28.6      | 30.0            | 34.0                          |
| <b>Number planning location in the United States after Ph.D.</b> |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Percent with definite postdoctoral study.....                    | 1,264            | 784                           | 144               | 34                                     | 47          | 18                            | 102         | 171                 | 16                    | 252                            | 480                         | 300        | 96        | 21              | 63                            |
| Percent with definite employment.....                            | 25.8             | 38.5                          | 56.9              | 41.2                                   | 25.5        | 27.8                          | 22.5        | 70.2                | 56.3                  | 14.7                           | 5.0                         | 5.0        | 5.2       | 9.5             | 3.2                           |
| Percent seeking postdoctoral study.....                          | 47.5             | 37.4                          | 22.9              | 32.4                                   | 55.3        | 55.6                          | 48.0        | 11.1                | 12.5                  | 56.7                           | 64.0                        | 59.7       | 68.8      | 57.1            | 79.4                          |
| Percent seeking employment.....                                  | 6.1              | 8.4                           | 6.3               | 14.7                                   | 6.4         | 0.0                           | 10.8        | 12.9                | 18.8                  | 5.2                            | 2.3                         | 2.3        | 2.1       | 4.8             | 1.6                           |
| Percent with postdoctoral plans unknown.....                     | 19.1             | 14.3                          | 10.4              | 11.8                                   | 12.8        | 16.7                          | 18.6        | 5.3                 | 6.3                   | 21.8                           | 26.9                        | 30.3       | 24.0      | 28.6            | 14.3                          |
|  | 1.6              | 1.4                           | 3.5               | 0.0                                    | 0.0         | 0.0                           | 0.0         | 0.6                 | 6.3                   | 1.6                            | 1.9                         | 2.7        | 0.0       | 0.0             | 1.6                           |

See explanatory information, if any, and SOURCE at end of table.

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Table B-1.3. Statistical profile of doctorate recipients from United Kingdom<sup>1</sup>, by major field of doctorate: 1988-96

| Item   | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric, and Ocean Sciences | Mathematics | Computer/Information Sciences | Engineering | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education | Health Sciences | Professional and Other Fields |
|--|------------------|-------------------------------|-------------------|--|-------------|-------------------------------|-------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|-----------|-----------------|-------------------------------|
| Number with definite employment plans in United States after Ph.D. | 600              | 293                           | 33                | 11                                     | 26          | 10                            | 49          | 19                  | 2                     | 143                            | 307                         | 179        | 66        | 12              | 50                            |
| Primary work activity: percent                                     |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| R&D.....   | 32.8             | 47.4                          | 66.7              | 63.6                                   | 38.5        | 50.0                          | 75.5        | 31.6                | D                     | 35.7                           | 18.9                        | 8.4        | 24.2      | 66.7            | 38.0                          |
| Teaching.....  | 44.5             | 31.4                          | 15.2              | 18.2                                   | 42.3        | 30.0                          | 10.2        | 36.8                | D                     | 40.6                           | 57.0                        | 68.2       | 48.5      | 0.0             | 42.0                          |
| Administrative.....  | 4.2              | 2.1                           | 0.0               | 0.0                                    | 0.0         | 10.0                          | 0.0         | 0.0                 | D                     | 3.5                            | 6.2                         | 4.5        | 12.1      | 0.0             | 6.0                           |
| Professional services.....   | 6.5              | 8.9                           | 6.1               | 9.1                                    | 11.5        | 10.0                          | 6.1         | 15.8                | D                     | 9.1                            | 4.2                         | 2.8        | 4.5       | 25.0            | 4.0                           |
| Other.....   | 1.8              | 1.0                           | 3.0               | 0.0                                    | 0.0         | 0.0                           | 2.0         | 0.0                 | D                     | 0.7                            | 2.6                         | 2.2        | 3.0       | 0.0             | 4.0                           |
| Unknown.....   | 10.2             | 9.2                           | 9.1               | 9.1                                    | 7.7         | 0.0                           | 6.1         | 15.8                | D                     | 10.5                           | 11.1                        | 14.0       | 7.6       | 8.3             | 6.0                           |
| Type of employer: percent  |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Educational institution <sup>4</sup> .....                         | 74.2             | 60.8                          | 18.2              | 36.4                                   | 80.8        | 60.0                          | 38.8        | 57.9                | D                     | 77.6                           | 87.0                        | 92.2       | 83.3      | 16.7            | 90.0                          |
| Industry/business.....   | 16.5             | 25.6                          | 69.7              | 45.5                                   | 19.2        | 20.0                          | 57.1        | 26.3                | D                     | 4.2                            | 7.8                         | 4.5        | 6.1       | 58.3            | 10.0                          |
| Government.....  | 3.0              | 5.1                           | 9.1               | 9.1                                    | 0.0         | 20.0                          | 4.1         | 5.3                 | D                     | 3.5                            | 1.0                         | 0.0        | 3.0       | 8.3             | 0.0                           |
| Nonprofit.....   | 4.7              | 5.5                           | 0.0               | 0.0                                    | 0.0         | 0.0                           | 0.0         | 10.5                | D                     | 9.8                            | 3.9                         | 3.4        | 7.6       | 8.3             | 0.0                           |
| Other and unknown.....   | 1.7              | 3.1                           | 3.0               | 9.1                                    | 0.0         | 0.0                           | 0.0         | 0.0                 | D                     | 4.9                            | 0.3                         | 0.0        | 0.0       | 8.3             | 0.0                           |

D = data withheld to avoid potential disclosure of confidential information.

<sup>1</sup> Includes England, Wales, Scotland, and Northern Ireland.

<sup>2</sup> This table includes all citizens of the United Kingdom who indicated a visa status (permanent or temporary visa). Those with unknown visa status are not included.

<sup>3</sup> 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. "Personal" includes a recipient's own earnings, family support, and loans. Federal research assistants are aggregated with university research assistants.

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

SOURCE: National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*.

Table B-14. Statistical profile of doctorate recipients from Western Europe<sup>1</sup>, by major field of doctorate, 1988-96

| Item  | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric, and Ocean Sciences | Mathematics | Computer/Information Sciences | Engineering | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education | Health Sciences | Professional and Other Fields |
|---|------------------|-------------------------------|-------------------|--|-------------|-------------------------------|-------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|-----------|-----------------|-------------------------------|
| Total Number of Ph.D.s <sup>2</sup>               | 2,535            | 1,725                         | 238               | 76                                     | 125         | 62                            | 337         | 304                 | 126                   | 457                            | 810                         | 523        | 97        | 71              | 119                           |
| Percent men                                       | 69.0             | 76.3                          | 80.7              | 86.8                                   | 79.2        | 83.9                          | 93.2        | 67.1                | 72.2                  | 65.2                           | 53.5                        | 47.2       | 44.3      | 62.0            | 83.2                          |
| Percent women                                     | 31.0             | 23.7                          | 19.3              | 13.2                                   | 20.8        | 16.1                          | 6.8         | 32.9                | 27.8                  | 34.8                           | 46.5                        | 52.8       | 55.7      | 38.0            | 16.8                          |
| Percent with permanent visa                       | 25.7             | 21.7                          | 24.0              | 11.8                                   | 12.8        | 21.0                          | 19.6        | 31.3                | 14.3                  | 21.9                           | 34.3                        | 38.1       | 36.1      | 26.8            | 21.0                          |
| Percent with temporary visa                       | 74.3             | 78.3                          | 76.1              | 88.2                                   | 87.2        | 79.0                          | 80.4        | 68.8                | 85.7                  | 78.1                           | 65.7                        | 62.0       | 63.9      | 73.2            | 79.0                          |
| Percent married                                   | 46.3             | 45.1                          | 42.0              | 53.9                                   | 39.2        | 48.4                          | 42.7        | 49.7                | 42.9                  | 45.7                           | 48.9                        | 48.8       | 45.4      | 62.0            | 44.5                          |
| Percent not married                               | 48.3             | 50.1                          | 55.5              | 42.1                                   | 56.8        | 48.4                          | 53.7        | 44.1                | 50.0                  | 48.4                           | 44.4                        | 45.1       | 46.4      | 31.0            | 47.9                          |
| Percent unknown                                   | 5.4              | 4.8                           | 2.5               | 3.9                                    | 4.0         | 3.2                           | 3.6         | 6.3                 | 7.1                   | 5.9                            | 6.7                         | 6.1        | 8.2       | 7.0             | 7.6                           |
| Median age at Ph.D. in years                      | 31.3             | 30.6                          | 29.2              | 30.7                                   | 29.3        | 30.8                          | 29.7        | 30.9                | 31.3                  | 31.7                           | 33.4                        | 33.2       | 36.7      | 34.3            | 32.1                          |
| Percent with dependents                           | 28.5             | 26.8                          | 18.9              | 43.4                                   | 25.6        | 24.2                          | 27.0        | 25.3                | 35.7                  | 27.1                           | 32.2                        | 29.3       | 33.0      | 47.9            | 35.3                          |
| Percent receiving sources of support <sup>3</sup> |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Personal  | 55.7             | 49.6                          | 36.1              | 38.2                                   | 41.6        | 56.5                          | 46.0        | 56.3                | 42.9                  | 60.0                           | 68.5                        | 68.8       | 77.3      | 64.8            | 62.2                          |
| Foreign government                                | 19.6             | 22.0                          | 11.8              | 31.6                                   | 28.0        | 14.5                          | 22.8        | 13.2                | 32.5                  | 27.6                           | 14.4                        | 8.6        | 19.6      | 35.2            | 23.5                          |
| University  | 88.0             | 88.6                          | 95.8              | 89.5                                   | 96.0        | 91.9                          | 90.2        | 84.9                | 77.0                  | 86.7                           | 86.7                        | 91.4       | 77.3      | 78.9            | 78.2                          |
| Teaching assistant                                | 58.2             | 53.2                          | 76.1              | 44.7                                   | 85.6        | 54.8                          | 38.3        | 41.8                | 13.5                  | 63.0                           | 69.0                        | 82.6       | 45.4      | 38.0            | 47.1                          |
| Research assistant                                | 55.1             | 67.4                          | 87.8              | 77.6                                   | 53.6        | 77.4                          | 81.6        | 62.2                | 73.0                  | 48.8                           | 29.0                        | 19.5       | 35.1      | 53.5            | 51.3                          |
| Other university                                  | 28.3             | 24.9                          | 16.8              | 19.7                                   | 26.4        | 12.9                          | 19.3        | 28.3                | 11.1                  | 37.0                           | 35.4                        | 39.2       | 26.8      | 29.6            | 29.4                          |
| Other   | 21.9             | 23.5                          | 15.5              | 21.1                                   | 18.4        | 35.5                          | 24.3        | 23.7                | 15.1                  | 29.5                           | 18.4                        | 14.9       | 21.6      | 18.3            | 31.1                          |
| Unknown   | 3.7              | 3.3                           | 1.7               | 2.6                                    | 2.4         | 1.6                           | 2.7         | 3.9                 | 3.2                   | 4.6                            | 4.7                         | 4.4        | 3.1       | 8.5             | 5.0                           |
| Median years from baccalaureate to Ph.D.          | 7.9              | 7.4                           | 6.5               | 7.8                                    | 6.3         | 8.1                           | 6.9         | 7.5                 | 8.2                   | 8.4                            | 9.4                         | 9.3        | 12.2      | 9.1             | 8.5                           |
| Total time in years                               | 6.2              | 6.0                           | 5.5               | 6.5                                    | 5.2         | 6.2                           | 5.4         | 6.3                 | 5.9                   | 6.7                            | 6.9                         | 7.2        | 6.8       | 6.2             | 6.3                           |
| Registered time                                   |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |

See explanatory information, if any, and SOURCE at end of table.

Table B-14. Statistical profile of doctorate recipients from Western Europe, by major field of doctorate: 1988-96

| Item   | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric, and Ocean Sciences | Mathematics | Computer/Information Sciences | Engineering | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education | Health Sciences | Professional and Other Fields |
|--|------------------|-------------------------------|-------------------|--|-------------|-------------------------------|-------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|-----------|-----------------|-------------------------------|
| <b>Planned location after Ph.D.</b>                              |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Number with permanent visas                                      | 652              | 374                           | 57                | 9                                      | 16          | 13                            | 66          | 95                  | 18                    | 100                            | 278                         | 199        | 35        | 19              | 25                            |
| U.S. total: percent  | 81.0             | 80.0                          | 73.7              | 100.0                                  | 75.0        | 100.0                         | 77.3        | 85.3                | 50.0                  | 82.0                           | 82.4                        | 83.9       | 74.3      | 73.7            | 88.0                          |
| Study  | 27.3             | 40.5                          | 47.6              | 55.6                                   | 25.0        | 30.8                          | 29.4        | 79.0                | 0.0                   | 12.2                           | 10.0                        | 9.6        | 7.7       | 35.7            | 0.0                           |
| Employment   | 69.7             | 56.5                          | 50.0              | 44.4                                   | 66.7        | 69.2                          | 66.7        | 19.8                | 100.0                 | 82.9                           | 86.9                        | 88.0       | 88.5      | 57.1            | 95.5                          |
| Unknown  | 3.0              | 3.0                           | 2.4               | 0.0                                    | 8.3         | 0.0                           | 3.9         | 1.2                 | 0.0                   | 4.9                            | 3.1                         | 2.4        | 3.8       | 7.1             | 4.5                           |
| Non-U.S.   | 9.8              | 11.2                          | 14.0              | 0.0                                    | 12.5        | 0.0                           | 13.6        | 9.5                 | 27.8                  | 9.0                            | 7.9                         | 6.5        | 8.6       | 15.8            | 12.0                          |
| Unknown location   | 9.2              | 8.8                           | 12.3              | 0.0                                    | 12.5        | 0.0                           | 9.1         | 5.3                 | 22.2                  | 9.0                            | 9.7                         | 9.5        | 17.1      | 10.5            | 0.0                           |
| Number with temporary visas                                      | 1,883            | 1,351                         | 181               | 67                                     | 109         | 49                            | 271         | 209                 | 108                   | 357                            | 532                         | 324        | 62        | 52              | 94                            |
| U.S. total: percent  | 43.1             | 42.3                          | 47.0              | 32.8                                   | 37.6        | 55.1                          | 41.3        | 52.2                | 37.0                  | 37.8                           | 45.1                        | 53.7       | 33.9      | 40.4            | 25.5                          |
| Study  | 44.4             | 55.7                          | 81.2              | 77.3                                   | 61.0        | 33.3                          | 40.2        | 91.7                | 72.5                  | 17.8                           | 17.5                        | 14.4       | 23.8      | 47.6            | 8.3                           |
| Employment   | 54.5             | 43.4                          | 16.5              | 22.7                                   | 39.0        | 66.7                          | 59.8        | 8.3                 | 27.5                  | 80.0                           | 80.8                        | 83.9       | 71.4      | 52.4            | 91.7                          |
| Unknown  | 1.1              | 0.9                           | 2.4               | 0.0                                    | 0.0         | 0.0                           | 0.0         | 0.0                 | 0.0                   | 2.2                            | 1.7                         | 1.7        | 4.8       | 0.0             | 0.0                           |
| Non-U.S.   | 48.0             | 48.6                          | 44.2              | 53.7                                   | 56.9        | 32.7                          | 47.2        | 38.8                | 52.8                  | 54.9                           | 46.4                        | 36.7       | 61.3      | 53.8            | 66.0                          |
| Unknown location   | 9.0              | 9.2                           | 8.8               | 13.4                                   | 5.5         | 12.2                          | 11.4        | 9.1                 | 10.2                  | 7.3                            | 8.5                         | 9.6        | 4.8       | 5.8             | 8.5                           |
| <b>Number planning location in the United States after Ph.D.</b> | 1,339            | 870                           | 127               | 31                                     | 53          | 40                            | 163         | 190                 | 49                    | 217                            | 469                         | 341        | 47        | 35              | 46                            |
| Percent with definite postdoctoral study                         | 28.8             | 39.7                          | 58.3              | 48.4                                   | 45.3        | 27.5                          | 26.4        | 68.4                | 36.7                  | 13.8                           | 8.7                         | 7.0        | 10.6      | 28.6            | 4.3                           |
| Percent with definite employment                                 | 44.6             | 35.6                          | 15.7              | 25.8                                   | 35.8        | 57.5                          | 44.8        | 8.9                 | 22.4                  | 64.1                           | 61.2                        | 61.9       | 63.8      | 34.3            | 73.9                          |
| Percent seeking postdoctoral study                               | 8.8              | 10.8                          | 11.8              | 22.6                                   | 7.5         | 5.0                           | 10.4        | 17.9                | 22.4                  | 1.8                            | 5.1                         | 5.0        | 4.3       | 14.3            | 0.0                           |
| Percent seeking employment                                       | 15.9             | 12.3                          | 11.8              | 3.2                                    | 9.4         | 10.0                          | 17.2        | 4.2                 | 18.4                  | 17.1                           | 22.6                        | 24.0       | 17.0      | 20.0            | 19.6                          |
| Percent with postdoctoral plans unknown                          | 1.9              | 1.6                           | 2.4               | 0.0                                    | 1.9         | 0.0                           | 1.2         | 0.5                 | 0.0                   | 3.2                            | 2.3                         | 2.1        | 4.3       | 2.9             | 2.2                           |

See explanatory information, if any, and SOURCE at end of table.

Table B-14. Statistical profile of doctorate recipients from Western Europe<sup>1</sup>, by major field of doctorate, 1988-96

| Item   | Total All Fields | Total Science and Engineering | Physical Sciences | Earth, Atmospheric, and Ocean Sciences | Mathematics | Computer/Information Sciences | Engineering | Biological Sciences | Agricultural Sciences | Psychology and Social Sciences | Non-Science and Engineering | Humanities | Education | Health Sciences | Professional and Other Fields |
|--|------------------|-------------------------------|-------------------|--|-------------|-------------------------------|-------------|---------------------|-----------------------|--------------------------------|-----------------------------|------------|-----------|-----------------|-------------------------------|
| Number with definite employment plans in United States after Ph.D. | 597              | 310                           | 20                | 8                                      | 19          | 23                            | 73          | 17                  | 11                    | 139                            | 287                         | 211        | 30        | 12              | 34                            |
| Primary work activity: percent                                     |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| R&D.....   | 41.0             | 62.3                          | 75.0              | 62.5                                   | 52.6        | 52.2                          | 78.1        | 58.8                | 63.6                  | 55.4                           | 18.1                        | 11.4       | 16.7      | 66.7            | 44.1                          |
| Teaching.....  | 42.9             | 22.3                          | 10.0              | 25.0                                   | 47.4        | 21.7                          | 8.2         | 29.4                | 27.3                  | 26.6                           | 65.2                        | 73.9       | 43.3      | 16.7            | 47.1                          |
| Administrative.....  | 0.8              | 0.7                           | 0.0               | 0.0                                    | 0.0         | 0.0                           | 0.0         | 5.9                 | 0.0                   | 0.7                            | 1.0                         | 0.0        | 10.0      | 0.0             | 0.0                           |
| Professional services.....   | 4.5              | 5.8                           | 5.0               | 12.5                                   | 0.0         | 8.7                           | 5.5         | 0.0                 | 9.1                   | 6.5                            | 3.1                         | 2.4        | 10.0      | 0.0             | 2.9                           |
| Other.....   | 1.3              | 1.3                           | 0.0               | 0.0                                    | 0.0         | 0.0                           | 0.0         | 0.0                 | 0.0                   | 2.9                            | 1.4                         | 0.9        | 0.0       | 8.3             | 2.9                           |
| Unknown.....   | 9.4              | 7.7                           | 10.0              | 0.0                                    | 0.0         | 17.4                          | 8.2         | 5.9                 | 0.0                   | 7.9                            | 11.2                        | 11.4       | 20.0      | 8.3             | 2.9                           |
| Type of employer: percent  |                  |                               |                   |  |             |                               |             |                     |                       |                                |                             |            |           |                 |                               |
| Educational institution <sup>4</sup> .....                         | 72.2             | 54.5                          | 15.0              | 75.0                                   | 78.9        | 43.5                          | 26.0        | 35.3                | 45.5                  | 75.5                           | 91.3                        | 95.7       | 73.3      | 58.3            | 91.2                          |
| Industry/business.....   | 19.3             | 33.9                          | 65.0              | 25.0                                   | 21.1        | 52.2                          | 65.8        | 41.2                | 45.5                  | 7.2                            | 3.5                         | 0.9        | 13.3      | 8.3             | 8.8                           |
| Government.....  | 2.5              | 3.6                           | 0.0               | 0.0                                    | 0.0         | 0.0                           | 6.8         | 11.8                | 0.0                   | 2.9                            | 1.4                         | 0.5        | 3.3       | 16.7            | 0.0                           |
| Nonprofit.....   | 3.0              | 3.9                           | 0.0               | 0.0                                    | 0.0         | 4.3                           | 1.4         | 11.8                | 9.1                   | 5.0                            | 2.1                         | 1.9        | 3.3       | 8.3             | 0.0                           |
| Other and unknown.....   | 3.0              | 4.2                           | 0.0               | 0.0                                    | 0.0         | 0.0                           | 0.0         | 0.0                 | 0.0                   | 9.4                            | 1.7                         | 0.9        | 6.7       | 8.3             | 0.0                           |

<sup>1</sup> Includes Andorra, Belgium, Gibraltar, Luxembourg, Monaco, the Netherlands, Portugal, Spain, Switzerland, the Republic of Ireland, Austria, Liechtenstein, Malta, and unspecified Western European countries.

<sup>2</sup> This table includes all citizens of Western European countries who indicated a visa status (permanent or temporary visa). Those with unknown visa status are not included.

<sup>3</sup> 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. "Personal" includes a recipient's own earnings, family support, and loans. Federal research assistants are aggregated with university research assistants.

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

SOURCE: National Science Foundation, Division of Science Resources Studies, *Survey of Eamed Doctorates*.

Table B-15. Statistical profile of doctorate recipients from Canada, by year of Ph.D.: 1975, 1980, 1985-96

Page 1 of 2

| Item   | 1975       | 1980       | 1985       | 1986       | 1987       | 1988       | 1989       | 1990       | 1991       | 1992       | 1993       | 1994       | 1995       | 1996       |
|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>Total number of Ph.D.s<sup>1</sup></b> .....              | <b>482</b> | <b>301</b> | <b>287</b> | <b>295</b> | <b>317</b> | <b>353</b> | <b>363</b> | <b>419</b> | <b>511</b> | <b>509</b> | <b>486</b> | <b>490</b> | <b>524</b> | <b>501</b> |
| Percent men.....   | 82.8       | 76.4       | 71.1       | 69.5       | 69.1       | 67.1       | 70.8       | 65.9       | 64.8       | 66.4       | 58.4       | 62.4       | 58.4       | 61.9       |
| Percent women.....   | 17.2       | 23.6       | 28.9       | 30.5       | 30.9       | 32.9       | 29.2       | 34.1       | 35.2       | 33.6       | 41.6       | 37.6       | 41.6       | 38.1       |
| Percent with permanent visa.....                             | 16.8       | 19.6       | 22.3       | 27.1       | 23.7       | 27.5       | 26.7       | 25.1       | 28.4       | 25.5       | 26.1       | 22.0       | 28.4       | 24.2       |
| Percent with temporary visa.....                             | 83.2       | 80.4       | 77.7       | 72.9       | 76.3       | 72.5       | 73.3       | 74.9       | 71.6       | 74.5       | 73.9       | 78.0       | 71.6       | 75.8       |
| Percent married.....   | 68.1       | 57.8       | 50.2       | 56.3       | 51.4       | 54.4       | 49.0       | 50.6       | 48.7       | 51.3       | 46.5       | 49.0       | 45.2       | 48.9       |
| Percent not married.....                                     | 30.1       | 41.5       | 47.4       | 40.7       | 45.1       | 43.6       | 48.5       | 45.3       | 42.3       | 43.2       | 45.7       | 45.7       | 46.2       | 44.9       |
| Percent unknown.....   | 1.9        | 0.7        | 2.4        | 3.1        | 3.5        | 2.0        | 2.5        | 4.1        | 9.0        | 5.5        | 7.8        | 5.3        | 8.6        | 6.2        |
| Median age at Ph.D. in years <sup>2</sup> .....              | 29.4       | 29.5       | 29.5       | 30.5       | 30.1       | 30.6       | 30.8       | 30.5       | 30.8       | 30.8       | 30.7       | 30.9       | 31.3       | 31.3       |
| Percent with dependents.....                                 | 39.8       | 37.5       | 36.2       | 39.3       | 38.5       | 38.2       | 33.1       | 33.7       | 32.1       | 34.0       | 29.6       | 30.6       | 30.5       | 30.7       |
| Percent receiving sources of support: percent <sup>2,3</sup> |            |            |            |            |            |            |            |            |            |            |            |            |            |            |
| Personal.....  | 50.5       | 46.8       | 61.7       | 58.4       | 59.7       | 65.5       | 65.9       | 61.7       | 59.3       | 59.2       | 64.2       | 55.6       | 57.7       | 63.8       |
| Foreign government.....                                      | 0.0        | 0.0        | 0.0        | 0.0        | 27.6       | 38.4       | 35.5       | 35.2       | 30.0       | 28.9       | 28.1       | 31.6       | 29.6       | 35.1       |
| University.....  | 87.9       | 83.3       | 87.0       | 84.3       | 80.1       | 83.3       | 89.5       | 87.0       | 84.5       | 90.8       | 90.5       | 89.5       | 87.2       | 90.2       |
| Teaching assistant.....                                      | 52.0       | 46.8       | 44.8       | 48.3       | 43.1       | 49.3       | 50.9       | 51.0       | 45.5       | 60.2       | 57.5       | 53.5       | 44.9       | 62.0       |
| Research assistant.....                                      | 53.7       | 55.1       | 61.7       | 55.6       | 60.2       | 58.1       | 62.7       | 64.0       | 64.6       | 67.8       | 70.9       | 62.5       | 63.9       | 72.1       |
| Other university.....  | 41.6       | 31.4       | 37.0       | 29.8       | 22.1       | 27.1       | 32.7       | 21.3       | 20.9       | 22.0       | 30.2       | 28.4       | 28.5       | 44.2       |
| Other.....   | 42.7       | 54.5       | 42.9       | 49.4       | 22.7       | 16.7       | 15.9       | 13.8       | 14.5       | 18.1       | 21.8       | 20.0       | 17.5       | 16.7       |
| Unknown.....   | 1.4        | 0.0        | 3.2        | 2.8        | 7.2        | 3.4        | 2.7        | 3.6        | 6.1        | 2.0        | 2.5        | 1.5        | 4.4        | 3.3        |
| Median years from baccalaureate to Ph.D.                     |            |            |            |            |            |            |            |            |            |            |            |            |            |            |
| Total time: in years.....                                    | 8.0        | 8.9        | 9.1        | 9.0        | 9.1        | 9.5        | 9.3        | 9.0        | 9.5        | 9.2        | 9.5        | 8.9        | 9.9        | 9.6        |
| Registered time: in years.....                               | 5.6        | 6.0        | 6.5        | 6.5        | 6.8        | 6.9        | 6.8        | 6.8        | 6.8        | 6.9        | 7.0        | 7.0        | 7.2        | 7.0        |
| Sciences & Engineering: percent.....                         | 58.3       | 51.8       | 53.7       | 60.3       | 57.1       | 57.5       | 60.6       | 60.4       | 58.1       | 59.7       | 58.6       | 56.1       | 52.3       | 55.1       |
| Physical Sciences.....                                       | 9.6        | 12.2       | 12.3       | 13.5       | 12.2       | 14.3       | 10.0       | 14.2       | 11.4       | 13.2       | 15.4       | 15.6       | 14.6       | 12.3       |
| Earth, Atmospheric, and Ocean sciences.....                  | 8.2        | 5.1        | 5.8        | 5.6        | 5.0        | 3.0        | 4.1        | 4.0        | 4.4        | 6.6        | 3.5        | 1.8        | 3.3        | 2.9        |
| Mathematics.....   | 6.1        | 8.3        | 6.5        | 3.9        | 5.5        | 5.4        | 5.0        | 4.3        | 6.1        | 5.9        | 5.6        | 5.8        | 4.7        | 4.0        |
| Computer/Information sciences.....                           | 0.0        | 1.3        | 1.3        | 2.2        | 1.7        | 3.0        | 3.6        | 3.2        | 4.0        | 4.6        | 2.5        | 2.5        | 3.3        | 1.8        |
| Engineering.....   | 10.7       | 12.8       | 14.3       | 10.1       | 16.0       | 13.8       | 17.3       | 16.2       | 18.2       | 15.1       | 14.7       | 13.1       | 15.0       | 16.3       |
| Biological sciences.....                                     | 16.0       | 17.9       | 17.5       | 22.5       | 23.8       | 23.2       | 20.9       | 19.4       | 22.2       | 19.4       | 17.5       | 26.9       | 17.9       | 26.4       |
| Agricultural sciences.....                                   | 5.0        | 5.1        | 7.8        | 7.3        | 7.2        | 5.4        | 5.5        | 6.3        | 3.7        | 3.9        | 4.6        | 2.9        | 3.7        | 5.1        |
| Psychology and social sciences.....                          | 44.5       | 37.2       | 34.4       | 34.8       | 28.7       | 32.0       | 33.6       | 32.4       | 30.0       | 31.3       | 36.1       | 31.3       | 37.6       | 31.2       |
| Non-sciences and   |            |            |            |            |            |            |            |            |            |            |            |            |            |            |
| Engineering: percent.....                                    | 41.7       | 48.2       | 46.3       | 39.7       | 42.9       | 42.5       | 39.4       | 39.6       | 41.9       | 40.3       | 41.4       | 43.9       | 47.7       | 44.9       |
| Humanities.....  | 31.8       | 30.3       | 33.1       | 34.2       | 27.9       | 38.0       | 35.7       | 37.3       | 36.9       | 36.6       | 31.8       | 36.3       | 34.8       | 37.3       |
| Education.....   | 47.8       | 52.4       | 42.9       | 43.6       | 45.6       | 38.7       | 35.0       | 24.7       | 32.7       | 27.8       | 35.8       | 28.4       | 37.6       | 32.9       |
| Health sciences.....   | 5.5        | 6.2        | 6.0        | 6.8        | 9.6        | 8.0        | 9.8        | 13.3       | 9.8        | 11.7       | 7.0        | 14.0       | 12.0       | 10.7       |
| Professional and other fields.....                           | 14.9       | 11.0       | 18.0       | 15.4       | 16.9       | 15.3       | 19.6       | 24.7       | 20.6       | 23.9       | 25.4       | 21.4       | 15.6       | 19.1       |
| <b>Planned location after Ph.D.<sup>2</sup></b>              |            |            |            |            |            |            |            |            |            |            |            |            |            |            |
| Number with permanent visas:                                 |            |            |            |            |            |            |            |            |            |            |            |            |            |            |
| U. S. total: percent.....                                    | 75.6       | 75.0       | 62.1       | 63.3       | 67.5       | 67.9       | 58.2       | 74.5       | 81.3       | 84.2       | 80.3       | 86.2       | 80.8       | 81.4       |
| Study.....   | 41.9       | 33.3       | 16.7       | 51.6       | 55.6       | 55.6       | 56.3       | 29.3       | 39.3       | 32.8       | 43.9       | 42.0       | 39.7       | 47.4       |
| Employment.....  | 58.1       | 66.7       | 83.3       | 48.4       | 44.4       | 44.4       | 43.8       | 70.7       | 59.0       | 65.6       | 50.9       | 58.0       | 60.3       | 50.9       |
| Unknown.....   | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 1.6        | 1.6        | 5.3        | 0.0        | 0.0        | 1.8        |
| Non-U.S.....   | 12.2       | 3.1        | 13.8       | 8.2        | 20.0       | 15.1       | 16.4       | 10.9       | 13.3       | 15.8       | 15.5       | 12.1       | 12.8       | 11.4       |
| Unknown location.....  | 12.2       | 21.9       | 24.1       | 28.6       | 12.5       | 17.0       | 25.5       | 14.5       | 5.3        | 0.0        | 4.2        | 1.7        | 6.4        | 7.1        |

See explanatory information, if any, and SOURCE at end of table.



