

DOCUMENT RESUME

ED 128 190

SB 020 991

TITLE Characteristics of the National Sample of Scientists and Engineers 1974. Part 1. Demographic and Educational.

INSTITUTION National Science Foundation, Washington, D.C. Div. of Science Resources Studies.

REPORT NO NSF-75-333

PUB DATE Dec 75

NOTE 88p.; Not available in hard copy due to marginal legibility throughout original document

AVAILABLE FROM Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402 (Stock Number O38-000-00267-8, \$1.90)

EDRS PRICE MF-\$0.83 Plus Postage. HC Not Available from EDRS.

DESCRIPTORS \*Census Figures; Demography; Employment Patterns; Engineers; National Demography; Population Education; Science Education; \*Scientific Manpower; \*Scientists; Surveys


IDENTIFIERS National Science Foundation; NSF

ABSTRACT

Presented is the first of three reports by the National Science Foundation (NSF) on the 1974 National Survey of Scientists and Engineers conducted by the Bureau of Census. The survey was designed to measure the changes, every two years, in the demographic, educational, and employment characteristics of the scientists and engineers identified in the 1970 Census of Population. This report presents detailed information on the 1974 National Sample with emphasis on the demographic and educational characteristics. Almost 1,100,000 scientists and engineers were represented by this National Sample. The publication is divided into two sections: (1) graphic highlights, and (2) selected characteristics. Technical notes, detailed statistical tables, and a reproduction of the 1974 questionnaire and reference lists are included in the appendix. (Author/EB)

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ED128190

 Surveys of Science  
Resources Series  
National Science Foundation  
NSF 75-333

# Characteristics of the National Sample of Scientists and Engineers 1974

## Part 1. Demographic and Educational

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 Surveys of Science  
Resources Series  
National Science Foundation  
NSF 75-333

**Characteristics of the  
National Sample of  
Scientists and Engineers  
1974**

**Part 1.  
Demographic  
and Educational**

# FOREWORD

The dynamics of the scientific and engineering population of the United States have changed markedly in the past few years. The unemployment problem of 1970-71, the start of a declining college and university population, and the recent economic condition of the country have all had their effects on individual scientists and engineers. To assist the Foundation in formulating and implementing sound and responsive scientific policies and programs for the Nation, the Manpower Characteristics Systems was initiated in 1971. This system provides the means by which selected information on scientists and engineers is made available. The system consists of three subsystems: the Doctoral Roster of Scientists and Engineers, Survey of New Entrants to Science and Engineering, and the National Sample of Scientists and Engineers which is the subject of this report.

This is the first of three reports by the National Science Foundation (NSF) on the 1974 National Survey of Scientists and Engineers (National Sample) which was conducted by the Bureau of Census under the sponsorship of NSF. The 1974 survey was the first in a series of longitudinal surveys designed to measure the changes—every two years—in the demographic, educational, and employment characteristics of the Nation's scientists and engineers who were identified in the 1970 Census of Population.

This report presents detailed information on the 1974 demographic and educational characteristics of the National Sample. The subsequent two reports will focus upon employment and geographic characteristics of the sample.

The report was prepared in the Division of Science Resources Studies of the National Science Foundation. Overall guidance was provided by Robert W. Cain, Head, Manpower Studies Section.

We would like to thank the 50,000 scientists and engineers in the sample who were surveyed and took the time to respond to the questionnaire. It is their cooperation that made this report possible.

Charles E. Falk  
Director, Division of Science  
Resources Studies

December 1975

## general notes

Almost 1,100,000 scientists and engineers were represented by the National Sample of Scientists and Engineers in 1974; this number accounted for approximately two-thirds of the science and engineering population in 1974. The data do not include those scientists and engineers who have entered science and engineering since April 1970 when the Census of Population was conducted.

General detail may not add to total because of rounding.

## acknowledgments

This survey was planned and directed by J. James Brown, Study Director, Manpower Characteristics Studies Group. The report was prepared by Nancy M. Conlon with the assistance of Gayle F. Barker and John A. Scopinio.

The survey was conducted by the Bureau of the Census. Principal participants there were Paula J. Schneider, Mary K. Friday, Thomas J. Palumbo, Ann M. Gifford, and Patricia L. Marks. Overall direction was provided by Murray S. Weitzman, Assistant Division Chief (Socioeconomic Statistics Programs), Population Division. Invaluable assistance by all is gratefully acknowledged.

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# INTRODUCTION

This is the first of three reports on the 1974 National Survey of Scientists and Engineers. It presents demographic and educational data for members of the National Sample who responded to the 1974 survey and met the requirements for inclusion in one of eight fields of science or engineering in 1974; these persons and all others in the National Sample were identified as scientists and engineers in the 1970 Census of Population. Separate statistics are shown for women as well as for both sexes. The second report will present employment information; the third, geographic information.<sup>1</sup>

The 1974 National Sample was the first in a series of planned longitudinal surveys to be conducted biennially on a sample of 50,000 individuals who were identified as scientists and engineers in the 1970 Census of Population. Findings from the 1974 and future surveys will enable investigators to examine changes in characteristics of scientists and engineers over a substantial period of time, as well as providing information for a specific time period.

The National Sample serves as a source for measuring changes in characteristics of scientists and engineers who were in the 1970 employed labor force. It also provides timely information on a sizable segment of the Nation's scientific and engineering manpower at any one time.

Section I of this report contains graphic highlights of the data presented herein; Section II presents tables of selected characteristics. The technical notes in appendix A contain information on the sample; the questionnaire; definitions and explanations used in the survey; weighting and estimating procedures; and standard errors of totals and percentages. Detailed statistical tables are included in appendix B. The questionnaire and reference lists used in the survey are reproduced in appendix D.

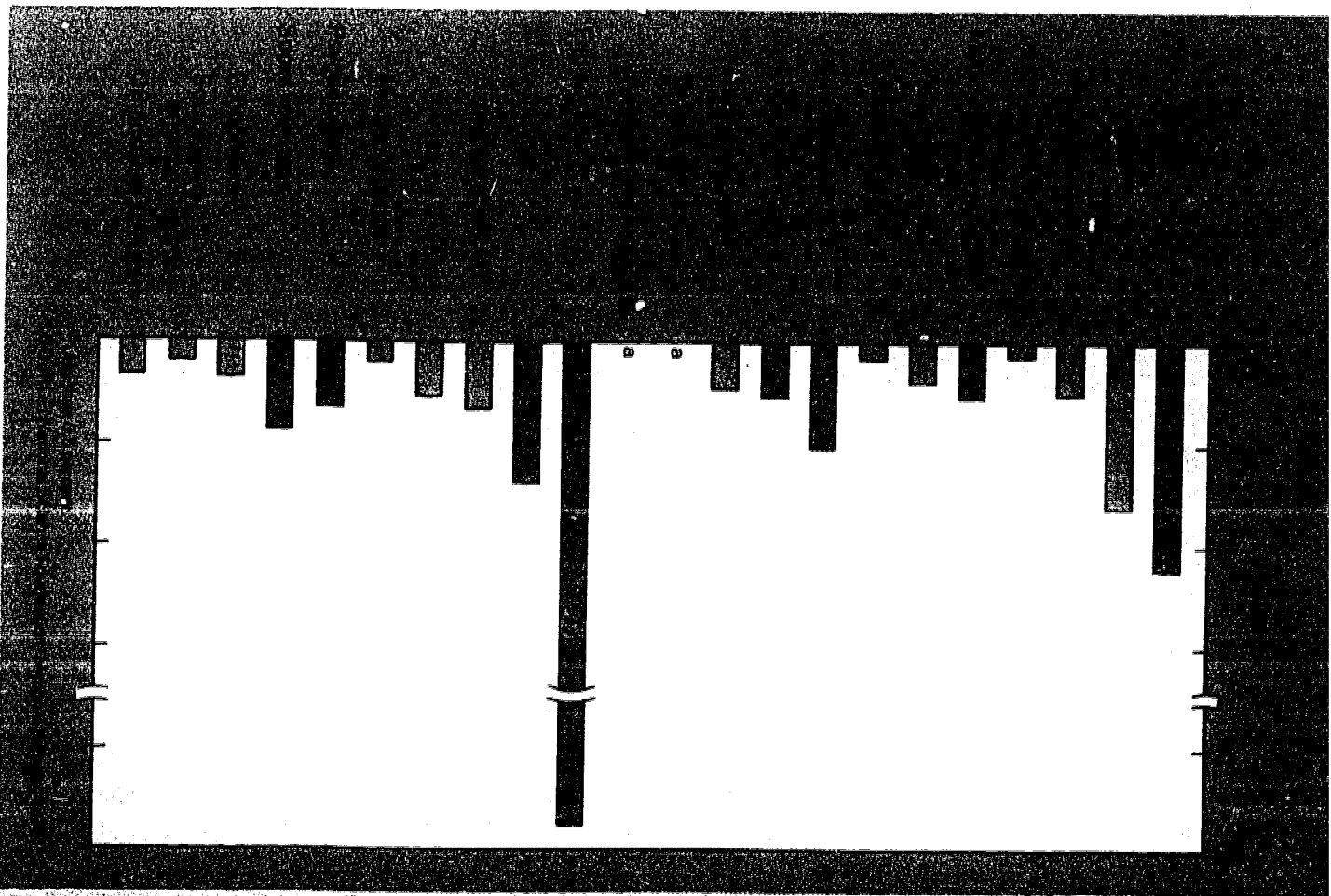
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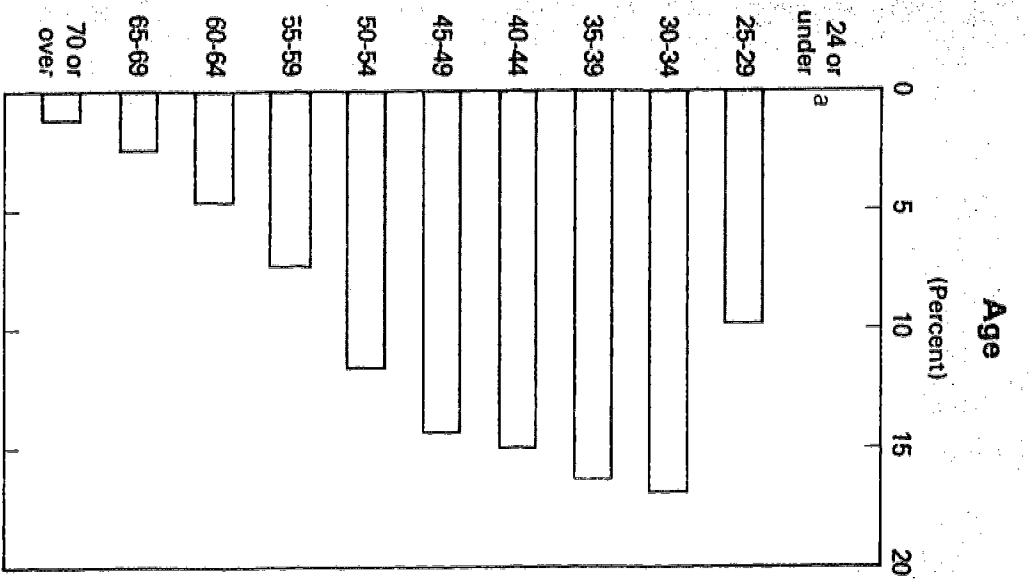
<sup>1</sup> See appendix C for the kinds of information to be included in parts II and III.

## Section I.

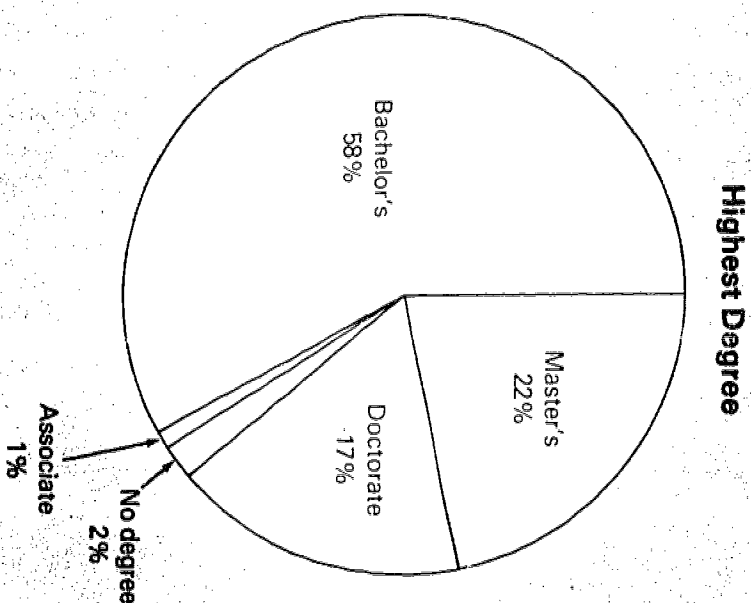
# GRAPHIC HIGHLIGHTS

# Total Scientists and Engineers in the National Sample

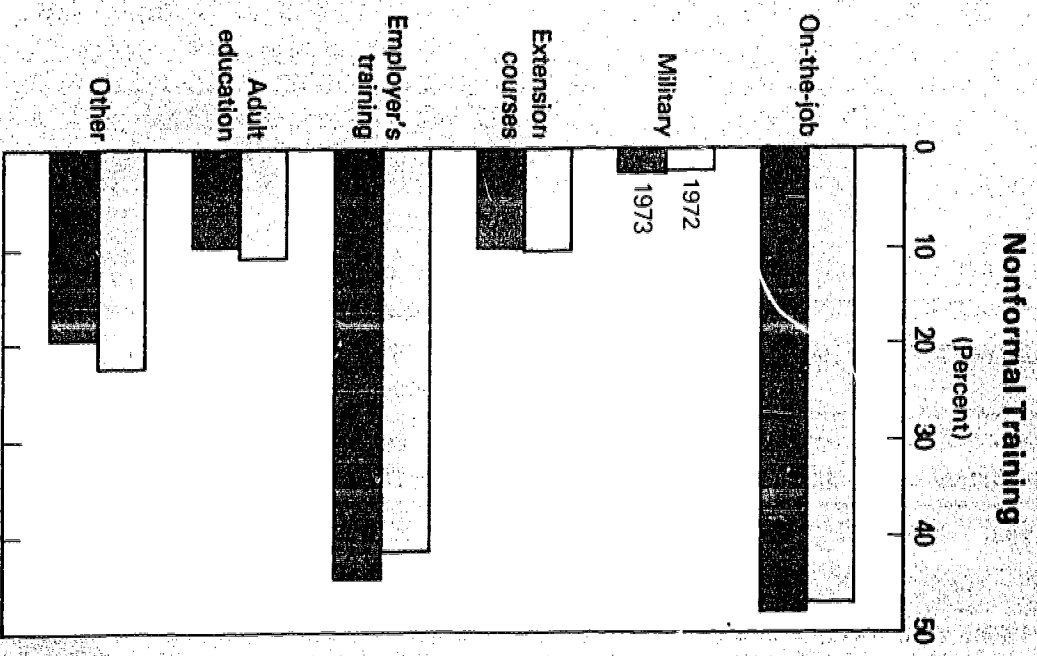




Less than 0.5 percent.  
 SOURCE: National Science Foundation, National Sample, 1974.

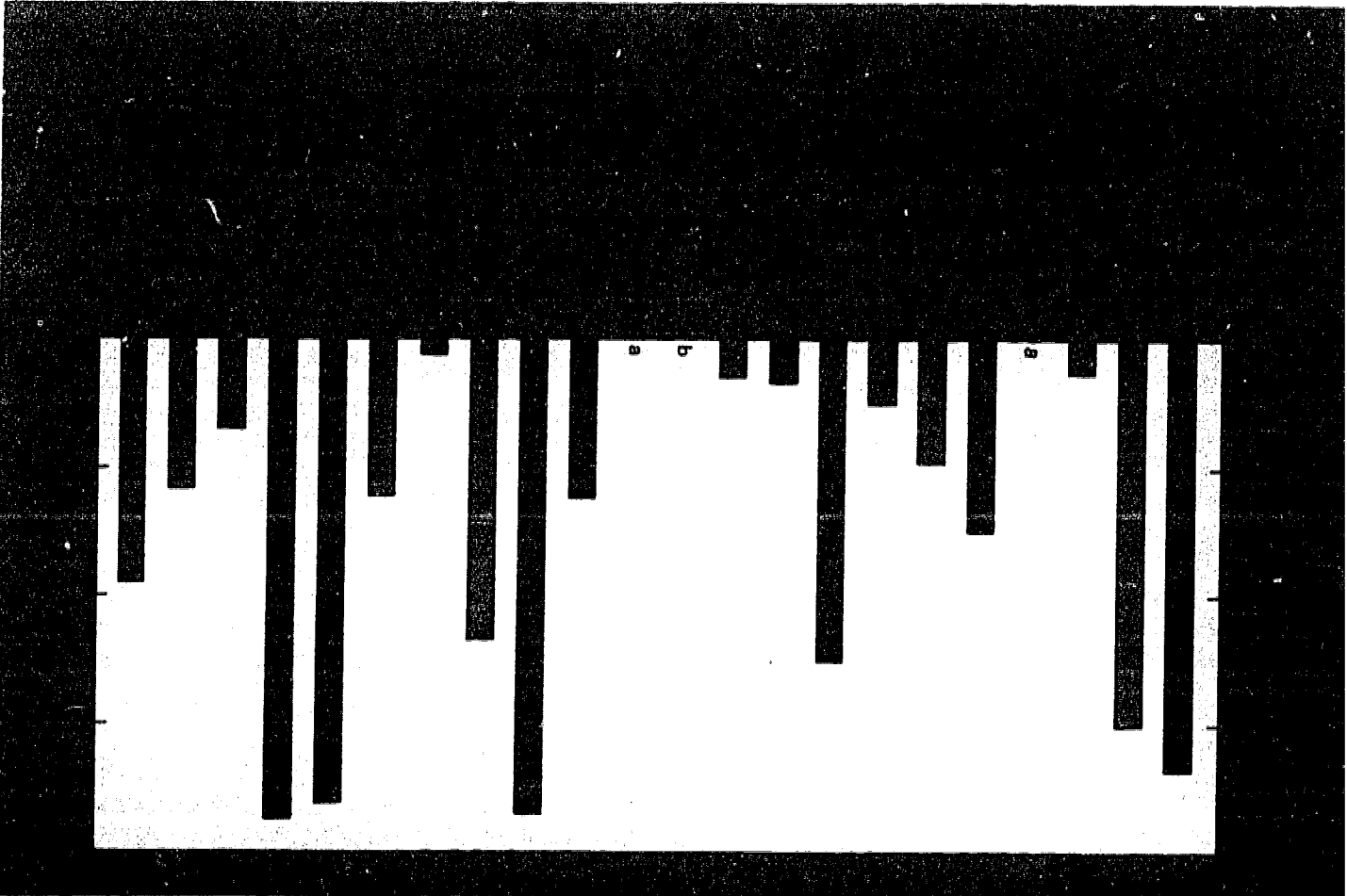


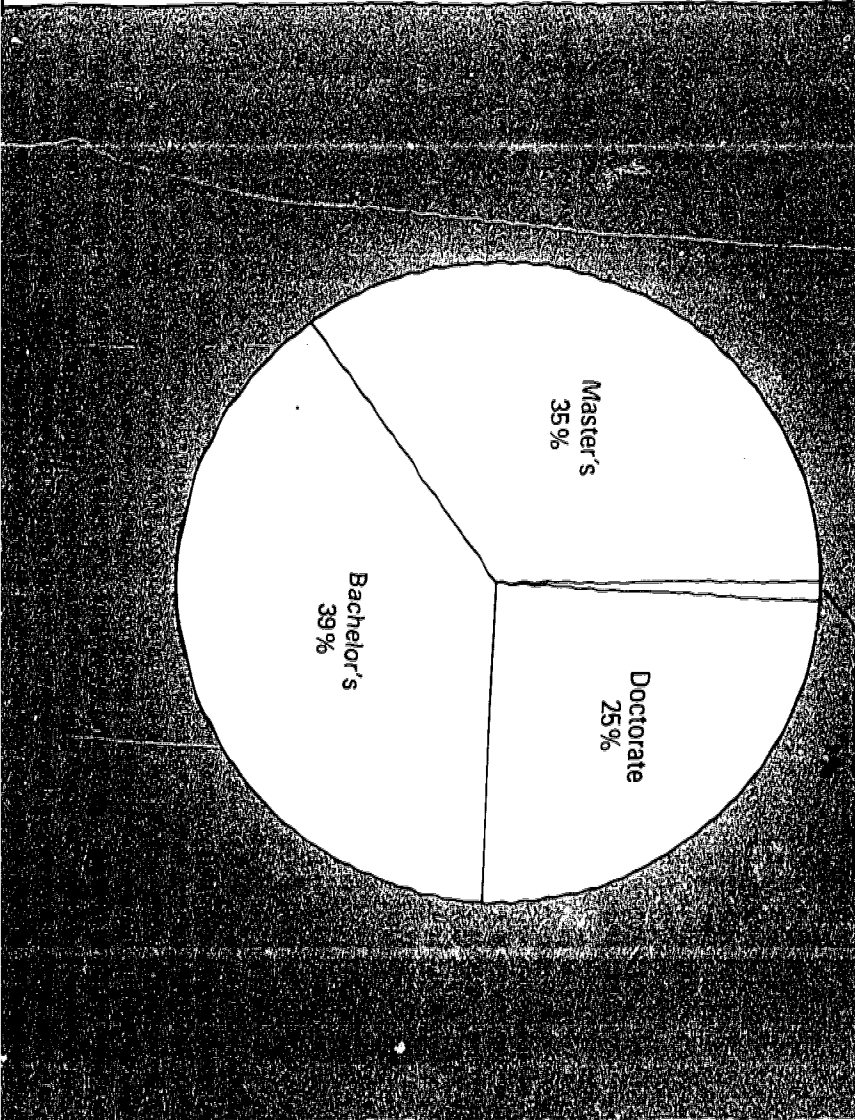
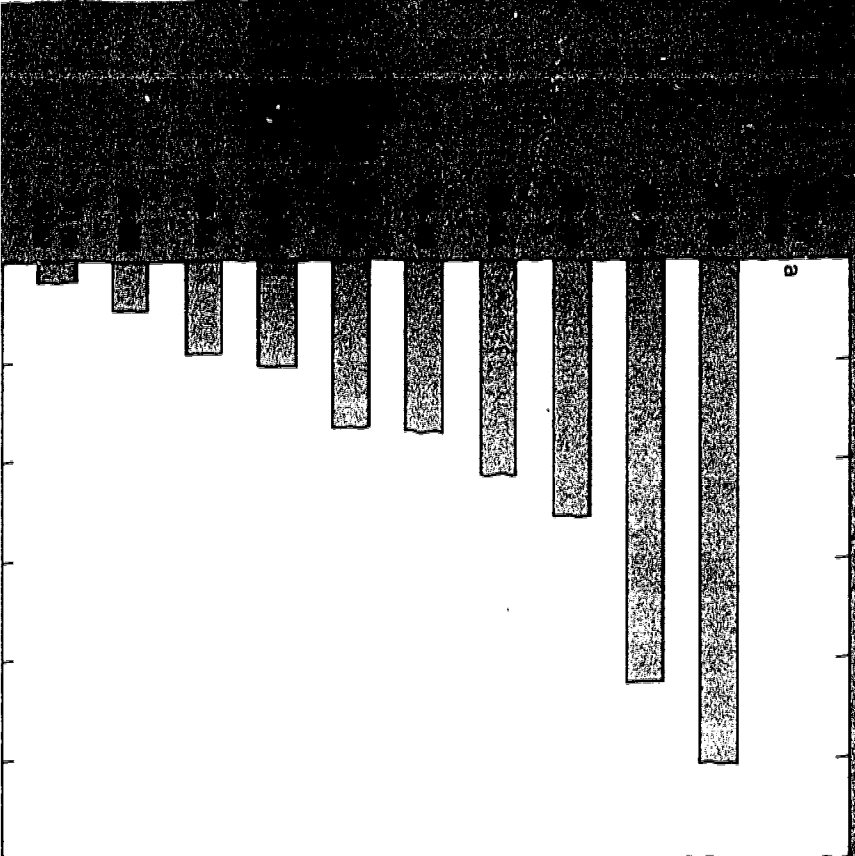
Note: Less than 0.5 percent held the professional/medical degree.



Note: Percents will add to more than 100.0 because of persons receiving more than one type of nonformal training.

WOMEN





**Section II.**

**SELECTED CHARACTERISTICS**

# TOTAL SCIENTISTS AND ENGINEERS IN THE NATIONAL SAMPLE

**FIELD**  
**Engineers, the largest group in the National Sample, were followed by physical scientists, life scientists, and computer specialists.**

Field	Number	Percent
Total: all fields	1,079,698	100.0
Physical scientists	121,011	11.2
Chemists	87,334	8.1
Physicists/astronomers	27,519	2.5
Other physical scientists	6,158	.6
Mathematical scientists	27,833	2.6
Mathematicians	20,076	1.9
Statisticians	7,757	.7
Computer specialists	55,186	5.1
Environmental scientists	29,466	2.7
Earth scientists	24,589	2.3
Oceanographers	1,563	.1
Atmospheric scientists	3,314	.3
Engineers	687,911	63.8
Life scientists	75,462	7.0
Biological scientists	35,935	3.3
Agricultural scientists	28,790	2.7
Medical scientists	10,737	1.0
Psychologists	34,889	3.2
Social scientists	47,940	4.4
Economists	19,754	1.8
Sociologists/anthropologists	11,158	1.0
Other social scientists	17,028	1.6

**RACE**  
**Very few scientists and engineers were members of minority racial groups—less than 1 in 20.**

Race	Number	Percent
Total	1,079,698	100.0
White/Caucasian	1,039,070	96.2
Black/Negro	11,102	1.0
American Indian	903	.1
Chinese, Japanese, Korean	23,497	2.2
Other	5,186	.5

**SEX**  
**Ninety-five percent were male with engineers reporting the highest percent of men to women.**

Sex	Number	Percent
Total	1,079,698	100.0
Men	1,025,741	95.0
Women	53,957	5.0

**HIGHEST DEGREE**  
**Most held bachelor's degrees as their highest degree. The master's degree holders accounted for about one-fifth whereas one in six held a doctorate.**

Highest degree	Number	Percent
Total	1,079,698	100.0
Doctorate	180,870	16.8
Professional/medical	3,248	.3
Master's	242,289	22.4
Bachelor's	620,396	57.5
Associate	12,539	1.2
Other degree	101	(1)
No degree	20,255	1.9

<sup>1</sup> Less than 0.05 percent.



## AGE

The median age in 1974 was 41 years. Almost one-half of the women scientists and engineers were under age 35 whereas only one-quarter of the men were under age 35.

Age	Number	Percent
Total	1,079,698	100.0
24 or under	2,137	.2
25-29	106,274	9.8
30-34	182,024	16.9
35-39	175,473	16.3
40-44	162,207	15.0
45-49	155,926	14.4
50-54	125,831	11.7
55-59	78,795	7.3
60-64	51,134	4.7
65-69	26,963	2.5
70 and over	12,934	1.2

## NONFORMAL TRAINING

Employer training courses and on-the-job training were the most frequently reported types of nonformal training.

Type of training	1972 number	1973 number
Total	1,079,698	1,079,698
With nonformal training	1397,438	1406,427
On-the-job	187,159	194,367
Military	6,595	9,192
Extension courses	41,234	41,536
Employer's training	165,691	180,372
Adult education	45,180	44,715
Other	89,680	81,018
No nonformal training	471,772	488,886
Nonformal training not reported	210,488	184,385

<sup>1</sup> Detail will not add to total because persons can be recipients of more than one type of training.

## PROFESSIONAL IDENTIFICATION

About 1 out of every 10 scientists and engineers considered himself an administrator or a manager.

Professional identification	Number	Percent
Total	1,079,698	100.0
Physical scientists	116,266	10.8
Mathematical scientists	24,907	2.3
Computer specialists	54,759	5.1
Engineers	571,997	53.0
Biological scientists	73,150	6.8
Social scientists	67,389	6.2
Administrators/managers	114,681	10.6
Teachers	2,606	.2
Health occupations	522	( <sup>1</sup> )
Technicians/technologists	1,040	.1
Other	4,281	.4
No report	48,100	4.5

<sup>1</sup> Less than 0.05 percent.

## MAJOR SUBJECT OF HIGHEST DEGREE

Fifty-five percent of the scientists and engineers had a major subject in engineering. This is a smaller percent than that of engineers to the total number of scientists and engineers in the field distribution.

Major subject	Number	Percent
Total	1,079,698	100.0
Chemistry	80,798	7.5
Physics/astronomy	49,062	4.5
Mathematical sciences	44,706	4.1
Computer science	6,945	.6
Earth, space, and marine sciences	26,128	2.4
Engineering	592,420	54.9
Biological sciences	49,969	4.6
Agricultural sciences	30,500	2.8
Medical sciences	6,175	.6
Psychology	36,083	3.3
Economics	22,095	2.0
Sociology/anthropology	11,922	1.1
Other social sciences	15,337	1.4
Business and commerce	30,549	2.8
All other subjects	47,100	4.4
No report	9,654	.9
No degree	20,255	1.9

# WOMEN

## FIELD

Over one-half of the women in the National Sample were in four fields: psychology, chemistry, computer science, and biology.

Field	Number	Percent
Total	53,957	100.0
Physical scientists	9,075	16.8
Chemists	8,103	15.0
Physicists/astromomers	735	1.4
Other physical scientists	237	.4
Mathematical scientists	4,038	7.5
Mathematicians	2,664	4.9
Statisticians	1,374	2.5
Computer specialists	6,747	12.5
Environmental scientists	894	1.7
Earth scientists	817	1.5
Oceanographers	(1)	(1)
Atmospheric scientists	77	.1
Engineers	3,359	6.2
Life scientists	9,979	18.5
Biological scientists	6,334	11.7
Agricultural scientists	340	.6
Medical scientists	3,305	6.1
Psychologists	9,784	18.1
Social scientists	10,081	18.7
Economists	1,900	3.5
Sociologists/anthropologists	3,119	5.8
Other social scientists	5,062	9.4

<sup>1</sup> No cases reported.

## RACE

Blacks had the highest proportion of representation for minority groups among women, but the Chinese, Japanese, and Koreans represented a higher percentage of their female population in the United States.

Race	Number	Percent
Total	53,957	100.0
White/Caucasian	50,037	92.7
Black/Negro	1,714	3.2
American Indian	45	.1
Chinese, Japanese, Korean	1,422	2.6
Other	739	1.4

## AGE

The median age of women was 35 years in 1974.

Age	Number	Percent
Total	53,957	100.0
Under 25	73	.1
25-29	13,582	25.2
30-34	11,457	21.2
35-39	6,924	12.8
40-44	5,755	10.7
45-49	4,635	8.6
50-54	4,478	8.3
55-59	2,803	5.2
60-64	2,476	4.5
65-69	1,304	2.4
70 and over	520	1.0

## HIGHEST DEGREE

Almost the same number of S/E women held master's degrees as held bachelor's degrees.

Highest degree	Number	Percent
Total	53,957	100.0
Doctorate	13,389	24.8
Professional/medical	285	.5
Master's	19,213	35.6
Bachelor's	21,055	39.0
Associate	15	(1)
Other	(2)	(2)
No degree	(2)	(2)

<sup>1</sup> Less than 0.05 percent.  
<sup>2</sup> No cases reported.

## APPENDIXES

- A. Technical Notes
- B. Detailed Statistical Tables
- C. A Listing of Detailed Statistical Tables in  
Parts II and III
- D. Reproduction of 1974 Questionnaire and  
Reference Lists

## The 1974 National Sample

The 1974 National Survey of Scientists and Engineers was the first in a series of planned longitudinal surveys based on the National Sample. A previous survey, the 1972 Professional, Technical, and Scientific Manpower Survey was conducted among a nationwide sample of approximately 150,000 persons who were recorded in the 1970 Census of Population as being in the experienced civilian labor force in one of 65 engineering, scientific, or related occupations. Also, the survey included a small sample of persons who had completed four or more years of college but were not in any of the specified occupations. Based on responses in the 1972 survey and on criteria established by the National Science Foundation, approximately 51,000 persons from the 1972 survey sample (excluding the small sample of college graduates) were chosen as the National Sample for the 1974 National Survey of Scientists and Engineers.<sup>1</sup> Survey questionnaires were mailed to this abbreviated sample in February 1974. Data collection activities continued to August 1974. Completed questionnaires were obtained for 87.7 percent of the sample—approximately 44,000 persons. The 12.3 percent from whom completed questionnaires were not received include persons who either refused to participate, were deceased, or were persons who returned questionnaires with insufficient information to permit processing. In addition, 10.1 percent of the group moved out of science and engineering fields in 1974 leaving a sample of 40,000 persons in science and engineering in 1974.

Therefore, of the original 1,400,000 scientists and engineers whom the sample represented in 1972, 12.3 percent (172,000) did not respond, and 10.1 percent (148,000) represented those who did not meet the criteria for inclusion as scientists and engineers in 1974. As a result, 1,080,000 scientists and engineers remained in 1974 and it is this group with which this report is concerned.

For each sample case for which a completed questionnaire was obtained, the information from the 1974 survey was matched with 1972 survey data and 1970 census data for the same person. Weights applied to sample cases in the 1972 survey were then used to weight the resultant matched data file up to universe totals. The use of the 1972 survey weights means that no adjustment for nonresponse was made to 1974 survey results.

Respondents<sup>2</sup> to the 1974 National Survey of Scientists and Engineers were classified, again based on criteria of the National Science Foundation, into one of the fields of science and engineering, or the category "not in a field of science and engineering in 1974."

## The Questionnaire

Each panel member in the 1974 National Survey of Scientists and Engineers was asked to complete by self-enumeration a 4-page questionnaire (reproduced in appendix D). A cover letter was printed on page 1 of the questionnaire, and a set of reference lists (also reproduced in appendix D) was attached to the questionnaire. The reference lists were used by respondents to self-code answers to inquiries on major field of study (question 2, part b5 of the questionnaire), kind of business (question 11), occupation (question 12), and professional identification (question 20).

## Definitions and Explanations

**Fields of science and engineering**—Science or engineering fields are categories established to identify persons who could be classified as engineers or scientists under most definitions. In general, to be classified into one of the fields, a person had to have at least two of the following three characteristics:

(1) Employment in the field; (2) attainment of a specified educational level in an academic discipline related to the field; or (3) self-identification, based upon total education and experience, as being in the field. More detailed information on the criteria for membership in a scientific and technical field is given farther on in the section, "Criteria for Fields of Science or Engineering in 1974."

The fields of science and engineering for which data are presented in this report and the detailed fields they comprise are as follows:

### Physical scientists

Chemists  
Physicists and astronomers  
Other physical scientists

### Mathematical scientists

Mathematicians  
Statisticians

### Computer specialists

Environmental scientists  
Earth scientists  
Atmospheric scientists  
Oceanographers

### Engineers

### Life scientists

Agricultural scientists  
Biological scientists  
Medical scientists

# APPENDIX A

## Technical Notes

<sup>1</sup> For a description of the selection process, see "Sample Selection Process for the 1974 Survey," p. 20.

<sup>2</sup> The words "respondent" or "nonrespondent," when applied to members of the universe, refer to the number in the universe represented by sample persons who responded or did not respond, respectively, to the 1974 survey.

Psychologists  
 Social scientists  
 Economists  
 Sociologists and anthropologists  
 Other social scientists

**Race**—The data on race are based on responses in the 1970 Census of Population. The "other races" category includes all races not included in the specific categories listed.

**Age in 1974**—The reference period for age in 1974 was April 1974. The median age is that age that divides the distribution into two equal parts, one-half being older than the median age and one-half younger. Median ages were derived from an estimation process that distributed the subject populations into 5-year age groups.