Table B-15. Statistical profile of doctorate recipients from Canada, by year of Ph.D.: 1975, 1980, 1985-96

Page 2 of 2

| Item  | 1975      | 1980      | 1985      | 1986      | 1987      | 1988      | 1989      | 1990       | 1991       | 1992       | 1993       | 1994       | 1995       | 1996       |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|
| Number with temporary visas:.....   | 240       | 124       | 125       | 129       | 141       | 150       | 165       | 198        | 222        | 228        | 214        | 217        | 196        | 206        |
| U. S. total: percent.....   | 24.2      | 33.9      | 38.4      | 31.8      | 35.5      | 39.3      | 37.6      | 40.4       | 45.5       | 46.9       | 50.0       | 50.7       | 56.1       | 60.7       |
| Study.....  | 55.2      | 69.0      | 64.6      | 61.0      | 58.0      | 54.2      | 48.4      | 52.5       | 54.5       | 42.1       | 59.8       | 58.2       | 49.1       | 48.8       |
| Employment.....   | 44.8      | 31.0      | 35.4      | 39.0      | 42.0      | 45.8      | 51.6      | 47.5       | 45.5       | 57.0       | 40.2       | 40.0       | 48.2       | 49.6       |
| Unknown.....  | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0        | 0.0        | 0.9        | 0.0        | 1.8        | 2.7        | 1.6        |
| Non-U.S.....  | 60.8      | 56.5      | 41.6      | 48.1      | 38.3      | 42.0      | 41.2      | 46.0       | 45.0       | 49.1       | 47.7       | 48.4       | 40.3       | 37.9       |
| Unknown location.....   | 15.0      | 9.7       | 20.0      | 20.2      | 26.2      | 18.7      | 21.2      | 13.6       | 9.5        | 3.9        | 2.3        | 0.9        | 3.6        | 1.5        |
| <b>Number planning location in the United States after Ph.D.<sup>2</sup>:</b> | <b>89</b> | <b>66</b> | <b>66</b> | <b>72</b> | <b>77</b> | <b>95</b> | <b>94</b> | <b>121</b> | <b>162</b> | <b>171</b> | <b>164</b> | <b>160</b> | <b>173</b> | <b>182</b> |
| Percent with definite postdoctoral study <sup>4</sup> .....                   | 48.3      | 51.5      | 40.9      | 48.6      | 49.4      | 47.4      | 43.6      | 33.1       | 39.5       | 33.3       | 44.5       | 45.0       | 32.9       | 40.7       |
| Percent with definite employment <sup>4</sup> .....                           | 47.2      | 40.9      | 47.0      | 41.7      | 40.3      | 44.2      | 42.6      | 48.8       | 38.9       | 43.3       | 34.8       | 31.9       | 35.8       | 30.8       |
| Percent seeking postdoctoral study <sup>4</sup> .....                         | 2.2       | 4.5       | 10.6      | 8.3       | 7.8       | 7.4       | 7.4       | 11.6       | 9.3        | 5.3        | 9.8        | 8.1        | 12.7       | 7.7        |
| Percent seeking employment <sup>4</sup> .....                                 | 2.2       | 3.0       | 1.5       | 1.4       | 2.6       | 1.1       | 6.4       | 6.6        | 11.7       | 17.0       | 9.1        | 13.8       | 16.8       | 19.2       |
| Percent with postdoctoral plans unknown <sup>4</sup> .....                    | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0        | 0.6        | 1.2        | 1.8        | 1.3        | 1.7        | 1.6        |
| <b>Number with definite employment plans in United States after Ph.D.:</b>    | <b>42</b> | <b>27</b> | <b>31</b> | <b>30</b> | <b>31</b> | <b>42</b> | <b>40</b> | <b>59</b>  | <b>63</b>  | <b>74</b>  | <b>57</b>  | <b>51</b>  | <b>62</b>  | <b>56</b>  |
| Primary work activity <sup>2</sup> : percent.....                             |           |           |           |           |           |           |           |            |            |            |            |            |            |            |
| R&D.....  | 35.7      | 66.7      | 45.2      | 56.7      | 67.7      | 45.2      | 67.5      | 49.2       | 49.2       | 55.4       | 45.6       | 56.9       | 53.2       | 39.3       |
| Teaching.....   | 40.5      | 14.8      | 45.2      | 23.3      | 12.9      | 28.6      | 25.0      | 20.3       | 22.2       | 17.6       | 22.8       | 19.6       | 22.6       | 33.9       |
| Administrative.....   | 4.8       | 0.0       | 0.0       | 3.3       | 0.0       | 2.4       | 2.5       | 1.7        | 0.0        | 2.7        | 0.0        | 2.0        | 1.6        | 3.6        |
| Professional services.....  | 9.5       | 14.8      | 0.0       | 13.3      | 19.4      | 11.9      | 2.5       | 15.3       | 15.9       | 13.5       | 10.5       | 9.8        | 19.4       | 12.5       |
| Other.....  | 0.0       | 3.7       | 0.0       | 3.3       | 0.0       | 4.8       | 0.0       | 0.0        | 4.8        | 1.4        | 0.0        | 3.9        | 0.0        | 3.6        |
| Unknown.....  | 9.5       | 0.0       | 9.7       | 0.0       | 0.0       | 7.1       | 2.5       | 13.6       | 7.9        | 9.5        | 21.1       | 7.8        | 3.2        | 7.1        |
| Type of employer: percent <sup>2</sup>  |           |           |           |           |           |           |           |            |            |            |            |            |            |            |
| Educational institution <sup>5</sup> .....                                    | 64.3      | 40.7      | 83.9      | 50.0      | 45.2      | 54.8      | 55.0      | 55.9       | 55.6       | 41.9       | 57.9       | 47.1       | 45.2       | 50.0       |
| Industry/business.....  | 16.7      | 37.0      | 12.9      | 43.3      | 38.7      | 33.3      | 27.5      | 30.5       | 38.1       | 44.6       | 33.3       | 45.1       | 41.9       | 41.1       |
| Government.....   | 2.4       | 3.7       | 3.2       | 3.3       | 6.5       | 0.0       | 7.5       | 5.1        | 1.6        | 2.7        | 0.0        | 3.9        | 1.6        | 5.4        |
| Nonprofit.....  | 7.1       | 18.5      | 0.0       | 3.3       | 9.7       | 11.9      | 7.5       | 8.5        | 3.2        | 8.1        | 3.5        | 2.0        | 9.7        | 3.6        |
| Other and unknown.....  | 9.5       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 2.5       | 0.0        | 1.6        | 2.7        | 5.3        | 2.0        | 1.6        | 0.0        |

<sup>1</sup>This table includes all citizens of Canada who indicated a visa status (permanent or temporary visa). Those with unknown visa status are not included.

<sup>2</sup>Sciences and engineering Ph.D.s only.

<sup>3</sup>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. "Personal" includes a recipient's own earnings, family support, and loans. Federal research assistants are aggregated with university research assistants.

<sup>4</sup>Includes only those Ph.D. recipients intending to remain in the United States after graduation.

<sup>5</sup>Includes 2-year and 4-year colleges and universities, medical schools, and elementary/secondary schools.

**SOURCE:** National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*.



Table B-16. Statistical profile of doctorate recipients from China, by year of Ph.D.: 1975, 1980, 1985-96

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| Item   | 1975     | 1980     | 1985       | 1986       | 1987       | 1988       | 1989       | 1990         | 1991         | 1992         | 1993         | 1994         | 1995         | 1996         |
|--|----------|----------|------------|------------|------------|------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>Total number of Ph.D.s<sup>1</sup></b> .....              | <b>4</b> | <b>3</b> | <b>137</b> | <b>203</b> | <b>306</b> | <b>499</b> | <b>657</b> | <b>1,225</b> | <b>1,919</b> | <b>2,238</b> | <b>2,416</b> | <b>2,772</b> | <b>2,979</b> | <b>3,200</b> |
| Percent men.....   | D        | D        | 84.7       | 90.6       | 87.6       | 84.6       | 82.0       | 82.6         | 79.7         | 77.8         | 76.5         | 75.5         | 73.8         | 74.5         |
| Percent women.....   | D        | D        | 15.3       | 9.4        | 12.4       | 15.4       | 18.0       | 17.4         | 20.3         | 22.3         | 23.6         | 24.5         | 26.3         | 25.5         |
| Percent with permanent visa.....                             | D        | D        | 3.7        | 3.4        | 7.5        | 6.2        | 5.5        | 4.7          | 5.8          | 8.6          | 16.1         | 64.6         | 79.4         | 56.0         |
| Percent with temporary visa.....                             | D        | D        | 96.4       | 96.6       | 92.5       | 93.8       | 94.5       | 95.3         | 94.2         | 91.4         | 83.9         | 35.4         | 20.6         | 44.0         |
| Percent married.....   | D        | D        | 86.1       | 86.7       | 77.8       | 78.8       | 78.4       | 74.4         | 74.6         | 78.2         | 79.8         | 79.2         | 78.5         | 80.8         |
| Percent not married.....                                     | D        | D        | 12.4       | 13.3       | 19.0       | 20.0       | 20.2       | 18.7         | 17.8         | 16.2         | 14.8         | 14.8         | 15.7         | 15.4         |
| Percent unknown.....   | D        | D        | 1.5        | 0.0        | 3.3        | 1.2        | 1.4        | 6.9          | 7.7          | 5.6          | 5.4          | 6.0          | 5.8          | 3.8          |
| Median age at Ph.D. in years <sup>2</sup> .....              | D        | D        | 39.9       | 39.6       | 36.8       | 32.5       | 32.2       | 32.0         | 32.4         | 32.3         | 32.5         | 32.4         | 32.3         | 32.6         |
| Percent with dependents.....                                 | D        | D        | 73.7       | 76.8       | 62.7       | 60.9       | 57.2       | 58.5         | 59.1         | 61.9         | 62.9         | 63.4         | 60.8         | 62.7         |
| Percent receiving sources of support: percent <sup>2,3</sup> |          |          |            |            |            |            |            |              |              |              |              |              |              |              |
| Personal.....  | D        | D        | 7.4        | 10.6       | 13.3       | 12.1       | 12.3       | 13.5         | 14.2         | 17.7         | 21.5         | 22.4         | 22.9         | 33.7         |
| Foreign government.....                                      | D        | D        | 0.0        | 0.0        | 11.9       | 19.0       | 19.0       | 12.6         | 9.0          | 7.8          | 4.9          | 2.5          | 1.3          | 1.3          |
| University.....  | D        | D        | 89.6       | 95.5       | 93.2       | 96.9       | 97.1       | 93.3         | 94.7         | 97.1         | 95.9         | 95.6         | 95.5         | 96.0         |
| Teaching assistant.....                                      | D        | D        | 45.2       | 61.6       | 61.1       | 65.8       | 62.9       | 57.7         | 57.3         | 59.1         | 56.6         | 55.6         | 53.1         | 58.4         |
| Research assistant.....                                      | D        | D        | 69.6       | 81.3       | 77.5       | 85.6       | 80.6       | 81.2         | 80.9         | 84.8         | 82.0         | 81.4         | 81.8         | 84.3         |
| Other university.....  | D        | D        | 25.2       | 26.8       | 25.3       | 27.1       | 26.9       | 21.2         | 19.7         | 16.2         | 17.9         | 16.8         | 18.0         | 28.3         |
| Other.....   | D        | D        | 25.9       | 19.2       | 8.5        | 6.7        | 7.6        | 4.4          | 5.1          | 5.1          | 5.8          | 6.1          | 5.6          | 8.2          |
| Unknown.....   | D        | D        | 3.0        | 2.0        | 5.5        | 1.9        | 2.1        | 5.3          | 4.4          | 2.0          | 2.8          | 3.1          | 3.3          | 3.5          |
| Median years from baccalaureate to Ph.D.                     |          |          |            |            |            |            |            |              |              |              |              |              |              |              |
| Total time: in years.....                                    | D        | D        | 16.9       | 16.2       | 8.4        | 6.3        | 6.9        | 7.8          | 8.7          | 9.5          | 10.3         | 10.9         | 11.1         | 11.4         |
| Registered time: in years.....                               | D        | D        | 5.3        | 5.7        | 5.3        | 5.6        | 5.9        | 6.3          | 6.4          | 6.9          | 7.1          | 7.3          | 7.4          | 7.4          |
| Sciences & Engineering: percent.....                         | D        | D        | 98.5       | 97.5       | 95.8       | 96.2       | 94.4       | 93.9         | 93.4         | 91.4         | 92.2         | 91.3         | 92.4         | 92.3         |
| Physical sciences.....                                       | D        | D        | 26.7       | 36.9       | 38.2       | 36.5       | 34.8       | 28.0         | 27.7         | 28.6         | 25.0         | 25.3         | 23.9         | 21.4         |
| Earth, Atmospheric, and Ocean sciences.....                  | D        | D        | 6.7        | 4.5        | 1.0        | 4.4        | 2.9        | 3.7          | 2.7          | 4.3          | 3.8          | 4.4          | 3.8          | 3.5          |
| Mathematics.....   | D        | D        | 13.3       | 14.6       | 11.6       | 9.2        | 11.1       | 9.7          | 10.7         | 8.5          | 9.0          | 7.4          | 7.2          | 6.1          |
| Computer/Information sciences.....                           | D        | D        | 4.4        | 5.1        | 4.1        | 2.9        | 3.4        | 3.2          | 3.3          | 2.9          | 2.5          | 2.1          | 2.1          | 2.1          |
| Engineering.....   | D        | D        | 35.6       | 28.3       | 29.4       | 27.5       | 25.6       | 28.5         | 26.6         | 24.8         | 24.4         | 25.9         | 28.1         | 27.1         |
| Biological sciences.....                                     | D        | D        | 10.4       | 8.1        | 12.3       | 13.1       | 15.0       | 18.4         | 20.6         | 22.1         | 24.3         | 23.4         | 26.1         | 29.1         |
| Agricultural sciences.....                                   | D        | D        | 1.5        | 1.0        | 0.7        | 2.9        | 3.2        | 3.2          | 3.6          | 3.3          | 3.1          | 3.2          | 2.4          | 4.2          |
| Psychology and social sciences.....                          | D        | D        | 1.5        | 1.5        | 2.7        | 3.5        | 3.9        | 5.1          | 4.9          | 5.6          | 7.9          | 8.3          | 6.4          | 6.5          |
| Non-sciences and Engineering: percent.....                   | D        | D        | 1.5        | 2.5        | 4.2        | 3.8        | 5.6        | 6.1          | 6.6          | 8.6          | 7.8          | 8.7          | 7.6          | 7.8          |
| Humanities.....  | D        | D        | 100.0      | 40.0       | 30.8       | 42.1       | 35.1       | 26.7         | 23.0         | 30.6         | 27.0         | 32.8         | 25.6         | 29.8         |
| Education.....   | D        | D        | 0.0        | 0.0        | 15.4       | 31.6       | 29.7       | 40.0         | 31.8         | 25.9         | 28.0         | 29.1         | 26.4         | 26.2         |
| Health sciences.....   | D        | D        | 0.0        | 0.0        | 30.8       | 10.5       | 18.9       | 12.0         | 19.8         | 21.8         | 20.1         | 20.3         | 25.1         | 21.0         |
| Professional and other fields.....                           | D        | D        | 0.0        | 60.0       | 23.1       | 15.8       | 16.2       | 21.3         | 25.4         | 21.8         | 24.9         | 17.8         | 22.9         | 23.0         |
| <b>Planned location after Ph.D.<sup>2</sup></b>              |          |          |            |            |            |            |            |              |              |              |              |              |              |              |
| Number with permanent visas.....                             | D        | D        | 5          | 7          | 22         | 26         | 36         | 54           | 100          | 162          | 352          | 1,642        | 2,169        | 1,628        |
| U. S. total: percent.....                                    | D        | D        | 40.0       | 57.1       | 50.0       | 61.5       | 66.7       | 63.0         | 83.0         | 96.3         | 95.7         | 95.5         | 94.5         | 94.6         |
| Study.....   | D        | D        | 50.0       | 50.0       | 45.5       | 37.5       | 62.5       | 35.3         | 50.6         | 53.2         | 47.5         | 54.0         | 53.8         | 48.3         |
| Employment.....  | D        | D        | 50.0       | 50.0       | 54.5       | 62.5       | 33.3       | 61.8         | 47.0         | 39.7         | 45.1         | 42.3         | 42.5         | 48.9         |
| Unknown.....   | D        | D        | 0.0        | 0.0        | 0.0        | 0.0        | 4.2        | 2.9          | 2.4          | 7.1          | 7.4          | 3.7          | 3.7          | 2.8          |
| Non-U.S.....   | D        | D        | 20.0       | 0.0        | 4.5        | 0.0        | 2.8        | 1.9          | 2.0          | 1.2          | 1.7          | 2.1          | 2.2          | 2.5          |
| Unknown location.....  | D        | D        | 40.0       | 42.9       | 45.5       | 38.5       | 30.6       | 35.2         | 15.0         | 2.5          | 2.6          | 2.4          | 3.3          | 3.0          |

See explanatory information, if any, and SOURCE at end of table.

Table B-16. Statistical profile of doctorate recipients from China, by year of Ph.D.: 1975, 1980, 1985-96

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| Item  | 1975     | 1980     | 1985      | 1986       | 1987       | 1988       | 1989       | 1990       | 1991         | 1992         | 1993         | 1994         | 1995         | 1996         |
|---|----------|----------|-----------|------------|------------|------------|------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Number with temporary visas:  | D        | D        | 130       | 191        | 271        | 454        | 584        | 1,096      | 1,693        | 1,883        | 1,875        | 889          | 583          | 1,324        |
| U. S. total: percent  | D        | D        | 39.2      | 53.4       | 56.1       | 59.0       | 61.1       | 59.6       | 79.5         | 87.8         | 87.4         | 87.4         | 84.9         | 86.9         |
| Study   | D        | D        | 68.6      | 79.4       | 80.9       | 79.1       | 77.0       | 65.5       | 61.6         | 62.3         | 62.5         | 58.4         | 58.2         | 59.0         |
| Employment  | D        | D        | 25.5      | 20.6       | 18.4       | 20.9       | 22.1       | 33.7       | 36.6         | 34.4         | 34.4         | 38.9         | 38.0         | 39.2         |
| Unknown   | D        | D        | 5.9       |            | 0.7        | 0.0        | 0.8        | 0.8        | 1.8          | 3.3          | 3.1          | 2.7          | 3.8          | 1.7          |
| Non-U.S.  | D        | D        | 30.0      | 14.7       | 7.0        | 8.2        | 9.4        | 9.7        | 5.7          | 5.5          | 5.3          | 4.7          | 5.7          | 5.3          |
| Unknown location  | D        | D        | 30.8      | 31.9       | 36.9       | 32.8       | 29.5       | 30.8       | 14.8         | 6.7          | 7.3          | 7.9          | 9.4          | 7.9          |
| <b>Number planning location in the United States after Ph.D.<sup>2</sup>:</b> | <b>D</b> | <b>D</b> | <b>53</b> | <b>106</b> | <b>163</b> | <b>284</b> | <b>381</b> | <b>687</b> | <b>1,429</b> | <b>1,809</b> | <b>1,975</b> | <b>2,345</b> | <b>2,545</b> | <b>2,690</b> |
| Percent with definite postdoctoral study <sup>4</sup>                         | D        | D        | 45.3      | 64.2       | 64.4       | 60.6       | 62.7       | 47.2       | 37.5         | 36.8         | 33.5         | 31.4         | 31.1         | 35.7         |
| Percent with definite employment <sup>4</sup>                                 | D        | D        | 22.6      | 19.8       | 17.8       | 20.8       | 19.4       | 22.3       | 22.5         | 17.8         | 17.3         | 17.1         | 17.7         | 26.8         |
| Percent seeking postdoctoral study <sup>4</sup>                               | D        | D        | 22.6      | 14.2       | 14.1       | 16.2       | 13.4       | 16.9       | 23.4         | 24.7         | 26.5         | 24.1         | 23.6         | 17.2         |
| Percent seeking employment <sup>4</sup>                                       | D        | D        | 3.8       | 1.9        | 3.1        | 2.5        | 3.4        | 12.8       | 14.7         | 17.1         | 18.9         | 24.0         | 23.9         | 18.0         |
| Percent with postdoctoral plans unknown <sup>4</sup>                          | D        | D        | 5.7       | 0.0        | 0.6        | 0.0        | 1.1        | 0.9        | 1.8          | 3.6          | 3.8          | 3.4          | 3.7          | 2.3          |
| <b>Number with definite employment plans in United States after Ph.D.:</b>    | <b>D</b> | <b>D</b> | <b>12</b> | <b>21</b>  | <b>29</b>  | <b>59</b>  | <b>74</b>  | <b>153</b> | <b>322</b>   | <b>322</b>   | <b>342</b>   | <b>402</b>   | <b>450</b>   | <b>720</b>   |
| Primary work activity <sup>2</sup> : percent                                  |          |          |           |            |            |            |            |            |              |              |              |              |              |              |
| R&D   | D        | D        | 58.3      | 28.6       | 62.1       | 57.6       | 62.2       | 56.9       | 61.8         | 64.3         | 58.5         | 67.4         | 66.2         | 72.8         |
| Teaching  | D        | D        | 33.3      | 61.9       | 27.6       | 27.1       | 25.7       | 16.3       | 15.5         | 13.4         | 18.4         | 9.7          | 9.1          | 6.8          |
| Administrative  | D        | D        | 0.0       | 0.0        | 3.4        | 1.7        | 0.0        | 0.7        | 0.3          | 0.6          | 0.3          | 1.0          | 0.9          | 1.1          |
| Professional services   | D        | D        | 0.0       | 0.0        | 0.0        | 3.4        | 1.4        | 5.2        | 3.7          | 3.4          | 3.5          | 5.0          | 8.7          | 11.1         |
| Other   | D        | D        | 0.0       | 4.8        | 0.0        | 0.0        | 0.0        | 0.0        | 1.2          | 0.9          | 1.8          | 2.5          | 2.0          | 3.9          |
| Unknown   | D        | D        | 8.3       | 4.8        | 6.9        | 10.2       | 10.8       | 20.9       | 17.4         | 17.4         | 17.5         | 14.4         | 13.1         | 4.3          |
| Type of employer: percent <sup>2</sup>  |          |          |           |            |            |            |            |            |              |              |              |              |              |              |
| Educational institution <sup>5</sup>  | D        | D        | 66.7      | 76.2       | 62.1       | 69.5       | 66.2       | 46.4       | 41.6         | 39.8         | 42.1         | 25.4         | 23.8         | 13.6         |
| Industry/business   | D        | D        | 25.0      | 14.3       | 34.5       | 25.4       | 27.0       | 47.1       | 51.9         | 52.2         | 48.8         | 63.7         | 66.9         | 79.4         |
| Government  | D        | D        | 8.3       | 0.0        | 3.4        | 3.4        | 2.7        | 3.3        | 1.9          | 3.1          | 3.8          | 3.0          | 2.9          | 2.5          |
| Nonprofit   | D        | D        | 0.0       | 9.5        | 0.0        | 0.0        | 2.7        | 2.6        | 4.0          | 2.2          | 2.3          | 3.5          | 3.1          | 2.9          |
| Other and unknown   | D        | D        | 0.0       | 0.0        | 0.0        | 1.7        | 1.4        | 0.7        | 0.6          | 2.8          | 2.9          | 4.5          | 3.3          | 1.5          |

D = data withheld to avoid potential disclosure of confidential information.

<sup>1</sup> This table includes all citizens of China who indicated a visa status (permanent or temporary visa). Those with unknown visa status are not included.<sup>2</sup> Sciences and engineering Ph.D.s only.<sup>3</sup> 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. "Personal" includes a recipient's own earnings, family support, and loans. Federal research assistants are aggregated with university research assistants.<sup>4</sup> Includes only those Ph.D. recipients intending to remain in the United States after graduation.<sup>5</sup> Includes 2-year and 4-year colleges and universities, medical schools, and elementary/secondary schools.**SOURCE:** National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*.

Table B-17. Statistical profile of doctorate recipients from Eastern Europe, by year of Ph.D.: 1975, 1980, 1985-96

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| Item   | 1975      | 1980      | 1985      | 1986      | 1987      | 1988      | 1989      | 1990       | 1991       | 1992       | 1993       | 1994       | 1995       | 1996       |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|
| <b>Total number of Ph.D.s<sup>2</sup></b> .....              | <b>25</b> | <b>28</b> | <b>55</b> | <b>67</b> | <b>57</b> | <b>69</b> | <b>72</b> | <b>106</b> | <b>116</b> | <b>124</b> | <b>148</b> | <b>217</b> | <b>281</b> | <b>433</b> |
| Percent men.....   | 80.0      | 75.0      | 69.1      | 73.1      | 82.5      | 81.2      | 72.2      | 71.7       | 78.4       | 74.2       | 68.9       | 75.1       | 75.9       | 73.7       |
| Percent women.....   | 20.0      | 25.0      | 30.9      | 26.9      | 17.5      | 18.8      | 27.8      | 28.3       | 21.6       | 25.8       | 31.1       | 24.9       | 24.1       | 26.3       |
| Percent with permanent visa.....                             | 40.0      | 21.4      | 14.5      | 28.4      | 24.6      | 15.9      | 27.8      | 25.5       | 18.1       | 24.2       | 20.9       | 25.8       | 21.5       | 22.6       |
| Percent with temporary visa.....                             | 60.0      | 78.6      | 85.5      | 71.6      | 75.4      | 84.1      | 72.2      | 74.5       | 81.9       | 75.8       | 79.1       | 74.2       | 78.5       | 77.4       |
| Percent married.....   | 56.0      | 32.1      | 61.8      | 64.2      | 54.4      | 59.4      | 61.1      | 61.3       | 56.0       | 62.1       | 59.5       | 59.4       | 62.5       | 57.5       |
| Percent not married.....                                     | 44.0      | 67.9      | 34.5      | 32.8      | 43.9      | 40.6      | 36.1      | 32.1       | 34.5       | 33.1       | 35.1       | 34.6       | 24.5       | 37.6       |
| Percent unknown.....   | 0.0       | 0.0       | 3.6       | 3.0       | 1.8       | 0.0       | 2.8       | 6.6        | 9.5        | 4.8        | 5.4        | 6.0        | 13.0       | 4.9        |
| Median age at Ph.D. in years <sup>3</sup> .....              | 31.2      | 31.1      | 31.9      | 31.6      | 30.9      | 32.1      | 32.3      | 33.0       | 32.4       | 32.0       | 32.0       | 31.3       | 31.5       | 31.1       |
| Percent with dependents.....                                 | 28.0      | 32.1      | 54.5      | 53.7      | 35.1      | 43.5      | 41.7      | 44.3       | 46.6       | 44.4       | 44.6       | 48.4       | 49.0       | 46.9       |
| Percent receiving sources of support: percent <sup>3,4</sup> |           |           |           |           |           |           |           |            |            |            |            |            |            |            |
| Personal.....  | 33.3      | 23.1      | 41.2      | 47.5      | 21.7      | 33.8      | 43.5      | 33.3       | 48.5       | 40.2       | 34.1       | 35.5       | 33.6       | 39.7       |
| Foreign government.....                                      | 0.0       | 0.0       | 0.0       | 0.0       | 2.2       | 3.1       | 3.2       | 2.2        | 1.0        | 0.9        | 2.4        | 0.5        | 0.4        | 1.3        |
| University.....  | 95.8      | 96.2      | 90.2      | 100.0     | 97.8      | 95.4      | 95.2      | 95.6       | 89.9       | 97.2       | 96.8       | 97.3       | 95.0       | 95.8       |
| Teaching assistant.....                                      | 62.5      | 53.8      | 58.8      | 64.4      | 67.4      | 70.8      | 66.1      | 60.0       | 62.6       | 65.4       | 71.4       | 64.5       | 65.6       | 68.5       |
| Research assistant.....                                      | 79.2      | 73.1      | 70.6      | 66.1      | 69.6      | 81.5      | 66.1      | 64.4       | 70.7       | 65.4       | 73.0       | 74.7       | 71.8       | 74.9       |
| Other university.....  | 29.2      | 19.2      | 21.6      | 30.5      | 32.6      | 23.1      | 19.4      | 30.0       | 17.2       | 25.2       | 20.6       | 18.8       | 18.7       | 33.6       |
| Other.....   | 20.8      | 26.9      | 13.7      | 8.5       | 13.0      | 18.5      | 14.5      | 14.4       | 13.1       | 15.9       | 10.3       | 10.8       | 10.0       | 13.5       |
| Unknown.....   | 0.0       | 0.0       | 5.9       | 0.0       | 2.2       | 3.1       | 3.2       | 4.4        | 6.1        | 0.9        | 1.6        | 1.1        | 4.6        | 4.0        |
| Median years from baccalaureate to Ph.D.                     |           |           |           |           |           |           |           |            |            |            |            |            |            |            |
| Total time: in years.....                                    | 7.8       | 8.8       | 8.9       | 8.2       | 7.4       | 8.3       | 8.9       | 9.0        | 8.6        | 9.0        | 9.1        | 8.5        | 7.8        | 7.8        |
| Registered time: in years.....                               | 4.4       | 5.7       | 6.2       | 5.8       | 5.0       | 5.4       | 6.0       | 5.9        | 6.7        | 5.6        | 6.1        | 5.8        | 5.8        | 5.7        |
| Sciences & Engineering: percent.....                         | 96.0      | 92.9      | 92.7      | 88.1      | 80.7      | 94.2      | 86.1      | 84.9       | 85.3       | 86.3       | 85.1       | 85.7       | 92.3       | 87.3       |
| Physical Sciences.....                                       | 41.7      | 19.2      | 33.3      | 27.1      | 34.8      | 33.8      | 17.7      | 14.4       | 18.2       | 20.6       | 15.9       | 22.6       | 24.9       | 25.9       |
| Earth, Atmospheric, and Ocean sciences.....                  | 0.0       | 0.0       | 2.0       | 0.0       | 2.2       | 3.1       |           | 1.1        | 1.0        | 3.7        | 2.4        | 3.2        | 2.1        | 3.7        |
| Mathematics.....   | 4.2       | 19.2      | 17.6      | 22.0      | 32.6      | 16.9      | 16.1      | 31.1       | 19.2       | 27.1       | 28.6       | 23.7       | 22.0       | 23.3       |
| Computer/Information sciences.....                           | 0.0       | 7.7       | 3.9       | 3.4       | 0.0       | 9.2       | 8.1       | 5.6        | 7.1        | 4.7        | 5.6        | 5.9        | 3.3        | 2.6        |
| Engineering.....   | 33.3      | 34.6      | 29.4      | 39.0      | 15.2      | 29.2      | 37.1      | 26.7       | 29.3       | 17.8       | 28.6       | 26.3       | 27.4       | 24.1       |
| Biological sciences.....                                     | 8.3       | 19.2      | 7.8       | 1.7       | 8.7       | 4.6       | 6.5       | 8.9        | 11.1       | 10.3       | 11.1       | 10.8       | 11.2       | 10.6       |
| Agricultural sciences.....                                   | 0.0       | 0.0       | 3.9       | 0.0       | 0.0       | 0.0       | 1.6       | 3.3        | 2.0        | 3.7        | 3.2        | 2.2        | 1.2        | 1.1        |
| Psychology and social sciences.....                          | 12.5      | 0.0       | 2.0       | 6.8       | 6.5       | 3.1       | 12.9      | 8.9        | 12.1       | 12.2       | 4.8        | 5.4        | 7.9        | 8.7        |
| Non-sciences and Engineering: percent.....                   | 4.0       | 7.1       | 7.3       | 11.9      | 19.3      | 5.8       | 13.9      | 15.1       | 14.7       | 13.7       | 14.9       | 14.3       | 7.7        | 12.7       |
| Humanities.....  | 100.0     | 50.0      | 25.0      | 75.0      | 81.8      | 100.0     | 70.0      | 50.0       | 76.5       | 88.2       | 59.1       | 71.0       | 70.0       | 56.4       |
| Education.....   | 0.0       | 0.0       | 25.0      | 25.0      | 9.1       | 0.0       | 10.0      | 18.8       | 5.9        | 5.9        | 9.1        | 9.7        | 5.0        | 10.9       |
| Health sciences.....   | 0.0       | 0.0       | 0.0       | 0.0       | 9.1       | 0.0       | 0.0       | 6.3        | 5.9        | 0.0        | 4.5        | 6.5        | 0.0        | 5.5        |
| Professional and other fields.....                           | 0.0       | 50.0      | 50.0      | 0.0       | 0.0       | 0.0       | 20.0      | 25.0       | 11.8       | 5.9        | 27.3       | 12.9       | 25.0       | 27.3       |
| <b>Planned location after Ph.D.<sup>3</sup></b>              |           |           |           |           |           |           |           |            |            |            |            |            |            |            |
| Number with permanent visas.....                             | 9         | 5         | 7         | 17        | 9         | 8         | 16        | 19         | 16         | 20         | 24         | 42         | 52         | 80         |
| U. S. total: percent.....                                    | 100.0     | 100.0     | 85.7      | 58.8      | 55.6      | 50.0      | 62.5      | 52.6       | 81.3       | 85.0       | 100.0      | 95.2       | 88.5       | 90.0       |
| Study.....   | 55.6      | 80.0      | 50.0      | 30.0      | 80.0      | 50.0      | 40.0      | 70.0       | 46.2       | 52.9       | 58.3       | 45.0       | 34.8       | 47.2       |
| Employment.....  | 44.4      | 20.0      | 50.0      | 70.0      | 20.0      | 50.0      | 60.0      | 30.0       | 53.8       | 41.2       | 41.7       | 47.5       | 63.0       | 48.6       |
| Unknown.....   | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0        | 0.0        | 5.9        | 0.0        | 7.5        | 2.2        | 4.2        |
| Non-U.S.....   | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 12.5      | 6.3       | 5.3        | 6.3        | 10.0       | 0.0        | 4.8        | 5.8        | 7.5        |
| Unknown location.....  | 0.0       | 0.0       | 14.3      | 41.2      | 44.4      | 37.5      | 31.3      | 42.1       | 12.5       | 5.0        | 0.0        | 0.0        | 5.8        | 2.5        |

See explanatory information, if any, and SOURCE at end of table.