**Highest degree held**—Highest degree held in 1974 refers to the highest academic degree awarded or assumed to have been awarded to the respondent in 1973 or earlier. Data on the highest degree held were derived as follows. First, question 2 of the 1974 questionnaire was reviewed to determine the highest degree worked for by the respondent since 1971. This degree was accepted as the highest degree received since 1971 if the respondent reported that it had been awarded in 1972 or 1973, or if he failed to indicate when it had been awarded, but did report the completion of at least a certain number of years of postsecondary education in question 1. The required years for each degree are specified in the following tabulation:

Degree	Minimum years of postsecondary education
No degree	0
Other	0
A.A.	2
R.N.	3
B.A.	4
M.A.	5
LL.B.	7
M.D.	8
Ph.D.	7

Second, the highest degree received since 1971 was designated as the highest degree held by the respondent in 1974 if it was at the same or at a higher academic level than the highest degree reported in the 1972 survey. Otherwise, the highest degree reported in 1972 was designated as the highest degree held in 1974.

The "other degree" classification includes persons whose highest academic degree was one of the following: L.B., M.D., and academic degrees other than those shown.

Except for engineers, the criteria for inclusion in a scientific or engineering field required that a person possess an academic degree at the bachelor's level or higher. Therefore, only engineers and persons "not in a field of science or engineering" can have an "associate degree" or "no degree."

**Major field of study for highest degree held**—The data on major field of study refer to the major subject associated with the highest degree held in 1974 as determined by the method described above. For persons whose highest degree held in 1974 was received after 1971, the data are derived from question 2, part b5 of the 1974 questionnaire. For persons whose highest degree was awarded in 1971 or earlier, the data on major subject are based on the 1972 survey.

**Source of Data Items**

Characteristic	Item number on 1974 questionnaire <sup>1</sup>	Source code <sup>2</sup> on 1974 questionnaire
Sex	(From the 1972 survey response, if available; otherwise from the 1970 Census response)	
Age in 1974	(From 1970 Census response, if available; otherwise from 1972 survey response)	
Field of science or engineering in 1972	(From the 1972 survey response)	
Race <sup>1</sup>	(From the 1970 Census response)	
Highest degree held <sup>1</sup>	1: 2 (parts a, b2, b3, and b4); otherwise from 1972 survey response	012,013,017-025
Major field of study for highest degree held <sup>1</sup>	2 (part b5), otherwise from 1972 survey response	026,027,028
Nonformal training in 1972	3	029
Nonformal training in 1973	3	030
Professional identification	Part IV: 20	082

<sup>1</sup>The 1974 National Survey of Scientists and Engineers questionnaire is reprinted in appendix D.  
<sup>2</sup>Source codes refer to sections of the 1974 questionnaire.

(denoted by a three-digit number inside a circle; e.g., S16 (if USA) = (010).  
<sup>1</sup>See appropriate subject under "Definitions and Explanations."



# Criteria for Fields of Science or Engineering in 1974

(Developed by the National Science Foundation)

Respondents in the 1974 National Survey of Scientists and Engineers were classified into a specific field of science and engineering in 1974 if they met, in relation to the specific field, any one of the criteria given below. Classification by these criteria proceeded such that all respondents were initially examined by the first criterion; those not placed into a field by the first criterion, were then examined by the second; those not categorized by the second, were examined by the third; and so on, until only those remained who met none of the criteria—these were classified as “not in a field of science or engineering in 1974.” The academic degree levels and major fields of study used in these criteria refer to the highest degree held. The coincident and related fields of study and the coincident and related occupations and professions are shown in table A-1. Occupation refers to the most recent job for which occupation was reported.

## THE CRITERIA

A member of a field of science or engineering in 1974 is an individual (1) who had earned a master's degree or higher<sup>1</sup> in a coincident field of study and who regarded himself, based on his to education and experience, as having a coincident profession; or (2) who had earned a Ph. D. in any field of social or natural science;<sup>2</sup> and was employed in a coincident occupation; or (3) who had earned a bachelor's degree or higher in a coincident field of study, and was employed in a coincident occupation; or (4) who had earned a bachelor's degree or higher in any field of study, was employed in a coincident occupation, and regarded himself as having a coincident profession; or (5) whose highest degree<sup>3</sup> was in a coincident field of study<sup>4</sup>, and who was employed as a college president, college dean, or manager or administrator of research or development, production or operations<sup>5</sup> or (6) who had earned a bachelor's degree or higher in a coincident field of study,<sup>6</sup> was employed in a related occupation, and regarded himself as having a coincident profession; or (7) who had earned a bachelor's degree in a coincident field of study since 1969 and who regarded himself as having a coincident profession; or (8)

Table A-1.—Coincident and related major fields of study, occupations, and professions, by field of science or engineering in 1974

[Codes are from reference lists A and C of appendix D]

Field of science or engineering in 1974	Major field of study		Occupation and profession	
	Coincident	Related	Coincident	Related
Computer specialists	559	501-526, 532-558, 560-568	415-417	401-413, 415-417, 419-438
Engineers	532-550	506, 529, 557, 559-561 563-568,	401-413	457-459
Mathematical scientists:				
Mathematicians	557	532-550, 558-568, 576	419	401-413, 415-417, 419-438
Statisticians	558	518, 532, 535-545, 548 550, 557, 559-572, 575, 576, 586, 587	420	401-413, 415-417, 419-438
Life scientists:				
Agricultural scientists	501-503, 506, 512, 514-517, 519, 523, 524, 526,	504, 505, 507-511, 513, 518, 520-522, 525, 532- 568	428	401-413, 415-417, 419-433, 438
Biological scientists	504, 505, 507-511, 513, 518, 520-522, 525, 526, 554	501-503, 506, 512, 514- 517, 519, 523, 524, 532- 553, 555-568	429, 431, 433	401-413, 415-417, 419-433, 438
Medical scientists	555, 556	501, 526, 532-550, 557-573	432	401-413, 415-417, 419-438
Physical scientists:				
Chemists	508, 561	501-507, 509-526, 532- 540, 562-568	422, 430	401-413, 415-417, 419-433, 438
Physicists and astronomers	560, 564	508, 509, 535-541, 543- 546, 550, 557-559, 561- 563, 565-568	424	401-413, 415-417, 419-433, 438
Other physical scientists	565, 568	501-526, 532-564, 566, 567	427	401-413, 415-417, 419-433, 438
Environmental scientists:				
Earth scientists	565, 566, 568	501-526, 532-564, 567	423	401-413, 415-417, 419-433, 438
Atmospheric scientists	563	501-526, 532-562, 564-568	425	401-413, 415-417, 419-433, 438
Oceanographers	567	501-526, 532-566, 568	426	401-413, 415-417, 419-433, 438
Psychologists	569-572	509, 551, 552, 556- 558, 573, 586	435	401-413, 415-417, 419-438
Social scientists:				
Economists	575-576, 581	501, 557-559, 574, 557-580, 582, 583, 589, 595	434	434-437
Sociologists and anthropologists	573, 586	569, 572, 574, 577, 579, 587, 593	436	401-413, 415-417, 419-438
Other social scientists	574, 577, 581-584, 587, 593	None	437	434-437

<sup>1</sup> Engineers could meet this requirement with a bachelor's degree or higher.  
<sup>2</sup> Codes 501-587 and 593 from list A of appendix D.  
<sup>3</sup> At the bachelor's level or higher.

<sup>4</sup> Certain coincident fields of study are common to two fields of science or engineering. Therefore, persons meeting criterion 5 with field of study represented by codes 506 or 526 of list A of appendix D were classified exclusively as “biological scientists”; those with codes 565 or 568, were classified exclusively as “other physical scientists”; and those with code 581, were classified exclusively as “economists.”

<sup>5</sup> Codes 457-459 of list C of appendix D.  
<sup>6</sup> In addition to a coincident field of study, engineers could have earned a bachelor's degree or higher in codes 508, 529, 557, 559-561, 563-568 of list A of appendix D.



who had earned a bachelor's degree or higher in any field of science" and was employed as a college president, college dean, or administrator or manager of research or development, production or operations;<sup>10</sup> and who regarded himself as having a coincident profession; or (9) whose highest degree<sup>11</sup> was in a related field of study and who was employed in a coincident occupation and who regarded himself professionally to be a college president, dean, or administrator or manager of research or development, production or operations.<sup>12</sup> The field "engineers" also includes any individual who failed to meet any of the above 9 criteria but who had completed a minimum of two years of a program of study leading to a bachelor's degree in engineering or a related field of study before 1968, and was employed as an engineer, and regarded himself professionally to be an engineer or a manager or administrator of research or development, production or operations; or who earned an associate degree before 1968, and was employed as an engineer, and regarded himself professionally to be an engineer or a manager or administrator of research or development, production, or operations.<sup>13</sup>

Some respondents to the 1974 survey reported "operations research analyst"<sup>14</sup> as their occupation or profession. The National Science Foundation determined that certain of the above criteria should classify these persons as either "mathematicians" or "engineers." Such an individual, therefore, is classified by criteria 3 or 7 as a "mathematician" if he, depending upon the criterion specified, was either employed as or regarded himself professionally as an "operations research analyst" and met the educational requirement of the specified criterion as it related to mathematicians. Likewise, the individual on the criterion specified, his occupation and/or profession was "operations research analyst" instead of "engineer," and he met all the other requirements of the specified criterion as these related to engineers. In addition, an individual is classified as an engineer if he met none of the above criteria, but had earned a bachelor's degree in a field of study other than one coincident to a field of science or engineering, was employed as a college president, dean, manager or administrator of research or development, production or operations,<sup>15</sup> and regarded himself professionally as an "operations research analyst."

<sup>10</sup> For all fields except economists, codes 501-587 and 593 of list A of appendix D for economists, codes 557, 558, 573-587, and 593 of list A of appendix D.

<sup>11</sup> Codes 457-459 of list C of appendix D.

<sup>12</sup> At the bachelor's level or higher.

<sup>13</sup> Codes 457-459 of list C of appendix D.

<sup>14</sup> Codes 458 and 459 of list C of appendix D.

<sup>15</sup> Code 423 of list C of appendix D.

<sup>16</sup> Codes 457-459 of list C of appendix D.

## Weighting and Estimating Procedures

**Estimation procedure**—As mentioned earlier, the estimates for this report were prepared by a ratio estimation procedure, using the weights derived for the 1972 survey. Therefore, no adjustment was made for nonresponse in the 1974 survey. The weighting procedure for the 1972 survey involved first, the preparation of preliminary estimates by weighting the results for each sample person by the reciprocal of the probability of selection. As a second step, these weights were adjusted by applying a factor for each age, sex, and race cell within each of the sample's occupational categories from the 1970 census. Within each of the cells, the factor was computed as the ratio of the 1970 census count to the preliminary estimate. The final weight was the factor multiplied by the original weight of each person. To the extent the correlation between the data being tabulated and the estimated count of persons in the cells are positively correlated, the ratio estimation procedure will improve the reliability of the estimate.

**Reliability of the estimates**—The sample used for this survey's only one of a large number of possible samples that could have been selected using the same sample design, sample selection, and measurement procedures. Estimates derived from these samples would differ from each other. In addition, the estimates are subject to errors of response and of reporting, as occur in all survey work. The standard error of a survey estimate is primarily a measure of the variation among the estimates from all possible samples and is, therefore, a measure of the precision with which an estimate from a particular sample approximates the average result of all possible samples. As calculated for this report, the standard error also partially measures the effect of certain nonsampling errors but does not measure any systematic biases in the data. The estimate and its associated standard error may be used to construct a confidence interval, that is, an interval having a prescribed probability that would include the average result of all possible samples. The chances are about two out of three (about 68 percent) that the survey estimate will differ from the average result of all possible samples by less than one standard error (plus or minus). Similarly, the chances are about 19 out of 20 that the difference would be less than twice the standard error and 99 out of 100 that it would be less than 2-1/2 times the standard error.

A number of approximations and generalizations have been used to produce standard errors, and hence the standard errors

presented in the following tables should be regarded as approximations rather than precise measurements of the standard error in question.

There are two standard error tables shown for each group: A table for estimating standard errors of absolute numbers (total number of persons in a group, having a certain characteristic) and a table to obtain the standard errors of percentages.

The standard errors for estimating numbers or percents not shown in either set of tables may be approximated by linear interpolation. For example, of the 55,160 persons in the computer specialist field in 1974, 26.9 percent have the master's degree as the highest degree held in 1974. The standard error of this percent as computed from table A-3b is 1.1 percent. Based on these data, we may conclude that the expected proportion of computer specialists with the master's degree as the highest degree held in 1974 lies within the interval 24.7 percent to 29.1 percent with 95-percent confidence.

The figures in these tables are not directly applicable to standard errors of differences between two sample estimates. The standard error of the estimated difference between two figures may be approximated by the square root of the sum of the squares of the standard error of each estimate. This approximation will yield an exact result when the two characteristics are uncorrelated. If the two characteristics are positively correlated, the approximation will overestimate the standard error of the difference. For a difference between two sample estimates, one of which represents a subclass of the other, the table can be used with the difference considered as the sample estimate.

For example, of the 55,160 computer specialists in 1974, 4.7 percent have the Ph.D. as the highest degree held in 1974. The standard error of this percent as computed from table A-3b is 0.5 percent. The standard error of the difference between the above percentages (i.e., 26.9 - 4.7 = 22.2 percent) is then approximately

$$(1.1)^2 + (0.5)^2 = 1.2 \text{ percent}$$

Based on these data, we may conclude with 95 percent confidence that the average estimate of the difference of the percentages derived from all possible samples lies within the interval 19.8 percent to 24.6 percent.

# STANDARD ERRORS OF TOTALS AND PERCENTAGES FOR:

## All Scientific and Technical Fields

Table A-2a.—Standard errors of totals

Size of estimate	Estimated standard error
1,000	190
5,000	430
10,000	610
20,000	850
50,000	1,320
100,000	1,830
150,000	2,180
300,000	2,810
500,000	3,120
800,000	2,770
1,080,000	2,650

Table A-2b.—Standard errors of percentages

Base of percent	Estimated percent							
	1 or 99	2 or 98	5 or 95	10 or 90	20 or 80	25 or 75	50	
1,000	1.9	2.6	4.1	5.7	7.6	8.3	9.6	
5,000	1.3	1.2	1.8	2.5	3.4	3.7	4.2	
10,000	.8	.8	1.3	1.8	2.4	2.6	3.0	
20,000	.6	.6	.9	1.2	1.7	1.8	2.1	
50,000	.4	.3	.5	.8	1.0	1.1	1.3	
100,000	.19	.26	.4	.5	.7	.8	.9	
150,000	.15	.21	.3	.4	.6	.6	.7	
300,000	.11	.15	.2	.3	.4	.4	.5	
500,000	.08	.12	.18	.25	.3	.3	.4	
800,000	.06	.09	.14	.20	.27	.29	.3	
1,080,000	.05	.08	.12	.17	.23	.25	.2	

## Computer specialists, psychologists, physical scientists, and medical scientists

Table A-3a.—Standard errors of totals

Size of estimate	Estimated standard error
50	40
200	90
500	140
1,000	200
3,000	340
5,000	430
10,000	590
15,000	690
25,000	810
40,000	840
60,000	600
75,000	340
100,000	210
121,000	170

Table A-3b.—Standard errors of percentages

Base of percent	Estimated percent					
	2 or 98	5 or 95	10 or 90	20 or 80	25 or 75	50
50	12.7	19.8	27.3	36.4	39.4	45.5
200	6.3	9.9	13.6	18.2	19.7	22.7
500	4.0	6.2	8.6	11.5	12.4	14.3
1,000	2.8	4.4	6.1	8.1	8.8	10.1
3,000	1.6	2.5	3.5	4.7	5.0	5.8
5,000	1.2	1.9	2.7	3.6	3.9	4.5
10,000	.9	1.4	1.9	2.5	2.7	3.2
15,000	.7	1.1	1.5	2.1	2.2	2.6
25,000	.5	.8	1.2	1.6	1.7	2.0
40,000	.4	.7	.9	1.2	1.3	1.6
60,000	.3	.5	.7	1.0	1.1	1.3
75,000	.3	.5	.7	.9	1.0	1.1
100,000	.2	.4	.6	.8	.8	1.0
121,000	.2	.4	.5	.7	.8	.9

## Chemists

Table A-4a.—Standard errors of totals

Size of estimate	Estimated standard error
50	40
200	80
500	130
1,000	190
3,000	320
5,000	420
10,000	570
15,000	680
25,000	810
40,000	900
60,000	840
87,300	600

Table A-4b.—Standard errors of percentages

Base of percent	Estimated percent					
	2 or 98	5 or 95	10 or 90	20 or 80	25 or 75	50
50	12.1	18.8	25.9	34.6	37.4	43.2
200	6.0	9.4	12.9	17.3	18.7	21.6
500	3.8	5.9	8.2	10.9	11.8	13.6
1,000	2.7	4.2	5.8	7.7	8.3	9.6
3,000	1.5	2.4	3.3	4.4	4.8	5.5
5,000	1.2	1.8	2.5	3.4	3.7	4.3
10,000	.8	1.3	1.8	2.4	2.6	3.0
15,000	.6	1.0	1.4	1.9	2.1	2.4
25,000	.5	.8	1.1	1.5	1.6	1.9
40,000	.4	.6	.9	1.2	1.3	1.5
60,000	.3	.5	.7	.9	1.0	1.2
87,300	.2	.4	.6	.8	.8	1.0



## Physicists and astronomers

**Table A-5a.—Standard errors of totals**

Size of estimate	Estimated standard error
50	40
200	80
500	130
1,000	190
1,500	210
2,500	290
5,000	390
10,000	490
15,000	500
20,000	450
27,500	370

**Table A-5b.—Standard errors of percentages**

Base of percent	Estimated percent					
	2 or 98	5 or 95	10 or 90	20 or 80	25 or 75	50
50	12.1	18.9	26.0	34.7	37.6	43.4
200	6.0	9.4	13.0	17.3	18.8	21.7
500	3.8	5.9	8.2	10.9	11.8	13.7
1,000	2.7	4.2	5.8	7.7	8.4	9.7
1,500	2.2	3.4	4.7	6.3	6.8	7.9
2,500	1.7	2.6	3.6	4.9	5.3	6.1
5,000	1.2	1.8	2.6	3.4	3.7	4.3
10,000	.8	1.3	1.8	2.4	2.6	3.0
15,000	.7	1.0	1.5	2.0	2.1	2.5
20,000	.6	.9	1.3	1.7	1.8	2.1
27,500	.5	.8	1.1	1.4	1.6	1.8

## Mathematical scientists, mathematicians, and statisticians

**Table A-6a.—Standard errors of totals**

Size of estimate	Estimated standard error
50	30
200	70
500	110
1,000	160
3,000	270
5,000	340
10,000	440
15,000	500
25,000	500
40,000	370

**Table A-6b.—Standard errors of percentages**

Base of percent	Estimated percent					
	2 or 98	5 or 95	10 or 90	20 or 80	25 or 75	50
50	10.2	15.9	21.9	29.2	31.6	36.5
200	5.1	7.9	10.9	14.6	15.8	18.2
500	3.2	5.0	6.9	9.2	10.0	11.5
1,000	2.2	3.5	4.9	6.5	7.0	8.1
3,000	1.3	2.0	2.8	3.7	4.0	4.7
5,000	1.0	1.5	2.1	2.9	3.1	3.6
10,000	.7	1.1	1.5	2.0	2.2	2.5
15,000	.5	.9	1.2	1.6	1.8	2.1
25,000	.4	.7	.9	1.3	1.4	1.6
40,000	.3	.5	.7	1.0	1.1	1.2

## Environmental scientists, earth scientists, and biological scientists

**Table A-7a.—Standard errors of totals**

Size of estimate	Estimated standard error
50	40
200	80
500	130
1,000	190
1,500	230
2,500	300
5,000	400
10,000	520
15,000	580
20,000	590
30,000	440
36,000	360

**Table A-7b.—Standard errors of percentages**

Base of percent	Estimated percent					
	2 or 98	5 or 95	10 or 90	20 or 80	25 or 75	50
50	12.3	19.1	26.4	35.2	38.1	44.0
200	6.1	9.5	13.2	17.6	19.0	22.0
500	3.8	6.0	8.3	11.1	12.0	13.9
1,000	2.7	4.2	5.9	7.8	8.5	9.8
1,500	2.2	3.5	4.8	6.4	6.9	8.0
2,500	1.7	2.7	3.7	4.9	5.3	6.2
5,000	1.2	1.9	2.6	3.5	3.8	4.4
10,000	.8	1.3	1.8	2.4	2.6	3.1
15,000	.7	1.1	1.5	2.0	2.2	2.5
20,000	.6	.9	1.3	1.7	1.9	2.2
30,000	.5	.7	1.0	1.4	1.5	1.7
36,000	.4	.7	.9	1.3	1.4	1.6

## Oceanographers and other physical scientists

**Table A-8a.—Standard errors of totals**

Size of estimate	Estimated standard error
50	30
200	60
500	90
1,000	120
1,500	140
2,500	150
3,000	160
4,000	150
5,000	120
6,150	110

**Table A-8b.—Standard errors of percentages**

Base of percent	Estimated percent					
	2 or 98	5 or 95	10 or 90	20 or 80	25 or 75	50
50	8.1	12.6	17.4	23.2	25.2	29.1
200	4.0	6.3	8.7	11.6	12.6	14.5
500	2.5	4.0	5.5	7.3	7.9	9.2
1,000	1.8	2.8	3.9	5.2	5.6	6.5
1,500	1.4	2.3	3.1	4.2	4.6	5.3
2,500	1.1	1.7	2.4	3.2	3.5	4.1
3,000	1.0	1.6	2.2	3.0	3.2	3.7
4,000	.9	1.4	1.9	2.6	2.8	3.2
5,000	.8	1.2	1.7	2.3	2.5	2.9
6,150	.7	1.1	1.5	2.1	2.2	2.6

## Atmospheric scientists

**Table A-9a.—Standard errors of totals**

Size of estimate	Estimated standard error
50	30
200	80
500	115
1,000	150
1,500	160
2,000	150
2,500	140
3,000	100
3,350	80

**Table A-9b.—Standard errors of percentages**

Base of percent	Estimated percent					
	2 or 98	5 or 95	10 or 90	20 or 80	25 or 75	50
50	11.0	17.2	23.7	31.6	34.2	39.5
200	5.5	8.6	11.8	15.8	17.1	19.7
500	3.5	5.4	7.5	10.0	10.8	12.5
1,000	2.4	3.8	5.3	7.0	7.6	8.8
1,500	2.0	3.1	4.3	5.7	6.2	7.2
2,000	1.7	2.7	3.7	5.0	5.4	6.2
2,500	1.5	2.4	3.3	4.4	4.8	5.5
3,000	1.4	2.2	3.0	4.0	4.4	5.1
3,350	1.3	2.1	2.8	3.8	4.1	4.8

## Engineers

**Table A-10a.—Standard errors of totals**

Size of estimate	Estimated standard error
500	140
1,000	200
5,000	450
10,000	630
20,000	890
40,000	1,240
75,000	1,650
150,000	2,180
200,000	2,710
300,000	2,630
400,000	2,620
500,000	2,390
690,000	2,100

**Table A-10b.—Standard errors of percentages**

Base of percent	Estimated percent					
	2 or 98	5 or 95	10 or 90	20 or 80	25 or 75	50
500	4.0	6.2	8.5	11.4	12.3	14.2
1,000	2.8	4.4	6.0	8.0	8.7	10.1
5,000	1.2	1.9	2.7	3.6	3.9	4.5
10,000	.8	1.3	1.9	2.5	2.7	3.1
20,000	.6	.9	1.3	1.8	1.9	2.2
40,000	.4	.6	.9	1.2	1.3	1.5
75,000	.3	.5	.7	.9	1.0	1.1
150,000	.2	.3	.4	.6	.7	.8
200,000	.2	.3	.4	.5	.6	.7
300,000	.1	.2	.3	.4	.5	.5
400,000	.1	.2	.3	.4	.4	.5
500,000	.1	.1	.2	.3	.3	.4
690,000	.1	.1	.2	.3	.3	.3

## Life scientists and agricultural scientists

**Table A-11a.—Standard errors of totals**

Size of estimate	Estimated standard error
50	40
200	90
500	140
1,000	210
3,000	350
5,000	450
10,000	621
15,000	605
25,000	863
40,000	915
60,000	739
75,500	640

**Table A-11b.—Standard errors of percentages**

Base of percent	Estimated percent					
	2 or 98	5 or 95	10 or 90	20 or 80	25 or 75	50
50	13.2	20.5	28.3	37.7	40.8	47.2
200	6.6	10.2	14.1	16.8	20.4	23.6
500	4.1	6.5	8.9	9.1	12.9	14.9
1,000	2.9	4.6	6.3	8.4	9.1	10.5
3,000	1.7	2.6	3.6	4.8	5.2	6.0
5,000	1.3	2.0	2.8	3.7	4.0	4.7
10,000	.9	1.4	2.0	2.6	2.8	3.3
15,000	.7	1.1	1.6	2.1	2.3	2.7
25,000	.5	.9	1.2	1.6	1.8	2.1
40,000	.4	.7	1.0	1.3	1.8	1.6
60,000	.3	.5	.8	1.0	1.1	1.3
75,500	.3	.5	.7	.9	1.0	1.2

## Social scientists, sociologists, anthropologists, and other social scientists

**Table A-12a.—Standard errors of totals**

Size of estimate	Estimated standard error
50	30
200	100
500	160
1,000	230
3,000	410
5,000	510
10,000	700
15,000	830
25,000	990
40,000	1,080
60,000	970
82,800	710

**Table A-12b.—Standard errors of percentages**

Base of percent	Estimated percent					
	2 or 98	5 or 95	10 or 90	20 or 80	25 or 75	50
50	14.9	23.1	31.9	42.5	46.0	53.2
200	7.4	11.5	15.9	21.2	23.0	26.6
500	4.7	7.3	10.0	13.4	14.5	16.8
1,000	3.3	5.1	7.1	9.5	10.3	11.9
3,000	1.9	2.9	4.1	5.4	5.9	6.8
5,000	1.4	2.3	3.1	4.2	4.6	5.3
10,000	1.0	1.6	2.2	3.0	3.2	3.7
15,000	.8	1.3	1.8	2.4	2.6	3.0
25,000	.6	1.0	1.4	1.9	2.0	2.3
40,000	.5	.8	1.1	1.5	1.6	1.8
60,000	.4	.6	.9	1.2	1.3	1.5
82,800	.3	.5	.7	1.0	1.1	1.3

## Economists

**Table A-13a.—Standard errors of totals**

Size of estimate	Estimated standard error
50	40
200	80
500	130
1,000	190
2,500	270
4,000	330
6,000	380
8,000	410
10,000	420
13,000	400
16,000	330
19,800	240

**Table A-13b.—Standard errors of percentages**

Base of percent	Estimated percent					
	2 or 98	5 or 95	10 or 90	20 or 80	25 or 75	50
50	11.8	18.3	25.2	33.7	36.5	42.1
200	5.9	9.1	12.6	16.8	18.2	21.0
500	3.7	5.8	7.9	10.6	11.5	13.3
1,000	2.6	4.1	5.6	7.5	8.1	9.4
2,500	1.6	2.5	3.5	4.7	5.1	5.9
4,000	1.3	2.0	2.8	3.7	4.0	4.7
6,000	1.0	1.6	2.3	3.0	3.3	3.8
8,000	.9	1.4	1.9	2.6	2.8	3.3
10,000	.8	1.2	1.7	2.3	2.5	2.9
13,000	.7	1.1	1.5	2.0	2.2	2.6
16,000	.6	1.0	1.4	1.8	2.0	2.3
19,800	.5	.9	1.2	1.6	1.8	2.1

### Sample Selection Process for the 1974 Survey

The 156,116 sample cases for the 1972 Professional, Technical, and Scientific Manpower Survey were separated into two segments. The "target" segment consisted of 150,358 persons who were recorded by the 1970 Census of Population as being in one of the 40 groups of scientific, engineering, or related occupations in the 1970 experienced civilian labor force. The "residual" segment consisted of 5,758 persons who were recorded by the 1970 census as having four or more years of college and as being in the 1970 experienced civilian labor force in occupations other than the 40 target occupational groups.

The sample selection for the 1974 survey focused exclusively on the "target" segment. From this "target" segment, 115,557 persons responded in the 1972 survey. Based on criteria established by the National Science Foundation, these respondents were classified as "in-scope"; that is, in one of 8 major fields of science or engineering in 1972, or as "out-of-scope"; this is, outside a field of science or engineering in 1972. The in-scope cases, numbering 50,093 persons, became the sample for the 1974 survey.

Table A-14 presents a distribution of the 1972 respondents from the 40 groups of census occupations in the "target" segment according to their field of science or engineering in 1972.

Table A-14.—Field of science or engineering in 1972, by 1970 Census occupation

1970 census occupation <sup>1</sup>	Total	Computer specialists	Engineers	Field of science or engineering in 1972										
				Mathematical specialists			Life scientists			Physical scientists				
				Total	Mathematicians	Statisticians	Total	Agricultural scientists	Biological scientists	Medical scientists	Total	Chemists	Physicists and astronomers	Other physical scientists
1 Total target occupations	115,557	3,391	25,797	2,185	1,604	581	4,891	2,025	2,139	727	6,248	3,644	2,128	476
2 Operations and computer specialists	14,820	2,809	780	189	163	26	32	9	17	6	61	18	35	8
3 Computer programmers	4,515	732	101	67	61	6	8	2	5	1	15	3	9	3
4 Computer systems analysts	4,596	1,453	185	59	50	9	11	4	5	2	18	4	11	3
5 Computer specialists, n.e.c.	991	215	116	17	16	1	3	1	1	1	7	1	6	—
6 Operations and systems analysts	4,718	409	378	46	36	10	10	2	6	2	21	10	9	2
7 Engineers	39,572	202	22,036	89	72	17	67	29	31	7	410	270	126	14
8 Aeronautical and astronautical engineers	4,715	23	2,985	23	21	2	6	2	3	1	46	12	31	3
9 Chemical engineers	4,308	14	3,233	5	5	—	9	2	6	1	192	173	16	3
10 Civil engineers	4,872	7	2,905	4	3	1	8	6	1	1	2	2	—	—
11 Electrical and electronic engineers	5,429	68	3,301	11	10	1	2	1	—	1	36	7	27	2
12 Industrial engineers	4,767	23	1,634	23	12	11	14	5	8	1	37	27	8	2
13 Mechanical engineers	4,761	13	2,824	5	5	—	3	1	2	—	6	—	6	—
14 Metallurgical and materials engineers	1,231	1	824	—	—	—	7	3	3	1	18	14	4	—
15 Mining and petroleum engineers	1,193	—	803	—	—	—	3	1	1	1	6	3	3	—
16 Sales engineers	4,060	14	1,328	1	1	—	3	1	2	—	12	7	4	1
17 Engineers, n.e.c., and engineering teachers	4,236	39	2,199	17	15	2	12	7	5	—	55	25	27	3
18 Mathematical specialists	4,579	155	139	1,679	1,218	461	22	4	12	6	50	21	25	4
19 Actuaries and statisticians	2,052	16	62	405	34	371	13	4	6	3	14	9	3	2
20 Mathematicians	2,527	139	77	1,274	1,184	90	9	—	6	3	36	12	22	2
21 Life scientists	6,611	4	71	6	1	5	3,713	1,718	1,683	312	291	91	7	193
22 Agricultural scientists	1,358	—	33	3	—	3	606	517	86	3	43	7	—	36
23 Foresters and conservationists <sup>2</sup>	1,369	1	17	—	—	—	1,037	1,018	17	2	14	2	—	12
24 Biological scientists	3,884	3	21	3	1	2	2,070	183	1,580	307	234	82	7	145
25 Physical scientists	10,560	37	803	37	34	3	203	40	98	65	4,634	2,707	1,753	174
26 Chemists	4,883	9	334	7	5	2	138	28	67	43	2,692	2,641	13	38
27 Physicists	2,888	18	323	15	15	—	38	2	15	21	1,822	37	1,709	76
28 Other physical scientists	2,789	10	146	15	14	1	27	10	16	1	120	29	31	60
29 Social scientists	10,116	67	217	60	27	33	73	21	24	28	54	29	9	16
30 Economists	4,564	63	170	44	15	29	30	19	7	4	23	18	3	2
31 Psychologists	3,030	2	5	3	1	2	73	—	5	17	7	2	—	5
32 Other social scientists	2,522	2	42	13	11	2	20	2	11	7	24	9	6	9
33 Engineering and science technicians	11,956	23	506	11	8	3	91	34	41	16	211	188	13	10
34 Agricultural, biological, and chemical technicians, excl. health technicians	2,105	2	34	2	2	—	50	19	23	8	158	150	2	6
35 Draftsmen	2,434	—	126	—	—	—	2	2	—	—	2	—	—	2
36 Electrical and electronic engineering technicians	2,025	8	79	2	1	1	2	—	1	1	5	4	1	—
37 Industrial and mechanical engineering technicians, and numerical control tool programmers	1,327	8	99	5	3	2	—	—	—	—	6	5	1	—
38 Surveyors	2,010	—	73	1	1	—	10	9	1	—	1	1	—	—
39 Mathematical technicians and engineering and science technicians, n.e.c.	2,055	5	95	1	1	—	27	4	16	7	39	28	9	2
40 Personnel and labor relations workers	2,506	5	50	7	6	1	14	7	4	3	12	8	3	1
41 Health specialties teachers	1,055	—	5	—	—	—	220	5	22	193	19	9	3	7
42 Trade, industrial, and technical teachers	122	1	1	—	—	—	2	—	—	2	—	—	—	—
43 Miscellaneous teachers	659	1	18	3	3	—	6	1	2	3	8	2	—	6
44 Teachers, subject not specified	2,018	7	125	33	27	6	123	24	78	21	98	47	42	9
45 Technicians, n.e.c.	1,234	3	17	1	1	—	5	2	2	1	8	6	2	—
46 Research workers, not specified	1,984	14	233	33	18	15	178	55	80	43	259	158	77	24
47 School administrators, college <sup>2</sup>	1,138	4	28	4	3	1	36	10	20	6	16	9	4	3
48 Managers and administrators, n.e.c. <sup>2</sup>	6,627	59	768	33	23	10	106	66	25	15	117	81	29	7

See footnote at end of table.