Table B-17. Statistical profile of doctorate recipients from Eastern Europe<sup>1</sup>, by year of Ph.D.: 1975, 1980, 1985-96

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| Item  | 1975      | 1980      | 1985      | 1986      | 1987      | 1988      | 1989      | 1990      | 1991      | 1992      | 1993      | 1994       | 1995       | 1996       |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| Number with temporary visas.....  | 15        | 21        | 44        | 42        | 37        | 57        | 46        | 71        | 83        | 87        | 102       | 144        | 189        | 298        |
| U. S. total: percent.....   | 20.0      | 33.3      | 61.4      | 64.3      | 56.8      | 52.6      | 50.0      | 53.5      | 62.7      | 75.9      | 71.6      | 70.8       | 72.0       | 75.5       |
| Study.....  | 100.0     | 57.1      | 66.7      | 63.0      | 76.2      | 43.3      | 73.9      | 60.5      | 50.0      | 48.5      | 64.4      | 61.8       | 53.7       | 64.0       |
| Employment.....   | 0.0       | 42.9      | 33.3      | 37.0      | 23.8      | 56.7      | 26.1      | 39.5      | 50.0      | 50.0      | 34.2      | 38.2       | 44.1       | 34.2       |
| Unknown.....  | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 1.5       | 1.4       | 0.0        | 2.2        | 1.8        |
| Non-U.S.....  | 46.7      | 57.1      | 22.7      | 23.8      | 21.6      | 29.8      | 32.6      | 18.3      | 21.7      | 19.5      | 22.5      | 25.7       | 22.8       | 17.1       |
| Unknown location.....   | 33.3      | 9.5       | 15.9      | 11.9      | 21.6      | 17.5      | 17.4      | 28.2      | 15.7      | 4.6       | 5.9       | 3.5        | 5.3        | 7.4        |
| <b>Number planning location in the United States after Ph.D.<sup>2</sup>:</b> | <b>12</b> | <b>12</b> | <b>33</b> | <b>37</b> | <b>26</b> | <b>34</b> | <b>33</b> | <b>48</b> | <b>65</b> | <b>83</b> | <b>97</b> | <b>142</b> | <b>182</b> | <b>297</b> |
| Percent with definite postdoctoral study <sup>5</sup> .....                   | 50.0      | 66.7      | 48.5      | 43.2      | 69.2      | 38.2      | 54.5      | 43.8      | 33.8      | 30.1      | 45.4      | 39.4       | 33.0       | 43.4       |
| Percent with definite employment <sup>5</sup> .....                           | 33.3      | 25.0      | 33.3      | 37.8      | 23.1      | 52.9      | 33.3      | 29.2      | 33.8      | 37.3      | 20.6      | 28.9       | 30.2       | 27.6       |
| Percent seeking postdoctoral study <sup>5</sup> .....                         | 16.7      | 0.0       | 15.2      | 10.8      | 7.7       | 5.9       | 9.1       | 18.8      | 15.4      | 19.3      | 17.5      | 17.6       | 15.9       | 16.5       |
| Percent seeking employment <sup>5</sup> .....                                 | 0.0       | 8.3       | 3.0       | 8.1       | 0.0       | 2.9       | 3.0       | 8.3       | 16.9      | 10.8      | 15.5      | 12.0       | 18.7       | 10.1       |
| Percent with postdoctoral plans unknown <sup>5</sup> .....                    | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 2.4       | 1.0       | 2.1        | 2.2        | 2.4        |
| <b>Number with definite employment plans in United States after Ph.D.:</b>    | <b>4</b>  | <b>3</b>  | <b>11</b> | <b>14</b> | <b>6</b>  | <b>18</b> | <b>11</b> | <b>14</b> | <b>22</b> | <b>31</b> | <b>20</b> | <b>41</b>  | <b>55</b>  | <b>82</b>  |
| Primary work activity <sup>3</sup> : percent.....                             |           |           |           |           |           |           |           |           |           |           |           |            |            |            |
| R&D.....  | D         | D         | 54.5      | 64.3      | 83.3      | 61.1      | 72.7      | 64.3      | 59.1      | 54.8      | 55.0      | 70.7       | 61.8       | 64.6       |
| Teaching.....   | D         | D         | 36.4      | 21.4      | 16.7      | 33.3      | 9.1       | 21.4      | 22.7      | 35.5      | 30.0      | 12.2       | 21.8       | 20.7       |
| Administrative.....   | D         | D         | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0        | 0.0        | 1.2        |
| Professional services.....  | D         | D         | 0.0       | 0.0       | 0.0       | 5.6       | 0.0       | 7.1       | 0.0       | 0.0       | 0.0       | 4.9        | 7.3        | 4.9        |
| Other.....  | D         | D         | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 4.5       | 3.2       | 0.0       | 2.4        | 1.8        | 6.1        |
| Unknown.....  | D         | D         | 9.1       | 14.3      | 0.0       | 0.0       | 18.2      | 7.1       | 13.6      | 6.5       | 15.0      | 9.8        | 7.3        | 2.4        |
| Type of employer: percent <sup>3</sup>  |           |           |           |           |           |           |           |           |           |           |           |            |            |            |
| Educational institution <sup>6</sup> .....                                    | D         | D         | 81.8      | 57.1      | 66.7      | 77.8      | 81.8      | 50.0      | 59.1      | 67.7      | 65.0      | 43.9       | 50.9       | 35.4       |
| Industry/business.....  | D         | D         | 18.2      | 35.7      | 33.3      | 16.7      | 18.2      | 35.7      | 18.2      | 29.0      | 35.0      | 51.2       | 47.3       | 56.1       |
| Government.....   | D         | D         | 0.0       | 7.1       | 0.0       | 5.6       | 0.0       | 7.1       | 0.0       | 0.0       | 0.0       | 0.0        | 1.8        | 4.9        |
| Nonprofit.....  | D         | D         | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 7.1       | 9.1       | 3.2       | 0.0       | 4.9        | 0.0        | 2.4        |
| Other and unknown.....  | D         | D         | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 13.6      | 0.0       | 0.0       | 0.0        | 0.0        | 1.2        |

D = data withheld to avoid potential disclosure of confidential information.

<sup>1</sup> Includes Albania, Bulgaria, Czechoslovakia, Czech Republic, Slovakia, Hungary, Poland, Romania, U.S.S.R., Russia, Armenia, Azerbaijan, Belarus, Estonia, Georgia, Kazakhstan, Kyrgyzstan, Latvia, Moldova, Tadjikistan, Turkmenistan, Ukraine, Uzbekistan, Yugoslavia, Bosnia-Herzegovina, Croatia, Macedonia, Serbia-Montenegro, and unspecified Eastern European countries.

<sup>2</sup> This table includes all citizens of Eastern European countries who indicated a visa status (permanent or temporary visa). Those with unknown visa status are not included.

<sup>3</sup> Sciences and engineering Ph.D.s only.

<sup>4</sup> 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. "Personal" includes a recipient's own earnings, family support, and loans. Federal research assistants are aggregated with university research assistants.

<sup>5</sup> Includes only those Ph.D. recipients intending to remain in the United States after graduation.

<sup>6</sup> Includes 2-year and 4-year colleges and universities, and elementary/secondary schools.

**SOURCE:** National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*.

Table B-18. Statistical profile of doctorate recipients from France, by year of Ph.D.: 1975, 1980, 1985-96

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| Item   | 1975      | 1980      | 1985      | 1986      | 1987      | 1988      | 1989      | 1990      | 1991       | 1992       | 1993       | 1994       | 1995       | 1996       |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| <b>Total number of Ph.D.s<sup>1</sup></b> .....              | <b>67</b> | <b>32</b> | <b>46</b> | <b>50</b> | <b>69</b> | <b>78</b> | <b>70</b> | <b>94</b> | <b>107</b> | <b>116</b> | <b>136</b> | <b>132</b> | <b>117</b> | <b>101</b> |
| Percent men.....   | 76.1      | 68.8      | 65.2      | 62.0      | 59.4      | 62.8      | 60.0      | 58.5      | 61.7       | 62.1       | 66.9       | 60.6       | 67.5       | 60.4       |
| Percent women.....   | 23.9      | 31.3      | 34.8      | 38.0      | 40.6      | 37.2      | 40.0      | 41.5      | 38.3       | 37.9       | 33.1       | 39.4       | 32.5       | 39.6       |
| Percent with permanent visa.....                             | 23.9      | 37.5      | 41.3      | 22.0      | 39.1      | 26.9      | 38.6      | 30.9      | 31.8       | 25.9       | 31.6       | 26.5       | 23.1       | 34.7       |
| Percent with temporary visa.....                             | 76.1      | 62.5      | 58.7      | 78.0      | 60.9      | 73.1      | 61.4      | 69.1      | 68.2       | 74.1       | 68.4       | 73.5       | 76.9       | 65.3       |
| Percent married.....   | 68.7      | 78.1      | 58.7      | 38.0      | 47.8      | 52.6      | 47.1      | 39.4      | 47.7       | 36.2       | 41.2       | 43.2       | 38.5       | 39.6       |
| Percent not married.....                                     | 31.3      | 21.9      | 39.1      | 56.0      | 49.3      | 43.6      | 48.6      | 53.2      | 43.9       | 56.0       | 57.4       | 53.0       | 56.4       | 58.4       |
| Percent unknown.....   | 0.0       | 0.0       | 2.2       | 6.0       | 2.9       | 3.8       | 4.3       | 7.4       | 8.4        | 7.8        | 1.5        | 3.8        | 5.1        | 2.0        |
| Median age at Ph.D. in years <sup>2</sup> .....              | 28.4      | 31.7      | 28.3      | 28.3      | 28.7      | 28.7      | 29.1      | 28.9      | 29.5       | 28.8       | 28.8       | 29.1       | 28.7       | 29.3       |
| Percent with dependents.....                                 | 38.8      | 56.3      | 41.3      | 24.0      | 34.8      | 37.2      | 27.1      | 28.7      | 34.6       | 23.3       | 30.1       | 26.5       | 19.7       | 24.8       |
| Percent receiving sources of support: percent <sup>2,3</sup> |           |           |           |           |           |           |           |           |            |            |            |            |            |            |
| Personal.....  | 38.6      | 37.5      | 50.0      | 55.9      | 56.3      | 56.6      | 45.1      | 60.0      | 52.2       | 46.8       | 50.5       | 56.3       | 41.0       | 70.6       |
| Foreign government.....                                      | 0.0       | 0.0       | 0.0       | 0.0       | 6.3       | 17.0      | 13.7      | 18.5      | 10.4       | 11.7       | 14.0       | 10.4       | 9.6        | 14.7       |
| University.....  | 86.4      | 100.0     | 82.1      | 88.2      | 87.5      | 90.6      | 88.2      | 81.5      | 88.1       | 85.7       | 92.5       | 87.5       | 90.4       | 89.7       |
| Teaching assistant.....                                      | 61.4      | 43.8      | 42.9      | 47.1      | 41.7      | 52.8      | 54.9      | 50.8      | 52.2       | 50.6       | 59.1       | 49.0       | 51.8       | 52.9       |
| Research assistant.....                                      | 47.7      | 81.3      | 75.0      | 82.4      | 75.0      | 71.7      | 72.5      | 58.5      | 64.2       | 64.9       | 78.5       | 72.9       | 75.9       | 76.5       |
| Other university.....  | 29.5      | 37.5      | 7.1       | 17.6      | 20.8      | 22.6      | 27.5      | 21.5      | 17.9       | 16.9       | 12.9       | 14.6       | 18.1       | 25.0       |
| Other.....   | 56.8      | 25.0      | 35.7      | 32.4      | 14.6      | 15.1      | 15.7      | 23.1      | 16.4       | 27.3       | 20.4       | 17.7       | 18.1       | 23.5       |
| Unknown.....   | 0.0       | 0.0       | 10.7      | 2.9       | 2.1       | 5.7       | 5.9       | 6.2       | 4.5        | 5.2        | 0.0        | 2.1        | 4.8        | 2.9        |
| Median years from baccalaureate to Ph.D.                     |           |           |           |           |           |           |           |           |            |            |            |            |            |            |
| Total time: in years.....                                    | 7.0       | 9.0       | 8.2       | 6.7       | 7.4       | 7.5       | 6.7       | 6.8       | 7.8        | 8.0        | 7.5        | 7.2        | 7.5        | 7.3        |
| Registered time: in years.....                               | 5.0       | 5.4       | 6.9       | 6.0       | 5.8       | 6.3       | 5.5       | 6.1       | 5.9        | 6.7        | 6.2        | 6.8        | 6.0        | 6.5        |
| Sciences & Engineering: percent.....                         | 65.7      | 50.0      | 60.9      | 68.0      | 69.6      | 67.9      | 72.9      | 69.1      | 62.6       | 66.4       | 68.4       | 72.7       | 70.9       | 67.3       |
| Physical sciences.....                                       | 9.1       | 12.5      | 25.0      | 17.6      | 27.1      | 7.5       | 17.6      | 12.3      | 19.4       | 26.0       | 31.2       | 30.2       | 26.5       | 14.7       |
| Earth, Atmospheric, and Ocean sciences.....                  | 6.8       | 6.3       | 7.1       | 8.8       | 0.0       | 7.5       | 5.9       | 4.6       | 6.0        | 2.6        | 3.2        | 2.1        | 4.8        | 2.9        |
| Mathematics.....   | 11.4      | 6.3       | 0.0       | 5.9       | 12.5      | 11.3      | 3.9       | 10.8      | 4.5        | 3.9        | 3.2        | 2.1        | 3.6        | 0.0        |
| Computer/Information sciences.....                           | 0.0       | 0.0       | 0.0       | 2.9       | 0.0       | 3.8       | 0.0       | 6.2       | 6.0        | 10.4       | 1.1        | 3.1        | 7.2        | 2.9        |
| Engineering.....   | 34.1      | 37.5      | 39.3      | 38.2      | 33.3      | 41.5      | 35.3      | 41.5      | 28.4       | 32.5       | 34.4       | 33.3       | 28.9       | 36.8       |
| Biological sciences.....                                     | 2.3       | 0.0       | 7.1       | 5.9       | 6.3       | 7.5       | 19.6      | 6.2       | 17.9       | 7.8        | 10.8       | 11.5       | 12.0       | 14.7       |
| Agricultural sciences.....                                   | 0.0       | 0.0       | 7.1       | 5.9       | 0.0       | 1.9       | 3.9       | 1.5       | 1.5        | 1.3        | 3.2        | 6.3        | 2.4        | 11.8       |
| Psychology and social sciences.....                          | 36.4      | 37.5      | 14.3      | 14.7      | 20.8      | 18.9      | 13.7      | 16.9      | 16.4       | 15.6       | 12.9       | 11.5       | 14.5       | 16.2       |
| Non-sciences and Engineering: percent.....                   | 34.3      | 50.0      | 39.1      | 32.0      | 30.4      | 32.1      | 27.1      | 30.9      | 37.4       | 33.6       | 31.6       | 27.3       | 29.1       | 32.7       |
| Humanities.....  | 60.9      | 50.0      | 72.2      | 75.0      | 90.5      | 68.0      | 100.0     | 79.3      | 75.0       | 71.8       | 76.7       | 86.1       | 85.3       | 93.9       |
| Education.....   | 0.0       | 12.5      | 5.6       | 0.0       | 0.0       | 0.0       | 0.0       | 6.9       | 5.0        | 12.8       | 4.7        | 8.3        | 5.9        | 0.0        |
| Health sciences.....   | 0.0       | 0.0       | 11.1      | 12.5      | 4.8       | 4.0       | 0.0       | 6.9       | 5.0        | 5.1        | 9.3        | 2.8        | 2.9        | 3.0        |
| Professional and other fields.....                           | 39.1      | 37.5      | 11.1      | 12.5      | 4.8       | 28.0      | 0.0       | 6.9       | 15.0       | 10.3       | 9.3        | 2.8        | 5.9        | 3.0        |
| <b>Planned location after Ph.D.<sup>2</sup></b>              |           |           |           |           |           |           |           |           |            |            |            |            |            |            |
| Number with permanent visas:                                 |           |           |           |           |           |           |           |           |            |            |            |            |            |            |
| U. S. total: percent.....                                    | D         | D         | 57.1      | 50.0      | 45.5      | 72.7      | 50.0      | 66.7      | 83.3       | 80.0       | 47.4       | 87.5       | 73.3       | 81.3       |
| Study.....   | D         | D         | 25.0      | 33.3      | 20.0      | 37.5      | 57.1      | 50.0      | 30.0       | 37.5       | 44.4       | 28.6       | 54.5       | 23.1       |
| Employment.....  | D         | D         | 75.0      | 66.7      | 80.0      | 62.5      | 42.9      | 50.0      | 70.0       | 62.5       | 55.6       | 71.4       | 45.5       | 76.9       |
| Unknown.....   | D         | D         | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        |
| Non-U.S.....   | D         | D         | 14.3      | 0.0       | 0.0       | 9.1       | 14.3      | 20.0      | 16.7       | 10.0       | 47.4       | 12.5       | 20.0       | 18.8       |
| Unknown location.....  | D         | D         | 28.6      | 50.0      | 54.5      | 18.2      | 35.7      | 13.3      | 0.0        | 10.0       | 5.3        | 0.0        | 6.7        | 0.0        |

See explanatory information, if any, and SOURCE at end of table.

Table B-18. Statistical profile of doctorate recipients from France, by year of Ph.D.: 1975, 1980, 1985-96

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| Item   | 1975     | 1980     | 1985      | 1986      | 1987      | 1988      | 1989      | 1990      | 1991      | 1992      | 1993      | 1994      | 1995      | 1996      |
|--|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>Number with</b>   |          |          |           |           |           |           |           |           |           |           |           |           |           |           |
| temporary visas.....   | 39       | 11       | 21        | 28        | 37        | 42        | 37        | 50        | 55        | 67        | 74        | 80        | 68        | 52        |
| U. S. total: Percent.....  | 10.3     | 36.4     | 28.6      | 35.7      | 40.5      | 31.0      | 37.8      | 30.0      | 32.7      | 34.3      | 27.0      | 46.3      | 39.7      | 34.6      |
| Study.....   | 75.0     | 0.0      | 83.3      | 40.0      | 26.7      | 38.5      | 64.3      | 40.0      | 55.6      | 39.1      | 50.0      | 43.2      | 66.7      | 50.0      |
| Employment.....  | 25.0     | 100.0    | 16.7      | 60.0      | 66.7      | 61.5      | 35.7      | 60.0      | 44.4      | 60.9      | 45.0      | 54.1      | 29.6      | 44.4      |
| Unknown.....   | 0.0      | 0.0      | 0.0       | 0.0       | 6.7       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 5.0       | 2.7       | 3.7       | 5.6       |
| Non-U.S.....   | 61.5     | 54.5     | 28.6      | 25.0      | 16.2      | 19.0      | 27.0      | 44.0      | 52.7      | 53.7      | 68.9      | 51.3      | 50.0      | 61.5      |
| Unknown location.....  | 28.2     | 9.1      | 42.9      | 39.3      | 43.2      | 50.0      | 35.1      | 26.0      | 14.5      | 11.9      | 4.1       | 2.5       | 10.3      | 3.8       |
| <b>Number planning location</b>  |          |          |           |           |           |           |           |           |           |           |           |           |           |           |
| <b>in the United States</b>  |          |          |           |           |           |           |           |           |           |           |           |           |           |           |
| <b>after Ph.D.<sup>2</sup>:</b>  | <b>8</b> | <b>9</b> | <b>10</b> | <b>13</b> | <b>20</b> | <b>21</b> | <b>21</b> | <b>25</b> | <b>28</b> | <b>31</b> | <b>29</b> | <b>51</b> | <b>38</b> | <b>31</b> |
| Percent with definite postdoctoral study <sup>4</sup> .....                | 25.0     | 11.1     | 60.0      | 23.1      | 25.0      | 23.8      | 47.6      | 28.0      | 28.6      | 22.6      | 37.9      | 21.6      | 42.1      | 32.3      |
| Percent with definite employment <sup>4</sup> .....                        | 50.0     | 88.9     | 40.0      | 53.8      | 60.0      | 52.4      | 28.6      | 36.0      | 46.4      | 41.9      | 20.7      | 37.3      | 18.4      | 38.7      |
| Percent seeking postdoctoral study <sup>4</sup> .....                      | 25.0     | 0.0      | 0.0       | 15.4      | 0.0       | 14.3      | 14.3      | 16.0      | 17.9      | 16.1      | 10.3      | 17.6      | 21.1      | 6.5       |
| Percent seeking employment <sup>4</sup> .....                              | 0.0      | 0.0      | 0.0       | 7.7       | 10.0      | 9.5       | 9.5       | 20.0      | 7.1       | 19.4      | 27.6      | 21.6      | 15.8      | 19.4      |
| Percent with postdoctoral plans unknown <sup>4</sup> .....                 | 0.0      | 0.0      | 0.0       | 0.0       | 5.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 3.4       | 2.0       | 2.6       | 3.2       |
| <b>Number with definite employment plans in United States after Ph.D.:</b> | <b>4</b> | <b>8</b> | <b>4</b>  | <b>7</b>  | <b>12</b> | <b>11</b> | <b>6</b>  | <b>9</b>  | <b>13</b> | <b>13</b> | <b>6</b>  | <b>19</b> | <b>7</b>  | <b>12</b> |
| Primary work activity <sup>2</sup> : percent.....                          |          |          |           |           |           |           |           |           |           |           |           |           |           |           |
| R&D.....   | D        | 87.5     | D         | 28.6      | 58.3      | 63.6      | 66.7      | 44.4      | 69.2      | 61.5      | 50.0      | 63.2      | 85.7      | 66.7      |
| Teaching.....  | D        | 0.0      | D         | 57.1      | 8.3       | 36.4      | 16.7      | 33.3      | 7.7       | 38.5      | 16.7      | 26.3      | 14.3      | 16.7      |
| Administrative.....  | D        | 0.0      | D         | 0.0       | 8.3       | 0.0       | 16.7      | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       |
| Professional services.....   | D        | 0.0      | D         | 14.3      | 8.3       | 0.0       | 0.0       | 11.1      | 7.7       | 0.0       | 33.3      | 5.3       | 0.0       | 8.3       |
| Other.....   | D        | 0.0      | D         | 0.0       | 16.7      | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 8.3       |
| Unknown.....   | D        | 12.5     | D         | 0.0       | 0.0       | 0.0       | 0.0       | 11.1      | 15.4      | 0.0       | 0.0       | 5.3       | 0.0       | 0.0       |
| Type of employer: percent <sup>2</sup>                                     |          |          |           |           |           |           |           |           |           |           |           |           |           |           |
| Educational institution <sup>5</sup> .....                                 | D        | 25.0     | D         | 85.7      | 25.0      | 90.9      | 66.7      | 33.3      | 23.1      | 46.2      | 33.3      | 42.1      | 14.3      | 25.0      |
| Industry/business.....   | D        | 75.0     | D         | 14.3      | 50.0      | 9.1       | 16.7      | 55.6      | 46.2      | 46.2      | 50.0      | 52.6      | 57.1      | 66.7      |
| Government.....  | D        | 0.0      | D         | 0.0       | 8.3       | 0.0       | 16.7      | 11.1      | 0.0       | 7.7       | 16.7      | 0.0       | 28.6      | 8.3       |
| Nonprofit.....   | D        | 0.0      | D         | 0.0       | 8.3       | 0.0       | 0.0       | 0.0       | 7.7       | 0.0       | 0.0       | 5.3       | 0.0       | 0.0       |
| Other and unknown.....   | D        | 0.0      | D         | 0.0       | 8.3       | 0.0       | 0.0       | 0.0       | 23.1      | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       |

D = data withheld to avoid potential disclosure of confidential information.

<sup>1</sup> This table includes all citizens of Eastern European countries who indicated a visa status (permanent or temporary visa). Those with unknown visa status are not included.<sup>2</sup> Sciences and engineering Ph.D.s only.<sup>3</sup> 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. "Personal" includes a recipient's own earnings, family support, and loans. Federal research assistants are aggregated with university research assistants.<sup>4</sup> Includes only those Ph.D. recipients intending to remain in the United States after graduation.<sup>5</sup> Includes 2-year and 4-year colleges and universities, and elementary/secondary schools.SOURCE: National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*.



Table B-19. Statistical profile of doctorate recipients from Germany<sup>1</sup>, by year of Ph.D.: 1975, 1980, 1985-96

| Item   | 1975      | 1980      | 1985      | 1986      | 1987       | 1988       | 1989       | 1990       | 1991       | 1992       | 1993       | 1994       | 1995       | 1996       |
|--|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>Total number of Ph.D.s<sup>2</sup></b> .....              | <b>74</b> | <b>51</b> | <b>80</b> | <b>94</b> | <b>109</b> | <b>109</b> | <b>139</b> | <b>169</b> | <b>181</b> | <b>189</b> | <b>250</b> | <b>257</b> | <b>306</b> | <b>245</b> |
| Percent men.....   | 68.9      | 54.9      | 50.0      | 67.0      | 62.4       | 66.1       | 66.9       | 68.0       | 67.4       | 63.0       | 66.4       | 65.8       | 65.0       | 63.3       |
| Percent women.....   | 31.1      | 45.1      | 50.0      | 33.0      | 37.6       | 33.9       | 33.1       | 32.0       | 32.6       | 37.0       | 33.6       | 34.2       | 35.0       | 36.7       |
| Percent with permanent visa.....                             | 43.2      | 54.9      | 45.0      | 41.5      | 40.4       | 36.7       | 30.9       | 38.5       | 29.8       | 34.4       | 34.4       | 33.5       | 31.4       | 31.4       |
| Percent with temporary visa.....                             | 56.8      | 45.1      | 55.0      | 58.5      | 59.6       | 63.3       | 69.1       | 61.5       | 70.2       | 65.6       | 65.6       | 66.5       | 68.6       | 68.6       |
| Percent married.....   | 62.2      | 54.9      | 48.8      | 51.1      | 45.9       | 44.0       | 37.4       | 46.7       | 39.8       | 40.2       | 39.2       | 38.1       | 37.6       | 35.1       |
| Percent not married.....                                     | 36.5      | 45.1      | 47.5      | 43.6      | 45.9       | 53.2       | 61.9       | 47.3       | 53.6       | 52.9       | 54.0       | 56.8       | 55.9       | 58.4       |
| Percent unknown.....   | 1.4       | 0.0       | 3.8       | 5.3       | 8.3        | 2.8        | 0.7        | 5.9        | 6.6        | 6.9        | 6.8        | 5.1        | 6.5        | 6.5        |
| Median age at Ph.D. in years <sup>3</sup> .....              | 31.6      | 31.3      | 30.5      | 30.3      | 30.2       | 30.3       | 30.6       | 30.3       | 30.3       | 31.0       | 30.8       | 31.0       | 30.7       | 31.5       |
| Percent with dependents.....                                 | 28.4      | 31.4      | 26.3      | 27.7      | 27.5       | 24.8       | 18.7       | 27.2       | 21.0       | 22.8       | 25.6       | 21.4       | 19.3       | 22.9       |
| Percent receiving sources of support: percent <sup>3,4</sup> |           |           |           |           |            |            |            |            |            |            |            |            |            |            |
| Personal.....  | 39.0      | 70.4      | 71.4      | 58.1      | 60.8       | 61.5       | 67.6       | 54.5       | 55.9       | 62.9       | 63.4       | 54.6       | 57.7       | 68.8       |
| Foreign government.....                                      | 0.0       | 0.0       | 0.0       | 0.0       | 8.1        | 16.7       | 13.7       | 11.4       | 15.3       | 11.3       | 20.7       | 12.8       | 12.5       | 11.2       |
| University.....  | 82.9      | 85.2      | 95.9      | 88.7      | 81.1       | 96.2       | 95.1       | 91.9       | 86.4       | 92.7       | 95.1       | 91.3       | 94.2       | 95.3       |
| Teaching assistant.....                                      | 53.7      | 44.4      | 59.2      | 48.4      | 62.2       | 62.8       | 66.7       | 58.5       | 52.5       | 54.8       | 59.8       | 62.8       | 53.4       | 66.5       |
| Research assistant.....                                      | 56.1      | 48.1      | 61.2      | 72.6      | 59.5       | 74.4       | 71.6       | 68.3       | 65.3       | 71.8       | 75.0       | 66.8       | 73.1       | 75.9       |
| Other university.....  | 48.8      | 18.5      | 36.7      | 22.6      | 24.3       | 25.6       | 33.3       | 26.8       | 20.3       | 23.4       | 24.4       | 19.9       | 21.6       | 42.9       |
| Other.....   | 39.0      | 37.0      | 18.4      | 27.4      | 18.9       | 23.1       | 17.6       | 16.3       | 20.3       | 23.4       | 22.0       | 21.4       | 15.9       | 23.5       |
| Unknown.....   | 4.9       | 0.0       | 2.0       | 1.6       | 6.8        | 0.0        | 1.0        | 4.9        | 4.2        | 4.0        | 1.8        | 4.1        | 2.9        | 3.5        |
| Median years from baccalaureate to Ph.D.                     |           |           |           |           |            |            |            |            |            |            |            |            |            |            |
| Total time: in years.....                                    | 8.8       | 7.9       | 7.1       | 6.9       | 7.3        | 6.6        | 6.5        | 7.0        | 7.0        | 7.6        | 7.1        | 7.1        | 7.2        | 7.6        |
| Registered time: in years.....                               | 5.2       | 6.0       | 6.0       | 6.0       | 6.0        | 5.8        | 5.9        | 6.7        | 6.0        | 6.8        | 6.4        | 6.5        | 6.4        | 6.6        |
| Sciences & Engineering: percent.....                         | 55.4      | 52.9      | 61.3      | 66.0      | 67.9       | 71.6       | 73.4       | 72.8       | 65.2       | 65.6       | 65.6       | 76.3       | 68.0       | 69.4       |
| Physical Sciences.....                                       | 9.8       | 18.5      | 8.2       | 25.8      | 29.7       | 21.8       | 23.5       | 26.0       | 29.7       | 24.2       | 20.7       | 19.9       | 20.7       | 19.4       |
| Earth, Atmospheric, and Ocean sciences.....                  | 2.4       | 0.0       | 4.1       | 3.2       | 4.1        | 9.0        | 7.8        | 6.5        | 0.8        | 7.3        | 3.7        | 5.6        | 4.8        | 5.3        |
| Mathematics.....   | 12.2      | 3.7       | 12.2      | 11.3      | 16.2       | 11.5       | 11.8       | 11.4       | 5.1        | 8.1        | 11.0       | 7.7        | 8.7        | 12.4       |
| Computer/Information sciences.....                           | 0.0       | 11.1      | 2.0       | 4.8       | 2.7        | 7.7        | 3.9        | 4.1        | 10.2       | 7.3        | 4.9        | 4.1        | 7.7        | 4.7        |
| Engineering.....   | 17.1      | 18.5      | 14.3      | 16.1      | 9.5        | 14.1       | 16.7       | 12.2       | 6.8        | 14.5       | 14.0       | 14.8       | 17.8       | 9.4        |
| Biological sciences.....                                     | 14.6      | 22.2      | 24.5      | 14.5      | 9.5        | 12.8       | 9.8        | 12.2       | 21.2       | 12.1       | 18.9       | 19.9       | 17.3       | 22.9       |
| Agricultural sciences.....                                   | 2.4       | 0.0       | 0.0       | 3.2       | 1.4        | 0.0        | 2.0        | 1.6        | 2.5        | 4.0        | 1.8        | 1.5        | 2.9        | 1.8        |
| Psychology and social sciences.....                          | 41.5      | 25.9      | 34.7      | 21.0      | 27.0       | 23.1       | 24.5       | 26.0       | 23.7       | 22.6       | 25.0       | 26.5       | 20.2       | 24.1       |
| Non-sciences and Engineering: percent.....                   | 44.6      | 47.1      | 38.8      | 34.0      | 32.1       | 28.4       | 26.6       | 27.2       | 34.8       | 34.4       | 34.4       | 23.7       | 32.0       | 30.6       |
| Humanities.....  | 57.6      | 62.5      | 61.3      | 75.0      | 82.9       | 77.4       | 83.8       | 80.4       | 74.6       | 80.0       | 80.2       | 80.3       | 75.5       | 60.0       |
| Education.....   | 18.2      | 16.7      | 22.6      | 9.4       | 2.9        | 9.7        | 8.1        | 6.5        | 11.1       | 3.1        | 7.0        | 8.2        | 5.1        | 14.7       |
| Health sciences.....   | 3.0       | 4.2       | 0.0       | 0.0       | 2.9        | 3.2        | 2.7        | 0.0        | 4.8        | 1.5        | 2.3        | 4.9        | 6.1        | 9.3        |
| Professional and other fields.....                           | 21.2      | 16.7      | 16.1      | 15.6      | 11.4       | 9.7        | 5.4        | 13.0       | 9.5        | 15.4       | 10.5       | 6.6        | 13.3       | 16.0       |
| <b>Planned location after Ph.D.<sup>3</sup></b>              |           |           |           |           |            |            |            |            |            |            |            |            |            |            |
| Number with permanent visas:.....                            | 12        | 11        | 19        | 22        | 29         | 22         | 24         | 38         | 25         | 39         | 45         | 62         | 53         | 51         |
| U. S. total: percent.....                                    | 58.3      | 36.4      | 63.2      | 63.6      | 58.6       | 54.5       | 62.5       | 81.6       | 80.0       | 82.1       | 80.0       | 82.3       | 86.8       | 82.4       |
| Study.....   | 28.6      | 25.0      | 58.3      | 64.3      | 47.1       | 58.3       | 26.7       | 32.3       | 25.0       | 31.3       | 36.1       | 39.2       | 50.0       | 45.2       |
| Employment.....  | 71.4      | 75.0      | 41.7      | 35.7      | 52.9       | 41.7       | 73.3       | 67.7       | 75.0       | 65.6       | 58.3       | 60.8       | 47.8       | 50.0       |
| Unknown.....   | 0.0       | 0.0       | 0.0       | 0.0       | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 3.1        | 5.6        | 0.0        | 2.2        | 4.8        |
| Non-U.S.....   | 8.3       | 18.2      | 5.3       | 4.5       | 20.7       | 4.5        | 4.2        | 7.9        | 4.0        | 17.9       | 20.0       | 16.1       | 13.2       | 13.7       |
| Unknown location.....  | 33.3      | 45.5      | 31.6      | 31.8      | 20.7       | 40.9       | 33.3       | 10.5       | 16.0       | 0.0        | 0.0        | 1.6        | 0.0        | 3.9        |

See explanatory information, if any, and SOURCE at end of table.