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Table A-14.—Field of science or engineering in 1972, by 1970 Census occupation—Continued

1970 census occupation <sup>1</sup>	Field of science or engineering in 1972									Not in a field of science or engineering in 1972
	Total	Environmental scientists				Psychologists	Social scientists			
		Atmospheric scientists	Earth scientists	Cartographers	Economists		Sociologists and anthropologists	Other social scientists		
1 Total target occupations .....	2,095	150	1,898	47	2,400	2,998	1,216	696	1,086	65,464
2 Operations and computer specialists .....	19	2	17	—	22	106	50	12	44	10,802
3 Computer programmers .....	6	1	5	—	9	5	4	—	1	3,572
4 Computer systems analysts .....	5	1	4	—	6	34	18	4	12	2,825
5 Computer specialists, n.e.c. ....	5	—	5	—	—	4	1	1	2	624
6 Operations and systems analysts .....	3	—	3	—	7	63	27	7	29	3,781
7 Engineers .....	71	6	65	—	21	69	31	6	30	16,607
8 Aeronautical and astronomical engineers .....	4	1	3	—	3	10	3	—	7	1,615
9 Chemical engineers .....	4	2	2	—	2	3	2	1	—	846
10 Civil engineers .....	14	—	14	—	1	6	2	—	4	1,925
11 Electrical and electronic engineers .....	2	1	1	—	—	4	2	—	2	2,005
12 Industrial engineers .....	4	2	2	—	7	27	15	2	10	2,998
13 Mechanical engineers .....	1	—	1	—	1	3	1	1	1	1,905
14 Metallurgical and materials engineers .....	1	—	1	—	1	1	—	—	1	378
15 Mining and petroleum engineers .....	33	—	33	—	—	1	—	1	—	347
16 Sales engineers .....	2	—	2	—	2	5	2	1	2	2,693
17 Engineers, n.e.c., and engineering teachers .....	6	—	6	—	4	9	4	2	3	1,895
18 Mathematical specialists .....	8	—	8	—	25	75	36	10	29	2,426
19 Actuaries and statisticians .....	1	—	1	—	15	56	27	7	22	1,470
20 Mathematicians .....	7	—	7	—	10	19	9	3	7	956
21 Life scientists .....	53	5	44	4	48	46	19	10	17	2,379
22 Agricultural scientists .....	12	2	10	—	—	25	16	2	7	636
23 Foresters and conservationists <sup>2</sup> .....	9	—	8	1	—	3	1	—	2	288
24 Biological scientists .....	32	3	26	3	48	18	2	8	8	1,455
25 Physical scientists .....	1,815	123	1,660	32	8	25	5	8	12	2,998
26 Chemists .....	13	1	11	1	2	8	2	4	2	1,680
27 Physicists .....	27	2	23	2	6	8	2	4	2	631
28 Other physical scientists .....	1,775	120	1,566	29	—	9	1	—	8	687
29 Social scientists .....	10	—	10	—	2,108	2,111	924	541	646	5,416
30 Economists .....	3	—	3	—	10	992	917	5	70	3,229
31 Psychologists .....	—	—	—	—	2,082	117	—	17	100	791
32 Other social scientists .....	7	—	7	—	16	1,002	7	519	476	1,396
33 Engineering and science technicians .....	15	1	14	—	5	11	2	5	4	11,083
34 Agricultural, biological, and chemical technicians, excl. health technicians .....	3	—	3	—	—	2	—	1	1	1,854
35 Draftsmen .....	3	—	3	—	2	—	—	—	—	2,299
36 Electrical and electronic engineering technicians .....	1	1	—	—	—	2	1	1	—	1,926
37 Industrial and mechanical engineering technicians, and numerical control tool programmers .....	—	—	—	—	—	2	1	—	1	1,207
38 Surveyors .....	—	—	—	—	—	2	—	1	1	1,923
39 Mathematical technicians and engineering and science technicians, n.e.c. ....	8	—	8	—	3	3	—	2	1	1,874
40 Personnel and labor relations workers .....	1	—	1	—	20	53	9	4	40	2,344
41 Health specialties teachers .....	1	—	1	—	28	11	1	2	8	771
42 Trade, industrial, and technical teachers .....	—	—	—	—	1	1	—	—	1	116
43 Miscellaneous teachers .....	13	2	11	—	1	49	1	2	46	560
44 Teachers, subject not specified .....	25	—	23	2	61	127	32	46	49	1,419
45 Technicians, n.e.c. ....	2	1	1	—	1	3	—	1	2	1,194
46 Research workers, not specified .....	37	7	21	9	68	111	27	25	59	1,051
47 School administrators, college <sup>2</sup> .....	5	—	5	—	35	53	17	6	30	957
48 Managers and administrators, n.e.c. <sup>2</sup> .....	20	3	17	—	36	147	62	16	69	5,341

<sup>1</sup> For detailed information on the composition of the census occupational categories, see U.S. Bureau of the Census, *Characteristics of Persons in Engineering and Scientific Occupations: 1972*, Technical Paper No. 33, 1974, appendix A (especially list A, page 120) for categories with line numbers 33-48, and appendix E for categories with line numbers 2-32.

<sup>2</sup> Excludes persons with fewer than four years of college.

NOTE: — Represents zero; n.e.c. Not elsewhere classified.

SOURCE: Bureau of the Census.

## Analysis of Response

Table A-15 presents response rates of various components of the sample for the 1974 National Survey of Scientists and Engineers. The characteristics presented here are based on the 1970 census or on the 1974 survey. Since the percentages in the table are based on a complete count of the sample cases, no reference to the standard error tables is necessary.

Men were more likely than women to respond in the 1974 survey. About 88 percent of the men in the survey panel responded, compared with about 85 percent of the women.

Response rates increased steadily by age from a rate of nearly 76 percent for panel members under 25-years old to almost 92 percent for the age group 55 to 59-years old. After peaking for the 55 to 59 years of age group, however, the response rate made slight declines in the groups above 60, dropping to around 90 percent for persons 65 years and over. Since nonrespondents include deceased persons, this slight decrease in rates is expected. Overall, except for the two youngest age groups, over 85 percent of each age category responded in the 1974 survey; even the youngest groups, however, had rates above 75 percent.

There were only slight differences in response rates for 1974 among the various fields of science or engineering in 1972. The highest response rate, 91 percent, was that for environmental scientists, one of the oldest groups on the average. The lowest response rate was approximately 86 percent for computer specialists, social scientists, and psychologists.

**Table A-15.—Percent distribution—analysis of response in the 1974 National Survey of Scientists and Engineers, by field of science or engineering in 1972, age in 1974, and sex**

Sex, age in 1974, and field of science or engineering in 1972	Total number	Percent distribution	
		Respondents	Nonrespondents
Total	50,093	86.2	11.8
SEX			
Male	46,877	88.3	11.7
Female	3,216	85.4	14.6
AGE IN 1974			
Under 25 years	9	75.8	24.2
25 to 29 years	4,730	83.9	16.1
30 to 34 years	9,174	85.6	14.4
35 to 39 years	8,312	87.1	12.9
40 to 44 years	7,797	88.8	11.2
45 to 49 years	7,057	89.7	10.3
50 to 54 years	5,646	91.3	8.7
55 to 59 years	3,495	91.6	8.4
60 to 64 years	2,161	91.1	8.9
65 years and over	1,622	89.5	10.5
FIELD OF SCIENCE OR ENGINEERING IN 1972			
Computer specialists	3,391	85.6	14.4
Engineers	25,797	88.1	11.9
Mathematical scientist	2,185	88.4	11.6
Life scientists	4,891	89.7	10.3
Physical scientists	6,248	89.9	10.1
Environmental scientists	2,095	90.7	9.3
Psychologists	2,488	86.1	13.9
Social scientists	2,998	85.5	14.5

SOURCE: Bureau of the Census.

# APPENDIX B

## Detailed Statistical Tables

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Table B-1.—Number of scientists and engineers by field, sex, and age: 1974

Field and sex	Total	Under 25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70 & over
Total, all fields	1,079,698	2,137	106,274	182,024	175,473	162,207	155,926	125,831	78,795	51,134	26,963	12,934
Male .....	1,025,741	2,064	92,692	170,567	168,549	156,452	151,291	121,353	75,992	48,708	25,659	12,414
Female .....	53,957	73	13,582	11,457	6,924	5,755	4,635	4,478	2,803	2,426	1,304	520
Physical scientists .....	121,011	304	11,003	22,276	21,525	16,745	15,738	13,770	9,087	5,919	3,166	1,478
Male .....	111,936	293	8,808	20,297	20,071	15,792	14,857	12,977	8,783	5,582	3,030	1,446
Female .....	9,075	11	2,195	1,979	1,454	953	881	793	304	337	136	32
Chemists .....	87,334	193	8,254	14,731	14,317	11,619	11,755	10,877	7,044	4,941	2,572	1,031
Male .....	79,231	193	6,166	12,906	13,119	10,303	10,966	10,172	6,789	4,666	2,436	1,015
Female .....	8,103	( <sup>1</sup> )	2,088	1,825	1,198	816	789	705	255	275	136	16
Physicists/ astronomers .....	27,519	100	2,286	6,431	5,928	4,139	2,963	2,370	1,545	882	483	394
Male .....	26,784	100	2,241	6,344	5,739	4,002	2,901	2,282	1,494	820	483	378
Female .....	735	( <sup>1</sup> )	45	87	189	137	62	88	49	62	( <sup>1</sup> )	16
Other physical scientists .....	6,158	11	463	1,114	1,280	987	1,020	523	500	96	111	53
Male .....	5,921	( <sup>1</sup> )	401	1,047	1,213	987	990	523	500	96	111	53
Female .....	237	11	62	67	67	( <sup>1</sup> )	30	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Mathematical scientists .....	27,833	86	3,603	7,098	4,907	3,822	3,259	1,694	1,465	1,100	553	246
Male .....	23,795	70	2,520	6,135	4,509	3,549	2,857	1,425	1,183	883	444	220
Female .....	4,038	16	1,083	963	398	273	402	269	282	217	109	26
Mathematicians .....	20,076	33	2,696	5,438	3,591	2,684	2,624	1,039	891	550	383	139
Male .....	17,412	33	1,902	4,842	3,241	2,508	2,270	932	776	451	318	139
Female .....	2,664	( <sup>1</sup> )	794	596	350	176	354	107	115	107	65	( <sup>1</sup> )
Statisticians .....	7,757	53	907	1,660	1,316	1,138	635	655	574	542	170	107
Male .....	6,383	37	618	1,293	1,268	1,041	587	493	407	432	126	81
Female .....	1,374	16	289	367	48	97	48	162	167	110	44	26
Computer specialists .....	55,186	15	9,629	18,439	10,844	8,370	4,404	1,979	932	254	164	76
Male .....	48,439	15	6,924	16,123	10,150	8,010	4,161	1,761	932	184	143	36
Female .....	6,747	( <sup>1</sup> )	2,705	2,316	694	360	323	218	( <sup>1</sup> )	70	21	40
Environmental scientists .....	29,466	15	2,007	3,888	4,273	5,656	4,873	4,225	2,201	1,606	523	199
Male .....	28,572	15	1,799	3,799	4,243	5,491	4,841	3,961	2,168	1,533	523	199
Female .....	894	( <sup>1</sup> )	208	89	30	165	32	264	33	73	( <sup>1</sup> )	( <sup>1</sup> )
Earth scientists .....	24,589	15	1,671	3,187	3,320	4,935	4,420	3,312	1,700	1,464	379	186
Male .....	23,772	15	1,475	3,098	3,290	4,770	4,388	3,113	1,667	1,391	379	186
Female .....	817	( <sup>1</sup> )	196	89	30	165	32	199	33	73	( <sup>1</sup> )	( <sup>1</sup> )
Oceanographers .....	1,563	( <sup>1</sup> )	186	331	489	106	157	111	40	35	108	( <sup>1</sup> )
Male .....	1,563	( <sup>1</sup> )	186	331	489	106	157	111	40	35	108	( <sup>1</sup> )
Female .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Atmospheric scientists .....	3,314	( <sup>1</sup> )	150	370	464	615	296	802	461	107	36	13
Male .....	3,237	( <sup>1</sup> )	138	370	464	615	296	737	461	107	36	13
Female .....	77	( <sup>1</sup> )	12	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	65	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Engineers .....	687,911	1,485	62,413	99,861	108,039	104,852	107,929	87,427	53,826	34,872	18,584	8,623
Male .....	684,552	1,485	61,314	99,176	107,761	104,545	107,661	87,188	53,698	34,677	18,424	8,623
Female .....	3,359	( <sup>1</sup> )	1,099	685	278	307	268	239	128	195	160	( <sup>1</sup> )
Life scientists .....	75,462	167	7,189	13,670	13,278	11,957	9,866	7,316	5,857	3,504	1,687	971
Male .....	65,483	137	5,347	11,524	11,740	10,539	9,217	6,445	5,198	2,944	1,477	915
Female .....	9,979	30	1,842	2,146	1,538	1,418	649	871	659	560	210	56
Biological scientists .....	35,935	98	4,346	7,703	6,131	5,147	4,644	2,815	2,535	1,465	698	353
Male .....	29,601	68	2,931	6,088	5,355	4,419	4,205	2,277	2,059	1,283	590	326
Female .....	6,334	30	1,415	1,615	776	728	439	538	476	182	108	27
Agricultural .....	28,790	69	2,064	4,075	5,214	4,947	4,130	3,236	2,310	1,388	833	524
Male .....	28,450	69	2,005	4,060	5,038	4,947	4,130	3,219	2,310	1,388	773	511
Female .....	340	( <sup>1</sup> )	59	15	176	( <sup>1</sup> )	( <sup>1</sup> )	17	( <sup>1</sup> )	( <sup>1</sup> )	60	13

Table B-1—Con.

Field and sex	Total	Under 25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70 & over
Medical scientists . . . . .	10,737	( <sup>1</sup> )	779	1,992	1,933	1,863	1,092	1,265	1,012	651	156	94
Male . . . . .	7,432	( <sup>1</sup> )	411	1,376	1,347	1,173	882	949	829	273	114	78
Female . . . . .	3,305	( <sup>1</sup> )	368	516	586	690	210	316	183	378	42	16
Psychologists . . . . .	34,889	35	4,698	7,164	5,287	4,909	4,801	3,694	1,951	1,186	730	434
Male . . . . .	25,105	19	3,128	5,494	3,956	3,609	3,654	2,815	1,245	637	327	211
Female . . . . .	9,784	16	1,570	1,670	1,331	1,300	1,137	879	706	549	403	223
Social scientists . . . . .	47,940	30	5,732	9,628	7,320	5,896	4,976	5,726	3,476	2,693	1,556	907
Male . . . . .	37,859	30	2,852	8,019	6,119	4,917	4,033	4,781	2,785	2,268	1,291	764
Female . . . . .	10,081	( <sup>1</sup> )	2,880	1,609	1,201	979	943	945	691	425	265	143
Economists . . . . .	19,754	15	1,800	3,552	2,840	2,596	2,006	2,719	1,369	1,479	841	537
Male . . . . .	17,854	15	1,455	3,035	2,696	2,386	1,888	2,497	1,233	1,413	699	537
Female . . . . .	1,900	( <sup>1</sup> )	345	517	144	210	118	222	136	66	142	( <sup>1</sup> )
Sociologists/ anthropologists . . . . .	11,158	( <sup>1</sup> )	1,495	2,706	1,844	1,202	1,158	1,413	648	528	81	83
Male . . . . .	8,039	( <sup>1</sup> )	637	2,162	1,374	877	813	1,170	486	368	69	83
Female . . . . .	3,119	( <sup>1</sup> )	858	544	470	325	345	243	162	160	12	( <sup>1</sup> )
Other social scientists . . . . .	17,028	15	2,437	3,370	2,636	2,098	1,812	1,594	1,459	686	634	287
Male . . . . .	11,966	15	760	2,822	2,049	1,654	1,332	1,114	1,066	487	523	144
Female . . . . .	5,062	( <sup>1</sup> )	1,677	548	587	444	480	480	393	199	111	143

<sup>1</sup>No cases reported.

SOURCE: National Science Foundation, National Sample, 1974.

Table B-2. — Number of scientists and engineers by field, race, and age: 1974

Field and race	Total	Under 25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70 & over
Total, all fields	1,079,698	2,137	106,274	182,024	175,473	162,207	155,926	125,831	78,795	51,134	26,963	12,934
White/ Caucasian . . . . .	1,039,010	2,119	103,120	173,175	166,491	154,214	150,630	122,607	77,276	50,245	26,372	12,761
Black/Negro . . . . .	11,102	( <sup>1</sup> )	833	2,024	2,073	2,092	1,629	1,219	528	418	247	39
American Indian . . . . .	903	( <sup>1</sup> )	35	201	237	178	176	14	( <sup>1</sup> )	26	( <sup>1</sup> )	36
Chinese, Japanese, Korean . . . . .	23,497	18	1,515	5,090	5,232	5,120	3,056	1,961	916	277	287	25
Other races . . . . .	5,186	( <sup>1</sup> )	771	1,534	1,440	603	435	30	75	168	57	73
Physical scientists . . . . .	121,011	304	11,003	22,276	21,525	16,745	15,738	13,770	9,087	5,919	3,166	1,478
White/ Caucasian . . . . .	113,860	304	10,602	20,903	19,544	14,776	15,199	13,416	8,719	5,801	3,118	1,478
Black/Negro . . . . .	2,206	( <sup>1</sup> )	103	472	500	643	141	97	214	16	20	( <sup>1</sup> )
American Indian . . . . .	240	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	168	72	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Chinese, Japanese, Korean . . . . .	3,905	( <sup>1</sup> )	134	607	1,107	1,169	374	257	127	102	28	( <sup>1</sup> )
Other races . . . . .	800	( <sup>1</sup> )	164	294	206	85	24	( <sup>1</sup> )	27	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Chemists . . . . .	87,334	193	8,254	14,731	14,317	11,619	11,755	10,877	7,044	4,941	2,572	1,031
White/ Caucasian . . . . .	81,858	193	7,920	13,579	12,864	10,153	11,298	10,605	6,836	4,855	2,524	1,031
Black/Negro . . . . .	1,853	( <sup>1</sup> )	52	456	470	595	125	81	54	( <sup>1</sup> )	20	( <sup>1</sup> )
American Indian . . . . .	240	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	168	72	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Chinese, Japanese, Korean . . . . .	2,649	( <sup>1</sup> )	118	418	643	730	308	191	127	86	28	( <sup>1</sup> )
Other races . . . . .	734	( <sup>1</sup> )	164	278	172	69	24	( <sup>1</sup> )	27	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Physicists/ astronomers . . . . .	27,519	100	2,286	6,431	5,928	4,139	2,963	2,370	1,543	882	483	394
White/ Caucasian . . . . .	26,118	100	2,254	6,227	5,430	3,668	2,897	2,288	1,527	850	483	394
Black/Negro . . . . .	128	( <sup>1</sup> )	16	16	( <sup>1</sup> )	32	16	16	16	16	( <sup>1</sup> )	( <sup>1</sup> )
American Indian . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Chinese, Japanese, Korean . . . . .	1,207	( <sup>1</sup> )	16	172	464	423	50	66	( <sup>1</sup> )	16	( <sup>1</sup> )	( <sup>1</sup> )
Other races . . . . .	66	( <sup>1</sup> )	( <sup>1</sup> )	16	34	16	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other physical scientists . . . . .	6,158	11	463	1,114	1,280	987	1,020	523	500	96	111	53
White/ Caucasian . . . . .	5,884	11	428	1,097	1,250	955	1,004	523	356	96	111	53
Black/Negro . . . . .	225	( <sup>1</sup> )	35	( <sup>1</sup> )	30	16	( <sup>1</sup> )	( <sup>1</sup> )	144	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
American Indian . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Chinese, Japanese, Korean . . . . .	49	( <sup>1</sup> )	( <sup>1</sup> )	17	( <sup>1</sup> )	16	16	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other races . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Mathematical scientists . . . . .	27,833	86	3,603	7,098	4,907	3,822	3,259	1,694	1,465	1,100	553	246
White/ Caucasian . . . . .	25,902	86	3,384	6,704	4,558	3,290	3,133	1,475	1,428	1,063	535	246
Black/Negro . . . . .	1,034	( <sup>1</sup> )	196	289	109	148	108	128	37	19	( <sup>1</sup> )	( <sup>1</sup> )
American Indian . . . . .	37	( <sup>1</sup> )	( <sup>1</sup> )	19	( <sup>1</sup> )	18	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Chinese, Japanese, Korean . . . . .	733	( <sup>1</sup> )	23	68	221	294	18	91	( <sup>1</sup> )	18	( <sup>1</sup> )	( <sup>1</sup> )
Other races . . . . .	127	( <sup>1</sup> )	( <sup>1</sup> )	18	19	72	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	18	( <sup>1</sup> )

Table B-2—Con.

Field and race	Total	Under 25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	64-69	70 & over
Mathematicians .....	20,076	33	2,696	5,438	3,591	2,684	2,624	1,039	891	558	383	139
White/												
Caucasian .....	18,833	33	2,533	5,138	3,371	2,428	2,536	878	873	521	383	139
Black/Negro .....	787	( <sup>1</sup> )	140	251	90	92	70	107	18	19	( <sup>1</sup> )	( <sup>1</sup> )
American												
Indian .....	18	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	18	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Chinese,												
Japanese,												
Korean .....	401	( <sup>1</sup> )	23	49	111	128	18	54	( <sup>1</sup> )	18	( <sup>1</sup> )	( <sup>1</sup> )
Other races ..	37	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	19	18	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Statisticians ..	7,757	53	907	1,660	1,316	1,138	635	655	574	542	170	107
White/												
Caucasian .....	7,069	53	851	1,565	1,187	862	597	597	555	542	152	107
Black/Negro ..	247	( <sup>1</sup> )	56	38	19	56	38	21	19	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
American												
Indian .....	19	( <sup>1</sup> )	( <sup>1</sup> )	19	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Chinese,												
Japanese,												
Korean .....	332	( <sup>1</sup> )	( <sup>1</sup> )	19	110	166	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other races ..	90	( <sup>1</sup> )	( <sup>1</sup> )	18	( <sup>1</sup> )	54	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	18	( <sup>1</sup> )
Computer specialists	55,186	15	9,629	18,439	10,844	8,370	4,484	1,979	932	254	164	76
White/												
Caucasian .....	53,274	15	9,447	17,975	10,471	7,937	4,294	1,825	886	254	94	76
Black/Negro ..	842	( <sup>1</sup> )	102	139	151	205	54	99	22	( <sup>1</sup> )	70	( <sup>1</sup> )
American												
Indian .....	50	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	50	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Chinese,												
Japanese,												
Korean .....	708	( <sup>1</sup> )	44	265	79	206	35	55	24	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other races ..	312	( <sup>1</sup> )	36	60	143	22	51	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Environmental scientists .....	29,466	15	2,007	3,888	4,273	5,656	4,873	4,225	2,201	1,606	523	199
White/												
Caucasian .....	28,913	15	1,972	3,875	4,203	5,412	4,848	4,182	2,189	1,567	451	199
Black/Negro ..	47	( <sup>1</sup> )	35	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	12	( <sup>1</sup> )	( <sup>1</sup> )
American												
Indian .....	70	( <sup>1</sup> )	( <sup>1</sup> )	13	( <sup>1</sup> )	57	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Chinese,												
Japanese,												
Korean .....	409	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	56	187	12	43	12	27	72	( <sup>1</sup> )
Other Races ..	27	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	14	( <sup>1</sup> )	13	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Earth scientists	24,589	15	1,671	3,187	3,320	4,935	4,420	3,312	1,700	1,464	379	186
White/												
Caucasian .....	24,201	15	1,536	3,174	3,295	4,691	4,407	3,281	1,700	1,437	379	186
Black/Negro ..	35	( <sup>1</sup> )	35	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
American												
Indian .....	70	( <sup>1</sup> )	( <sup>1</sup> )	13	( <sup>1</sup> )	57	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Chinese,												
Japanese,												
Korean .....	256	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	11	187	( <sup>1</sup> )	31	( <sup>1</sup> )	27	( <sup>1</sup> )	( <sup>1</sup> )
Other races ..	27	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	14	( <sup>1</sup> )	13	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Oceanographers .....	1,563	( <sup>1</sup> )	186	331	489	106	157	111	40	35	108	( <sup>1</sup> )
White/												
Caucasian .....	1,474	( <sup>1</sup> )	186	331	472	106	157	111	40	35	36	( <sup>1</sup> )
Black/Negro ..	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
American												
Indian .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Chinese,												
Japanese,												
Korean .....	89	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	17	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	72	( <sup>1</sup> )
Other races ..	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )

Field and race	Total	Under 25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70 & over
Atmospheric scientists	3,314	( <sup>1</sup> )	150	370	464	615	296	802	461	107	36	13
White/												
Caucasian	3,238	( <sup>1</sup> )	150	370	436	615	284	790	449	95	36	13
Black/Negro	12	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	12	( <sup>1</sup> )	( <sup>1</sup> )
American												
Indian	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Chinese, Japanese, Korean	64	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	28	( <sup>1</sup> )	12	12	12	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other races	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Engineers	687,911	1,485	62,413	99,861	108,039	104,852	107,929	87,427	53,826	34,872	18,584	8,623
White/												
Caucasian	664,721	1,467	60,354	94,176	103,183	101,226	104,323	85,590	53,096	34,347	18,445	8,514
Black/Negro	4,492	( <sup>1</sup> )	328	889	861	542	947	513	170	242	( <sup>1</sup> )	( <sup>1</sup> )
American												
Indian	336	( <sup>1</sup> )	15	152	( <sup>1</sup> )	31	89	( <sup>1</sup> )	( <sup>1</sup> )	13	( <sup>1</sup> )	36
Chinese, Japanese, Korean	15,003	18	1,159	3,636	3,129	2,720	2,289	1,324	526	102	100	( <sup>1</sup> )
Other races	3,359	( <sup>1</sup> )	557	1,008	866	333	281	( <sup>1</sup> )	34	168	39	73
Life scientists	75,462	167	7,189	13,670	13,278	11,957	9,866	7,316	5,857	3,504	1,687	971
White/												
Caucasian	72,059	167	6,992	13,147	12,375	11,276	9,327	7,034	5,720	3,376	1,687	958
Black/Negro	1,173	( <sup>1</sup> )	28	96	252	257	295	145	13	87	( <sup>1</sup> )	( <sup>1</sup> )
American												
Indian	108	( <sup>1</sup> )	( <sup>1</sup> )	17	51	( <sup>1</sup> )	13	14	( <sup>1</sup> )	13	( <sup>1</sup> )	( <sup>1</sup> )
Chinese, Japanese, Korean	1,768	( <sup>1</sup> )	155	363	455	351	184	109	110	28	( <sup>1</sup> )	13
Other races	354	( <sup>1</sup> )	14	47	145	73	47	14	14	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Biological scientists	35,935	98	4,346	7,703	6,131	5,147	4,644	2,815	2,535	1,465	698	353
White/												
Caucasian	33,643	98	4,176	7,346	5,443	4,788	4,224	2,714	2,439	1,364	698	353
Black/Negro	846	( <sup>1</sup> )	28	79	226	134	232	47	13	87	( <sup>1</sup> )	( <sup>1</sup> )
American												
Indian	65	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	51	( <sup>1</sup> )	( <sup>1</sup> )	14	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Chinese, Japanese, Korean	1,181	( <sup>1</sup> )	142	260	294	193	155	40	83	14	( <sup>1</sup> )	( <sup>1</sup> )
Other races	200	( <sup>1</sup> )	( <sup>1</sup> )	18	117	32	33	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Agricultural scientists	28,790	69	2,064	4,075	5,214	4,947	4,130	3,236	2,310	1,388	833	524
White/												
Caucasian	28,312	69	2,051	4,012	5,054	4,903	4,070	3,138	2,283	1,375	833	524
Black/Negro	117	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	13	( <sup>1</sup> )	34	70	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
American												
Indian	43	( <sup>1</sup> )	( <sup>1</sup> )	17	( <sup>1</sup> )	( <sup>1</sup> )	13	( <sup>1</sup> )	( <sup>1</sup> )	13	( <sup>1</sup> )	( <sup>1</sup> )
Chinese, Japanese, Korean	305	( <sup>1</sup> )	13	46	147	31	13	28	27	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other races	13	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	13	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Medical scientists	10,737	( <sup>1</sup> )	779	1,892	1,933	1,863	1,092	1,265	1,012	651	156	94
White/												
Caucasian	10,104	( <sup>1</sup> )	765	1,789	1,878	1,585	1,033	1,182	998	637	156	81
Black/Negro	210	( <sup>1</sup> )	( <sup>1</sup> )	17	13	123	29	28	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
American												
Indian	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Chinese, Japanese, Korean	282	( <sup>1</sup> )	( <sup>1</sup> )	57	14	127	16	41	( <sup>1</sup> )	14	( <sup>1</sup> )	13
Races	141	( <sup>1</sup> )	14	29	28	28	14	14	14	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )

Table B-2—Con.

Field and race	Total	Under 25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70 & over
Psychologists ...	34,889	35	4,698	7,164	5,287	4,909	4,801	3,694	1,951	1,186	730	434
White/												
Caucasian ...	34,052	35	4,668	7,054	5,125	4,679	4,698	3,554	1,935	1,155	730	419
Black/Negro .	636	( <sup>1</sup> )	30	30	94	212	68	140	16	31	( <sup>1</sup> )	15
American												
Indian . . . . .	18	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	18	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Chinese,												
Japanese,												
Korean . . . . .	97	( <sup>1</sup> )	( <sup>1</sup> )	66	15	( <sup>1</sup> )	16	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other races ...	86	( <sup>1</sup> )	( <sup>1</sup> )	14	35	18	19	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Social scientists	47,940	30	5,732	9,628	7,320	5,896	4,976	5,726	3,476	2,693	1,556	907
White/												
Caucasian ...	46,229	30	5,701	9,341	7,032	5,619	4,808	5,531	3,303	2,682	1,312	871
Black/Negro .	672	( <sup>1</sup> )	11	109	106	85	16	97	56	11	157	24
American												
Indian . . . . .	44	( <sup>1</sup> )	20	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	24	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Chinese,												
Japanese,												
Korean . . . . .	874	( <sup>1</sup> )	( <sup>1</sup> )	85	170	193	128	82	117	( <sup>1</sup> )	87	12
Other races ...	121	( <sup>1</sup> )	( <sup>1</sup> )	93	12	( <sup>1</sup> )	( <sup>1</sup> )	16	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Economists ...	19,754	15	1,800	3,552	2,840	2,596	2,006	2,719	1,369	1,479	841	537
White/												
Caucasian ...	18,823	15	1,780	3,363	2,737	2,394	1,884	2,661	1,230	1,479	767	513
Black/Negro .	237	( <sup>1</sup> )	( <sup>1</sup> )	38	42	72	( <sup>1</sup> )	39	22	( <sup>1</sup> )	( <sup>1</sup> )	24
American												
Indian . . . . .	44	( <sup>1</sup> )	20	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	24	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Chinese,												
Japanese,												
Korean . . . . .	557	( <sup>1</sup> )	( <sup>1</sup> )	58	61	130	98	19	117	( <sup>1</sup> )	74	( <sup>1</sup> )
Other races ...	93	( <sup>1</sup> )	( <sup>1</sup> )	93	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Sociologists/ anthropologists	11,158	( <sup>1</sup> )	1,495	2,706	1,844	1,202	1,158	1,413	648	528	81	83
White/												
Caucasian ...	10,845	( <sup>1</sup> )	1,484	2,679	1,699	1,202	1,142	1,368	614	517	69	71
Black/Negro .	179	( <sup>1</sup> )	11	11	39	( <sup>1</sup> )	16	45	34	11	12	( <sup>1</sup> )
American												
Indian . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Chinese,												
Japanese,												
Korean . . . . .	122	( <sup>1</sup> )	( <sup>1</sup> )	16	94	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	12
Other races ...	12	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	12	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other social scientists . . . . .	17,028	15	2,437	3,370	2,636	2,098	1,812	1,594	1,459	686	634	287
White/												
Caucasian ...	16,561	15	2,437	3,299	2,596	2,022	1,782	1,502	1,459	686	476	287
Black/Negro .	256	( <sup>1</sup> )	( <sup>1</sup> )	60	25	13	( <sup>1</sup> )	13	( <sup>1</sup> )	( <sup>1</sup> )	145	( <sup>1</sup> )
American												
Indian . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Chinese,												
Japanese,												
Korean . . . . .	195	( <sup>1</sup> )	( <sup>1</sup> )	11	15	63	30	63	( <sup>1</sup> )	( <sup>1</sup> )	13	( <sup>1</sup> )
Other races ...	16	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	16	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup>No cases reported.

SOURCE: National Science Foundation, National Sample, 1974.

Table D-3.—Number of scientists and engineers by field, sex, and race: 1974

Field and sex	Total	White/ Caucasian	Black/ Negro	American Indian	Chinese, Japanese, Korean	Other
<b>Total, all fields</b> .....	<b>1,079,698</b>	<b>1,039,010</b>	<b>11,102</b>	<b>903</b>	<b>23,497</b>	<b>5,186</b>
Male .....	1,025,741	988,973	9,388	858	22,075	4,447
Female .....	53,957	50,037	1,714	45	1,422	739
<b>Physical scientists</b> .....	<b>121,011</b>	<b>113,860</b>	<b>2,206</b>	<b>240</b>	<b>3,905</b>	<b>800</b>
Male .....	111,936	106,040	1,924	240	3,357	375
Female .....	9,075	7,820	282	( <sup>1</sup> )	548	425
<b>Chemists</b> .....	<b>87,394</b>	<b>81,858</b>	<b>1,853</b>	<b>240</b>	<b>2,649</b>	<b>734</b>
Male .....	79,231	74,906	1,654	240	2,122	309
Female .....	8,103	6,952	199	( <sup>1</sup> )	527	425
<b>Physicists/astronomers</b> .....	<b>27,519</b>	<b>26,118</b>	<b>128</b>	<b>(<sup>1</sup>)</b>	<b>1,207</b>	<b>66</b>
Male .....	26,784	25,436	96	( <sup>1</sup> )	1,186	65
Female .....	735	682	32	( <sup>1</sup> )	21	( <sup>1</sup> )
<b>Other physical scientists</b> .....	<b>6,158</b>	<b>5,884</b>	<b>225</b>	<b>(<sup>1</sup>)</b>	<b>49</b>	<b>(<sup>1</sup>)</b>
Male .....	5,921	5,698	174	( <sup>1</sup> )	49	( <sup>1</sup> )
Female .....	237	186	51	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Mathematical scientists</b> .....	<b>27,833</b>	<b>25,902</b>	<b>1,034</b>	<b>37</b>	<b>733</b>	<b>127</b>
Male .....	23,795	22,326	664	19	677	109
Female .....	4,038	3,576	370	18	56	18
<b>Mathematicians</b> .....	<b>20,076</b>	<b>18,833</b>	<b>787</b>	<b>18</b>	<b>401</b>	<b>37</b>
Male .....	17,412	16,469	533	( <sup>1</sup> )	383	37
Female .....	2,664	2,374	254	18	18	( <sup>1</sup> )
<b>Statisticians</b> .....	<b>7,757</b>	<b>7,069</b>	<b>247</b>	<b>19</b>	<b>332</b>	<b>90</b>
Male .....	6,383	5,867	131	19	294	72
Female .....	1,374	1,202	116	( <sup>1</sup> )	38	18
<b>Computer specialists</b> .....	<b>55,186</b>	<b>53,274</b>	<b>842</b>	<b>50</b>	<b>708</b>	<b>312</b>
Male .....	48,439	46,845	644	50	588	312
Female .....	6,747	6,429	198	( <sup>1</sup> )	120	( <sup>1</sup> )
<b>Environmental scientists</b> .....	<b>29,466</b>	<b>28,913</b>	<b>47</b>	<b>70</b>	<b>409</b>	<b>27</b>
Male .....	28,572	28,139	47	57	302	27
Female .....	894	774	( <sup>1</sup> )	13	107	( <sup>1</sup> )
<b>Earth scientists</b> .....	<b>24,589</b>	<b>24,201</b>	<b>36</b>	<b>70</b>	<b>256</b>	<b>27</b>
Male .....	23,772	23,504	35	57	149	27
Female .....	817	697	( <sup>1</sup> )	13	107	( <sup>1</sup> )
<b>Oceanographers</b> .....	<b>1,563</b>	<b>1,474</b>	<b>(<sup>1</sup>)</b>	<b>(<sup>1</sup>)</b>	<b>89</b>	<b>(<sup>1</sup>)</b>
Male .....	1,563	1,474	( <sup>1</sup> )	( <sup>1</sup> )	89	( <sup>1</sup> )
Female .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	89	( <sup>1</sup> )