Table B-19. Statistical profile of doctorate recipients from Germany<sup>1</sup>, by year of Ph.D.: 1975, 1980, 1985-96

Page 2 of 2

| Item  | 1975      | 1980      | 1985      | 1986      | 1987      | 1988      | 1989      | 1990      | 1991      | 1992      | 1993      | 1994       | 1995       | 1996       |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| Number with temporary visas:.....   | 29        | 16        | 30        | 40        | 45        | 56        | 78        | 85        | 93        | 85        | 119       | 134        | 155        | 119        |
| U. S. total: percent.....   | 37.9      | 43.8      | 43.3      | 35.0      | 46.7      | 41.1      | 43.6      | 32.9      | 50.5      | 41.2      | 42.0      | 54.5       | 50.3       | 51.3       |
| Study.....  | 27.3      | 57.1      | 61.5      | 50.0      | 52.4      | 65.2      | 58.8      | 50.0      | 61.7      | 60.0      | 52.0      | 61.6       | 57.7       | 62.3       |
| Employment.....   | 72.7      | 42.9      | 38.5      | 50.0      | 47.6      | 34.8      | 41.2      | 50.0      | 38.3      | 37.1      | 48.0      | 35.6       | 41.0       | 34.4       |
| Unknown.....  | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 2.9       | 0.0       | 2.7        | 1.3        | 3.3        |
| Non-U.S.....  | 41.4      | 18.8      | 20.0      | 32.5      | 24.4      | 28.6      | 34.6      | 42.4      | 37.6      | 51.8      | 55.5      | 40.3       | 44.5       | 43.7       |
| Unknown location.....   | 20.7      | 37.5      | 36.7      | 32.5      | 28.9      | 30.4      | 21.8      | 24.7      | 11.8      | 7.1       | 2.5       | 5.2        | 5.2        | 5.0        |
| <b>Number planning location in the United States after Ph.D.<sup>2</sup>:</b> | <b>18</b> | <b>11</b> | <b>25</b> | <b>28</b> | <b>38</b> | <b>35</b> | <b>49</b> | <b>59</b> | <b>67</b> | <b>67</b> | <b>86</b> | <b>124</b> | <b>124</b> | <b>103</b> |
| Percent with definite postdoctoral study <sup>5</sup> .....                   | 22.2      | 36.4      | 48.0      | 46.4      | 50.0      | 45.7      | 44.9      | 28.8      | 44.8      | 35.8      | 33.7      | 41.1       | 39.5       | 45.6       |
| Percent with definite employment <sup>5</sup> .....                           | 61.1      | 45.5      | 40.0      | 32.1      | 42.1      | 34.3      | 49.0      | 49.2      | 31.3      | 29.9      | 30.2      | 33.9       | 26.6       | 27.2       |
| Percent seeking postdoctoral study <sup>5</sup> .....                         | 5.6       | 9.1       | 12.0      | 10.7      | 0.0       | 17.1      | 4.1       | 11.9      | 6.0       | 10.4      | 11.6      | 11.3       | 15.3       | 9.7        |
| Percent seeking employment <sup>5</sup> .....                                 | 11.1      | 9.1       | 0.0       | 10.7      | 7.9       | 2.9       | 2.0       | 10.2      | 17.9      | 20.9      | 22.1      | 12.1       | 16.9       | 13.6       |
| Percent with postdoctoral plans unknown <sup>5</sup> .....                    | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 3.0       | 2.3       | 1.6        | 1.6        | 3.9        |
| <b>Number with definite employment plans in United States after Ph.D.:</b>    | <b>11</b> | <b>5</b>  | <b>10</b> | <b>9</b>  | <b>16</b> | <b>12</b> | <b>24</b> | <b>29</b> | <b>21</b> | <b>20</b> | <b>26</b> | <b>42</b>  | <b>33</b>  | <b>28</b>  |
| Primary work activity <sup>3</sup> : percent.....                             |           |           |           |           |           |           |           |           |           |           |           |            |            |            |
| R&D.....  | 72.7      | D         | 60.0      | 55.6      | 31.3      | 41.7      | 50.0      | 44.8      | 61.9      | 50.0      | 61.5      | 54.8       | 60.6       | 64.3       |
| Teaching.....   | 0.0       | D         | 30.0      | 33.3      | 25.0      | 41.7      | 33.3      | 34.5      | 9.5       | 35.0      | 26.9      | 26.2       | 27.3       | 17.9       |
| Administrative.....   | 0.0       | D         | 0.0       | 0.0       | 12.5      | 0.0       | 8.3       | 3.4       | 4.8       | 0.0       | 0.0       | 0.0        | 0.0        | 0.0        |
| Professional services.....  | 0.0       | D         | 0.0       | 11.1      | 6.3       | 16.7      | 8.3       | 6.9       | 4.8       | 0.0       | 0.0       | 14.3       | 6.1        | 10.7       |
| Other.....  | 9.1       | D         | 0.0       | 0.0       | 6.3       | 0.0       | 0.0       | 0.0       | 0.0       | 5.0       | 3.8       | 2.4        | 3.0        | 3.6        |
| Unknown.....  | 18.2      | D         | 10.0      | 0.0       | 18.8      | 0.0       | 0.0       | 10.3      | 19.0      | 10.0      | 7.7       | 2.4        | 3.0        | 3.6        |
| Type of employer: percent <sup>3</sup>  |           |           |           |           |           |           |           |           |           |           |           |            |            |            |
| Educational institution <sup>6</sup> .....                                    | 27.3      | D         | 50.0      | 77.8      | 37.5      | 50.0      | 62.5      | 75.9      | 57.1      | 75.0      | 53.8      | 54.8       | 60.6       | 57.1       |
| Industry/business.....  | 54.5      | D         | 20.0      | 11.1      | 43.8      | 25.0      | 33.3      | 20.7      | 33.3      | 20.0      | 26.9      | 31.0       | 24.2       | 35.7       |
| Government.....   | 0.0       | D         | 0.0       | 11.1      | 6.3       | 8.3       | 0.0       | 3.4       | 0.0       | 5.0       | 3.8       | 4.8        | 6.1        | 3.6        |
| Nonprofit.....  | 0.0       | D         | 10.0      | 0.0       | 6.3       | 16.7      | 0.0       | 0.0       | 9.5       | 0.0       | 3.8       | 2.4        | 3.0        | 0.0        |
| Other and unknown.....  | 18.2      | D         | 20.0      | 0.0       | 6.3       | 0.0       | 4.2       | 0.0       | 0.0       | 0.0       | 11.5      | 7.1        | 6.1        | 3.6        |

D = data withheld to avoid potential disclosure of confidential information.

<sup>1</sup> Includes East Germany, West Germany, and the united Germany.<sup>2</sup> This table includes all citizens of Germany who indicated a visa status (permanent or temporary visa). Those with unknown visa status are not included.<sup>3</sup> Sciences and engineering Ph.D.s only.<sup>4</sup> 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. "Personal" includes a recipient's own earnings, family support, and loans. Federal research assistants are aggregated with university research assistants.<sup>5</sup> Includes only those Ph.D. recipients intending to remain in the United States after graduation.<sup>6</sup> Includes 2-year and 4-year colleges and universities, and elementary/secondary schools.**SOURCE:** National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*.



Table B-20. Statistical profile of doctorate recipients from Greece, by year of Ph.D.: 1975, 1980, 1985-96

Page 1 of 2

| Item   | 1975      | 1980      | 1985      | 1986       | 1987       | 1988       | 1989       | 1990       | 1991       | 1992       | 1993       | 1994       | 1995       | 1996       |
|--|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>Total number of Ph.D.s<sup>1</sup></b> .....              | <b>60</b> | <b>72</b> | <b>80</b> | <b>111</b> | <b>130</b> | <b>130</b> | <b>146</b> | <b>137</b> | <b>185</b> | <b>168</b> | <b>199</b> | <b>188</b> | <b>197</b> | <b>149</b> |
| Percent men.....   | 91.7      | 81.9      | 90.0      | 89.2       | 89.2       | 82.3       | 82.2       | 83.2       | 81.6       | 78.6       | 80.4       | 78.7       | 76.7       | 78.5       |
| Percent women.....   | 8.3       | 18.1      | 10.0      | 10.8       | 10.8       | 17.7       | 17.8       | 16.8       | 18.4       | 21.4       | 19.6       | 21.3       | 23.4       | 21.5       |
| Percent with permanent visa.....                             | 38.3      | 20.8      | 31.3      | 25.2       | 24.6       | 20.0       | 19.2       | 20.4       | 17.8       | 11.9       | 17.6       | 12.8       | 15.2       | 18.1       |
| Percent with temporary visa.....                             | 61.7      | 79.2      | 68.8      | 74.8       | 75.4       | 80.0       | 80.8       | 79.6       | 82.2       | 88.1       | 82.4       | 87.2       | 84.8       | 81.9       |
| Percent married.....   | 61.7      | 36.1      | 48.8      | 42.3       | 43.1       | 44.6       | 39.7       | 35.8       | 40.0       | 34.5       | 39.7       | 34.6       | 28.4       | 28.2       |
| Percent not married.....                                     | 36.7      | 62.5      | 51.3      | 54.1       | 53.1       | 53.8       | 57.5       | 57.7       | 49.2       | 61.3       | 55.8       | 60.1       | 61.9       | 63.1       |
| Percent unknown.....   | 1.7       | 1.4       | 0.0       | 3.6        | 3.8        | 1.5        | 2.7        | 6.6        | 10.8       | 4.2        | 4.5        | 5.3        | 9.6        | 8.7        |
| Median age at Ph.D. in years <sup>2</sup> .....              | 31.0      | 29.8      | 29.6      | 28.7       | 29.2       | 29.3       | 29.4       | 29.8       | 29.9       | 29.5       | 29.4       | 29.7       | 29.7       | 29.2       |
| Percent with dependents.....                                 | 45.0      | 27.8      | 36.3      | 27.0       | 30.0       | 32.3       | 22.6       | 22.6       | 24.3       | 19.6       | 18.6       | 18.1       | 11.7       | 13.4       |
| Percent receiving sources of support: percent <sup>2,3</sup> |           |           |           |            |            |            |            |            |            |            |            |            |            |            |
| Personal.....  | 41.2      | 34.9      | 53.6      | 57.3       | 56.9       | 45.8       | 60.6       | 59.2       | 55.0       | 53.0       | 47.1       | 48.5       | 56.9       | 60.0       |
| Foreign government.....                                      | 0.0       | 0.0       | 0.0       | 0.0        | 0.8        | 4.2        | 1.5        | 4.0        | 1.2        | 2.0        | 4.0        | 3.0        | 2.3        | 3.8        |
| University.....  | 88.2      | 88.9      | 95.7      | 96.1       | 96.7       | 97.5       | 97.8       | 93.6       | 91.7       | 98.7       | 96.6       | 94.0       | 96.6       | 95.4       |
| Teaching assistant.....                                      | 66.7      | 55.6      | 58.0      | 60.2       | 65.0       | 58.5       | 67.2       | 60.8       | 63.9       | 73.2       | 59.8       | 56.9       | 70.7       | 69.2       |
| Research assistant.....                                      | 62.7      | 65.1      | 72.5      | 78.6       | 80.5       | 75.4       | 80.3       | 73.6       | 71.0       | 75.8       | 77.6       | 76.0       | 79.9       | 87.7       |
| Other university.....  | 29.4      | 31.7      | 30.4      | 31.1       | 26.8       | 16.9       | 23.4       | 21.6       | 20.7       | 26.8       | 20.7       | 24.0       | 20.1       | 39.2       |
| Other.....   | 25.5      | 20.6      | 15.9      | 10.7       | 2.4        | 6.8        | 9.5        | 9.6        | 7.1        | 12.8       | 13.2       | 9.6        | 8.0        | 16.9       |
| Unknown.....   | 3.9       | 4.8       | 1.4       | 1.9        | 1.6        | 2.5        | 1.5        | 2.4        | 5.9        | 0.7        | 2.9        | 4.2        | 2.3        | 3.8        |
| Median years from baccalaureate to Ph.D.                     |           |           |           |            |            |            |            |            |            |            |            |            |            |            |
| Total time: in years.....                                    | 7.3       | 6.9       | 7.2       | 5.9        | 6.2        | 6.3        | 6.3        | 6.6        | 6.8        | 6.8        | 6.8        | 6.6        | 6.9        | 6.5        |
| Registered time: in years.....                               | 5.0       | 5.5       | 5.5       | 5.1        | 5.5        | 5.5        | 5.7        | 5.9        | 5.9        | 5.9        | 5.9        | 5.9        | 6.0        | 6.1        |
| Sciences & Engineering: percent.....                         | 85.0      | 87.5      | 86.3      | 92.8       | 94.6       | 90.8       | 93.8       | 91.2       | 91.4       | 88.7       | 87.4       | 88.8       | 88.3       | 87.2       |
| Physical Sciences.....                                       | 23.5      | 20.6      | 13.0      | 18.4       | 14.6       | 16.9       | 14.6       | 13.6       | 15.4       | 19.5       | 19.0       | 18.6       | 20.7       | 22.3       |
| Earth, Atmospheric, and Ocean sciences.....                  | 3.9       | 0.0       | 0.0       | 1.9        | 0.8        | 2.5        | 1.5        | 0.0        | 1.2        | 0.7        | 3.4        | 3.0        | 0.0        | 0.0        |
| Mathematics.....   | 3.9       | 6.3       | 11.6      | 7.8        | 8.9        | 5.9        | 9.5        | 7.2        | 7.1        | 8.7        | 7.5        | 9.0        | 7.5        | 9.2        |
| Computer/Information sciences.....                           | 0.0       | 0.0       | 2.9       | 2.9        | 4.9        | 1.7        | 1.5        | 5.6        | 8.3        | 6.0        | 4.6        | 9.0        | 11.5       | 6.9        |
| Engineering.....   | 29.4      | 34.9      | 43.5      | 47.6       | 49.6       | 49.2       | 51.1       | 45.6       | 41.4       | 39.6       | 39.1       | 34.7       | 35.1       | 34.6       |
| Biological sciences.....                                     | 7.8       | 12.7      | 7.2       | 8.7        | 4.1        | 9.3        | 6.6        | 8.0        | 7.1        | 8.7        | 8.0        | 7.8        | 8.6        | 8.5        |
| Agricultural sciences.....                                   | 9.8       | 6.3       | 2.9       | 0.0        | 2.4        | 3.4        | 0.7        | 5.6        | 1.8        | 0.7        | 1.7        | 3.0        | 1.7        | 1.5        |
| Psychology and social sciences.....                          | 21.6      | 19.0      | 18.8      | 12.6       | 14.6       | 11.0       | 14.6       | 14.4       | 17.8       | 16.1       | 16.7       | 15.0       | 14.9       | 16.9       |
| Non-sciences and Engineering: percent.....                   | 15.0      | 12.5      | 13.8      | 7.2        | 5.4        | 9.2        | 6.2        | 8.8        | 8.6        | 11.3       | 12.6       | 11.2       | 11.7       | 12.8       |
| Humanities.....  | 33.3      | 33.3      | 45.5      | 25.0       | 28.6       | 41.7       | 66.7       | 58.3       | 37.5       | 47.4       | 24.0       | 28.6       | 21.7       | 36.8       |
| Education.....   | 33.3      | 33.3      | 27.3      | 25.0       | 28.6       | 25.0       | 11.1       | 16.7       | 18.8       | 26.3       | 28.0       | 9.5        | 21.7       | 5.3        |
| Health sciences.....   | 0.0       | 0.0       | 0.0       | 0.0        | 0.0        | 8.3        | 0.0        | 0.0        | 25.0       | 5.3        | 12.0       | 9.5        | 21.7       | 21.1       |
| Professional and other fields.....                           | 33.3      | 33.3      | 27.3      | 50.0       | 42.9       | 25.0       | 22.2       | 25.0       | 18.8       | 21.1       | 36.0       | 52.4       | 34.8       | 36.8       |
| <b>Planned location after Ph.D.<sup>2</sup></b>              |           |           |           |            |            |            |            |            |            |            |            |            |            |            |
| Number with permanent visas.....                             | 17        | 12        | 22        | 24         | 30         | 21         | 25         | 24         | 29         | 14         | 30         | 18         | 21         | 22         |
| U. S. total: percent.....                                    | 47.1      | 83.3      | 63.6      | 66.7       | 73.3       | 52.4       | 72.0       | 66.7       | 82.8       | 92.9       | 80.0       | 77.8       | 85.7       | 77.3       |
| Study.....   | 50.0      | 20.0      | 7.1       | 18.8       | 40.9       | 36.4       | 33.3       | 43.8       | 29.2       | 61.5       | 37.5       | 42.9       | 44.4       | 29.4       |
| Employment.....  | 50.0      | 80.0      | 85.7      | 81.3       | 59.1       | 63.6       | 66.7       | 50.0       | 66.7       | 38.5       | 62.5       | 57.1       | 55.6       | 64.7       |
| Unknown.....   | 0.0       | 0.0       | 7.1       | 0.0        | 0.0        | 0.0        | 0.0        | 6.3        | 4.2        | 0.0        | 0.0        | 0.0        | 0.0        | 5.9        |
| Non-U.S.....   | 5.9       | 0.0       | 4.5       | 12.5       | 0.0        | 0.0        | 8.0        | 4.2        | 10.3       | 7.1        | 13.3       | 16.7       | 14.3       | 22.7       |
| Unknown location.....  | 47.1      | 16.7      | 31.8      | 20.8       | 26.7       | 47.6       | 20.0       | 29.2       | 6.9        | 0.0        | 6.7        | 5.6        | 0.0        | 0.0        |

See explanatory information, if any, and SOURCE at end of table.

| Item  | 1975      | 1980      | 1985      | 1986      | 1987      | 1988      | 1989      | 1990      | 1991      | 1992      | 1993       | 1994      | 1995      | 1996      |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|
| Number with temporary visas:  | 34        | 51        | 47        | 79        | 93        | 97        | 112       | 101       | 140       | 135       | 144        | 149       | 153       | 108       |
| U. S. total: percent  | 29.4      | 33.3      | 46.8      | 51.9      | 45.2      | 57.7      | 33.9      | 48.5      | 47.1      | 51.1      | 53.5       | 40.9      | 52.3      | 54.6      |
| Study   | 30.0      | 47.1      | 59.1      | 46.3      | 57.1      | 57.1      | 50.0      | 51.0      | 45.5      | 42.0      | 50.6       | 47.5      | 41.3      | 49.2      |
| Employment  | 70.0      | 52.9      | 36.4      | 53.7      | 42.9      | 42.9      | 47.4      | 49.0      | 53.0      | 56.5      | 46.8       | 50.8      | 57.5      | 47.5      |
| Unknown   | 0.0       | 0.0       | 4.5       | 0.0       | 0.0       | 0.0       | 2.6       | 0.0       | 1.5       | 1.4       | 2.6        | 1.6       | 1.3       | 3.4       |
| Non-U.S.  | 35.3      | 25.5      | 25.5      | 17.7      | 16.1      | 7.2       | 24.1      | 32.7      | 32.9      | 43.7      | 36.8       | 52.3      | 41.8      | 42.6      |
| Unknown location  | 35.3      | 41.2      | 27.7      | 30.4      | 38.7      | 35.1      | 42.0      | 18.8      | 20.0      | 5.2       | 9.7        | 6.7       | 5.9       | 2.8       |
| <b>Number planning location in the United States after Ph.D.<sup>2</sup>:</b> | <b>18</b> | <b>27</b> | <b>36</b> | <b>57</b> | <b>64</b> | <b>67</b> | <b>56</b> | <b>65</b> | <b>90</b> | <b>82</b> | <b>101</b> | <b>75</b> | <b>98</b> | <b>76</b> |
| Percent with definite postdoctoral study <sup>4</sup>                         | 22.2      | 29.6      | 30.6      | 28.1      | 46.9      | 40.3      | 41.1      | 35.4      | 26.7      | 29.3      | 31.7       | 34.7      | 23.5      | 32.9      |
| Percent with definite employment <sup>4</sup>                                 | 55.6      | 59.3      | 44.4      | 52.6      | 45.3      | 43.3      | 48.2      | 38.5      | 42.2      | 30.5      | 34.7       | 37.3      | 34.7      | 34.2      |
| Percent seeking postdoctoral study <sup>4</sup>                               | 16.7      | 7.4       | 8.3       | 10.5      | 4.7       | 13.4      | 3.6       | 13.8      | 14.4      | 15.9      | 15.8       | 12.0      | 18.4      | 11.8      |
| Percent seeking employment <sup>4</sup>                                       | 5.6       | 3.7       | 11.1      | 8.8       | 3.1       | 3.0       | 5.4       | 10.8      | 14.4      | 23.2      | 15.8       | 14.7      | 22.4      | 17.1      |
| Percent with postdoctoral plans unknown <sup>4</sup>                          | 0.0       | 0.0       | 5.6       | 0.0       | 0.0       | 0.0       | 1.8       | 1.5       | 2.2       | 1.2       | 2.0        | 1.3       | 1.0       | 3.9       |
| <b>Number with definite employment plans in United States after Ph.D.:</b>    | <b>10</b> | <b>16</b> | <b>16</b> | <b>30</b> | <b>29</b> | <b>29</b> | <b>27</b> | <b>25</b> | <b>38</b> | <b>25</b> | <b>35</b>  | <b>28</b> | <b>34</b> | <b>26</b> |
| Primary work activity <sup>2</sup> : percent                                  |           |           |           |           |           |           |           |           |           |           |            |           |           |           |
| R&D   | 60.0      | 50.0      | 43.8      | 53.3      | 69.0      | 34.5      | 63.0      | 60.0      | 55.3      | 64.0      | 57.1       | 50.0      | 76.5      | 53.8      |
| Teaching  | 30.0      | 43.8      | 31.3      | 36.7      | 20.7      | 44.8      | 33.3      | 12.0      | 31.6      | 28.0      | 25.7       | 25.0      | 14.7      | 26.9      |
| Administrative  | 0.0       | 0.0       | 6.3       | 0.0       | 0.0       | 0.0       | 0.0       | 4.0       | 0.0       | 0.0       | 0.0        | 0.0       | 0.0       | 3.8       |
| Professional services   | 0.0       | 6.3       | 0.0       | 3.3       | 10.3      | 3.4       | 0.0       | 4.0       | 2.6       | 4.0       | 5.7        | 10.7      | 2.9       | 11.5      |
| Other   | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 6.9       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0        | 7.1       | 0.0       | 0.0       |
| Unknown   | 10.0      | 0.0       | 18.8      | 6.7       | 0.0       | 10.3      | 3.7       | 20.0      | 10.5      | 4.0       | 11.4       | 7.1       | 5.9       | 3.8       |
| Type of employer: percent <sup>2</sup>  |           |           |           |           |           |           |           |           |           |           |            |           |           |           |
| Educational institution <sup>5</sup>  | 60.0      | 81.3      | 62.5      | 63.3      | 75.9      | 79.3      | 74.1      | 40.0      | 63.2      | 52.0      | 51.4       | 42.9      | 50.0      | 42.3      |
| Industry/business   | 30.0      | 12.5      | 25.0      | 36.7      | 20.7      | 20.7      | 22.2      | 56.0      | 36.8      | 48.0      | 40.0       | 53.6      | 47.1      | 50.0      |
| Government  | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 2.9        | 3.6       | 0.0       | 3.8       |
| Nonprofit   | 0.0       | 0.0       | 6.3       | 0.0       | 3.4       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0        | 0.0       | 2.9       | 0.0       |
| Other and unknown   | 10.0      | 6.3       | 6.3       | 0.0       | 0.0       | 0.0       | 3.7       | 4.0       | 0.0       | 0.0       | 5.7        | 0.0       | 0.0       | 3.8       |

<sup>1</sup>This table includes all citizens of Greece who indicated a visa status (permanent or temporary visa). Those with unknown visa status are not included.

<sup>2</sup>Sciences and engineering Ph.D.s only.

<sup>3</sup>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. "Personal" includes a recipient's own earnings, family support, and loans. Federal research assistants are aggregated with university research assistants.

<sup>4</sup>Includes only those Ph.D. recipients intending to remain in the United States after graduation.

<sup>5</sup>Includes 2-year and 4-year colleges and universities, medical schools, and elementary/secondary schools.

**SOURCE:** National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*.

Table B-21. Statistical profile of doctorate recipients from India, by year of Ph.D.: 1975, 1980, 1985-96

Page 1 of 2

| Item   | 1975       | 1980       | 1985       | 1986       | 1987       | 1988       | 1989       | 1990       | 1991       | 1992         | 1993         | 1994         | 1995         | 1996         |
|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------|--------------|--------------|--------------|--------------|
| <b>Total number of Ph.D.s<sup>1</sup></b> .....              | <b>659</b> | <b>420</b> | <b>541</b> | <b>579</b> | <b>602</b> | <b>647</b> | <b>679</b> | <b>881</b> | <b>924</b> | <b>1,072</b> | <b>1,139</b> | <b>1,289</b> | <b>1,425</b> | <b>1,481</b> |
| Percent men.....   | 92.1       | 90.0       | 88.4       | 86.2       | 84.6       | 87.0       | 82.9       | 82.9       | 81.3       | 79.6         | 79.3         | 78.0         | 77.2         | 78.6         |
| Percent women.....   | 7.9        | 10.0       | 11.6       | 13.8       | 15.4       | 13.0       | 17.1       | 17.1       | 18.7       | 20.4         | 20.7         | 22.0         | 22.8         | 21.4         |
| Percent with permanent visa.....                             | 29.6       | 19.8       | 19.0       | 18.3       | 18.4       | 18.9       | 19.4       | 19.0       | 15.3       | 18.3         | 17.2         | 17.6         | 15.4         | 16.4         |
| Percent with temporary visa.....                             | 70.4       | 80.2       | 81.0       | 81.7       | 81.6       | 81.1       | 80.6       | 81.0       | 84.7       | 81.7         | 82.8         | 82.4         | 84.6         | 83.6         |
| Percent married.....   | 60.7       | 45.7       | 50.3       | 54.9       | 52.8       | 50.9       | 52.3       | 54.4       | 51.4       | 53.5         | 50.7         | 47.5         | 48.0         | 52.7         |
| Percent not married.....                                     | 38.4       | 53.3       | 47.5       | 40.6       | 43.5       | 45.1       | 44.9       | 39.8       | 39.9       | 38.3         | 40.9         | 43.3         | 42.9         | 41.5         |
| Percent unknown.....   | 0.9        | 1.0        | 2.2        | 4.5        | 3.7        | 4.0        | 2.8        | 5.8        | 8.7        | 8.1          | 8.4          | 9.2          | 9.1          | 5.7          |
| Median age at Ph.D. in years <sup>2</sup> .....              | 29.8       | 29.2       | 29.7       | 29.8       | 29.7       | 29.7       | 29.6       | 29.8       | 29.8       | 29.7         | 29.8         | 29.6         | 29.7         | 29.7         |
| Percent with dependents.....                                 | 46.3       | 41.0       | 41.4       | 44.2       | 41.4       | 41.3       | 40.2       | 43.2       | 38.6       | 38.3         | 35.7         | 33.1         | 34.0         | 35.3         |
| Percent receiving sources of support: percent <sup>2,3</sup> |            |            |            |            |            |            |            |            |            |              |              |              |              |              |
| Personal.....  | 34.7       | 28.0       | 28.2       | 29.4       | 27.2       | 30.2       | 32.3       | 31.4       | 27.4       | 29.0         | 28.7         | 28.1         | 25.9         | 39.4         |
| Foreign government.....                                      | 0.0        | 0.0        | 0.0        | 0.0        | 1.0        | 1.0        | 1.1        | 0.6        | 1.1        | 0.6          | 0.9          | 0.7          | 0.7          | 1.2          |
| University.....  | 91.4       | 94.3       | 95.0       | 97.0       | 95.8       | 96.3       | 96.6       | 94.5       | 93.1       | 95.7         | 95.8         | 93.4         | 93.4         | 94.9         |
| Teaching assistant.....                                      | 52.1       | 59.8       | 59.2       | 67.6       | 69.2       | 64.0       | 61.9       | 61.2       | 63.0       | 66.3         | 67.2         | 65.1         | 59.3         | 68.4         |
| Research assistant.....                                      | 72.2       | 74.4       | 72.5       | 74.0       | 73.6       | 78.8       | 80.2       | 78.2       | 75.1       | 78.6         | 78.2         | 75.9         | 78.5         | 83.9         |
| Other university.....  | 22.2       | 22.4       | 19.4       | 19.8       | 19.9       | 21.2       | 21.8       | 19.7       | 17.4       | 17.4         | 20.5         | 16.6         | 17.6         | 26.2         |
| Other.....   | 18.6       | 15.9       | 7.4        | 9.0        | 6.0        | 6.3        | 8.4        | 4.8        | 6.6        | 7.1          | 8.2          | 8.8          | 7.9          | 9.7          |
| Unknown.....   | 2.2        | 1.1        | 2.8        | 0.6        | 2.2        | 1.7        | 2.1        | 3.8        | 5.6        | 2.9          | 2.8          | 5.1          | 5.5          | 4.1          |
| Median years from baccalaureate to Ph.D.                     |            |            |            |            |            |            |            |            |            |              |              |              |              |              |
| Total time: in years.....                                    | 9.3        | 8.5        | 8.6        | 9.0        | 8.8        | 8.8        | 8.5        | 8.5        | 8.1        | 8.3          | 8.4          | 8.4          | 8.4          | 8.3          |
| Registered time: in years.....                               | 6.2        | 6.3        | 6.4        | 6.6        | 6.6        | 6.7        | 6.9        | 6.8        | 6.6        | 6.8          | 6.9          | 6.9          | 6.9          | 6.9          |
| Sciences & Engineering: percent.....                         | 88.0       | 88.3       | 84.7       | 81.0       | 83.6       | 80.4       | 78.9       | 80.7       | 81.4       | 80.3         | 81.9         | 82.6         | 84.7         | 84.9         |
| Physical Sciences.....                                       | 16.7       | 24.5       | 23.4       | 24.7       | 19.9       | 20.0       | 17.4       | 16.5       | 11.6       | 15.7         | 12.5         | 13.4         | 10.2         | 11.9         |
| Earth, Atmospheric, and Ocean sciences.....                  | 2.2        | 0.5        | 1.1        | 1.9        | 1.2        | 0.8        | 1.7        | 1.4        | 1.1        | 0.7          | 1.1          | 1.2          | 1.4          | 1.4          |
| Mathematics.....   | 4.1        | 3.8        | 3.1        | 3.4        | 5.4        | 2.3        | 3.2        | 2.1        | 4.3        | 3.1          | 4.0          | 4.3          | 3.0          | 3.1          |
| Computer/Information sciences.....                           | 0.0        | 0.8        | 3.9        | 6.0        | 7.6        | 7.1        | 8.4        | 9.6        | 9.3        | 8.8          | 9.7          | 10.6         | 11.0         | 9.1          |
| Engineering.....   | 50.2       | 49.6       | 46.3       | 43.5       | 40.6       | 49.0       | 46.8       | 44.2       | 47.5       | 47.0         | 48.0         | 45.1         | 47.4         | 49.1         |
| Biological sciences.....                                     | 8.4        | 9.7        | 9.4        | 8.5        | 11.5       | 10.4       | 12.9       | 12.5       | 12.1       | 11.7         | 11.9         | 13.0         | 12.7         | 13.1         |
| Agricultural sciences.....                                   | 7.8        | 2.4        | 2.8        | 2.6        | 1.2        | 2.1        | 1.5        | 2.8        | 2.1        | 2.3          | 1.8          | 2.0          | 3.1          | 2.1          |
| Psychology and social sciences.....                          | 10.5       | 8.6        | 10.0       | 9.4        | 12.7       | 8.3        | 8.2        | 11.0       | 12.1       | 10.6         | 11.0         | 10.4         | 11.3         | 10.2         |
| Non-sciences and Engineering: percent.....                   | 12.0       | 11.7       | 15.3       | 19.0       | 16.4       | 19.6       | 21.1       | 19.3       | 18.6       | 19.7         | 18.1         | 17.4         | 15.3         | 15.1         |
| Humanities.....  | 31.6       | 22.4       | 7.2        | 15.5       | 17.2       | 14.2       | 16.8       | 13.5       | 12.8       | 13.3         | 13.1         | 12.5         | 14.7         | 12.1         |
| Education.....   | 21.5       | 30.6       | 13.3       | 5.5        | 9.1        | 14.2       | 4.9        | 8.2        | 6.4        | 12.8         | 8.7          | 7.1          | 9.6          | 9.9          |
| Health sciences.....   | 17.7       | 10.2       | 13.3       | 13.6       | 14.1       | 8.7        | 16.8       | 15.3       | 11.0       | 14.7         | 15.1         | 21.4         | 17.4         | 17.5         |
| Professional and other fields.....                           | 29.1       | 36.7       | 66.3       | 65.5       | 59.6       | 63.0       | 61.5       | 62.9       | 69.8       | 59.2         | 63.1         | 58.9         | 58.3         | 60.5         |
| <b>Planned location after Ph.D.<sup>2</sup></b>              |            |            |            |            |            |            |            |            |            |              |              |              |              |              |
| Number with permanent visas:.....                            | 162        | 63         | 74         | 70         | 87         | 84         | 94         | 119        | 108        | 148          | 142          | 173          | 168          | 199          |
| U. S. total: percent.....                                    | 64.8       | 73.0       | 67.6       | 71.4       | 58.6       | 67.9       | 64.9       | 73.1       | 88.9       | 91.9         | 92.3         | 93.6         | 94.1         | 96.0         |
| Study.....   | 28.6       | 28.3       | 30.0       | 34.0       | 29.4       | 31.6       | 39.3       | 43.7       | 30.2       | 41.9         | 35.1         | 31.5         | 36.1         | 34.0         |
| Employment.....  | 70.5       | 71.7       | 70.0       | 64.0       | 70.6       | 68.4       | 60.7       | 56.3       | 67.7       | 55.2         | 60.3         | 64.8         | 60.1         | 63.4         |
| Unknown.....   | 1.0        | 0.0        | 0.0        | 2.0        | 0.0        | 0.0        | 0.0        | 0.0        | 2.1        | 2.9          | 4.6          | 3.7          | 3.8          | 2.6          |
| Non-U.S.....   | 3.1        | 0.0        | 0.0        | 4.3        | 2.3        | 1.2        | 1.1        | 0.8        | 5.6        | 5.4          | 4.9          | 2.9          | 1.8          | 1.5          |
| Unknown location.....  | 32.1       | 27.0       | 32.4       | 24.3       | 39.1       | 31.0       | 34.0       | 26.1       | 5.6        | 2.7          | 2.8          | 3.5          | 4.2          | 2.5          |

See explanatory information, if any, and SOURCE at end of table.