Field and sex	Total	White/ Caucasian	Black/ Negro	American Indian	Chinese, Japanese, Korean	Other
<b>Atmospheric scientists</b> .....	<b>3,314</b>	<b>3,238</b>	<b>12</b>	<b>(<sup>1</sup>)</b>	<b>64</b>	<b>(<sup>1</sup>)</b>
Male .....	3,237	3,161	12	( <sup>1</sup> )	64	( <sup>1</sup> )
Female .....	77	77	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Engineers</b> .....	<b>687,911</b>	<b>664,721</b>	<b>4,492</b>	<b>336</b>	<b>15,003</b>	<b>3,389</b>
Male .....	684,552	661,694	4,435	336	14,834	3,253
Female .....	3,359	3,027	57	( <sup>1</sup> )	169	106
<b>Life scientists</b> .....	<b>75,462</b>	<b>72,059</b>	<b>1,173</b>	<b>108</b>	<b>1,768</b>	<b>354</b>
Male .....	65,483	62,933	824	94	1,435	197
Female .....	9,979	9,126	349	14	333	157
<b>Biological scientists</b> .....	<b>35,935</b>	<b>33,643</b>	<b>846</b>	<b>65</b>	<b>1,181</b>	<b>200</b>
Male .....	29,601	27,860	645	51	932	113
Female .....	6,334	5,783	201	14	249	87
<b>Agricultural scientists</b> .....	<b>28,790</b>	<b>28,312</b>	<b>117</b>	<b>43</b>	<b>305</b>	<b>13</b>
Male .....	28,450	27,972	117	43	305	13
Female .....	340	340	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Medical scientists</b> .....	<b>10,737</b>	<b>10,104</b>	<b>210</b>	<b>(<sup>1</sup>)</b>	<b>282</b>	<b>141</b>
Male .....	7,432	7,101	62	( <sup>1</sup> )	198	71
Female .....	3,305	3,003	148	( <sup>1</sup> )	84	70
<b>Psychologists</b> .....	<b>34,889</b>	<b>34,052</b>	<b>636</b>	<b>18</b>	<b>97</b>	<b>86</b>
Male .....	25,105	24,644	322	18	68	53
Female .....	9,784	9,408	314	( <sup>1</sup> )	29	33
<b>Social scientists</b> .....	<b>47,940</b>	<b>46,229</b>	<b>672</b>	<b>44</b>	<b>874</b>	<b>121</b>
Male .....	37,859	36,352	528	44	814	121
Female .....	10,081	9,877	144	( <sup>1</sup> )	60	( <sup>1</sup> )
<b>Economists</b> .....	<b>19,754</b>	<b>18,823</b>	<b>237</b>	<b>44</b>	<b>557</b>	<b>93</b>
Male .....	17,854	16,989	193	44	535	93
Female .....	1,900	1,834	44	( <sup>1</sup> )	22	( <sup>1</sup> )
<b>Sociologists/ anthropologists</b> .....	<b>11,158</b>	<b>10,845</b>	<b>179</b>	<b>(<sup>1</sup>)</b>	<b>122</b>	<b>12</b>
Male .....	8,039	7,771	145	( <sup>1</sup> )	111	12
Female .....	3,119	3,074	34	( <sup>1</sup> )	11	( <sup>1</sup> )
<b>Other social scientists</b> .....	<b>17,028</b>	<b>16,561</b>	<b>256</b>	<b>(<sup>1</sup>)</b>	<b>195</b>	<b>16</b>
Male .....	11,966	11,592	190	( <sup>1</sup> )	168	16
Female .....	5,062	4,969	66	( <sup>1</sup> )	27	( <sup>1</sup> )

<sup>1</sup>No cases reported.

SOURCE: National Science Foundation, National Sample, 1974.

Table B-4. — Number of scientists and engineers by field, sex, and highest degree: 1974

Field and sex	Total	Doctorate	Professional/ medical	Master's	Bachelor's	Associate	Other	No degree
Total, all fields	1,079,698	180,870	3,248	242,289	620,396	12,539	101	20,255
Male	1,025,741	167,481	2,963	223,076	599,341	12,524	101	20,255
Female	53,957	13,389	285	19,213	21,055	15	( <sup>1</sup> )	( <sup>1</sup> )
Physical scientists	121,011	54,665	175	22,349	43,822	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Male	111,936	52,122	175	20,233	39,406	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Female	9,075	2,543	( <sup>1</sup> )	2,116	4,416	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Chemists	87,334	35,897	175	14,743	36,519	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Male	79,231	33,843	175	12,935	32,278	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Female	8,103	2,054	( <sup>1</sup> )	1,808	4,241	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Physicists/astronomers	27,519	16,874	( <sup>1</sup> )	5,860	4,785	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Male	26,784	16,400	( <sup>1</sup> )	5,663	4,721	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Female	735	474	( <sup>1</sup> )	197	64	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other physical scientists	6,158	1,894	( <sup>1</sup> )	1,746	2,518	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Male	5,921	1,879	( <sup>1</sup> )	1,635	2,407	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Female	237	15	( <sup>1</sup> )	111	111	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Mathematical scientists	27,833	10,022	147	9,328	8,336	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Male	23,795	9,490	147	7,674	6,484	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Female	4,038	532	( <sup>1</sup> )	1,654	1,852	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Mathematicians	20,076	7,708	77	6,992	5,299	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Male	17,412	7,336	77	5,740	4,259	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Female	2,664	372	( <sup>1</sup> )	1,252	1,040	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Statisticians	7,757	2,314	70	2,336	3,037	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Male	6,383	2,154	70	1,934	2,225	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Female	1,374	160	( <sup>1</sup> )	402	812	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Computer specialists	55,186	2,604	153	14,815	37,614	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Male	48,439	2,438	133	13,378	32,490	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Female	6,747	166	20	1,437	5,124	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Environmental scientists	29,466	8,054	62	8,443	12,907	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Male	28,572	7,824	62	7,883	12,803	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Female	894	230	( <sup>1</sup> )	560	104	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Earth scientists	24,589	6,253	62	6,927	11,347	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Male	23,772	6,088	62	6,379	11,243	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Female	817	165	( <sup>1</sup> )	548	104	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Oceanographers	1,563	957	( <sup>1</sup> )	449	157	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Male	1,563	957	( <sup>1</sup> )	449	157	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Female	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Atmospheric scientists	3,314	844	( <sup>1</sup> )	1,067	1,403	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Male	3,237	779	( <sup>1</sup> )	1,055	1,403	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Female	77	65	( <sup>1</sup> )	12	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Engineers	687,911	31,879	1,002	145,290	476,845	12,539	101	20,255
Male	684,552	31,853	1,002	144,056	474,761	12,524	101	20,255
Female	3,359	26	( <sup>1</sup> )	1,234	2,084	15	( <sup>1</sup> )	( <sup>1</sup> )
Life scientists	75,462	31,765	1,416	16,789	25,492	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Male	65,483	28,731	1,224	13,195	22,333	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Female	9,979	3,034	192	3,594	3,159	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Biological scientists	35,935	19,981	153	9,187	6,614	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Male	29,601	17,663	139	6,786	5,013	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Female	6,334	2,318	14	2,401	1,601	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Agricultural scientists	28,790	6,519	25	5,618	16,628	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Male	28,450	6,452	25	5,434	16,539	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Female	340	67	( <sup>1</sup> )	184	89	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Medical scientists	10,737	5,265	1,238	1,984	2,250	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Male	7,432	4,616	1,060	975	781	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Female	3,305	649	178	1,009	1,469	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Psychologists	34,889	20,404	53	11,034	3,398	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Male	25,105	16,263	40	6,417	2,385	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Female	9,784	4,141	13	4,617	1,013	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Social scientists	47,940	21,477	240	14,241	11,982	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Male	37,859	18,760	180	10,240	8,679	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Female	10,081	2,717	60	4,001	3,303	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )



Table B-4-- Con.

Field and sex	Total	Doctorate	Professional/ medical	Master's	Bachelor's	Associate	Other	No degree
Economists .....	19,754	8,792	181	5,119	5,662	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Male .....	17,854	8,263	135	4,560	4,896	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Female .....	1,900	529	46	559	766	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Sociologists/anthropologists	11,158	6,470	14	2,937	1,737	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Male .....	8,039	5,255	( <sup>1</sup> )	1,682	1,102	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Female .....	3,119	1,215	14	1,255	635	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other social scientists .....	17,028	6,215	45	6,185	4,583	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Male .....	11,966	5,242	45	3,998	2,681	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Female .....	5,062	973	( <sup>1</sup> )	2,187	1,902	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup>No cases reported.

SOURCE: National Science Foundation, National Sample, 1974.

Table B-5. — Number of scientists and engineers by field, highest degree, and age: 1974

Field and highest degree	Total	Under 25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70 & over
<b>Total, all fields</b> . . . . .	<b>1,079,698</b>	<b>2,137</b>	<b>106,274</b>	<b>182,024</b>	<b>175,473</b>	<b>162,207</b>	<b>155,926</b>	<b>125,831</b>	<b>78,795</b>	<b>51,134</b>	<b>26,963</b>	<b>12,934</b>
<b>Doctorate</b> . . . . .	180,870	141	9,076	37,428	37,047	29,798	22,638	17,755	12,131	7,690	4,673	2,493
<b>Professional/</b> <b>medical</b> . . . . .	3,248	( <sup>1</sup> )	70	275	313	551	474	643	351	372	122	77
<b>Master's</b> . . . . .	242,289	380	28,687	52,875	42,891	33,595	30,133	22,865	14,881	8,852	4,644	2,486
<b>Bachelor's</b> . . . . .	620,396	1,446	66,015	87,446	90,098	92,202	97,148	80,026	48,834	32,438	16,959	7,784
<b>Associate</b> . . . . .	12,539	130	1,049	2,267	1,846	3,073	1,731	1,165	917	350	( <sup>1</sup> )	11
<b>Other</b> . . . . .	101	( <sup>1</sup> )	( <sup>1</sup> )	13	12	( <sup>1</sup> )	39	37	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>No degree</b> . . . . .	20,255	40	1,377	1,720	3,266	2,988	3,763	3,340	1,681	1,432	565	83
<b>Physical scientists</b> . . . . .	121,011	304	11,003	22,276	21,525	16,745	15,738	13,770	9,087	5,919	3,166	1,478
<b>Doctorate</b> . . . . .	54,665	53	2,839	11,358	11,150	8,415	6,658	5,552	3,712	2,503	1,634	791
<b>Professional/</b> <b>medical</b> . . . . .	175	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	28	24	100	23	( <sup>1</sup> )	( <sup>1</sup> )
<b>Master's</b> . . . . .	22,349	103	2,510	3,715	4,327	2,757	2,643	2,772	1,825	1,027	427	243
<b>Bachelor's</b> . . . . .	43,822	148	5,654	7,203	6,048	5,573	6,409	5,422	3,450	2,366	1,105	444
<b>Associate</b> . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Other</b> . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>No degree</b> . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Chemists</b> . . . . .	87,334	193	8,254	14,731	14,317	11,619	11,755	10,877	7,044	4,941	2,572	1,031
<b>Doctorate</b> . . . . .	35,897	53	2,181	6,644	6,878	5,212	4,578	3,934	2,966	1,885	1,154	412
<b>Professional/</b> <b>medical</b> . . . . .	175	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	28	24	100	23	( <sup>1</sup> )	( <sup>1</sup> )
<b>Master's</b> . . . . .	14,743	103	1,338	2,271	2,480	1,896	1,839	2,080	1,365	801	368	202
<b>Bachelor's</b> . . . . .	36,519	37	4,735	5,816	4,959	4,511	5,310	4,839	2,613	2,232	1,050	417
<b>Associate</b> . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Other</b> . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>No degree</b> . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Physicists/</b> <b>Astronomers</b> . . . . .	27,519	100	2,286	6,431	5,928	4,139	2,963	2,370	1,543	882	483	394
<b>Doctorate</b> . . . . .	16,874	( <sup>1</sup> )	523	4,431	3,777	2,853	1,835	1,424	720	594	391	326
<b>Professional/</b> <b>medical</b> . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Master's</b> . . . . .	5,860	( <sup>1</sup> )	1,020	1,141	1,260	555	572	608	403	201	59	41
<b>Bachelor's</b> . . . . .	4,785	100	743	859	891	731	556	338	420	87	33	27
<b>Associate</b> . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Other</b> . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>No degree</b> . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Other physical scientists</b> . . . . .	6,158	11	463	1,114	1,280	987	1,020	523	500	96	111	53
<b>Doctorate</b> . . . . .	1,894	( <sup>1</sup> )	135	283	495	350	245	194	26	24	89	53
<b>Professional/</b> <b>medical</b> . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Master's</b> . . . . .	1,746	( <sup>1</sup> )	152	303	587	306	232	84	57	25	( <sup>1</sup> )	( <sup>1</sup> )
<b>Bachelor's</b> . . . . .	2,518	11	176	528	198	331	543	245	417	47	22	( <sup>1</sup> )
<b>Associate</b> . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Other</b> . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>No degree</b> . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Mathematical scientists</b> . . . . .	27,833	86	3,603	7,098	4,907	3,822	3,259	1,694	1,465	1,100	553	246
<b>Doctorate</b> . . . . .	10,022	( <sup>1</sup> )	499	2,847	2,143	1,606	1,109	731	378	461	147	101
<b>Professional/</b> <b>medical</b> . . . . .	147	( <sup>1</sup> )	12	58	52	( <sup>1</sup> )	12	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	13
<b>Master's</b> . . . . .	9,328	( <sup>1</sup> )	1,606	2,379	1,466	1,145	1,056	473	528	294	283	98
<b>Bachelor's</b> . . . . .	8,338	86	1,486	1,814	1,246	1,071	1,082	490	559	345	123	34
<b>Associate</b> . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Other</b> . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>No degree</b> . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )

Table B-5—Con.

Field and highest degree	Total	Under 25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70 & over
<b>Mathe-</b>												
<b>maticians . . . .</b>	<b>20,076</b>	<b>33</b>	<b>2,696</b>	<b>5,438</b>	<b>3,591</b>	<b>2,684</b>	<b>2,624</b>	<b>1,039</b>	<b>891</b>	<b>558</b>	<b>383</b>	<b>139</b>
<b>Doctorate . . . .</b>	<b>7,708</b>	( <sup>1</sup> )	376	2,379	1,564	1,089	859	496	340	407	122	76
<b>Professional/</b>												
<b>medical . . . .</b>	77	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	52	( <sup>1</sup> )	12	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	13
<b>Master's . . . .</b>	6,992	( <sup>1</sup> )	1,251	1,841	1,132	957	825	314	306	121	208	37
<b>Bachelor's . . . .</b>	5,299	33	1,069	1,218	843	638	928	229	245	30	53	13
<b>Associate . . . .</b>	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Other . . . . .</b>	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>No degree . . . .</b>	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Statisticians . .</b>	<b>7,757</b>	<b>53</b>	<b>907</b>	<b>1,660</b>	<b>1,316</b>	<b>1,138</b>	<b>635</b>	<b>655</b>	<b>574</b>	<b>542</b>	<b>170</b>	<b>107</b>
<b>Doctorate . . . .</b>	<b>2,314</b>	( <sup>1</sup> )	123	468	579	517	250	235	38	54	25	25
<b>Professional/</b>												
<b>medical . . . .</b>	70	( <sup>1</sup> )	12	58	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Master's . . . .</b>	2,336	( <sup>1</sup> )	355	538	334	188	231	159	222	173	75	61
<b>Bachelor's . . . .</b>	3,037	53	417	596	403	433	154	261	314	315	70	21
<b>Associate . . . .</b>	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Other . . . . .</b>	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>No degree . . . .</b>	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Computer</b>												
<b>specialists . . . .</b>	<b>55,186</b>	<b>15</b>	<b>9,629</b>	<b>18,439</b>	<b>10,844</b>	<b>8,370</b>	<b>4,484</b>	<b>1,979</b>	<b>932</b>	<b>254</b>	<b>164</b>	<b>76</b>
<b>Doctorate . . . .</b>	<b>2,604</b>	( <sup>1</sup> )	271	936	497	508	322	57	( <sup>1</sup> )	13	( <sup>1</sup> )	( <sup>1</sup> )
<b>Professional/</b>												
<b>medical . . . .</b>	153	( <sup>1</sup> )	( <sup>1</sup> )	51	18	64	20	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Master's . . . .</b>	14,815	( <sup>1</sup> )	2,569	5,019	3,471	1,702	926	553	304	83	112	76
<b>Bachelor's . . . .</b>	37,614	15	6,789	12,433	6,858	6,096	3,216	1,369	628	158	52	( <sup>1</sup> )
<b>Associate . . . .</b>	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Other . . . . .</b>	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>No degree . . . .</b>	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Environmental</b>												
<b>scientists . . . .</b>	<b>29,466</b>	<b>15</b>	<b>2,007</b>	<b>3,888</b>	<b>4,273</b>	<b>5,656</b>	<b>4,873</b>	<b>4,225</b>	<b>2,201</b>	<b>1,606</b>	<b>523</b>	<b>199</b>
<b>Doctorate . . . .</b>	<b>8,054</b>	15	264	1,170	1,792	1,846	926	872	548	333	251	37
<b>Professional/</b>												
<b>medical . . . .</b>	62	( <sup>1</sup> )	( <sup>1</sup> )	13	( <sup>1</sup> )	24	12	( <sup>1</sup> )	( <sup>1</sup> )	13	( <sup>1</sup> )	( <sup>1</sup> )
<b>Master's . . . .</b>	8,443	( <sup>1</sup> )	663	1,537	1,227	1,646	1,265	1,107	487	312	106	94
<b>Bachelor's . . . .</b>	12,907	( <sup>1</sup> )	1,080	1,168	1,254	2,140	2,670	2,246	1,166	948	167	68
<b>Associate . . . .</b>	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Other . . . . .</b>	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>No degree . . . .</b>	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Earth scientists.</b>	<b>24,589</b>	<b>15</b>	<b>1,671</b>	<b>3,187</b>	<b>3,320</b>	<b>4,935</b>	<b>4,420</b>	<b>3,312</b>	<b>1,700</b>	<b>1,464</b>	<b>379</b>	<b>186</b>
<b>Doctorate . . . .</b>	<b>6,253</b>	15	133	947	1,207	1,525	840	608	490	310	154	24
<b>Professional/</b>												
<b>medical . . . .</b>	62	( <sup>1</sup> )	( <sup>1</sup> )	13	( <sup>1</sup> )	24	12	( <sup>1</sup> )	( <sup>1</sup> )	13	( <sup>1</sup> )	( <sup>1</sup> )
<b>Master's . . . .</b>	6,927	( <sup>1</sup> )	564	1,208	1,000	1,494	1,067	800	318	288	94	94
<b>Bachelor's . . . .</b>	11,347	( <sup>1</sup> )	974	1,019	1,113	1,892	2,501	1,904	892	853	131	68
<b>Associate . . . .</b>	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Other . . . . .</b>	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>No degree . . . .</b>	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Ocean-</b>												
<b>ographers . . . .</b>	<b>1,563</b>	( <sup>1</sup> )	<b>186</b>	<b>331</b>	<b>489</b>	<b>108</b>	<b>157</b>	<b>111</b>	<b>40</b>	<b>35</b>	<b>108</b>	( <sup>1</sup> )
<b>Doctorate . . . .</b>	<b>957</b>	( <sup>1</sup> )	131	149	370	80	33	75	22	( <sup>1</sup> )	97	( <sup>1</sup> )
<b>Professional/</b>												
<b>medical . . . .</b>	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Master's . . . .</b>	449	( <sup>1</sup> )	30	170	56	13	100	36	9	24	11	( <sup>1</sup> )
<b>Bachelor's . . . .</b>	157	( <sup>1</sup> )	25	12	63	13	24	( <sup>1</sup> )	9	11	( <sup>1</sup> )	( <sup>1</sup> )
<b>Associate . . . .</b>	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Other . . . . .</b>	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>No degree . . . .</b>	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )

Table B-5—Con.