Table B-21. Statistical profile of doctorate recipients from India, by year of Ph.D.: 1975, 1980, 1985-96

Page 2 of 2

| Item  | 1975       | 1980       | 1985       | 1986       | 1987       | 1988       | 1989       | 1990       | 1991       | 1992       | 1993       | 1994       | 1995         | 1996         |
|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------|--------------|
| Number with temporary visas:  | 418        | 308        | 384        | 399        | 416        | 436        | 442        | 592        | 644        | 713        | 791        | 892        | 1,039        | 1,059        |
| U. S. total: percent  | 52.9       | 71.1       | 72.7       | 70.9       | 70.2       | 74.3       | 71.5       | 64.4       | 71.1       | 79.7       | 79.4       | 79.5       | 81.4         | 84.1         |
| Study   | 47.1       | 49.3       | 55.2       | 53.4       | 52.4       | 54.0       | 52.8       | 42.3       | 39.7       | 42.8       | 42.8       | 45.1       | 44.7         | 39.8         |
| Employment  | 52.0       | 49.8       | 44.8       | 45.6       | 46.6       | 45.7       | 45.6       | 57.0       | 59.2       | 55.3       | 54.9       | 52.3       | 53.8         | 59.4         |
| Unknown   | 0.9        | 0.9        | 0.0        | 1.1        | 1.0        | 0.3        | 1.6        | 0.8        | 1.1        | 1.9        | 2.2        | 2.5        | 1.5          | 0.8          |
| Non-U.S.  | 19.1       | 8.1        | 7.0        | 7.3        | 7.2        | 6.4        | 3.2        | 15.0       | 16.3       | 14.7       | 14.7       | 14.6       | 12.3         | 9.6          |
| Unknown location  | 28.0       | 20.8       | 20.3       | 21.8       | 22.6       | 19.3       | 25.3       | 20.6       | 12.6       | 5.6        | 5.9        | 5.9        | 6.3          | 6.2          |
| <b>Number planning location in the United States after Ph.D.<sup>2</sup>:</b> | <b>326</b> | <b>265</b> | <b>329</b> | <b>333</b> | <b>343</b> | <b>381</b> | <b>377</b> | <b>488</b> | <b>554</b> | <b>704</b> | <b>759</b> | <b>871</b> | <b>1,004</b> | <b>1,082</b> |
| Percent with definite postdoctoral study <sup>4</sup>                         | 26.1       | 33.6       | 37.4       | 41.1       | 41.1       | 42.5       | 41.1       | 33.8       | 27.6       | 29.4       | 24.2       | 26.3       | 28.4         | 27.3         |
| Percent with definite employment <sup>4</sup>                                 | 52.1       | 46.0       | 41.6       | 43.5       | 46.4       | 44.1       | 43.8       | 45.7       | 45.8       | 39.6       | 36.5       | 35.0       | 34.4         | 42.1         |
| Percent seeking postdoctoral study <sup>4</sup>                               | 15.0       | 12.1       | 14.0       | 9.3        | 7.9        | 8.1        | 9.5        | 8.8        | 10.5       | 13.2       | 17.3       | 16.3       | 14.9         | 11.6         |
| Percent seeking employment <sup>4</sup>                                       | 5.8        | 7.5        | 7.0        | 4.8        | 3.8        | 5.0        | 4.2        | 11.1       | 14.8       | 15.6       | 19.4       | 19.6       | 20.4         | 17.9         |
| Percent with postdoctoral plans unknown <sup>4</sup>                          | 0.9        | 0.8        | 0.0        | 1.2        | 0.9        | 0.3        | 1.3        | 0.6        | 1.3        | 2.1        | 2.6        | 2.8        | 1.9          | 1.1          |
| <b>Number with definite employment plans in United States after Ph.D.:</b>    | <b>170</b> | <b>122</b> | <b>137</b> | <b>145</b> | <b>159</b> | <b>168</b> | <b>165</b> | <b>214</b> | <b>254</b> | <b>279</b> | <b>277</b> | <b>305</b> | <b>345</b>   | <b>456</b>   |
| Primary work activity <sup>2</sup> : percent                                  |            |            |            |            |            |            |            |            |            |            |            |            |              |              |
| R&D   | 57.1       | 65.6       | 62.0       | 59.3       | 62.3       | 64.9       | 63.0       | 66.8       | 67.7       | 66.7       | 62.8       | 62.6       | 68.7         | 69.7         |
| Teaching  | 21.2       | 21.3       | 24.8       | 29.7       | 27.7       | 21.4       | 22.4       | 16.8       | 15.4       | 14.7       | 14.8       | 14.8       | 11.3         | 9.9          |
| Administrative  | 0.0        | 0.8        | 0.0        | 1.4        | 0.0        | 0.0        | 0.6        | 1.4        | 0.8        | 1.1        | 0.0        | 0.7        | 0.6          | 0.7          |
| Professional services   | 7.1        | 4.1        | 5.1        | 3.4        | 4.4        | 4.2        | 4.8        | 2.8        | 4.7        | 7.5        | 6.9        | 5.9        | 6.1          | 13.4         |
| Other   | 2.9        | 0.0        | 0.7        | 0.7        | 0.6        | 1.2        | 1.8        | 0.9        | 1.2        | 2.2        | 1.8        | 2.0        | 4.9          | 4.0          |
| Unknown   | 11.8       | 8.2        | 7.3        | 5.5        | 5.0        | 8.3        | 7.3        | 11.2       | 10.2       | 7.9        | 13.7       | 14.1       | 8.4          | 2.4          |
| Type of employer: percent <sup>2</sup>  |            |            |            |            |            |            |            |            |            |            |            |            |              |              |
| Educational institution <sup>5</sup>  | 27.6       | 32.0       | 44.5       | 46.9       | 54.7       | 47.0       | 46.1       | 41.1       | 35.0       | 31.5       | 32.5       | 28.2       | 22.0         | 15.8         |
| Industry/business   | 62.4       | 59.8       | 47.4       | 47.6       | 41.5       | 48.2       | 49.1       | 54.2       | 59.1       | 62.4       | 59.2       | 63.9       | 70.4         | 79.2         |
| Government  | 0.6        | 5.7        | 2.2        | 2.1        | 1.9        | 2.4        | 2.4        | 1.9        | 2.4        | 1.8        | 2.2        | 2.3        | 2.0          | 1.5          |
| Nonprofit   | 7.1        | 2.5        | 3.7        | 1.4        | 1.3        | 0.6        | 2.4        | 1.9        | 1.6        | 2.5        | 3.6        | 3.3        | 2.6          | 2.0          |
| Other and unknown   | 2.4        | 0.0        | 2.2        | 2.1        | 0.6        | 1.8        | 0.0        | 0.9        | 2.0        | 1.8        | 2.5        | 2.3        | 2.9          | 1.5          |

<sup>1</sup> This table includes all citizens of India who indicated a visa status (permanent or temporary visa). Those with unknown visa status are not included.

<sup>2</sup> Sciences and engineering Ph.D.s only.

<sup>3</sup> 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. "Personal" includes a recipient's own earnings, family support, and loans. Federal research assistants are aggregated with university research assistants.

<sup>4</sup> Includes only those Ph.D. recipients intending to remain in the United States after graduation.

<sup>5</sup> Includes 2-year and 4-year colleges and universities, medical schools, and elementary/secondary schools.

**SOURCE:** National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*.

Table B-22. Statistical profile of doctorate recipients from Italy, by year of Ph.D.: 1975, 1980, 1985-96

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| Item   | 1975      | 1980      | 1985      | 1986      | 1987      | 1988      | 1989      | 1990      | 1991       | 1992      | 1993       | 1994       | 1995       | 1996       |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|------------|------------|------------|------------|
| <b>Total number of Ph.D.s<sup>1</sup></b> .....              | <b>21</b> | <b>19</b> | <b>55</b> | <b>58</b> | <b>59</b> | <b>77</b> | <b>77</b> | <b>88</b> | <b>115</b> | <b>99</b> | <b>101</b> | <b>108</b> | <b>116</b> | <b>102</b> |
| Percent men.....   | 81.0      | 94.7      | 80.0      | 70.7      | 67.8      | 71.4      | 66.2      | 69.3      | 61.7       | 67.7      | 58.4       | 62.0       | 69.0       | 62.7       |
| Percent women.....   | 19.0      | 5.3       | 20.0      | 29.3      | 32.2      | 28.6      | 33.8      | 30.7      | 38.3       | 32.3      | 41.6       | 38.0       | 31.0       | 37.3       |
| Percent with permanent visa.....                             | 23.8      | 36.8      | 25.5      | 13.8      | 27.1      | 18.2      | 28.6      | 14.8      | 27.8       | 21.2      | 20.8       | 23.1       | 20.7       | 18.6       |
| Percent with temporary visa.....                             | 76.2      | 63.2      | 74.5      | 86.2      | 72.9      | 81.8      | 71.4      | 85.2      | 72.2       | 78.8      | 79.2       | 76.9       | 79.3       | 81.4       |
| Percent married.....   | 71.4      | 73.7      | 47.3      | 44.8      | 47.5      | 33.8      | 45.5      | 37.5      | 47.8       | 40.4      | 41.6       | 41.7       | 37.1       | 35.3       |
| Percent not married.....                                     | 23.8      | 26.3      | 49.1      | 51.7      | 50.8      | 64.9      | 51.9      | 58.0      | 47.8       | 49.5      | 49.5       | 50.0       | 55.2       | 60.8       |
| Percent unknown.....   | 4.8       | 0.0       | 3.6       | 3.4       | 1.7       | 1.3       | 2.6       | 4.5       | 4.3        | 10.1      | 8.9        | 8.3        | 7.8        | 3.9        |
| Median age at Ph.D. in years <sup>2</sup> .....              | 30.4      | 32.0      | 31.4      | 30.2      | 30.8      | 31.0      | 31.7      | 30.4      | 31.1       | 31.8      | 31.1       | 32.3       | 30.7       | 32.1       |
| Percent with dependents.....                                 | 47.6      | 47.4      | 29.1      | 27.6      | 25.4      | 18.2      | 26.0      | 21.6      | 24.3       | 25.3      | 22.8       | 25.0       | 23.3       | 24.5       |
| Percent receiving sources of support: percent <sup>2,3</sup> |           |           |           |           |           |           |           |           |            |           |            |            |            |            |
| Personal.....  | 21.4      | 40.0      | 51.1      | 55.1      | 54.3      | 52.4      | 57.1      | 50.8      | 52.3       | 49.3      | 53.9       | 61.4       | 50.6       | 55.8       |
| Foreign government.....                                      | 0.0       | 0.0       | 0.0       | 0.0       | 15.2      | 22.2      | 17.9      | 23.8      | 18.6       | 19.2      | 21.1       | 32.5       | 22.2       | 29.9       |
| University.....  | 92.9      | 80.0      | 91.1      | 95.9      | 93.5      | 88.9      | 96.4      | 88.9      | 87.2       | 91.8      | 86.8       | 94.0       | 93.8       | 94.8       |
| Teaching assistant.....                                      | 42.9      | 20.0      | 51.1      | 61.2      | 52.2      | 55.6      | 66.1      | 46.0      | 53.5       | 68.5      | 63.2       | 63.9       | 67.9       | 70.1       |
| Research assistant.....                                      | 64.3      | 53.3      | 48.9      | 67.3      | 71.7      | 65.1      | 66.1      | 66.7      | 58.1       | 63.0      | 59.2       | 57.8       | 55.6       | 71.4       |
| Other university.....  | 28.6      | 40.0      | 37.8      | 30.6      | 34.8      | 27.0      | 33.9      | 23.8      | 27.9       | 23.3      | 22.4       | 28.9       | 23.5       | 44.2       |
| Other.....   | 42.9      | 40.0      | 40.0      | 38.8      | 21.7      | 30.2      | 17.9      | 15.9      | 24.4       | 20.5      | 25.0       | 22.9       | 16.0       | 36.4       |
| Unknown.....   | 0.0       | 0.0       | 6.7       | 2.0       | 2.2       | 3.2       | 0.0       | 1.6       | 2.3        | 2.7       | 5.3        | 3.6        | 3.7        | 1.3        |
| Median years from baccalaureate to Ph.D.                     |           |           |           |           |           |           |           |           |            |           |            |            |            |            |
| Total time: in years.....                                    | 7.0       | 7.6       | 8.7       | 6.8       | 6.8       | 7.2       | 7.4       | 7.1       | 7.1        | 7.5       | 7.1        | 7.4        | 7.5        | 7.5        |
| Registered time: in years.....                               | 4.8       | 5.8       | 5.4       | 5.2       | 5.0       | 5.3       | 5.3       | 5.8       | 5.6        | 6.4       | 5.7        | 6.1        | 5.8        | 5.9        |
| Sciences & Engineering: percent.....                         | 66.7      | 78.9      | 81.8      | 84.5      | 78.0      | 81.8      | 72.7      | 71.6      | 74.8       | 73.7      | 75.2       | 76.9       | 69.8       | 75.5       |
| Physical Sciences.....                                       | 21.4      | 6.7       | 26.7      | 18.4      | 17.4      | 23.8      | 12.5      | 23.8      | 23.3       | 19.2      | 19.7       | 10.8       | 16.0       | 14.3       |
| Earth, Atmospheric, and Ocean sciences.....                  | 0.0       | 0.0       | 4.4       | 6.1       | 6.5       | 4.8       | 5.4       | 3.2       | 1.2        | 4.1       | 2.6        | 2.4        | 1.2        | 3.9        |
| Mathematics.....   | 14.3      | 13.3      | 17.8      | 16.3      | 10.9      | 12.7      | 17.9      | 14.3      | 10.5       | 20.5      | 18.4       | 16.9       | 27.2       | 15.6       |
| Computer/Information sciences.....                           | 0.0       | 20.0      | 0.0       | 0.0       | 0.0       | 4.8       | 3.6       | 1.6       | 4.7        | 8.2       | 5.3        | 3.6        | 3.7        | 2.6        |
| Engineering.....   | 14.3      | 13.3      | 15.6      | 16.3      | 21.7      | 11.1      | 26.8      | 22.2      | 14.0       | 13.7      | 13.2       | 13.3       | 11.1       | 10.4       |
| Biological sciences.....                                     | 21.4      | 6.7       | 6.7       | 12.2      | 13.0      | 4.8       | 7.1       | 11.1      | 12.8       | 4.1       | 11.8       | 13.3       | 8.6        | 11.7       |
| Agricultural sciences.....                                   | 0.0       | 13.3      | 4.4       | 4.1       | 2.2       | 1.6       | 0.0       | 0.0       | 0.0        | 2.7       | 0.0        | 2.4        | 3.7        | 2.6        |
| Psychology and social sciences.....                          | 28.6      | 26.7      | 24.4      | 26.5      | 28.3      | 36.5      | 26.8      | 23.8      | 33.7       | 27.4      | 28.9       | 37.3       | 28.4       | 39.0       |
| Non-sciences and Engineering: percent.....                   | 33.3      | 21.1      | 18.2      | 15.5      | 22.0      | 18.2      | 27.3      | 28.4      | 25.2       | 26.3      | 24.8       | 23.1       | 30.2       | 24.5       |
| Humanities.....  | 100.0     | 100.0     | 90.0      | 77.8      | 100.0     | 50.0      | 85.7      | 88.0      | 86.2       | 73.1      | 80.0       | 92.0       | 77.1       | 84.0       |
| Education.....   | 0.0       | 0.0       | 10.0      | 11.1      | 0.0       | 21.4      | 4.8       | 0.0       | 3.4        | 0.0       | 0.0        | 4.0        | 5.7        | 4.0        |
| Health sciences.....   | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 7.1       | 0.0       | 12.0      | 3.4        | 7.7       | 4.0        | 0.0        | 8.6        | 4.0        |
| Professional and other fields.....                           | 0.0       | 0.0       | 0.0       | 11.1      | 0.0       | 21.4      | 9.5       | 0.0       | 6.9        | 19.2      | 16.0       | 4.0        | 8.6        | 8.0        |
| <b>Planned location after Ph.D.<sup>2</sup></b>              |           |           |           |           |           |           |           |           |            |           |            |            |            |            |
| Number with permanent visas:.....                            | 2         | 5         | 11        | 6         | 10        | 9         | 11        | 5         | 17         | 12        | 14         | 16         | 11         | 11         |
| U. S. total: percent.....                                    | D         | D         | 36.4      | 50.0      | 70.0      | 55.6      | 54.5      | D         | 70.6       | 100.0     | 78.6       | 93.8       | 72.7       | 63.6       |
| Study.....   | D         | D         | 25.0      | 33.3      | 42.9      | 60.0      | 16.7      | D         | 33.3       | 41.7      | 63.6       | 33.3       | 62.5       | 57.1       |
| Employment.....  | D         | D         | 75.0      | 66.7      | 57.1      | 40.0      | 83.3      | D         | 66.7       | 58.3      | 36.4       | 60.0       | 37.5       | 42.9       |
| Unknown.....   | D         | D         | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | D         | 0.0        | 0.0       | 0.0        | 6.7        | 0.0        | 0.0        |
| Non-U.S.....   | D         | D         | 18.2      | 0.0       | 0.0       | 0.0       | 9.1       | D         | 11.8       | 0.0       | 0.0        | 6.3        | 27.3       | 36.4       |
| Unknown location.....  | D         | D         | 45.5      | 50.0      | 30.0      | 44.4      | 36.4      | D         | 17.6       | 0.0       | 21.4       | 0.0        | 0.0        | 0.0        |

See explanatory information, if any, and SOURCE at end of table.

Table B-22. Statistical profile of doctorate recipients from Italy, by year of Ph.D.: 1975, 1980, 1985-96

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| Item   | 1975     | 1980     | 1985      | 1986      | 1987      | 1988      | 1989      | 1990      | 1991      | 1992      | 1993      | 1994      | 1995      | 1996      |
|--|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Number with temporary visas.....   | 12       | 10       | 34        | 43        | 36        | 54        | 45        | 58        | 69        | 61        | 62        | 67        | 70        | 66        |
| U. S. total: percent.....  | 33.3     | 20.0     | 32.4      | 44.2      | 27.8      | 44.4      | 28.9      | 34.5      | 36.2      | 41.0      | 30.6      | 40.3      | 41.4      | 40.9      |
| Study.....   | 0.0      | 50.0     | 54.5      | 57.9      | 40.0      | 37.5      | 53.8      | 60.0      | 52.0      | 44.0      | 47.4      | 48.1      | 51.7      | 70.4      |
| Employment.....  | 100.0    | 50.0     | 45.5      | 42.1      | 60.0      | 62.5      | 46.2      | 40.0      | 48.0      | 56.0      | 52.6      | 51.9      | 44.8      | 29.6      |
| Unknown.....   | 0.0      | 0.0      | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 3.4       | 0.0       |
| Non-U.S.....   | 66.7     | 60.0     | 47.1      | 37.2      | 41.7      | 46.3      | 51.1      | 48.3      | 55.1      | 52.5      | 61.3      | 56.7      | 54.3      | 53.0      |
| Unknown location.....  | 0.0      | 20.0     | 20.6      | 18.6      | 30.6      | 9.3       | 20.0      | 17.2      | 8.7       | 6.6       | 8.1       | 3.0       | 4.3       | 6.1       |
| <b>Number planning location<br/>In the United States<br/>after Ph.D.<sup>2</sup>:</b>  | <b>6</b> | <b>5</b> | <b>15</b> | <b>22</b> | <b>17</b> | <b>29</b> | <b>19</b> | <b>23</b> | <b>37</b> | <b>37</b> | <b>30</b> | <b>42</b> | <b>37</b> | <b>34</b> |
| Percent with definite postdoctoral study <sup>4</sup> .....                            | 16.7     | D        | 33.3      | 50.0      | 29.4      | 34.5      | 15.8      | 30.4      | 32.4      | 24.3      | 46.7      | 21.4      | 37.8      | 47.1      |
| Percent with definite employment <sup>4</sup> .....                                    | 83.3     | D        | 40.0      | 45.5      | 52.9      | 55.2      | 57.9      | 34.8      | 48.6      | 43.2      | 30.0      | 28.6      | 21.6      | 17.6      |
| Percent seeking postdoctoral study <sup>4</sup> .....                                  | 0.0      | D        | 13.3      | 4.5       | 11.8      | 6.9       | 26.3      | 30.4      | 13.5      | 18.9      | 6.7       | 21.4      | 16.2      | 20.6      |
| Percent seeking employment <sup>4</sup> .....  | 0.0      | D        | 13.3      | 0.0       | 5.9       | 3.4       | 0.0       | 4.3       | 5.4       | 13.5      | 16.7      | 26.2      | 21.6      | 14.7      |
| Percent with postdoctoral plans unknown <sup>4</sup> .....                             | 0.0      | D        | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 2.4       | 2.7       | 0.0       |
| <b>Number with definite<br/>employment plans in<br/>United States<br/>after Ph.D.:</b> | <b>5</b> | <b>2</b> | <b>6</b>  | <b>10</b> | <b>9</b>  | <b>16</b> | <b>11</b> | <b>8</b>  | <b>18</b> | <b>16</b> | <b>9</b>  | <b>12</b> | <b>8</b>  | <b>6</b>  |
| Primary work activity <sup>2</sup> : percent.....                                      |          |          |           |           |           |           |           |           |           |           |           |           |           |           |
| R&D.....   | D        | D        | 66.7      | 60.0      | 44.4      | 68.8      | 54.5      | 50.0      | 61.1      | 43.8      | 55.6      | 66.7      | 25.0      | 83.3      |
| Teaching.....  | D        | D        | 33.3      | 30.0      | 22.2      | 18.8      | 27.3      | 37.5      | 16.7      | 37.5      | 11.1      | 8.3       | 50.0      | 16.7      |
| Administrative.....  | D        | D        | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       |
| Professional services.....   | D        | D        | 0.0       | 10.0      | 33.3      | 0.0       | 0.0       | 12.5      | 5.6       | 6.3       | 0.0       | 8.3       | 0.0       | 0.0       |
| Other.....   | D        | D        | 0.0       | 0.0       | 0.0       | 6.3       | 18.2      | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       |
| Unknown.....   | D        | D        | 0.0       | 0.0       | 0.0       | 6.3       | 0.0       | 0.0       | 16.7      | 12.5      | 33.3      | 16.7      | 25.0      | 0.0       |
| Type of employer: percent <sup>2</sup>   |          |          |           |           |           |           |           |           |           |           |           |           |           |           |
| Educational institution <sup>5</sup> .....   | D        | D        | 83.3      | 60.0      | 44.4      | 81.3      | 54.5      | 62.5      | 61.1      | 75.0      | 55.6      | 58.3      | 100.0     | 50.0      |
| Industry/business.....   | D        | D        | 16.7      | 20.0      | 33.3      | 6.3       | 36.4      | 25.0      | 22.2      | 18.8      | 33.3      | 8.3       | 0.0       | 33.3      |
| Government.....  | D        | D        | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 8.3       | 0.0       | 0.0       |
| Nonprofit.....   | D        | D        | 0.0       | 0.0       | 22.2      | 0.0       | 0.0       | 12.5      | 11.1      | 0.0       | 11.1      | 8.3       | 0.0       | 0.0       |
| Other and unknown.....   | D        | D        | 0.0       | 20.0      | 0.0       | 12.5      | 9.1       | 0.0       | 5.6       | 6.3       | 0.0       | 16.7      | 0.0       | 16.7      |

D = data withheld to avoid potential disclosure of confidential information.

<sup>1</sup> This table includes all citizens of Italy who indicated a visa status (permanent or temporary visa). Those with unknown visa status are not included.<sup>2</sup> Sciences and engineering Ph.D.s only.<sup>3</sup> 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. "Personal" includes a recipient's own earnings, family support, and loans. Federal research assistants are aggregated with university research assistants.<sup>4</sup> Includes only those Ph.D. recipients intending to remain in the United States after graduation.<sup>5</sup> Includes 2-year and 4-year colleges and universities, medical schools, and elementary/secondary schools.**SOURCE:** National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*.



Table B-23. Statistical profile of doctorate recipients from Korea<sup>1</sup>, by year of Ph.D.: 1975, 1980, 1985-96

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| Item   | 1975       | 1980       | 1985       | 1986       | 1987       | 1988       | 1989       | 1990         | 1991         | 1992         | 1993         | 1994         | 1995         | 1996         |
|--|------------|------------|------------|------------|------------|------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>Total number of Ph.D.s<sup>2</sup></b> .....              | <b>190</b> | <b>158</b> | <b>392</b> | <b>493</b> | <b>681</b> | <b>790</b> | <b>933</b> | <b>1,259</b> | <b>1,397</b> | <b>1,474</b> | <b>1,409</b> | <b>1,475</b> | <b>1,308</b> | <b>1,251</b> |
| Percent men.....   | 91.6       | 90.5       | 87.8       | 89.5       | 88.5       | 88.9       | 86.1       | 86.6         | 84.3         | 85.2         | 84.7         | 82.9         | 81.2         | 82.3         |
| Percent women.....   | 8.4        | 9.5        | 12.2       | 10.5       | 11.5       | 11.1       | 13.9       | 13.4         | 15.7         | 14.8         | 15.3         | 17.2         | 18.8         | 17.7         |
| Percent with permanent visa.....                             | 44.7       | 23.4       | 16.1       | 11.8       | 8.2        | 8.7        | 7.9        | 7.6          | 8.7          | 8.3          | 9.3          | 9.4          | 10.0         | 11.1         |
| Percent with temporary visa.....                             | 55.3       | 76.6       | 83.9       | 88.2       | 91.8       | 91.3       | 92.1       | 92.5         | 91.3         | 91.7         | 90.7         | 90.6         | 90.0         | 88.9         |
| Percent married.....   | 85.8       | 84.8       | 86.0       | 87.2       | 87.2       | 88.1       | 88.3       | 85.5         | 82.1         | 83.7         | 83.4         | 81.7         | 79.8         | 76.1         |
| Percent not married.....                                     | 13.7       | 13.9       | 11.5       | 11.8       | 11.2       | 11.3       | 11.3       | 10.9         | 12.5         | 12.5         | 12.5         | 14.5         | 15.5         | 18.2         |
| Percent unknown.....   | 0.5        | 1.3        | 2.6        | 1.0        | 1.6        | 0.6        | 0.4        | 3.6          | 5.4          | 3.9          | 4.1          | 3.8          | 4.7          | 5.7          |
| Median age at Ph.D. in years <sup>3</sup> .....              | 33.2       | 32.9       | 33.4       | 33.1       | 33.0       | 33.1       | 33.1       | 33.2         | 33.3         | 33.5         | 33.5         | 33.8         | 33.8         | 33.8         |
| Percent with dependents.....                                 | 68.4       | 72.8       | 81.9       | 82.2       | 80.8       | 82.8       | 83.0       | 80.6         | 77.7         | 77.9         | 78.6         | 76.4         | 74.0         | 72.6         |
| Percent receiving sources of support: percent <sup>3,4</sup> |            |            |            |            |            |            |            |              |              |              |              |              |              |              |
| Personal.....  | 44.2       | 53.8       | 79.7       | 78.4       | 72.7       | 75.0       | 75.7       | 72.4         | 72.7         | 76.6         | 73.3         | 74.1         | 74.1         | 79.9         |
| Foreign government.....                                      | 0.0        | 0.0        | 0.0        | 0.0        | 5.8        | 9.3        | 7.6        | 7.9          | 5.1          | 6.5          | 7.0          | 5.7          | 5.6          | 7.9          |
| University.....  | 93.5       | 92.4       | 89.5       | 93.3       | 92.4       | 95.3       | 93.6       | 89.2         | 90.1         | 91.6         | 89.5         | 89.2         | 87.3         | 88.6         |
| Teaching assistant.....                                      | 48.7       | 49.2       | 39.1       | 48.0       | 50.3       | 53.9       | 50.9       | 47.5         | 47.3         | 46.9         | 46.5         | 46.0         | 46.1         | 49.5         |
| Research assistant.....                                      | 71.4       | 66.7       | 67.4       | 71.1       | 72.9       | 74.6       | 72.6       | 70.5         | 71.7         | 71.0         | 72.6         | 70.7         | 67.1         | 71.6         |
| Other university.....  | 27.9       | 28.0       | 19.1       | 19.2       | 16.4       | 15.9       | 13.1       | 15.1         | 9.9          | 14.6         | 14.3         | 13.3         | 12.6         | 20.5         |
| Other.....   | 18.8       | 9.1        | 17.2       | 16.4       | 12.8       | 5.8        | 8.2        | 5.7          | 7.0          | 6.4          | 7.0          | 7.0          | 5.6          | 8.9          |
| Unknown.....   | 1.3        | 2.3        | 3.4        | 0.7        | 2.4        | 1.6        | 1.5        | 4.5          | 5.2          | 3.6          | 3.7          | 4.4          | 5.8          | 5.4          |
| Median years from baccalaureate to Ph.D.                     |            |            |            |            |            |            |            |              |              |              |              |              |              |              |
| Total time: in years.....                                    | 10.3       | 9.8        | 10.5       | 10.3       | 10.3       | 10.2       | 10.0       | 10.0         | 10.3         | 10.5         | 10.4         | 10.8         | 10.8         | 10.8         |
| Registered time: in years.....                               | 6.3        | 6.5        | 6.8        | 6.8        | 6.5        | 6.8        | 6.9        | 7.3          | 7.3          | 7.5          | 7.5          | 7.6          | 7.8          | 7.6          |
| Sciences & Engineering: percent.....                         | 81.1       | 83.5       | 82.9       | 81.5       | 80.6       | 78.6       | 80.7       | 77.8         | 79.7         | 76.5         | 79.7         | 78.0         | 77.0         | 78.3         |
| Physical Sciences.....                                       | 15.6       | 17.4       | 16.0       | 16.2       | 16.2       | 15.8       | 15.1       | 16.9         | 13.9         | 11.5         | 11.5         | 15.8         | 15.1         | 15.0         |
| Earth, Atmospheric, and Ocean sciences.....                  | 4.5        | 2.3        | 2.5        | 1.0        | 2.9        | 1.9        | 1.1        | 2.4          | 1.9          | 1.8          | 1.5          | 1.1          | 2.3          | 1.8          |
| Mathematics.....   | 7.8        | 3.8        | 4.3        | 4.5        | 5.3        | 5.0        | 3.7        | 4.4          | 4.4          | 5.1          | 3.7          | 3.0          | 4.4          | 4.9          |
| Computer/Information sciences.....                           |            | 0.8        | 2.8        | 2.0        | 2.4        | 3.4        | 2.3        | 3.3          | 4.0          | 4.3          | 3.4          | 4.9          | 3.6          | 5.9          |
| Engineering.....   | 31.8       | 31.1       | 40.9       | 43.5       | 43.4       | 41.4       | 40.9       | 36.8         | 39.1         | 38.8         | 43.1         | 37.3         | 34.2         | 33.0         |
| Biological sciences.....                                     | 7.1        | 6.8        | 7.4        | 7.0        | 8.0        | 9.2        | 8.6        | 10.5         | 9.6          | 10.6         | 12.2         | 13.2         | 12.5         | 12.2         |
| Agricultural sciences.....                                   | 6.5        | 3.8        | 3.7        | 2.7        | 3.8        | 4.0        | 4.3        | 4.2          | 4.1          | 4.0          | 3.5          | 3.0          | 3.3          | 4.0          |
| Psychology and social sciences.....                          | 26.6       | 34.1       | 22.5       | 23.1       | 18.0       | 19.3       | 24.0       | 21.7         | 23.1         | 24.1         | 21.1         | 21.6         | 24.6         | 23.2         |
| Non-sciences and Engineering: percent.....                   | 18.9       | 16.5       | 17.1       | 18.5       | 19.4       | 21.4       | 19.3       | 22.2         | 20.3         | 23.5         | 20.3         | 22.0         | 23.1         | 21.7         |
| Humanities.....  | 16.7       | 23.1       | 17.9       | 18.7       | 13.6       | 15.4       | 14.4       | 15.0         | 14.8         | 17.3         | 21.0         | 20.6         | 24.3         | 23.9         |
| Education.....   | 38.9       | 57.7       | 19.4       | 22.0       | 28.0       | 27.2       | 29.4       | 24.3         | 25.8         | 25.4         | 25.2         | 25.9         | 24.9         | 24.6         |
| Health sciences.....   | 11.1       | 3.8        | 4.5        | 4.4        | 2.3        | 1.8        | 6.1        | 4.3          | 4.6          | 6.1          | 7.3          | 7.1          | 6.3          | 10.7         |
| Professional and other fields.....                           | 33.3       | 15.4       | 58.2       | 54.9       | 56.1       | 55.6       | 50.0       | 56.4         | 54.8         | 51.3         | 46.5         | 46.5         | 44.5         | 40.8         |
| <b>Planned location after Ph.D.<sup>3</sup></b>              |            |            |            |            |            |            |            |              |              |              |              |              |              |              |
| Number with permanent visas.....                             | 69         | 34         | 47         | 46         | 36         | 49         | 52         | 70           | 91           | 83           | 91           | 99           | 87           | 93           |
| U. S. total: percent.....                                    | 60.9       | 58.8       | 42.6       | 43.5       | 38.9       | 51.0       | 51.9       | 45.7         | 63.7         | 65.1         | 65.9         | 70.7         | 59.8         | 62.4         |
| Study.....   | 38.1       | 40.0       | 55.0       | 60.0       | 78.6       | 40.0       | 63.0       | 46.9         | 46.6         | 61.1         | 51.7         | 57.1         | 46.2         | 41.4         |
| Employment.....  | 59.5       | 60.0       | 45.0       | 40.0       | 21.4       | 52.0       | 37.0       | 53.1         | 51.7         | 35.2         | 48.3         | 42.9         | 50.0         | 58.6         |
| Unknown.....   | 2.4        | 0.0        | 0.0        | 0.0        | 0.0        | 8.0        | 0.0        | 0.0          | 1.7          | 3.7          | 0.0          | 0.0          | 3.9          | 0.0          |
| Non-U.S.....   | 2.9        | 11.8       | 17.0       | 19.6       | 11.1       | 4.1        | 11.5       | 21.4         | 24.2         | 28.9         | 28.6         | 26.3         | 33.3         | 35.5         |
| Unknown location.....  | 36.2       | 29.4       | 40.4       | 37.0       | 50.0       | 44.9       | 36.5       | 32.9         | 12.1         | 6.0          | 5.5          | 3.0          | 6.9          | 2.2          |

See explanatory information, if any, and SOURCE at end of table.

Table B-23. Statistical profile of doctorate recipients from Korea<sup>1</sup>, by year of Ph.D.: 1975, 1980, 1985-96

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| Item  | 1975      | 1980      | 1985       | 1986       | 1987       | 1988       | 1989       | 1990       | 1991       | 1992       | 1993       | 1994       | 1995       | 1996       |
|---|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Number with temporary visas:  | 85        | 98        | 278        | 356        | 513        | 572        | 701        | 909        | 1,023      | 1,044      | 1,032      | 1,051      | 918        | 886        |
| U. S. total: percent  | 35.3      | 44.9      | 32.0       | 36.8       | 35.5       | 39.2       | 37.1       | 30.4       | 32.7       | 30.6       | 32.4       | 34.9       | 36.7       | 35.0       |
| Study   | 46.7      | 75.0      | 67.4       | 69.5       | 68.7       | 74.1       | 75.4       | 73.6       | 69.8       | 67.7       | 74.3       | 76.0       | 76.6       | 76.1       |
| Employment  | 53.3      | 25.0      | 31.5       | 29.8       | 30.8       | 25.0       | 24.2       | 26.1       | 29.9       | 30.4       | 24.0       | 22.9       | 21.7       | 21.6       |
| Unknown   | 0.0       | 0.0       | 1.1        | 0.8        | 0.5        | 0.9        | 0.4        | 0.4        | 0.3        | 1.9        | 1.8        | 1.1        | 1.8        | 2.3        |
| Non-U.S.  | 41.2      | 36.7      | 38.5       | 34.6       | 29.6       | 30.4       | 30.2       | 50.8       | 55.6       | 63.8       | 62.9       | 59.1       | 57.6       | 58.4       |
| Unknown location  | 23.5      | 18.4      | 29.5       | 28.7       | 34.9       | 30.4       | 32.7       | 18.8       | 11.7       | 5.7        | 4.8        | 6.0        | 5.7        | 6.7        |
| <b>Number planning location in the United States after Ph.D.<sup>2</sup>:</b> | <b>72</b> | <b>84</b> | <b>109</b> | <b>151</b> | <b>198</b> | <b>249</b> | <b>287</b> | <b>308</b> | <b>392</b> | <b>373</b> | <b>394</b> | <b>437</b> | <b>389</b> | <b>368</b> |
| Percent with definite postdoctoral study <sup>5</sup>                         | 31.9      | 51.6      | 48.6       | 59.6       | 54.1       | 56.2       | 60.6       | 51.0       | 44.4       | 42.6       | 40.9       | 41.9       | 45.0       | 49.5       |
| Percent with definite employment <sup>5</sup>                                 | 48.6      | 32.8      | 28.4       | 29.8       | 25.0       | 22.9       | 22.0       | 22.1       | 17.9       | 16.4       | 10.2       | 11.0       | 9.0        | 15.0       |
| Percent seeking postdoctoral study <sup>5</sup>                               | 9.7       | 12.5      | 16.5       | 8.6        | 15.3       | 14.5       | 13.6       | 19.8       | 21.9       | 24.1       | 30.0       | 31.1       | 27.5       | 21.2       |
| Percent seeking employment <sup>5</sup>                                       | 8.3       | 3.1       | 5.5        | 1.3        | 5.1        | 4.8        | 3.5        | 6.8        | 15.3       | 14.8       | 17.5       | 15.1       | 16.5       | 12.5       |
| Percent with postdoctoral plans unknown <sup>5</sup>                          | 1.4       | 0.0       | 0.9        | 0.7        | 0.5        | 1.6        | 0.3        | 0.3        | 0.5        | 2.1        | 1.5        | 0.9        | 2.1        | 1.9        |
| <b>Number with definite employment plans in United States after Ph.D.:</b>    | <b>35</b> | <b>21</b> | <b>31</b>  | <b>45</b>  | <b>49</b>  | <b>57</b>  | <b>63</b>  | <b>68</b>  | <b>70</b>  | <b>61</b>  | <b>40</b>  | <b>48</b>  | <b>35</b>  | <b>55</b>  |
| Primary work activity <sup>3</sup> : percent                                  |           |           |            |            |            |            |            |            |            |            |            |            |            |            |
| R&D   | 62.9      | 47.6      | 67.7       | 51.1       | 73.5       | 42.1       | 49.2       | 72.1       | 68.6       | 62.3       | 75.0       | 62.5       | 45.7       | 81.8       |
| Teaching  | 25.7      | 14.3      | 22.6       | 44.4       | 18.4       | 49.1       | 36.5       | 20.6       | 25.7       | 16.4       | 15.0       | 20.8       | 34.3       | 12.7       |
| Administrative  | 0.0       | 0.0       | 0.0        | 0.0        | 2.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 2.1        | 0.0        | 0.0        |
| Professional services   | 2.9       | 4.8       | 3.2        | 0.0        | 0.0        | 1.8        | 4.8        | 4.4        | 2.9        | 4.9        | 2.5        | 2.1        | 11.4       | 1.8        |
| Other   | 0.0       | 4.8       | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 2.1        | 0.0        | 1.8        |
| Unknown   | 8.6       | 28.6      | 6.5        | 4.4        | 6.1        | 7.0        | 9.5        | 2.9        | 2.9        | 16.4       | 7.5        | 10.4       | 8.6        | 1.8        |
| Type of employer: percent <sup>3</sup>  |           |           |            |            |            |            |            |            |            |            |            |            |            |            |
| Educational institution <sup>6</sup>  | 37.1      | 28.6      | 38.7       | 60.0       | 53.1       | 66.7       | 63.5       | 44.1       | 50.0       | 45.9       | 45.0       | 43.8       | 51.4       | 36.4       |
| Industry/business   | 57.1      | 57.1      | 51.6       | 31.1       | 40.8       | 29.8       | 31.7       | 45.6       | 41.4       | 39.3       | 45.0       | 41.7       | 42.9       | 58.2       |
| Government  | 2.9       | 4.8       | 6.5        | 6.7        | 2.0        | 1.8        | 4.8        | 2.9        | 2.9        | 6.6        | 2.5        | 8.3        | 0.0        | 1.8        |
| Nonprofit   | 2.9       | 4.8       | 3.2        | 2.2        | 2.0        | 0.0        | 0.0        | 4.4        | 1.4        | 3.3        | 5.0        | 6.3        | 5.7        | 1.8        |
| Other and unknown   | 0.0       | 4.8       | 0.0        | 0.0        | 2.0        | 1.8        | 0.0        | 2.9        | 4.3        | 4.9        | 2.5        | 0.0        | 0.0        | 1.8        |

<sup>1</sup> Includes all responses for South Korea, North Korea, and unspecified Korean locations.

<sup>2</sup> This table includes all citizens of Korea who indicated a visa status (permanent or temporary visa). Those with unknown visa status are not included.

<sup>3</sup> Sciences and engineering Ph.D.s only.

<sup>4</sup> 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. "Personal" includes a recipient's own earnings, family support, and loans. Federal research assistants are aggregated with university research assistants.

<sup>5</sup> Includes only those Ph.D. recipients intending to remain in the United States after graduation.

<sup>6</sup> Includes 2-year and 4-year colleges and universities, medical schools, and elementary/secondary schools.

**SOURCE:** National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*.



Table B-24. Statistical profile of doctorate recipients from Mexico, by year of Ph.D.: 1975, 1980, 1985-96

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| Item   | 1975      | 1980      | 1985       | 1986       | 1987       | 1988       | 1989       | 1990       | 1991       | 1992       | 1993       | 1994       | 1995       | 1996       |
|--|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>Total number of Ph.D.s<sup>1</sup></b> .....              | <b>52</b> | <b>67</b> | <b>121</b> | <b>120</b> | <b>103</b> | <b>107</b> | <b>136</b> | <b>130</b> | <b>158</b> | <b>149</b> | <b>162</b> | <b>178</b> | <b>161</b> | <b>180</b> |
| Percent men.....   | 88.5      | 92.5      | 81.8       | 85.8       | 84.5       | 89.7       | 82.4       | 83.8       | 79.5       | 81.2       | 79.0       | 70.8       | 82.0       | 82.8       |
| Percent women.....   | 11.5      | 7.5       | 18.2       | 14.2       | 15.5       | 10.3       | 17.6       | 16.2       | 20.5       | 18.8       | 21.0       | 29.2       | 18.0       | 17.2       |
| Percent with permanent visa.....                             | 13.5      | 9.0       | 12.4       | 17.5       | 14.6       | 16.8       | 16.9       | 19.2       | 18.6       | 16.1       | 21.6       | 16.9       | 19.9       | 15.6       |
| Percent with temporary visa.....                             | 86.5      | 91.0      | 87.6       | 82.5       | 85.4       | 83.2       | 83.1       | 80.8       | 81.4       | 83.9       | 78.4       | 83.1       | 80.1       | 84.4       |
| Percent married.....   | 67.3      | 77.6      | 72.7       | 72.5       | 63.1       | 67.3       | 73.5       | 62.3       | 58.3       | 61.7       | 64.2       | 61.8       | 73.3       | 67.8       |
| Percent not married.....                                     | 30.8      | 19.4      | 26.4       | 25.8       | 32.0       | 29.0       | 25.7       | 29.2       | 37.2       | 33.6       | 32.7       | 31.5       | 21.7       | 28.9       |
| Percent unknown.....   | 1.9       | 3.0       | 0.8        | 1.7        | 4.9        | 3.7        | 0.7        | 8.5        | 4.5        | 4.7        | 3.1        | 6.7        | 5.0        | 3.3        |
| Median age at Ph.D. in years <sup>2</sup> .....              | 31.3      | 31.2      | 32.9       | 31.4       | 31.7       | 33.0       | 32.8       | 32.8       | 33.9       | 35.0       | 33.8       | 33.9       | 35.8       | 35.3       |
| Percent with dependents.....                                 | 48.1      | 65.7      | 69.4       | 67.5       | 59.2       | 63.6       | 66.2       | 59.2       | 56.4       | 59.1       | 58.6       | 52.8       | 65.8       | 65.0       |
| Percent receiving sources of support: percent <sup>2,3</sup> |           |           |            |            |            |            |            |            |            |            |            |            |            |            |
| Personal.....  | 26.3      | 38.6      | 38.6       | 40.2       | 48.8       | 51.1       | 42.5       | 46.2       | 38.3       | 42.6       | 43.2       | 32.4       | 38.3       | 53.8       |
| Foreign government.....                                      | 0.0       | 0.0       | 0.0        | 0.0        | 36.0       | 50.0       | 53.3       | 44.2       | 40.6       | 45.2       | 44.6       | 45.1       | 51.6       | 61.4       |
| University.....  | 73.7      | 56.1      | 70.3       | 69.1       | 75.6       | 82.6       | 85.8       | 81.7       | 75.8       | 83.5       | 77.7       | 74.6       | 68.0       | 79.1       |
| Teaching assistant.....                                      | 31.6      | 26.3      | 29.7       | 32.0       | 40.7       | 35.9       | 49.2       | 45.2       | 39.8       | 45.2       | 42.4       | 39.4       | 32.8       | 50.0       |
| Research assistant.....                                      | 52.6      | 35.1      | 43.6       | 49.5       | 52.3       | 56.5       | 55.8       | 53.8       | 48.4       | 58.3       | 54.0       | 49.3       | 46.9       | 55.1       |
| Other university.....  | 26.3      | 8.8       | 19.8       | 27.8       | 17.4       | 13.0       | 25.8       | 14.4       | 22.7       | 25.2       | 21.6       | 16.9       | 13.3       | 34.8       |
| Other.....   | 71.1      | 66.7      | 60.4       | 50.5       | 18.6       | 17.4       | 19.2       | 18.3       | 16.4       | 25.2       | 15.1       | 19.7       | 24.2       | 29.7       |
| Unknown.....   | 5.3       | 5.3       | 3.0        | 6.2        | 5.8        | 1.1        | 1.7        | 7.7        | 4.7        | 2.6        | 3.6        | 4.9        | 4.7        | 3.8        |
| Median years from baccalaureate to Ph.D.                     |           |           |            |            |            |            |            |            |            |            |            |            |            |            |
| Total time: in years.....                                    | 8.4       | 7.8       | 9.3        | 9.0        | 9.3        | 9.1        | 10.0       | 9.0        | 9.9        | 11.5       | 10.3       | 10.3       | 11.7       | 11.7       |
| Registered time: in years.....                               | 5.0       | 5.0       | 5.5        | 5.5        | 5.9        | 5.7        | 5.9        | 6.4        | 6.6        | 6.8        | 7.0        | 6.7        | 6.6        | 6.9        |
| Sciences & Engineering: percent.....                         | 73.1      | 85.1      | 83.5       | 80.8       | 83.5       | 86.0       | 88.2       | 80.0       | 82.1       | 77.2       | 85.8       | 79.8       | 79.5       | 87.8       |
| Physical Sciences.....                                       | 10.5      | 7.0       | 11.9       | 15.5       | 16.3       | 12.0       | 5.0        | 10.6       | 10.9       | 10.4       | 10.8       | 9.2        | 5.5        | 8.2        |
| Earth, Atmospheric, and Ocean sciences.....                  | 10.5      | 12.3      | 3.0        | 0.0        | 7.0        | 3.3        | 6.7        | 5.8        | 3.1        | 3.5        | 7.9        | 4.9        | 6.3        | 6.3        |
| Mathematics.....   | 13.2      | 3.5       | 8.9        | 7.2        | 7.0        | 4.3        | 5.8        | 6.7        | 6.3        | 5.2        | 7.2        | 6.3        | 6.3        | 5.7        |
| Computer/Information sciences.....                           | 0.0       | 0.0       | 0.0        | 2.1        | 3.5        | 0.0        | 2.5        | 1.0        | 3.1        | 3.5        | 0.7        | 2.1        | 0.0        | 6.3        |
| Engineering.....   | 28.9      | 22.8      | 23.8       | 20.6       | 24.4       | 29.3       | 23.3       | 24.0       | 17.2       | 13.9       | 19.4       | 21.1       | 20.3       | 23.4       |
| Biological sciences.....                                     | 10.5      | 8.8       | 13.9       | 13.4       | 11.6       | 19.6       | 21.7       | 15.4       | 21.1       | 23.5       | 16.5       | 19.7       | 28.1       | 18.4       |
| Agricultural sciences.....                                   | 10.5      | 26.3      | 24.8       | 17.5       | 9.3        | 20.7       | 15.0       | 23.1       | 18.0       | 13.9       | 17.3       | 16.9       | 21.1       | 14.6       |
| Psychology and social sciences.....                          | 15.8      | 19.3      | 13.9       | 23.7       | 20.9       | 10.9       | 20.0       | 13.5       | 20.3       | 26.1       | 20.1       | 19.7       | 12.5       | 17.1       |
| Non-sciences and Engineering: percent.....                   | 26.9      | 14.9      | 16.5       | 19.2       | 16.5       | 14.0       | 11.8       | 20.0       | 17.9       | 22.8       | 14.2       | 20.2       | 20.5       | 12.2       |
| Humanities.....  | 28.6      | 30.0      | 20.0       | 34.8       | 23.5       | 13.3       | 18.8       | 34.6       | 42.9       | 44.1       | 34.8       | 44.4       | 48.5       | 45.5       |
| Education.....   | 50.0      | 30.0      | 60.0       | 43.5       | 17.6       | 46.7       | 37.5       | 23.1       | 32.1       | 26.5       | 26.1       | 27.8       | 24.2       | 9.1        |
| Health sciences.....   | 14.3      | 40.0      | 10.0       | 13.0       | 23.5       | 20.0       | 12.5       | 23.1       | 10.7       | 17.6       | 8.7        | 22.2       | 15.2       | 27.3       |
| Professional and other fields.....                           | 7.1       | 0.0       | 10.0       | 8.7        | 35.3       | 20.0       | 31.3       | 19.2       | 14.3       | 11.8       | 30.4       | 5.6        | 12.1       | 18.2       |
| <b>Planned location after Ph.D.<sup>2</sup></b>              |           |           |            |            |            |            |            |            |            |            |            |            |            |            |
| Number with permanent visas:.....                            | 3         | 3         | 10         | 11         | 10         | 15         | 16         | 17         | 21         | 18         | 28         | 19         | 23         | 20         |
| U. S. total: percent.....                                    | D         | D         | 90.0       | 36.4       | 40.0       | 40.0       | 62.5       | 76.5       | 61.9       | 66.7       | 75.0       | 73.7       | 73.9       | 80.0       |
| Study.....   | D         | D         | 33.3       | 50.0       | 25.0       |            | 60.0       | 53.8       | 15.4       | 8.3        | 47.6       | 28.6       | 41.2       | 31.3       |
| Employment.....  | D         | D         | 66.7       | 50.0       | 75.0       | 83.3       | 40.0       | 46.2       | 84.6       | 83.3       | 52.4       | 64.3       | 58.8       | 62.5       |
| Unknown.....   | D         | D         | 0.0        | 0.0        | 0.0        | 16.7       | 0.0        | 0.0        | 0.0        | 8.3        | 0.0        | 7.1        | 0.0        | 6.3        |
| Non-U.S.....   | D         | D         | 0.0        | 27.3       | 20.0       | 20.0       | 18.8       | 23.5       | 28.6       | 22.2       | 21.4       | 26.3       | 17.4       | 20.0       |
| Unknown location.....  | D         | D         | 10.0       | 36.4       | 40.0       | 40.0       | 18.8       | 0.0        | 9.5        | 11.1       | 3.6        | 0.0        | 8.7        | 0.0        |

See explanatory information, if any, and SOURCE at end of table.

Table B-24. Statistical profile of doctorate recipients from Mexico, by year of Ph.D.: 1975, 1980, 1985-96

Page 2 of 2

| Item  | 1975     | 1980      | 1985      | 1986      | 1987      | 1988      | 1989      | 1990      | 1991      | 1992      | 1993      | 1994      | 1995      | 1996      |
|---|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Number with temporary visas:  | 35       | 54        | 91        | 86        | 76        | 77        | 104       | 87        | 107       | 97        | 111       | 123       | 105       | 138       |
| U. S. total: percent  | 11.4     | 14.8      | 12.1      | 23.3      | 35.5      | 29.9      | 38.5      | 24.1      | 42.1      | 27.8      | 29.7      | 28.5      | 26.7      | 31.2      |
| Study   | 75.0     | 62.5      | 36.4      | 65.0      | 55.6      | 65.2      | 50.0      | 76.2      | 60.0      | 51.9      | 60.6      | 62.9      | 64.3      | 55.8      |
| Employment  | 25.0     | 37.5      | 63.6      | 35.0      | 40.7      | 34.8      | 50.0      | 23.8      | 37.8      | 48.1      | 39.4      | 34.3      | 32.1      | 41.9      |
| Unknown   | 0.0      | 0.0       | 0.0       | 0.0       | 3.7       | 0.0       | 0.0       | 0.0       | 2.2       | 0.0       | 0.0       | 2.9       | 3.6       | 2.3       |
| Non-U.S.  | 68.6     | 70.4      | 60.4      | 54.7      | 44.7      | 49.4      | 47.1      | 59.8      | 49.5      | 70.1      | 67.6      | 65.9      | 72.4      | 65.9      |
| Unknown location  | 20.0     | 14.8      | 27.5      | 22.1      | 19.7      | 20.8      | 14.4      | 16.1      | 8.4       | 2.1       | 2.7       | 5.7       | 1.0       | 2.9       |
| <b>Number planning location in the United States after Ph.D.<sup>2</sup>:</b> | <b>5</b> | <b>10</b> | <b>20</b> | <b>24</b> | <b>31</b> | <b>29</b> | <b>50</b> | <b>34</b> | <b>58</b> | <b>39</b> | <b>54</b> | <b>49</b> | <b>45</b> | <b>59</b> |
| Percent with definite postdoctoral study <sup>4</sup>                         | D        | 50.0      | 25.0      | 54.2      | 38.7      | 31.0      | 38.0      | 35.3      | 37.9      | 25.6      | 29.6      | 36.7      | 42.2      | 27.1      |
| Percent with definite employment <sup>4</sup>                                 | D        | 40.0      | 65.0      | 37.5      | 38.7      | 41.4      | 46.0      | 26.5      | 37.9      | 30.8      | 25.9      | 22.4      | 15.6      | 27.1      |
| Percent seeking postdoctoral study <sup>4</sup>                               | D        | 10.0      | 10.0      | 8.3       | 12.9      | 20.7      | 14.0      | 32.4      | 12.1      | 12.8      | 25.9      | 16.3      | 13.3      | 22.0      |
| Percent seeking employment <sup>4</sup>                                       | D        | 0.0       | 0.0       | 0.0       | 6.5       | 3.4       | 2.0       | 5.9       | 10.3      | 28.2      | 18.5      | 20.4      | 26.7      | 20.3      |
| Percent with postdoctoral plans unknown <sup>4</sup>                          | D        | 0.0       | 0.0       | 0.0       | 3.2       | 3.4       | 0.0       | 0.0       | 1.7       | 2.6       |           | 4.1       | 2.2       | 3.4       |
| <b>Number with definite employment plans in United States after Ph.D.:</b>    | <b>1</b> | <b>4</b>  | <b>13</b> | <b>9</b>  | <b>12</b> | <b>12</b> | <b>23</b> | <b>9</b>  | <b>22</b> | <b>12</b> | <b>14</b> | <b>11</b> | <b>7</b>  | <b>16</b> |
| Primary work activity <sup>2</sup> : percent                                  |          |           |           |           |           |           |           |           |           |           |           |           |           |           |
| R&D   | D        | D         | 38.5      | 55.6      | 58.3      | 58.3      | 56.5      | 66.7      | 31.8      | 75.0      | 57.1      | 54.5      | 57.1      | 43.8      |
| Teaching  | D        | D         | 46.2      | 44.4      | 25.0      | 16.7      | 30.4      | 33.3      | 40.9      | 0.0       | 14.3      | 27.3      | 14.3      | 43.8      |
| Administrative  | D        | D         | 0.0       | 0.0       | 8.3       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 7.1       | 9.1       | 0.0       | 0.0       |
| Professional services   | D        | D         | 7.7       | 0.0       | 0.0       | 25.0      | 0.0       | 0.0       | 18.2      | 8.3       | 7.1       | 0.0       | 14.3      | 0.0       |
| Other   | D        | D         | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 4.5       | 0.0       | 0.0       | 0.0       | 14.3      | 6.3       |
| Unknown   | D        | D         | 7.7       | 0.0       | 8.3       | 0.0       | 13.0      | 0.0       | 4.5       | 16.7      | 14.3      | 9.1       | 0.0       | 6.3       |
| Type of employer: percent <sup>2</sup>  |          |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Educational institution <sup>5</sup>  | D        | D         | 53.8      | 77.8      | 58.3      | 58.3      | 52.2      | 55.6      | 54.5      | 41.7      | 50.0      | 36.4      | 28.6      | 50.0      |
| Industry/business   | D        | D         | 46.2      | 22.2      | 25.0      | 41.7      | 39.1      | 33.3      | 31.8      | 41.7      | 35.7      | 54.5      | 71.4      | 25.0      |
| Government  | D        | D         | 0.0       | 0.0       | 0.0       | 0.0       | 4.3       | 11.1      | 9.1       | 16.7      | 0.0       | 0.0       | 0.0       | 6.3       |
| Nonprofit   | D        | D         | 0.0       | 0.0       | 16.7      | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 9.1       | 0.0       | 0.0       |
| Other and unknown   | D        | D         | 0.0       | 0.0       | 0.0       | 0.0       | 4.3       | 0.0       | 4.5       | 0.0       | 14.3      | 0.0       | 0.0       | 18.8      |

D = data withheld to avoid potential disclosure of confidential information.

<sup>1</sup> This table includes all citizens of Mexico who indicated a visa status (permanent or temporary visa). Those with unknown visa status are not included.<sup>2</sup> Sciences and engineering Ph.D.s only.<sup>3</sup> 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. "Personal" includes a recipient's own earnings, family support, and loans. Federal research assistants are aggregated with university research assistants.<sup>4</sup> Includes only those Ph.D. recipients intending to remain in the United States after graduation.<sup>5</sup> Includes 2-year and 4-year colleges and universities, medical schools, and elementary/secondary schools.**SOURCE:** National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*.

Table B-25. Statistical profile of doctorate recipients from Scandinavia, by year of Ph.D.: 1975, 1980, 1985-96

Page 1 of 2

| Item   | 1975      | 1980      | 1985      | 1986      | 1987      | 1988      | 1989      | 1990      | 1991      | 1992      | 1993      | 1994      | 1995       | 1996       |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|
| <b>Total number of Ph.D.s<sup>2</sup></b> .....              | <b>56</b> | <b>48</b> | <b>42</b> | <b>57</b> | <b>71</b> | <b>66</b> | <b>66</b> | <b>92</b> | <b>85</b> | <b>95</b> | <b>93</b> | <b>99</b> | <b>111</b> | <b>116</b> |
| Percent men.....   | 87.5      | 75.0      | 73.8      | 73.7      | 71.8      | 72.7      | 66.7      | 71.7      | 63.5      | 60.0      | 72.0      | 62.6      | 70.3       | 53.4       |
| Percent women.....   | 12.5      | 25.0      | 26.2      | 26.3      | 28.2      | 27.3      | 33.3      | 28.3      | 36.5      | 40.0      | 28.0      | 37.4      | 29.7       | 46.6       |
| Percent with permanent visa.....                             | 17.9      | 20.8      | 21.4      | 28.1      | 14.1      | 22.7      | 13.6      | 18.5      | 31.8      | 24.2      | 22.6      | 22.2      | 26.1       | 30.2       |
| Percent with temporary visa.....                             | 82.1      | 79.2      | 78.6      | 71.9      | 85.9      | 77.3      | 86.4      | 81.5      | 68.2      | 75.8      | 77.4      | 77.8      | 73.9       | 69.8       |
| Percent married.....   | 58.9      | 60.4      | 57.1      | 56.1      | 53.5      | 57.6      | 68.2      | 51.1      | 52.9      | 49.5      | 47.3      | 48.5      | 48.6       | 46.6       |
| Percent not married.....                                     | 37.5      | 35.4      | 40.5      | 38.6      | 43.7      | 39.4      | 28.8      | 44.6      | 37.6      | 45.3      | 48.4      | 41.4      | 45.0       | 43.1       |
| Percent unknown.....   | 3.6       | 4.2       | 2.4       | 5.3       | 2.8       | 3.0       | 3.0       | 4.3       | 9.4       | 5.3       | 4.3       | 10.1      | 6.3        | 10.3       |
| Median age at Ph.D. in years <sup>3</sup> .....              | 31.1      | 31.3      | 31.6      | 31.6      | 30.5      | 32.3      | 30.9      | 32.3      | 31.5      | 32.0      | 32.2      | 31.5      | 31.5       | 31.6       |
| Percent with dependents.....                                 | 42.9      | 50.0      | 50.0      | 38.6      | 38.0      | 40.9      | 40.9      | 40.2      | 40.0      | 35.8      | 31.2      | 39.4      | 37.8       | 32.8       |
| Percent receiving sources of support: percent <sup>3,4</sup> |           |           |           |           |           |           |           |           |           |           |           |           |            |            |
| Personal.....  | 51.2      | 52.8      | 60.0      | 60.0      | 53.8      | 42.0      | 50.9      | 50.7      | 57.6      | 59.4      | 57.3      | 50.8      | 48.2       | 69.8       |
| Foreign government.....                                      | 0.0       | 0.0       | 0.0       | 0.0       | 26.9      | 18.0      | 22.6      | 30.4      | 42.4      | 33.3      | 26.7      | 34.4      | 49.4       | 40.7       |
| University.....  | 87.8      | 88.9      | 90.0      | 91.1      | 92.3      | 86.0      | 92.5      | 81.2      | 83.3      | 85.5      | 88.0      | 78.7      | 92.8       | 86.0       |
| Teaching assistant.....                                      | 46.3      | 58.3      | 50.0      | 60.0      | 55.8      | 40.0      | 52.8      | 44.9      | 42.4      | 46.4      | 53.3      | 42.6      | 50.6       | 61.6       |
| Research assistant.....                                      | 65.9      | 63.9      | 70.0      | 62.2      | 71.2      | 62.0      | 69.8      | 55.1      | 65.2      | 62.3      | 64.0      | 65.6      | 71.1       | 73.3       |
| Other university.....  | 34.1      | 25.0      | 30.0      | 26.7      | 34.6      | 34.0      | 30.2      | 31.9      | 19.7      | 13.0      | 21.3      | 16.4      | 27.7       | 34.9       |
| Other.....   | 39.0      | 44.4      | 56.7      | 37.8      | 28.8      | 24.0      | 32.1      | 33.3      | 33.3      | 30.4      | 25.3      | 41.0      | 25.3       | 36.0       |
| Unknown.....   | 0.0       | 2.8       | 0.0       | 4.4       | 5.8       | 8.0       | 3.8       | 5.8       | 6.1       | 4.3       | 4.0       | 0.0       | 1.2        | 10.5       |
| Median years from baccalaureate to Ph.D.                     |           |           |           |           |           |           |           |           |           |           |           |           |            |            |
| Total time: in years.....                                    | 7.1       | 7.6       | 7.8       | 7.6       | 7.3       | 7.5       | 8.0       | 7.9       | 8.3       | 8.0       | 8.4       | 7.6       | 7.7        | 9.0        |
| Registered time: in years.....                               | 5.3       | 5.5       | 6.4       | 6.0       | 6.2       | 6.0       | 5.8       | 6.0       | 7.0       | 6.2       | 6.6       | 6.7       | 6.6        | 6.9        |
| Sciences & Engineering: percent.....                         | 73.2      | 75.0      | 71.4      | 78.9      | 73.2      | 75.8      | 80.3      | 75.0      | 77.6      | 72.6      | 80.6      | 61.6      | 74.8       | 74.1       |
| Physical Sciences.....                                       | 7.3       | 22.2      | 23.3      | 17.8      | 19.2      | 18.0      | 18.9      | 17.4      | 15.2      | 18.8      | 13.3      | 16.4      | 8.4        | 18.6       |
| Earth, Atmospheric, and Ocean sciences.....                  | 12.2      | 5.6       | 16.7      | 6.7       | 3.8       | 8.0       | 5.7       | 10.1      | 4.5       | 5.8       | 10.7      | 4.9       | 6.0        | 3.5        |
| Mathematics.....   | 26.8      | 11.1      | 10.0      | 8.9       | 15.4      | 10.0      | 15.1      | 4.3       | 9.1       | 7.2       | 8.0       | 3.3       | 7.2        | 3.5        |
| Computer/Information sciences.....                           | 0.0       | 8.3       | 6.7       | 8.9       | 3.8       | 2.0       | 3.8       | 1.4       | 9.1       | 0.0       | 4.0       | 9.8       | 10.8       | 5.8        |
| Engineering.....   | 17.1      | 16.7      | 23.3      | 8.9       | 26.9      | 18.0      | 18.9      | 18.8      | 10.6      | 18.8      | 16.0      | 26.2      | 25.3       | 12.8       |
| Biological sciences.....                                     | 4.9       | 5.6       | 3.3       | 13.3      | 7.7       | 14.0      | 9.4       | 17.4      | 15.2      | 14.5      | 12.0      | 11.5      | 20.5       | 17.4       |
| Agricultural sciences.....                                   | 12.2      | 5.6       | 3.3       | 4.4       | 0.0       | 10.0      | 11.3      | 2.9       | 9.1       | 7.2       | 1.3       | 1.6       | 2.4        | 4.7        |
| Psychology and social sciences.....                          | 19.5      | 25.0      | 13.3      | 31.1      | 23.1      | 20.0      | 17.0      | 27.5      | 27.3      | 27.5      | 34.7      | 26.2      | 19.3       | 33.7       |
| Non-sciences and Engineering: percent.....                   | 26.8      | 25.0      | 28.6      | 21.1      | 26.8      | 24.2      | 19.7      | 25.0      | 22.4      | 27.4      | 19.4      | 38.4      | 25.2       | 25.9       |
| Humanities.....  | 26.7      | 25.0      | 41.7      | 58.3      | 31.6      | 37.5      | 38.5      | 26.1      | 42.1      | 65.4      | 38.9      | 42.1      | 39.3       | 46.7       |
| Education.....   | 33.3      | 25.0      | 33.3      | 8.3       | 15.8      | 12.5      | 30.8      | 21.7      | 21.1      | 15.4      | 33.3      | 23.7      | 14.3       | 10.0       |
| Health sciences.....   | 0.0       | 16.7      | 0.0       | 8.3       | 10.5      | 12.5      | 0.0       | 21.7      | 5.3       | 7.7       | 11.1      | 10.5      | 14.3       | 6.7        |
| Professional and other fields.....                           | 40.0      | 33.3      | 25.0      | 25.0      | 42.1      | 37.5      | 30.8      | 30.4      | 31.6      | 11.5      | 16.7      | 23.7      | 32.1       | 36.7       |
| <b>Planned location after Ph.D.<sup>3</sup></b> .....        | <b>6</b>  | <b>9</b>  | <b>2</b>  | <b>11</b> | <b>7</b>  | <b>11</b> | <b>8</b>  | <b>11</b> | <b>16</b> | <b>11</b> | <b>13</b> | <b>12</b> | <b>20</b>  | <b>26</b>  |
| Number with permanent visas.....                             | 62.5      | 66.7      | 100.0     | 63.6      | 100.0     | 72.7      | 50.0      | 72.7      | 81.3      | 63.6      | 84.6      | 83.3      | 80.0       | 73.1       |
| U. S. total: percent.....                                    | 0.0       | 16.7      | 50.0      | 42.9      | 57.1      | 25.0      | 100.0     | 62.5      | 23.1      | 0.0       | 45.5      | 40.0      | 37.5       | 42.1       |
| Study.....   | 100.0     | 83.3      | 50.0      | 57.1      | 42.9      | 75.0      | 0.0       | 37.5      | 76.9      | 100.0     | 54.5      | 60.0      | 62.5       | 47.4       |
| Employment.....  | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0        | 10.5       |
| Unknown.....   | 25.0      | 11.1      | 0.0       | 9.1       | 0.0       | 18.2      | 16.7      | 9.1       | 6.3       | 27.3      | 7.7       | 16.7      | 20.0       | 15.4       |
| Non-U.S.....   | 12.5      | 22.2      | 0.0       | 27.3      | 0.0       | 9.1       | 33.3      | 18.2      | 12.5      | 9.1       | 7.7       | 0.0       | 0.0        | 11.5       |
| Unknown location.....  | 33.0      | 27.0      | 28.0      | 34.0      | 45.0      | 39.0      | 47.0      | 58.0      | 50.0      | 58.0      | 62.0      | 49.0      | 63.0       | 60.0       |

See explanatory information, if any, and SOURCE at end of table.

Table B-25. Statistical profile of doctorate recipients from Scandinavia<sup>1</sup>, by year of Ph.D.: 1975, 1980, 1985-96

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| Item  | 1975      | 1980      | 1985      | 1986      | 1987      | 1988      | 1989      | 1990      | 1991      | 1992      | 1993      | 1994      | 1995      | 1996      |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Number with temporary visas:.....   | 24        | 41        | 54        | 29        | 27        | 18        | 43        | 35        | 34        | 41        | 39        | 29        | 49        | 40        |
| U. S. total: percent.....   | 50.0      | 63.6      | 53.3      | 50.0      | 66.7      | 71.4      | 65.0      | 70.0      | 52.9      | 54.2      | 50.0      | 50.0      | 51.6      | 62.5      |
| Study.....  | 50.0      | 36.4      | 46.7      | 50.0      | 33.3      | 28.6      | 35.0      | 30.0      | 47.1      | 45.8      | 50.0      | 50.0      | 48.4      | 29.2      |
| Employment.....   | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 8.3       |
| Unknown.....  | 54.5      | 37.0      | 28.6      | 55.9      | 46.7      | 43.6      | 31.9      | 53.4      | 52.0      | 55.2      | 56.5      | 69.4      | 49.2      | 51.7      |
| Non-U.S.....  | 21.2      | 22.2      | 17.9      | 14.7      | 26.7      | 38.5      | 25.5      | 12.1      | 14.0      | 3.4       | 4.8       | 2.0       | 1.6       | 8.3       |
| Unknown location.....   |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| <b>Number planning location<br/>In the United States<br/>after Ph.D.<sup>3</sup>:</b> | <b>13</b> | <b>17</b> | <b>17</b> | <b>17</b> | <b>19</b> | <b>15</b> | <b>23</b> | <b>28</b> | <b>30</b> | <b>31</b> | <b>35</b> | <b>24</b> | <b>47</b> | <b>43</b> |
| Percent with definite postdoctoral study <sup>5</sup> .....                           | 23.1      | 35.3      | 47.1      | 41.2      | 52.6      | 40.0      | 43.5      | 46.4      | 33.3      | 32.3      | 28.6      | 33.3      | 36.2      | 27.9      |
| Percent with definite employment <sup>5</sup> .....                                   | 69.2      | 52.9      | 47.1      | 52.9      | 31.6      | 53.3      | 30.4      | 32.1      | 46.7      | 41.9      | 28.6      | 33.3      | 44.7      | 20.9      |
| Percent seeking postdoctoral study <sup>5</sup> .....                                 | 7.7       | 11.8      | 5.9       | 5.9       | 10.5      | 6.7       | 26.1      | 21.4      | 6.7       | 9.7       | 20.0      | 12.5      | 10.6      | 25.6      |
| Percent seeking employment <sup>5</sup> .....   | 0.0       | 0.0       | 0.0       | 0.0       | 5.3       | 0.0       | 0.0       | 0.0       | 13.3      | 16.1      | 22.9      | 20.8      | 8.5       | 16.3      |
| Percent with postdoctoral plans unknown <sup>5</sup> .....                            | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 9.3       |
| <b>Number with definite employment plans in<br/>United States<br/>after Ph.D.:</b>    | <b>9</b>  | <b>9</b>  | <b>8</b>  | <b>9</b>  | <b>6</b>  | <b>8</b>  | <b>7</b>  | <b>9</b>  | <b>14</b> | <b>13</b> | <b>10</b> | <b>8</b>  | <b>21</b> | <b>9</b>  |
| Primary work activity <sup>3</sup> : percent.....                                     |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| R&D.....  | 66.7      | 77.8      | 75.0      | 77.8      | 66.7      | 37.5      | 71.4      | 44.4      | 57.1      | 61.5      | 60.0      | 62.5      | 81.0      | 44.4      |
| Teaching.....   | 11.1      | 11.1      | 12.5      | 11.1      | 33.3      | 25.0      | 14.3      | 22.2      | 28.6      | 15.4      | 30.0      | 12.5      | 9.5       | 22.2      |
| Administrative.....   | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 14.3      | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       |
| Professional services.....  | 0.0       | 0.0       | 12.5      | 0.0       | 0.0       | 25.0      | 0.0       | 22.2      | 7.1       | 0.0       | 10.0      | 25.0      | 4.8       | 22.2      |
| Other.....  | 22.2      | 11.1      | 0.0       | 11.1      | 0.0       | 0.0       | 0.0       | 0.0       | 7.1       | 0.0       | 0.0       | 0.0       | 4.8       | 11.1      |
| Unknown.....  | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 12.5      | 0.0       | 11.1      | 0.0       | 23.1      | 0.0       | 0.0       | 0.0       | 0.0       |
| Type of employer: percent <sup>3</sup>  |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Educational institution <sup>6</sup> .....  | 55.6      | 33.3      | 62.5      | 66.7      | 83.3      | 37.5      | 71.4      | 44.4      | 71.4      | 76.9      | 60.0      | 25.0      | 23.8      | 66.7      |
| Industry/business.....  | 44.4      | 44.4      | 37.5      | 22.2      | 16.7      | 25.0      | 14.3      | 44.4      | 28.6      | 7.7       | 20.0      | 50.0      | 61.9      | 33.3      |
| Government.....   | 0.0       | 0.0       | 0.0       | 11.1      | 0.0       | 12.5      | 0.0       | 0.0       | 0.0       | 7.7       | 10.0      | 25.0      | 0.0       | 0.0       |
| Nonprofit.....  | 0.0       | 22.2      | 0.0       | 0.0       | 0.0       | 12.5      | 0.0       | 0.0       | 0.0       | 7.7       | 10.0      | 0.0       | 4.8       | 0.0       |
| Other and unknown.....  | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 12.5      | 14.3      | 11.1      | 0.0       | 0.0       | 0.0       | 0.0       | 9.5       | 0.0       |

<sup>1</sup> Includes Denmark, Finland, Iceland, Norway, Sweden, and unspecified Northern European countries.

<sup>2</sup> This table includes all citizens of Scandinavian countries who indicated a visa status (permanent or temporary visa). Those with unknown visa status are not included.

<sup>3</sup> Sciences and engineering Ph.D.s only.

<sup>4</sup> 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. "Personal" includes a recipient's own earnings, family support, and loans. Federal research assistants are aggregated with university research assistants.

<sup>5</sup> Includes only those Ph.D. recipients intending to remain in the United States after graduation.

<sup>6</sup> Includes 2-year and 4-year colleges and universities, medical schools, and elementary/secondary schools.

**SOURCE:** National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*.

Table B-26. Statistical profile of doctorate recipients from Taiwan, by year of Ph.D.: 1975, 1980, 1985-96

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| Item   | 1975       | 1980       | 1985       | 1986       | 1987       | 1988       | 1989       | 1990         | 1991         | 1992         | 1993         | 1994         | 1995         | 1996         |
|--|------------|------------|------------|------------|------------|------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>Total number of Ph.D.s<sup>1</sup></b> .....              | <b>550</b> | <b>455</b> | <b>833</b> | <b>798</b> | <b>873</b> | <b>912</b> | <b>977</b> | <b>1,149</b> | <b>1,321</b> | <b>1,431</b> | <b>1,456</b> | <b>1,578</b> | <b>1,485</b> | <b>1,398</b> |
| Percent men.....   | 89.5       | 86.2       | 86.2       | 85.9       | 85.0       | 84.6       | 81.0       | 80.3         | 81.0         | 79.4         | 78.0         | 77.4         | 75.2         | 74.3         |
| Percent women.....   | 10.5       | 13.8       | 13.8       | 14.1       | 15.0       | 15.4       | 19.0       | 19.7         | 19.0         | 20.6         | 22.0         | 22.6         | 24.9         | 25.8         |
| Percent with permanent visa.....                             | 45.3       | 34.3       | 21.0       | 20.4       | 19.7       | 18.0       | 16.7       | 14.4         | 13.6         | 14.5         | 13.1         | 13.8         | 13.0         | 11.8         |
| Percent with temporary visa.....                             | 54.7       | 65.7       | 79.0       | 79.6       | 80.3       | 82.0       | 83.3       | 85.6         | 86.5         | 85.5         | 87.0         | 86.2         | 87.0         | 88.2         |
| Percent married.....   | 80.9       | 73.4       | 71.5       | 76.0       | 75.3       | 75.0       | 74.7       | 69.6         | 71.3         | 71.1         | 68.4         | 67.0         | 64.9         | 63.8         |
| Percent not married.....                                     | 18.0       | 25.9       | 26.8       | 22.9       | 23.0       | 24.3       | 23.7       | 25.3         | 22.9         | 24.5         | 27.3         | 27.9         | 29.9         | 32.5         |
| Percent unknown.....   | 1.1        | 0.7        | 1.7        | 1.1        | 1.7        | 0.7        | 1.5        | 5.1          | 5.8          | 4.3          | 4.3          | 5.1          | 5.2          | 3.7          |
| Median age at Ph.D. in years <sup>2</sup> .....              | 30.5       | 30.7       | 31.8       | 31.9       | 32.0       | 32.2       | 32.5       | 32.5         | 32.6         | 32.8         | 32.3         | 32.5         | 32.7         | 32.7         |
| Percent with dependents.....                                 | 50.5       | 57.6       | 61.3       | 62.9       | 61.7       | 62.1       | 61.2       | 59.7         | 57.5         | 59.1         | 57.0         | 55.0         | 53.8         | 52.4         |
| Percent receiving sources of support: percent <sup>2,3</sup> |            |            |            |            |            |            |            |              |              |              |              |              |              |              |
| Personal.....  | 29.3       | 31.1       | 57.1       | 60.5       | 57.0       | 61.6       | 61.4       | 63.9         | 65.0         | 68.1         | 67.4         | 69.9         | 71.4         | 78.9         |
| Foreign government.....                                      | 0.0        | 0.0        | 0.0        | 0.0        | 5.8        | 8.7        | 9.6        | 9.3          | 8.3          | 9.6          | 7.4          | 6.5          | 7.5          | 6.6          |
| University.....  | 95.0       | 90.6       | 91.4       | 94.4       | 90.9       | 92.5       | 91.2       | 88.8         | 86.7         | 87.4         | 90.3         | 87.4         | 87.2         | 89.2         |
| Teaching assistant.....                                      | 55.8       | 51.3       | 47.2       | 52.9       | 51.0       | 55.2       | 50.9       | 47.3         | 45.5         | 45.7         | 46.6         | 41.9         | 41.1         | 47.9         |
| Research assistant.....                                      | 76.8       | 74.1       | 75.7       | 76.9       | 75.7       | 78.6       | 76.1       | 72.7         | 72.4         | 73.9         | 76.5         | 73.6         | 72.3         | 77.2         |
| Other university.....  | 24.3       | 20.7       | 19.0       | 18.3       | 16.2       | 13.5       | 14.4       | 11.1         | 9.3          | 9.4          | 11.3         | 9.2          | 9.2          | 18.7         |
| Other.....   | 17.2       | 15.8       | 10.5       | 9.5        | 7.2        | 3.6        | 5.3        | 5.4          | 4.3          | 4.1          | 5.4          | 4.4          | 4.4          | 6.8          |
| Unknown.....   | 0.6        | 1.6        | 2.0        | 0.6        | 2.0        | 1.4        | 1.9        | 4.2          | 4.4          | 3.6          | 2.7          | 4.5          | 3.7          | 4.1          |
| Median years from baccalaureate to Ph.D.                     |            |            |            |            |            |            |            |              |              |              |              |              |              |              |
| Total time: in years.....                                    | 7.9        | 8.4        | 9.2        | 9.3        | 9.5        | 9.7        | 10.0       | 10.0         | 10.1         | 10.2         | 10.0         | 10.0         | 10.1         | 10.1         |
| Registered time: in years.....                               | 5.7        | 5.7        | 6.2        | 6.2        | 6.1        | 6.2        | 6.3        | 6.3          | 6.3          | 6.4          | 6.5          | 6.3          | 6.5          | 6.5          |
| Sciences & Engineering: percent.....                         | 94.2       | 93.4       | 89.6       | 89.1       | 90.5       | 86.2       | 87.7       | 88.1         | 85.3         | 86.8         | 83.3         | 82.6         | 83.5         | 82.2         |
| Physical Sciences.....                                       | 27.6       | 23.5       | 15.3       | 19.2       | 16.8       | 13.2       | 15.6       | 14.1         | 11.9         | 10.8         | 11.6         | 10.2         | 12.3         | 9.7          |
| Earth, Atmospheric, and Ocean sciences.....                  | 1.5        | 4.7        | 3.6        | 1.8        | 2.8        | 1.5        | 2.2        | 1.5          | 1.4          | 1.8          | 2.1          | 1.8          | 1.9          | 1.9          |
| Mathematics.....   | 9.1        | 7.8        | 4.0        | 5.1        | 3.5        | 3.9        | 3.5        | 5.3          | 4.0          | 3.7          | 3.6          | 4.2          | 2.7          | 3.3          |
| Computer/Information sciences.....                           | 0.0        | 1.4        | 2.4        | 4.1        | 3.4        | 6.2        | 4.0        | 6.9          | 5.9          | 6.3          | 6.7          | 5.5          | 5.9          | 5.8          |
| Engineering.....   | 37.8       | 40.5       | 51.9       | 49.5       | 50.3       | 50.9       | 49.8       | 47.0         | 53.0         | 51.3         | 48.8         | 51.5         | 49.7         | 49.8         |
| Biological sciences.....                                     | 11.2       | 12.9       | 10.9       | 8.6        | 11.8       | 12.1       | 11.8       | 13.4         | 10.4         | 13.6         | 14.6         | 14.2         | 13.6         | 15.1         |
| Agricultural sciences.....                                   | 7.3        | 3.3        | 3.4        | 3.9        | 4.2        | 3.4        | 3.9        | 4.0          | 3.7          | 4.4          | 3.7          | 3.2          | 4.2          | 4.3          |
| Psychology and social sciences.....                          | 5.4        | 5.9        | 8.6        | 7.8        | 7.2        | 8.7        | 9.2        | 7.7          | 9.7          | 8.1          | 8.8          | 9.4          | 9.8          | 10.1         |
| Non-sciences and Engineering: percent.....                   | 5.8        | 6.6        | 10.4       | 10.9       | 9.5        | 13.8       | 12.3       | 11.9         | 14.7         | 13.2         | 16.7         | 17.5         | 16.5         | 17.8         |
| Humanities.....  | 28.1       | 23.3       | 8.0        | 12.6       | 13.3       | 11.1       | 9.2        | 11.0         | 15.5         | 10.1         | 14.0         | 12.0         | 17.1         | 16.1         |
| Education.....   | 21.9       | 26.7       | 34.5       | 37.9       | 32.5       | 31.7       | 36.7       | 46.0         | 44.9         | 49.2         | 44.9         | 41.5         | 39.6         | 42.6         |
| Health sciences.....   | 25.0       | 30.0       | 27.6       | 13.8       | 15.7       | 11.9       | 14.2       | 13.9         | 10.3         | 12.2         | 12.4         | 17.5         | 20.4         | 16.9         |
| Professional and other fields.....                           | 25.0       | 20.0       | 29.9       | 35.6       | 38.6       | 45.2       | 40.0       | 29.2         | 29.4         | 28.6         | 28.8         | 29.1         | 22.9         | 24.5         |
| <b>Planned location after Ph.D.<sup>2</sup></b>              |            |            |            |            |            |            |            |              |              |              |              |              |              |              |
| Number with permanent visas.....                             | 227        | 144        | 159        | 144        | 150        | 136        | 142        | 147          | 160          | 172          | 155          | 178          | 165          | 136          |
| U. S. total: percent.....                                    | 64.3       | 72.9       | 64.8       | 61.1       | 50.7       | 64.0       | 64.1       | 65.3         | 82.5         | 80.8         | 76.8         | 69.1         | 82.4         | 82.4         |
| Study.....   | 39.0       | 31.4       | 25.2       | 25.0       | 42.1       | 39.1       | 38.5       | 30.2         | 28.8         | 25.9         | 33.6         | 31.7         | 32.4         | 33.0         |
| Employment.....  | 59.6       | 68.6       | 74.8       | 75.0       | 57.9       | 59.8       | 61.5       | 68.8         | 70.5         | 69.8         | 64.7         | 65.9         | 65.4         | 66.1         |
| Unknown.....   | 1.4        | 0.0        | 0.0        | 0.0        | 0.0        | 1.1        | 0.0        | 1.0          | 0.8          | 4.3          | 1.7          | 2.4          | 2.2          | 0.9          |
| Non-U.S.....   | 3.1        | 1.4        | 2.5        | 4.2        | 5.3        | 5.1        | 2.8        | 12.2         | 6.9          | 15.1         | 16.1         | 25.3         | 15.2         | 16.2         |
| Unknown location.....  | 32.6       | 25.7       | 32.7       | 34.7       | 44.0       | 30.9       | 33.1       | 22.5         | 10.6         | 4.1          | 7.1          | 5.6          | 2.4          | 1.5          |

See explanatory information, if any, and SOURCE at end of table.

Table B-26. Statistical profile of doctorate recipients from Taiwan, by year of Ph.D.: 1975, 1980, 1985-96

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| Item  | 1975       | 1980       | 1985       | 1986       | 1987       | 1988       | 1989       | 1990       | 1991       | 1992       | 1993       | 1994       | 1995       | 1996       |
|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>Number with temporary visas:</b> .....                                     | 291        | 281        | 587        | 565        | 640        | 650        | 715        | 865        | 967        | 1,070      | 1,058      | 1,123      | 1,075      | 1,013      |
| U. S. total: percent.....   | 44.7       | 58.4       | 46.8       | 48.9       | 45.5       | 41.8       | 39.3       | 41.0       | 46.4       | 46.9       | 38.9       | 41.9       | 44.6       | 47.8       |
| Study.....  | 66.2       | 47.0       | 50.9       | 54.7       | 59.5       | 57.7       | 56.2       | 44.5       | 40.1       | 47.6       | 55.7       | 51.7       | 50.3       | 44.4       |
| Employment.....   | 32.3       | 53.0       | 48.4       | 44.2       | 40.2       | 41.5       | 43.1       | 53.8       | 58.6       | 50.8       | 42.1       | 46.0       | 47.0       | 53.1       |
| Unknown.....  | 1.5        | 0.0        | 0.7        | 1.1        | 0.3        | 0.7        | 0.7        | 1.7        | 1.3        | 1.6        | 2.2        | 2.3        | 2.7        | 2.5        |
| Non-U.S.....  | 22.3       | 19.6       | 20.6       | 18.2       | 19.2       | 20.8       | 22.1       | 34.0       | 41.0       | 45.3       | 55.4       | 53.2       | 50.3       | 47.3       |
| Unknown location.....   | 33.0       | 22.1       | 32.5       | 32.9       | 35.3       | 37.4       | 38.6       | 25.0       | 12.6       | 7.8        | 5.8        | 5.0        | 5.1        | 4.9        |
| <b>Number planning location in the United States after Ph.D.<sup>2</sup>:</b> | <b>276</b> | <b>289</b> | <b>378</b> | <b>364</b> | <b>387</b> | <b>359</b> | <b>372</b> | <b>451</b> | <b>581</b> | <b>641</b> | <b>530</b> | <b>593</b> | <b>615</b> | <b>598</b> |
| Percent with definite postdoctoral study <sup>4</sup> .....                   | 41.7       | 31.2       | 32.8       | 34.1       | 45.0       | 42.1       | 40.9       | 28.4       | 22.0       | 25.4       | 30.4       | 27.7       | 24.6       | 25.2       |
| Percent with definite employment <sup>4</sup> .....                           | 38.0       | 53.2       | 47.1       | 43.4       | 39.0       | 37.6       | 41.9       | 37.7       | 36.5       | 25.7       | 22.8       | 22.3       | 20.2       | 28.5       |
| Percent seeking postdoctoral study <sup>4</sup> .....                         | 10.1       | 9.7        | 11.1       | 13.5       | 10.9       | 11.1       | 11.0       | 13.1       | 15.5       | 17.5       | 20.4       | 19.9       | 21.8       | 17.1       |
| Percent seeking employment <sup>4</sup> .....                                 | 8.7        | 5.9        | 8.5        | 8.2        | 4.9        | 8.4        | 5.6        | 19.3       | 24.8       | 29.2       | 24.3       | 27.8       | 30.9       | 27.0       |
| Percent with postdoctoral plans unknown <sup>4</sup> .....                    | 1.4        | 0.0        | 0.5        | 0.8        | 0.3        | 0.8        | 0.5        | 1.6        | 1.2        | 2.2        | 2.1        | 2.4        | 2.6        | 2.2        |
| <b>Number with definite employment plans in United States after Ph.D.:</b>    | <b>105</b> | <b>143</b> | <b>178</b> | <b>158</b> | <b>143</b> | <b>135</b> | <b>156</b> | <b>170</b> | <b>212</b> | <b>185</b> | <b>121</b> | <b>132</b> | <b>124</b> | <b>170</b> |
| Primary work activity <sup>2</sup> : percent.....                             |            |            |            |            |            |            |            |            |            |            |            |            |            |            |
| R&D.....  | 70.5       | 77.6       | 76.4       | 70.9       | 76.2       | 74.1       | 73.7       | 68.2       | 70.3       | 67.9       | 73.6       | 68.2       | 74.2       | 81.2       |
| Teaching.....   | 11.4       | 13.3       | 12.9       | 15.8       | 12.6       | 15.6       | 16.7       | 12.9       | 10.4       | 9.7        | 11.6       | 11.4       | 7.3        | 4.7        |
| Administrative.....   | 0.0        | 1.4        | 0.0        | 0.0        | 0.7        | 0.7        | 0.0        | 0.6        | 0.5        | 0.6        | 0.8        | 1.5        | 1.6        | 0.0        |
| Professional services.....  | 15.2       | 3.5        | 5.1        | 5.1        | 4.9        | 5.2        | 7.1        | 9.4        | 7.1        | 7.9        | 5.0        | 6.8        | 10.5       | 8.2        |
| Other.....  | 0.0        | 0.0        | 0.0        | 0.0        | 0.7        | 0.7        | 0.6        | 0.0        | 0.5        | 1.2        | 0.8        | 1.5        | 1.6        | 1.2        |
| Unknown.....  | 2.9        | 4.2        | 5.6        | 8.2        | 4.9        | 3.7        | 1.9        | 8.8        | 11.3       | 12.7       | 8.3        | 10.6       | 4.8        | 4.7        |
| Type of employer: percent <sup>2</sup>  |            |            |            |            |            |            |            |            |            |            |            |            |            |            |
| Educational institution <sup>5</sup> .....                                    | 22.9       | 24.5       | 27.5       | 29.1       | 28.7       | 32.6       | 34.6       | 28.8       | 24.1       | 24.2       | 26.5       | 24.2       | 13.7       | 14.7       |
| Industry/business.....  | 67.6       | 71.3       | 66.9       | 65.8       | 65.0       | 63.7       | 61.5       | 68.2       | 70.3       | 69.7       | 67.8       | 68.9       | 79.0       | 81.8       |
| Government.....   | 4.8        | 3.5        | 2.2        | 1.3        | 4.2        | 2.2        | 1.9        | 1.2        | 2.4        | 1.8        | 3.3        | 3.0        | 2.4        | 1.2        |
| Nonprofit.....  | 2.9        | 0.0        | 1.7        | 3.8        | 0.7        | 0.7        | 1.9        | 1.8        | 2.4        | 3.0        | 1.7        | 2.3        | 2.4        | 1.8        |
| Other and unknown.....  | 1.9        | 0.7        | 1.7        | 0.0        | 1.4        | 0.7        | 0.0        | 0.0        | 0.9        | 1.2        | 0.8        | 1.5        | 2.4        | 7.0        |

<sup>1</sup>This table includes all citizens of Taiwan who indicated a visa status (permanent or temporary visa). Those with unknown visa status are not included.

<sup>2</sup>Sciences and engineering Ph.D.s only.

<sup>3</sup>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. "Personal" includes a recipient's own earnings, family support, and loans. Federal research assistants are aggregated with university research assistants.

<sup>4</sup>Includes only those Ph.D. recipients intending to remain in the United States after graduation.

<sup>5</sup>Includes 2-year and 4-year colleges and universities, medical schools, and elementary/secondary schools.

**SOURCE:** National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*.



Table B-27. Statistical profile of doctorate recipients from United Kingdom<sup>1</sup>, by year of Ph.D.: 1975, 1980, 1985-96

Page 1 of 2

| Item   | 1975       | 1980       | 1985       | 1986       | 1987       | 1988       | 1989       | 1990       | 1991       | 1992       | 1993       | 1994       | 1995       | 1996       |
|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>Total number of Ph.D.s<sup>2</sup></b> .....              | <b>178</b> | <b>129</b> | <b>165</b> | <b>128</b> | <b>158</b> | <b>176</b> | <b>161</b> | <b>172</b> | <b>207</b> | <b>216</b> | <b>230</b> | <b>219</b> | <b>222</b> | <b>205</b> |
| Percent men.....   | 84.3       | 79.1       | 61.2       | 68.8       | 71.5       | 64.2       | 65.2       | 72.1       | 69.1       | 64.4       | 73.5       | 70.8       | 69.8       | 57.6       |
| Percent women.....   | 15.7       | 20.9       | 38.8       | 31.3       | 28.5       | 35.8       | 34.8       | 27.9       | 30.9       | 35.6       | 26.5       | 29.2       | 30.2       | 42.4       |
| Percent with permanent visa.....                             | 38.2       | 41.9       | 41.2       | 38.3       | 34.8       | 42.6       | 41.0       | 44.2       | 44.4       | 41.2       | 38.3       | 42.5       | 40.1       | 49.3       |
| Percent with temporary visa.....                             | 61.8       | 58.1       | 58.8       | 61.7       | 65.2       | 57.4       | 59.0       | 55.8       | 55.6       | 58.8       | 61.7       | 57.5       | 59.9       | 50.7       |
| Percent married.....   | 59.6       | 58.1       | 52.7       | 46.9       | 48.1       | 39.8       | 49.7       | 47.7       | 50.7       | 41.7       | 42.6       | 42.0       | 40.5       | 46.3       |
| Percent not married.....                                     | 39.9       | 40.3       | 44.2       | 51.6       | 49.4       | 58.5       | 48.4       | 44.8       | 41.5       | 52.3       | 51.7       | 53.0       | 50.0       | 46.8       |
| Percent unknown.....   | 0.6        | 1.6        | 3.0        | 1.6        | 2.5        | 1.7        | 1.9        | 7.6        | 7.7        | 6.0        | 5.7        | 5.0        | 9.5        | 6.8        |
| Median age at Ph.D. in years <sup>3</sup> .....              | 29.3       | 29.2       | 30.3       | 29.2       | 28.6       | 29.2       | 29.8       | 29.4       | 30.4       | 30.5       | 29.3       | 29.4       | 30.8       | 31.2       |
| Percent with dependents.....                                 | 29.8       | 34.1       | 29.7       | 23.4       | 27.8       | 25.0       | 25.5       | 30.2       | 32.4       | 23.1       | 22.6       | 23.3       | 19.4       | 26.8       |
| Percent receiving sources of support: percent <sup>3,4</sup> |            |            |            |            |            |            |            |            |            |            |            |            |            |            |
| Personal.....  | 37.3       | 49.4       | 60.2       | 56.3       | 46.9       | 48.3       | 52.6       | 51.0       | 50.7       | 49.6       | 48.4       | 51.9       | 47.0       | 61.0       |
| Foreign government.....                                      | 0.0        | 0.0        | 0.0        | 0.0        | 2.1        | 3.4        | 3.1        | 2.9        | 3.0        | 2.9        | 3.2        | 2.3        | 1.5        | 0.0        |
| University.....  | 91.5       | 94.4       | 82.5       | 92.5       | 91.7       | 95.8       | 92.8       | 87.5       | 92.5       | 91.4       | 95.5       | 95.4       | 90.3       | 89.0       |
| Teaching assistant.....                                      | 61.0       | 59.6       | 60.2       | 57.5       | 61.5       | 66.9       | 67.0       | 64.4       | 64.2       | 63.3       | 70.1       | 60.3       | 53.7       | 72.9       |
| Research assistant.....                                      | 61.0       | 66.3       | 51.5       | 60.0       | 68.8       | 69.5       | 72.2       | 67.3       | 65.7       | 59.7       | 74.5       | 64.9       | 65.7       | 61.0       |
| Other university.....  | 40.7       | 32.6       | 35.9       | 30.0       | 31.3       | 33.1       | 30.9       | 33.7       | 24.6       | 38.8       | 35.7       | 29.8       | 27.6       | 40.7       |
| Other.....   | 29.7       | 21.3       | 25.2       | 28.8       | 11.5       | 22.0       | 17.5       | 12.5       | 14.9       | 17.3       | 16.6       | 13.7       | 9.0        | 20.3       |
| Unknown.....   | 0.8        | 2.2        | 1.9        | 0.0        | 2.1        | 0.0        | 2.1        | 4.8        | 4.5        | 3.6        | 0.6        | 1.5        | 5.2        | 3.4        |
| Median years from baccalaureate to Ph.D.                     |            |            |            |            |            |            |            |            |            |            |            |            |            |            |
| Total time: in years.....                                    | 6.9        | 7.3        | 8.1        | 8.0        | 7.8        | 7.8        | 8.3        | 7.8        | 8.8        | 8.2        | 8.0        | 8.3        | 9.0        | 9.1        |
| Registered time: in years.....                               | 5.4        | 5.5        | 5.9        | 5.9        | 6.1        | 6.3        | 6.1        | 6.2        | 6.5        | 6.5        | 6.3        | 6.5        | 6.8        | 7.0        |
| Sciences & Engineering: percent.....                         | 66.3       | 69.0       | 62.4       | 62.5       | 60.8       | 67.0       | 60.2       | 60.5       | 64.7       | 64.4       | 68.3       | 59.8       | 60.4       | 57.6       |
| Physical Sciences.....                                       | 15.3       | 13.5       | 22.3       | 13.8       | 19.8       | 16.9       | 14.4       | 17.3       | 24.6       | 17.3       | 22.3       | 21.4       | 20.9       | 11.9       |
| Earth, Atmospheric, and Ocean sciences.....                  | 4.2        | 4.5        | 4.9        | 7.5        | 7.3        | 7.6        | 7.2        | 3.8        | 3.7        | 1.4        | 5.7        | 3.8        | 1.5        | 8.5        |
| Mathematics.....   | 3.4        | 3.4        | 6.8        | 2.5        | 4.2        | 4.2        | 6.2        | 6.7        | 6.7        | 7.2        | 6.4        | 8.4        | 5.2        | 4.2        |
| Computer/Information sciences.....                           | 0.0        | 3.4        | 1.9        | 6.3        | 4.2        | 5.1        | 2.1        | 1.0        | 1.5        | 2.2        | 2.5        | 0.8        | 1.5        | 1.7        |
| Engineering.....   | 7.6        | 21.3       | 5.8        | 15.0       | 9.4        | 9.3        | 14.4       | 14.4       | 11.2       | 12.2       | 11.5       | 11.5       | 14.9       | 8.5        |
| Biological sciences.....                                     | 23.7       | 16.9       | 26.2       | 23.8       | 22.9       | 21.2       | 20.6       | 22.1       | 14.9       | 21.6       | 20.4       | 19.8       | 19.4       | 20.3       |
| Agricultural sciences.....                                   | 4.2        | 5.6        | 3.9        | 3.8        | 3.1        | 3.4        | 7.2        | 1.0        | 4.5        | 0.7        | 3.2        | 2.3        | 2.2        | 2.5        |
| Psychology and social sciences.....                          | 41.5       | 31.5       | 28.2       | 27.5       | 29.2       | 32.2       | 27.8       | 33.7       | 32.8       | 37.4       | 28.0       | 32.1       | 34.3       | 42.4       |
| Non-sciences and Engineering: percent.....                   | 33.7       | 31.0       | 37.6       | 37.5       | 39.2       | 33.0       | 39.8       | 39.5       | 35.3       | 35.6       | 31.7       | 40.2       | 39.6       | 42.4       |
| Humanities.....  | 53.3       | 32.5       | 43.5       | 45.8       | 53.2       | 60.3       | 48.4       | 60.3       | 52.1       | 59.7       | 60.3       | 64.8       | 69.3       | 60.9       |
| Education.....   | 28.3       | 42.5       | 35.5       | 25.0       | 24.2       | 24.1       | 25.0       | 25.0       | 23.3       | 22.1       | 19.2       | 13.6       | 14.8       | 29.9       |
| Health sciences.....   | 5.0        | 12.5       | 8.1        | 10.4       | 8.1        | 3.4        | 1.6        | 4.4        | 4.1        | 5.2        | 5.5        | 9.1        | 4.5        | 0.0        |
| Professional and other fields.....                           | 13.3       | 12.5       | 12.9       | 18.8       | 14.5       | 12.1       | 25.0       | 10.3       | 20.5       | 13.0       | 15.1       | 12.5       | 11.4       | 9.2        |
| <b>Planned location after Ph.D.<sup>3</sup></b>              |            |            |            |            |            |            |            |            |            |            |            |            |            |            |
| Number with permanent visas.....                             | 47         | 33         | 43         | 32         | 31         | 48         | 36         | 39         | 53         | 59         | 48         | 56         | 49         | 51         |
| U. S. total: percent.....                                    | 63.8       | 75.8       | 69.8       | 68.8       | 83.9       | 60.4       | 69.4       | 74.4       | 83.0       | 88.1       | 91.7       | 91.1       | 87.8       | 88.2       |
| Study.....   | 40.0       | 32.0       | 56.7       | 27.3       | 42.3       | 41.4       | 28.0       | 24.1       | 43.2       | 40.4       | 47.7       | 45.1       | 37.2       | 28.9       |
| Employment.....  | 60.0       | 68.0       | 43.3       | 72.7       | 57.7       | 58.6       | 72.0       | 75.9       | 52.3       | 55.8       | 52.3       | 54.9       | 60.5       | 71.1       |
| Unknown.....   | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 4.5        | 3.8        | 0.0        | 0.0        | 2.3        | 0.0        |
| Non-U.S.....   | 14.9       | 3.0        | 7.0        | 9.4        | 0.0        | 10.4       | 2.8        | 7.7        | 13.2       | 10.2       | 8.3        | 8.9        | 4.1        | 11.8       |
| Unknown location.....  | 21.3       | 21.2       | 23.3       | 21.9       | 16.1       | 29.2       | 27.8       | 17.9       | 3.8        | 1.7        | 0.0        | 0.0        | 8.2        | 0.0        |

See explanatory information, if any, and SOURCE at end of table.

Table B-27. Statistical profile of doctorate recipients from United Kingdom<sup>1</sup>, by year of Ph.D.: 1975, 1980, 1985-96

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| Item  | 1975      | 1980      | 1985      | 1986      | 1987      | 1988      | 1989      | 1990      | 1991      | 1992       | 1993       | 1994      | 1995       | 1996      |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|-----------|------------|-----------|
| Number with temporary visas:  | 71        | 56        | 60        | 48        | 65        | 70        | 61        | 65        | 81        | 80         | 109        | 75        | 85         | 67        |
| U. S. total: percent:   | 50.7      | 55.4      | 56.7      | 45.8      | 49.2      | 55.7      | 57.4      | 67.7      | 58.0      | 61.3       | 63.3       | 52.0      | 69.4       | 61.2      |
| Study:  | 47.2      | 45.2      | 52.9      | 63.6      | 56.3      | 61.5      | 54.3      | 56.8      | 55.3      | 57.1       | 52.2       | 53.8      | 45.8       | 56.1      |
| Employment:   | 50.0      | 54.8      | 44.1      | 36.4      | 43.8      | 38.5      | 45.7      | 43.2      | 42.6      | 42.9       | 46.4       | 43.6      | 50.8       | 41.5      |
| Unknown:  | 2.8       | 0.0       | 2.9       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 2.1       | 0.0        | 1.4        | 2.6       | 3.4        | 2.4       |
| Non-U.S.:   | 36.6      | 23.2      | 16.7      | 18.8      | 27.7      | 20.0      | 18.0      | 20.0      | 33.3      | 35.0       | 30.3       | 42.7      | 25.9       | 34.3      |
| Unknown location:   | 12.7      | 21.4      | 26.7      | 35.4      | 23.1      | 24.3      | 24.6      | 12.3      | 8.6       | 3.8        | 6.4        | 5.3       | 4.7        | 4.5       |
| <b>Number planning location in the United States after Ph.D.<sup>3</sup>:</b> | <b>66</b> | <b>58</b> | <b>64</b> | <b>44</b> | <b>58</b> | <b>68</b> | <b>60</b> | <b>73</b> | <b>91</b> | <b>101</b> | <b>113</b> | <b>90</b> | <b>102</b> | <b>86</b> |
| Percent with definite postdoctoral study <sup>5</sup> :                       | 40.9      | 32.1      | 42.2      | 43.2      | 39.7      | 50.0      | 40.0      | 31.5      | 40.7      | 40.6       | 43.4       | 34.4      | 34.3       | 32.6      |
| Percent with definite employment <sup>5</sup> :                               | 47.0      | 58.9      | 40.6      | 52.3      | 44.8      | 42.6      | 53.3      | 41.1      | 31.9      | 33.7       | 32.7       | 31.1      | 40.2       | 38.4      |
| Percent seeking postdoctoral study <sup>5</sup> :                             | 3.0       | 7.1       | 12.5      | 2.3       | 10.3      | 2.9       | 3.3       | 12.3      | 8.8       | 7.9        | 7.1        | 14.4      | 7.8        | 9.3       |
| Percent seeking employment <sup>5</sup> :                                     | 7.6       | 1.8       | 3.1       | 2.3       | 5.2       | 4.4       | 3.3       | 15.1      | 15.4      | 15.8       | 15.9       | 18.9      | 14.7       | 18.6      |
| Percent with postdoctoral plans unknown <sup>5</sup> :                        | 1.5       | 0.0       | 1.6       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 3.3       | 2.0        | 0.9        | 1.1       | 2.9        | 1.2       |
| <b>Number with definite employment plans in United States after Ph.D.:</b>    | <b>31</b> | <b>33</b> | <b>28</b> | <b>23</b> | <b>26</b> | <b>29</b> | <b>32</b> | <b>30</b> | <b>29</b> | <b>34</b>  | <b>37</b>  | <b>28</b> | <b>41</b>  | <b>33</b> |
| Primary work activity <sup>3</sup> : percent:                                 |           |           |           |           |           |           |           |           |           |            |            |           |            |           |
| R&D:  | 45.2      | 57.6      | 26.9      | 47.8      | 65.4      | 55.2      | 62.5      | 43.3      | 51.7      | 41.2       | 45.9       | 50.0      | 53.7       | 24.2      |
| Teaching:   | 41.9      | 27.3      | 53.8      | 17.4      | 23.1      | 24.1      | 25.0      | 43.3      | 27.6      | 20.6       | 29.7       | 35.7      | 22.0       | 57.6      |
| Administrative:   | 0.0       | 3.0       | 0.0       | 0.0       | 0.0       | 3.4       | 9.4       | 0.0       | 0.0       | 0.0        | 0.0        | 0.0       | 4.9        | 0.0       |
| Professional services:  | 3.2       | 12.1      | 15.4      | 13.0      | 7.7       | 13.8      | 3.1       | 3.3       | 10.3      | 14.7       | 5.4        | 3.6       | 9.8        | 15.2      |
| Other:  | 0.0       | 0.0       | 3.8       | 13.0      | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0        | 5.4        | 0.0       | 2.4        | 0.0       |
| Unknown:  | 9.7       | 0.0       | 0.0       | 8.7       | 3.8       | 3.4       | 0.0       | 10.0      | 10.3      | 23.5       | 13.5       | 10.7      | 7.3        | 3.0       |
| Type of employer: percent <sup>3</sup>  |           |           |           |           |           |           |           |           |           |            |            |           |            |           |
| Educational institution <sup>6</sup> :  | 64.5      | 54.5      | 65.4      | 43.5      | 61.5      | 58.6      | 59.4      | 73.3      | 48.3      | 61.8       | 54.1       | 64.3      | 56.1       | 72.7      |
| Industry/business:  | 29.0      | 36.4      | 23.1      | 39.1      | 30.8      | 34.5      | 28.1      | 20.0      | 24.1      | 26.5       | 32.4       | 17.9      | 29.3       | 15.2      |
| Government:   | 0.0       | 3.0       | 3.8       | 8.7       | 3.8       | 3.4       | 3.1       | 3.3       | 17.2      | 0.0        | 2.7        | 3.6       | 7.3        | 6.1       |
| Nonprofit:  | 3.2       | 6.1       | 7.7       | 8.7       | 3.8       | 3.4       | 3.1       | 0.0       | 10.3      | 8.8        | 5.4        | 10.7      | 4.9        | 3.0       |
| Other and unknown:  | 3.2       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 6.3       | 3.3       | 0.0       | 2.9        | 5.4        | 3.6       | 2.4        | 3.0       |

<sup>1</sup> Includes England, Wales, Scotland, and Northern Ireland.<sup>2</sup> This table includes all citizens of the United Kingdom who indicated a visa status (permanent or temporary visa). Those with unknown visa status are not included.<sup>3</sup> Sciences and engineering Ph.D.s only.<sup>4</sup> 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. "Personal" includes a recipient's own earnings, family support, and loans. Federal research assistants are aggregated with university research assistants.<sup>5</sup> Includes only those Ph.D. recipients intending to remain in the United States after graduation.<sup>6</sup> Includes 2-year and 4-year colleges and universities, medical schools, and elementary/secondary schools.**SOURCE:** National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*.



Table B-28. Statistical profile of doctorate recipients from Western Europe, by year of Ph.D.: 1975, 1980, 1985-96

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| Item   | 1975       | 1980       | 1985       | 1986       | 1987       | 1988       | 1989       | 1990       | 1991       | 1992       | 1993       | 1994       | 1995       | 1996       |
|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>Total number of Ph.D.s<sup>2</sup></b> .....              | <b>133</b> | <b>110</b> | <b>155</b> | <b>164</b> | <b>175</b> | <b>197</b> | <b>187</b> | <b>224</b> | <b>312</b> | <b>293</b> | <b>310</b> | <b>315</b> | <b>347</b> | <b>350</b> |
| Percent men.....   | 89.5       | 75.5       | 76.1       | 79.9       | 76.0       | 71.1       | 72.2       | 73.7       | 71.2       | 67.9       | 71.6       | 65.1       | 69.7       | 62.6       |
| Percent women.....   | 10.5       | 24.5       | 23.9       | 20.1       | 24.0       | 28.9       | 27.8       | 26.3       | 28.8       | 32.1       | 28.4       | 34.9       | 30.3       | 37.4       |
| Percent with permanent visa.....                             | 24.8       | 39.1       | 25.8       | 23.2       | 20.0       | 29.9       | 23.5       | 22.3       | 24.0       | 23.9       | 27.4       | 23.5       | 26.5       | 29.4       |
| Percent with temporary visa.....                             | 75.2       | 60.9       | 74.2       | 76.8       | 80.0       | 70.1       | 76.5       | 77.7       | 76.0       | 76.1       | 72.6       | 76.5       | 73.5       | 70.6       |
| Percent married.....   | 67.7       | 59.1       | 47.7       | 46.3       | 51.4       | 55.3       | 53.5       | 48.7       | 48.1       | 44.4       | 44.5       | 43.8       | 42.9       | 43.1       |
| Percent not married.....                                     | 30.1       | 39.1       | 49.0       | 50.6       | 45.7       | 43.7       | 43.3       | 46.0       | 43.9       | 50.9       | 50.6       | 49.2       | 50.4       | 51.7       |
| Percent unknown.....   | 2.3        | 1.8        | 3.2        | 3.0        | 2.9        | 1.0        | 3.2        | 5.4        | 8.0        | 4.8        | 4.8        | 7.0        | 6.6        | 5.1        |
| Median age at Ph.D. in years <sup>3</sup> .....              | 30.3       | 31.1       | 29.9       | 29.8       | 30.1       | 30.2       | 29.9       | 30.0       | 30.8       | 30.6       | 31.2       | 30.3       | 30.8       | 30.7       |
| Percent with dependents.....                                 | 45.1       | 42.7       | 36.8       | 29.9       | 34.9       | 36.0       | 30.5       | 32.6       | 33.0       | 31.1       | 28.7       | 22.9       | 24.8       | 23.1       |
| Percent receiving sources of support: percent <sup>3,4</sup> |            |            |            |            |            |            |            |            |            |            |            |            |            |            |
| Personal.....  | 37.7       | 43.2       | 62.6       | 54.7       | 49.6       | 55.9       | 57.3       | 43.5       | 48.4       | 47.7       | 53.7       | 44.2       | 45.3       | 53.7       |
| Foreign government.....                                      | 0.0        | 0.0        | 0.0        | 0.0        | 16.8       | 18.4       | 19.1       | 16.9       | 21.7       | 20.2       | 21.0       | 24.8       | 24.6       | 27.3       |
| University.....  | 86.8       | 86.4       | 87.9       | 94.5       | 94.7       | 91.9       | 92.4       | 89.0       | 88.0       | 90.7       | 91.3       | 82.0       | 84.5       | 90.3       |
| Teaching assistant.....                                      | 37.7       | 38.3       | 52.3       | 51.6       | 57.3       | 56.6       | 55.7       | 48.1       | 52.5       | 58.5       | 57.6       | 43.2       | 47.4       | 59.5       |
| Research assistant.....                                      | 61.3       | 61.7       | 53.3       | 68.8       | 71.8       | 74.3       | 69.5       | 73.4       | 64.1       | 67.4       | 67.2       | 59.2       | 63.4       | 72.7       |
| Other university.....  | 44.3       | 28.4       | 28.0       | 26.6       | 29.0       | 30.1       | 31.3       | 22.7       | 21.7       | 23.8       | 21.8       | 15.5       | 22.0       | 38.3       |
| Other.....   | 31.1       | 37.0       | 33.6       | 30.5       | 23.7       | 19.9       | 24.4       | 19.5       | 22.6       | 25.9       | 24.0       | 20.9       | 21.6       | 30.8       |
| Unknown.....   | 4.7        | 3.7        | 4.7        | 0.8        | 0.0        | 2.9        | 1.5        | 4.5        | 2.3        | 2.6        | 2.2        | 4.9        | 3.9        | 4.0        |
| Median years from baccalaureate to Ph.D.                     |            |            |            |            |            |            |            |            |            |            |            |            |            |            |
| Total time: in years.....                                    | 6.7        | 8.0        | 7.3        | 7.0        | 7.3        | 8.0        | 7.6        | 7.3        | 8.0        | 8.0        | 8.0        | 7.5        | 8.0        | 8.2        |
| Registered time: in years.....                               | 5.0        | 5.8        | 5.8        | 5.4        | 5.5        | 6.1        | 5.9        | 5.6        | 6.0        | 6.6        | 6.3        | 6.2        | 6.4        | 6.6        |
| Sciences & Engineering: percent.....                         | 79.7       | 73.6       | 69.0       | 78.0       | 74.9       | 69.0       | 70.1       | 68.8       | 69.6       | 65.9       | 73.9       | 65.4       | 66.9       | 64.9       |
| Physical Sciences.....                                       | 18.9       | 11.1       | 13.1       | 17.2       | 14.5       | 14.0       | 12.2       | 14.9       | 13.4       | 13.0       | 13.5       | 14.6       | 11.6       | 16.7       |
| Earth, Atmospheric, and Ocean sciences.....                  | 3.8        | 0.0        | 3.7        | 3.1        | 5.3        | 3.7        | 0.0        | 4.5        | 8.3        | 5.2        | 3.5        | 5.3        | 1.7        | 5.7        |
| Mathematics.....   | 8.5        | 7.4        | 4.7        | 10.9       | 8.4        | 10.3       | 7.6        | 6.5        | 10.1       | 6.2        | 5.7        | 5.8        | 6.5        | 7.5        |
| Computer/Information sciences.....                           | 0.0        | 1.2        | 2.8        | 4.7        | 3.8        | 2.2        | 2.3        | 2.6        | 5.1        | 2.6        | 2.2        | 3.4        | 4.3        | 6.2        |
| Engineering.....   | 34.9       | 22.2       | 25.2       | 22.7       | 20.6       | 24.3       | 21.4       | 24.7       | 18.0       | 18.7       | 18.8       | 18.9       | 22.4       | 12.8       |
| Biological sciences.....                                     | 7.5        | 13.6       | 12.2       | 4.7        | 13.7       | 12.5       | 18.3       | 18.2       | 14.7       | 15.0       | 19.2       | 23.3       | 15.9       | 19.8       |
| Agricultural sciences.....                                   | 10.4       | 7.4        | 6.5        | 5.5        | 6.1        | 7.4        | 6.1        | 6.5        | 4.6        | 5.7        | 8.3        | 9.7        | 11.2       | 5.3        |
| Psychology and social sciences.....                          | 16.0       | 37.0       | 31.8       | 31.3       | 27.5       | 25.7       | 32.1       | 22.1       | 25.8       | 33.7       | 28.8       | 18.9       | 26.3       | 26.0       |
| Non-sciences and Engineering: percent.....                   | 20.3       | 26.4       | 31.0       | 22.0       | 25.1       | 31.0       | 29.9       | 31.3       | 30.4       | 34.1       | 26.1       | 34.6       | 33.1       | 35.1       |
| Humanities.....  | 55.6       | 58.6       | 52.1       | 50.0       | 54.5       | 55.7       | 57.1       | 68.6       | 63.2       | 64.0       | 59.3       | 67.0       | 67.0       | 70.7       |
| Education.....   | 14.8       | 17.2       | 20.8       | 16.7       | 18.2       | 23.0       | 19.6       | 12.9       | 7.4        | 9.0        | 16.0       | 11.9       | 8.7        | 8.9        |
| Health sciences.....   | 11.1       | 10.3       | 10.4       | 8.3        | 4.5        | 4.9        | 8.9        | 7.1        | 9.5        | 13.0       | 9.9        | 7.3        | 7.8        | 8.9        |
| Professional and other fields.....                           | 18.5       | 13.8       | 16.7       | 25.0       | 22.7       | 16.4       | 14.3       | 11.4       | 20.0       | 14.0       | 14.8       | 13.8       | 16.5       | 11.4       |
| <b>Planned location after Ph.D.<sup>3</sup></b>              |            |            |            |            |            |            |            |            |            |            |            |            |            |            |
| Number with permanent visas.....                             | 20         | 29         | 19         | 25         | 24         | 39         | 22         | 26         | 42         | 38         | 61         | 40         | 52         | 54         |
| U. S. total: percent.....                                    | 70.0       | 65.5       | 52.6       | 72.0       | 70.8       | 61.5       | 50.0       | 57.7       | 90.5       | 92.1       | 77.0       | 80.0       | 90.4       | 92.6       |
| Study.....   | 28.6       | 26.3       | 40.0       | 33.3       | 47.1       | 37.5       | 36.4       | 46.7       | 28.9       | 40.0       | 40.4       | 56.3       | 44.7       | 36.0       |
| Employment.....  | 71.4       | 73.7       | 60.0       | 66.7       | 52.9       | 62.5       | 63.6       | 53.3       | 65.8       | 57.1       | 57.4       | 40.6       | 51.1       | 60.0       |
| Unknown.....   | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 5.3        | 2.9        | 2.1        | 3.1        | 4.3        | 4.0        |
| Non-U.S.....   | 15.0       | 6.9        | 10.5       | 4.0        | 8.3        | 10.3       | 13.6       | 23.1       | 2.4        | 5.3        | 21.3       | 17.5       | 5.8        | 5.6        |
| Unknown location.....  | 15.0       | 27.6       | 36.8       | 24.0       | 20.8       | 28.2       | 36.4       | 19.2       | 7.1        | 2.6        | 1.6        | 2.5        | 3.8        | 1.9        |

See explanatory information, if any, and SOURCE at end of table.

Table B-28. Statistical profile of doctorate recipients from Western Europe<sup>1</sup>, by year of Ph.D.: 1975, 1980, 1985-96

Page 2 of 2

| Item  | 1975      | 1980      | 1985      | 1986      | 1987      | 1988      | 1989      | 1990      | 1991       | 1992       | 1993       | 1994       | 1995       | 1996       |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| Number with temporary visas:  | 86        | 52        | 88        | 103       | 107       | 97        | 109       | 128       | 175        | 155        | 168        | 166        | 180        | 173        |
| U. S. total: percent:   | 31.4      | 36.5      | 40.9      | 35.0      | 40.2      | 40.2      | 36.7      | 34.4      | 38.9       | 45.2       | 39.3       | 44.0       | 48.3       | 48.6       |
| Study:  | 51.9      | 52.6      | 41.7      | 41.7      | 55.8      | 46.2      | 47.5      | 59.1      | 51.5       | 55.7       | 53.0       | 63.0       | 52.9       | 64.3       |
| Employment:   | 44.4      | 47.4      | 58.3      | 58.3      | 44.2      | 53.8      | 52.5      | 40.9      | 48.5       | 44.3       | 47.0       | 37.0       | 46.0       | 31.0       |
| Unknown:  | 3.7       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0        | 0.0        | 0.0        | 0.0        | 1.1        | 4.8        |
| Non-U.S.:   | 40.7      | 40.4      | 33.0      | 41.7      | 39.3      | 40.2      | 42.2      | 50.0      | 49.7       | 51.0       | 53.6       | 50.6       | 47.8       | 46.8       |
| Unknown location:   | 27.9      | 23.1      | 26.1      | 23.3      | 20.6      | 19.6      | 21.1      | 15.6      | 11.4       | 3.9        | 7.1        | 5.4        | 3.9        | 4.6        |
| <b>Number planning location in the United States after Ph.D.<sup>3</sup>:</b> | <b>41</b> | <b>38</b> | <b>48</b> | <b>54</b> | <b>60</b> | <b>63</b> | <b>51</b> | <b>59</b> | <b>106</b> | <b>105</b> | <b>113</b> | <b>105</b> | <b>134</b> | <b>134</b> |
| Percent with definite postdoctoral study <sup>5</sup> :                       | 41.5      | 36.8      | 34.8      | 35.2      | 43.3      | 39.7      | 43.1      | 47.5      | 32.1       | 36.2       | 33.6       | 48.6       | 38.1       | 43.3       |
| Percent with definite employment <sup>5</sup> :                               | 48.8      | 57.9      | 50.0      | 55.6      | 45.0      | 52.4      | 47.1      | 39.0      | 42.5       | 34.3       | 34.5       | 31.4       | 26.1       | 31.3       |
| Percent seeking postdoctoral study <sup>5</sup> :                             | 2.4       | 2.6       | 6.5       | 3.7       | 10.0      | 3.2       | 2.0       | 8.5       | 11.3       | 14.3       | 14.2       | 12.4       | 11.9       | 10.4       |
| Percent seeking employment <sup>5</sup> :                                     | 4.9       | 2.6       | 8.7       | 5.6       | 1.7       | 4.8       | 7.8       | 5.1       | 12.3       | 14.3       | 16.8       | 6.7        | 21.6       | 10.4       |
| Percent with postdoctoral plans unknown <sup>5</sup> :                        | 2.4       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0       | 1.9        | 1.0        | 0.9        | 1.0        | 2.2        | 4.5        |
| <b>Number with definite employment plans in United States after Ph.D.:</b>    | <b>20</b> | <b>22</b> | <b>23</b> | <b>30</b> | <b>27</b> | <b>33</b> | <b>24</b> | <b>23</b> | <b>45</b>  | <b>36</b>  | <b>39</b>  | <b>33</b>  | <b>35</b>  | <b>42</b>  |
| Primary work activity <sup>3</sup> : percent:                                 |           |           |           |           |           |           |           |           |            |            |            |            |            |            |
| R&D:  | 35.0      | 27.3      | 56.5      | 53.3      | 40.7      | 51.5      | 45.8      | 47.8      | 71.1       | 75.0       | 53.8       | 66.7       | 82.9       | 54.8       |
| Teaching:   | 35.0      | 50.0      | 30.4      | 30.0      | 37.0      | 33.3      | 37.5      | 30.4      | 17.8       | 13.9       | 28.2       | 21.2       | 5.7        | 21.4       |
| Administrative:   | 5.0       | 0.0       | 4.3       | 3.3       | 0.0       | 0.0       | 0.0       | 0.0       | 0.0        | 2.8        | 0.0        | 0.0        | 0.0        | 2.4        |
| Professional services:  | 20.0      | 13.6      | 8.7       | 13.3      | 7.4       | 12.1      | 4.2       | 4.3       | 2.2        | 2.8        | 7.7        | 3.0        | 0.0        | 14.3       |
| Other:  | 0.0       | 4.5       | 0.0       | 0.0       | 7.4       | 0.0       | 0.0       | 0.0       | 0.0        | 0.0        | 2.6        | 0.0        | 5.7        | 2.4        |
| Unknown:  | 5.0       | 4.5       | 0.0       | 0.0       | 7.4       | 3.0       | 12.5      | 17.4      | 8.9        | 5.6        | 7.7        | 9.1        | 5.7        | 4.8        |
| Type of employer: percent <sup>3</sup>  |           |           |           |           |           |           |           |           |            |            |            |            |            |            |
| Educational institution <sup>6</sup> :  | 55.0      | 63.6      | 56.5      | 76.7      | 59.3      | 60.6      | 70.8      | 52.2      | 68.9       | 58.3       | 64.1       | 42.4       | 37.1       | 38.1       |
| Industry/business:  | 35.0      | 18.2      | 34.8      | 20.0      | 22.2      | 33.3      | 20.8      | 39.1      | 24.4       | 33.3       | 23.1       | 42.4       | 37.1       | 50.0       |
| Government:   | 0.0       | 4.5       | 0.0       | 0.0       | 11.1      | 3.0       | 8.3       | 4.3       | 2.2        | 8.3        | 2.6        | 0.0        | 0.0        | 4.8        |
| Nonprofit:  | 5.0       | 13.6      | 0.0       | 3.3       | 7.4       | 0.0       | 0.0       | 4.3       | 4.4        | 0.0        | 5.1        | 3.0        | 17.1       | 0.0        |
| Other and unknown:  | 5.0       | 0.0       | 8.7       | 0.0       | 0.0       | 3.0       | 0.0       | 0.0       | 0.0        | 0.0        | 5.1        | 12.1       | 8.6        | 7.1        |

<sup>1</sup> Includes Andorra, Belgium, Gibraltar, Luxembourg, Monaco, the Netherlands, Portugal, Spain, Switzerland, the Republic of Ireland, Austria, Liechtenstein, Malta, and unspecified Western European countries.

<sup>2</sup> This table includes all citizens of Western European countries who indicated a visa status (permanent or temporary visa). Those with unknown visa status are not included.

<sup>3</sup> Sciences and engineering Ph.D.s only.

<sup>4</sup> 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. "Personal" includes a recipient's own earnings, family support, and loans. Federal research assistants are aggregated with university research assistants.

<sup>5</sup> Includes only those Ph.D. recipients intending to remain in the United States after graduation.

<sup>6</sup> Includes 2-year and 4-year colleges and universities, medical schools, and elementary/secondary schools.

**SOURCE:** National Science Foundation, Division of Science Resources Studies, *Survey of Earned Doctorates*.

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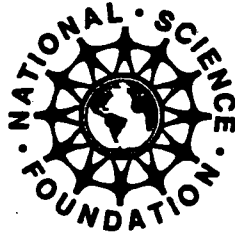
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