Field and highest degree	Total	Under 25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70 & over
Atmospheric scientists . . . . .	3,314	( <sup>1</sup> )	150	370	464	615	296	802	461	107	36	13
Doctorate . . . . .	844	( <sup>1</sup> )	( <sup>1</sup> )	74	215	241	53	189	36	23	( <sup>1</sup> )	13
Professional/medical . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Master's . . . . .	1,067	( <sup>1</sup> )	69	159	171	139	98	271	160	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Bachelor's . . . . .	1,403	( <sup>1</sup> )	81	137	78	235	145	342	265	84	36	( <sup>1</sup> )
Associate . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
No degree . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Engineers . . . . .	687,911	1,485	62,413	99,861	108,039	104,852	107,929	87,427	53,826	34,872	18,584	8,623
Doctorate . . . . .	31,879	( <sup>1</sup> )	1,378	7,222	8,387	5,464	3,410	2,445	1,879	872	505	317
Professional/medical . . . . .	1,002	( <sup>1</sup> )	41	49	97	113	164	231	74	144	37	52
Master's . . . . .	145,290	262	14,594	30,811	26,322	21,024	19,726	14,232	8,864	5,296	2,655	1,504
Bachelor's . . . . .	476,845	1,053	43,974	57,779	68,109	72,190	79,096	65,977	40,411	26,778	14,822	6,656
Associate . . . . .	12,539	130	1,049	2,267	1,846	3,073	1,731	1,165	917	350	( <sup>1</sup> )	11
Other . . . . .	101	( <sup>1</sup> )	( <sup>1</sup> )	13	12	( <sup>1</sup> )	39	37	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
No degree . . . . .	20,255	40	1,377	1,720	3,266	2,988	3,763	3,340	1,681	1,432	565	83
Life scientists . . . . .	75,462	167	7,189	13,670	13,278	11,957	9,866	7,316	5,857	3,504	1,687	971
Doctorate . . . . .	31,765	58	1,372	5,758	5,765	5,548	4,568	3,193	2,825	1,332	886	460
Professional/medical . . . . .	1,416	( <sup>1</sup> )	( <sup>1</sup> )	62	115	350	190	354	149	131	53	12
Master's . . . . .	16,789	( <sup>1</sup> )	2,403	3,630	2,821	2,284	1,839	1,297	1,021	946	381	167
Bachelor's . . . . .	25,492	109	3,414	4,220	4,577	3,775	3,269	2,472	1,862	1,096	367	332
Associate . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
No degree . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Biological scientists . . . . .	35,935	98	4,346	7,703	6,131	5,147	4,644	2,815	2,535	1,465	698	353
Doctorate . . . . .	19,981	( <sup>1</sup> )	866	3,931	3,819	3,319	2,968	1,761	1,651	800	565	301
Professional/medical . . . . .	153	( <sup>1</sup> )	( <sup>1</sup> )	14	( <sup>1</sup> )	52	35	40	( <sup>1</sup> )	( <sup>1</sup> )	12	( <sup>1</sup> )
Master's . . . . .	9,187	( <sup>1</sup> )	1,706	2,519	1,489	1,197	849	419	332	529	108	39
Bachelor's . . . . .	6,614	98	1,774	1,239	823	579	792	595	552	136	13	13
Associate . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
No degree . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Agricultural scientists . . . . .	28,790	69	2,064	4,075	5,214	4,947	4,130	3,236	2,310	1,388	833	524
Doctorate . . . . .	6,519	58	353	561	1,134	1,285	934	914	647	308	232	93
Professional/medical . . . . .	25	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	13	( <sup>1</sup> )	12	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Master's . . . . .	5,618	( <sup>1</sup> )	557	929	891	725	790	703	408	244	259	112
Bachelor's . . . . .	16,628	11	1,154	2,585	3,189	2,924	2,406	1,607	1,255	836	342	319
Associate . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
No degree . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Medical scientists . . . . .	10,737	( <sup>1</sup> )	779	1,892	1,933	1,863	1,092	1,265	1,012	651	156	94
Doctorate . . . . .	5,265	( <sup>1</sup> )	153	1,266	812	944	666	518	527	224	89	66
Professional/medical . . . . .	1,238	( <sup>1</sup> )	( <sup>1</sup> )	48	115	285	155	302	149	131	41	12
Master's . . . . .	1,984	( <sup>1</sup> )	140	182	441	362	200	175	281	173	14	16
Bachelor's . . . . .	2,250	( <sup>1</sup> )	486	396	565	272	71	270	55	123	12	( <sup>1</sup> )
Associate . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
No degree . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )

Footnote at end of table.

Table B-5—Con.

Field and highest degree	Totals	Under 25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70 & over
Psychologists . . .	34,889	35	4,698	7,164	5,287	4,909	4,801	3,694	1,951	1,186	730	434
Doctorate . . . .	20,404	( <sup>1</sup> )	1,476	3,939	3,647	3,245	3,042	2,495	1,189	738	369	264
Professional/												
medical . . . . .	53	( <sup>1</sup> )	( <sup>1</sup> )	26	14	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	13	( <sup>1</sup> )
Master's . . . .	11,034	( <sup>1</sup> )	2,267	2,324	1,268	1,322	1,343	982	762	294	318	154
Bachelor's . . .	3,398	35	955	875	358	342	416	217	( <sup>1</sup> )	154	30	16
Associate . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
No degree . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Social scientists	47,940	30	5,732	9,628	7,320	5,896	4,976	5,726	3,476	2,693	1,556	907
Doctorate . . . .	21,477	15	977	4,198	3,666	3,166	2,603	2,410	1,600	1,438	881	523
Professional/												
medical . . . . .	240	( <sup>1</sup> )	17	16	17	( <sup>1</sup> )	48	34	28	61	19	( <sup>1</sup> )
Master's . . . .	14,241	15	2,075	3,460	1,989	1,715	1,335	1,449	1,090	600	363	130
Bachelor's . . .	11,982	( <sup>1</sup> )	2,663	1,954	1,648	1,015	990	1,833	758	594	293	234
Associate . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
No degree . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Economists . . .	19,754	15	1,800	3,552	2,840	2,596	2,006	2,719	1,369	1,479	841	537
Doctorate . . . .	8,792	15	397	1,543	1,503	1,221	1,023	840	583	671	595	401
Professional/												
medical . . . . .	181	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	17	( <sup>1</sup> )	34	34	16	61	19	( <sup>1</sup> )
Master's . . . .	5,119	( <sup>1</sup> )	534	1,167	698	750	354	700	435	338	124	19
Bachelor's . . .	5,662	( <sup>1</sup> )	869	842	622	625	595	1,145	335	409	103	117
Associate . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
No degree . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Sociologists/												
anthropologists	11,158	( <sup>1</sup> )	1,495	2,706	1,844	1,202	1,158	1,413	648	528	81	83
Doctorate . . . .	6,470	( <sup>1</sup> )	142	1,359	1,151	1,051	837	878	491	409	69	83
Professional/												
medical . . . . .	14	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	14	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Master's . . . .	2,937	( <sup>1</sup> )	726	1,078	279	119	230	325	157	11	12	( <sup>1</sup> )
Bachelor's . . .	1,737	( <sup>1</sup> )	627	269	414	32	77	210	( <sup>1</sup> )	108	( <sup>1</sup> )	( <sup>1</sup> )
Associate . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
No degree . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other social												
scientists . . . .	17,028	15	2,437	3,370	2,636	2,098	1,812	1,594	1,459	686	634	287
Doctorate . . . .	6,215	( <sup>1</sup> )	438	1,296	1,012	894	743	692	526	358	217	39
Professional/												
medical . . . . .	45	( <sup>1</sup> )	17	16	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	12	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Master's . . . .	6,185	15	815	1,215	1,012	846	751	424	498	251	227	131
Bachelor's . . .	4,583	( <sup>1</sup> )	1,167	843	612	358	318	478	423	77	190	117
Associate . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
No degree . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup>No cases reported.

SOURCE: National Science Foundation, National Sample, 1974.

Table B-5.—Number of scientists and engineers by field, highest degree, and race: 1974

Field and highest degree	Total	White/ Caucasian	Black/ Negro	American Indian	Chinese, Japanese, Korean	Other
<b>Physical scientists</b>						
Total, all fields.....	1,079,698	1,039,010	11,102	903	24,387	5,186
Doctorate.....	180,870	170,270	1,952	376	6,919	1,353
Professional/medical ..	3,248	3,105	28	(1)	14	101
Master's.....	242,289	230,169	3,346	176	7,160	1,438
Bachelor's.....	620,386	603,490	5,565	244	8,902	2,195
Associate.....	12,539	12,030	100	(1)	310	99
Other.....	101	101	(1)	(1)	(1)	(1)
No degree.....	20,255	19,845	111	107	192	(1)
Mathematicians.....						
Doctorate.....	121,011	113,860	2,206	240	3,905	800
Professional/medical ..	54,665	51,220	294	204	2,603	344
Master's.....	175	147	28	(1)	(1)	(1)
Bachelor's.....	22,349	21,097	454	(1)	713	85
Associate.....	43,822	41,396	1,430	36	589	371
Other.....	(1)	(1)	(1)	(1)	(1)	(1)
No degree.....	(1)	(1)	(1)	(1)	(1)	(1)
Statisticians.....						
Doctorate.....	87,334	81,658	1,853	240	2,649	734
Professional/medical ..	35,897	33,602	246	204	1,551	294
Master's.....	175	147	28	(1)	(1)	(1)
Bachelor's.....	14,743	13,791	342	(1)	541	69
Associate.....	36,519	34,318	1,237	36	557	371
Other.....	(1)	(1)	(1)	(1)	(1)	(1)
No degree.....	(1)	(1)	(1)	(1)	(1)	(1)
Computer specialists.....						
Doctorate.....	27,519	26,118	128	(1)	1,207	66
Professional/medical ..	16,874	15,757	48	(1)	1,019	50
Master's.....	(1)	(1)	(1)	(1)	(1)	(1)
Bachelor's.....	5,860	5,592	80	(1)	172	16
Associate.....	4,785	4,769	(1)	(1)	16	(1)
Other.....	(1)	(1)	(1)	(1)	(1)	(1)
No degree.....	(1)	(1)	(1)	(1)	(1)	(1)
Environmental scientists.....						
Doctorate.....	6,158	5,884	225	(1)	49	(1)
Professional/medical ..	1,894	1,861	(1)	(1)	33	(1)
Master's.....	(1)	(1)	(1)	(1)	(1)	(1)
Bachelor's.....	1,746	1,714	32	(1)	(1)	(1)
Associate.....	2,518	2,309	183	(1)	16	(1)
Other.....	(1)	(1)	(1)	(1)	(1)	(1)
No degree.....	(1)	(1)	(1)	(1)	(1)	(1)
<b>Chemists</b>						
Doctorate.....	87,334	81,658	1,853	240	2,649	734
Professional/medical ..	35,897	33,602	246	204	1,551	294
Master's.....	175	147	28	(1)	(1)	(1)
Bachelor's.....	14,743	13,791	342	(1)	541	69
Associate.....	36,519	34,318	1,237	36	557	371
Other.....	(1)	(1)	(1)	(1)	(1)	(1)
No degree.....	(1)	(1)	(1)	(1)	(1)	(1)
<b>Physicists/astromers.</b>						
Doctorate.....	27,519	26,118	128	(1)	1,207	66
Professional/medical ..	16,874	15,757	48	(1)	1,019	50
Master's.....	(1)	(1)	(1)	(1)	(1)	(1)
Bachelor's.....	5,860	5,592	80	(1)	172	16
Associate.....	4,785	4,769	(1)	(1)	16	(1)
Other.....	(1)	(1)	(1)	(1)	(1)	(1)
No degree.....	(1)	(1)	(1)	(1)	(1)	(1)
<b>Other physical scientists</b>						
Doctorate.....	6,158	5,884	225	(1)	49	(1)
Professional/medical ..	1,894	1,861	(1)	(1)	33	(1)
Master's.....	(1)	(1)	(1)	(1)	(1)	(1)
Bachelor's.....	1,746	1,714	32	(1)	(1)	(1)
Associate.....	2,518	2,309	183	(1)	16	(1)
Other.....	(1)	(1)	(1)	(1)	(1)	(1)
No degree.....	(1)	(1)	(1)	(1)	(1)	(1)
Field and highest degree	Total	White/ Caucasian	Black/ Negro	American Indian	Chinese, Japanese, Korean	Other
<b>Mathematical scientists</b>						
Total.....	27,833	25,902	1,034	37	733	127
Doctorate.....	10,022	9,188	245	(1)	516	73
Professional/medical ..	147	147	(1)	(1)	(1)	(1)
Master's.....	9,328	8,698	381	19	176	54
Bachelor's.....	8,336	7,989	408	18	41	(1)
Associate.....	(1)	(1)	(1)	(1)	(1)	(1)
Other.....	(1)	(1)	(1)	(1)	(1)	(1)
No degree.....	(1)	(1)	(1)	(1)	(1)	(1)
<b>Environmental scientists</b>						
Total.....	29,466	28,913	47	70	409	27
Doctorate.....	8,054	7,758	(1)	70	226	(1)
Professional/medical ..	62	62	(1)	(1)	(1)	(1)
Master's.....	8,443	8,302	35	(1)	106	(1)
Bachelor's.....	12,907	12,791	12	(1)	77	(1)
Associate.....	(1)	(1)	(1)	(1)	(1)	(1)
Other.....	(1)	(1)	(1)	(1)	(1)	(1)
No degree.....	(1)	(1)	(1)	(1)	(1)	(1)

See footnote at end of table.

Table B-6—Con.

Field and highest degree	Total	White/ Caucasian	Black/ Negro	American Indian	Chinese, Japanese, Korean	Other	Field and highest degree	Total	White/ Caucasian	Black/ Negro	American Indian	Chinese, Japanese, Korean	Other
Earth scientists .....	24,559	24,201	35	70	256	27	Biological scientists .....	35,935	33,133	846	65	1,181	20
Doctorate .....	6,253	6,053	(1)	70	130	(1)	Doctorate .....	19,981	18,853	404	16	525	18
Professional/medical ..	62	62	(1)	(1)	(1)	(1)	Professional/medical ..	153	153	(1)	(1)	(1)	18
Master's .....	6,927	6,819	35	(1)	73	(1)	Master's .....	9,187	8,360	379	35	413	(1)
Bachelor's .....	11,347	11,267	(1)	(1)	53	27	Bachelor's .....	6,614	6,277	63	14	243	11
Associate .....	(1)	(1)	(1)	(1)	(1)	(1)	Associate .....	(1)	(1)	(1)	(1)	(1)	(1)
Other .....	(1)	(1)	(1)	(1)	(1)	(1)	Other .....	(1)	(1)	(1)	(1)	(1)	(1)
No degree .....	(1)	(1)	(1)	(1)	(1)	(1)	No degree .....	(1)	(1)	(1)	(1)	(1)	(1)
Oceanographers .....	1,563	1,474	(1)	(1)	89	(1)	Agricultural scientists ..	28,790	28,312	117	43	305	11
Doctorate .....	957	886	(1)	(1)	72	(1)	Doctorate .....	6,519	6,390	45	(1)	71	11
Professional/medical ..	(1)	(1)	(1)	(1)	(1)	(1)	Professional/medical ..	25	25	(1)	(1)	(1)	(1)
Master's .....	449	432	(1)	(1)	17	(1)	Master's .....	5,618	5,420	47	(1)	151	(1)
Bachelor's .....	157	157	(1)	(1)	17	(1)	Bachelor's .....	16,628	16,477	25	43	83	(1)
Associate .....	(1)	(1)	(1)	(1)	(1)	(1)	Associate .....	(1)	(1)	(1)	(1)	(1)	(1)
Other .....	(1)	(1)	(1)	(1)	(1)	(1)	Other .....	(1)	(1)	(1)	(1)	(1)	(1)
No degree .....	(1)	(1)	(1)	(1)	(1)	(1)	No degree .....	(1)	(1)	(1)	(1)	(1)	(1)
Atmospheric scientists ..	3,314	3,238	12	(1)	64	(1)	Medical scientists .....	10,737	10,104	210	(1)	282	14
Doctorate .....	844	820	(1)	(1)	24	(1)	Doctorate .....	5,265	5,005	64	(1)	111	8
Professional/medical ..	(1)	(1)	(1)	(1)	(1)	(1)	Professional/medical ..	1,238	1,195	(1)	(1)	14	2
Master's .....	1,067	1,051	(1)	(1)	16	(1)	Master's .....	1,984	1,795	118	(1)	57	11
Bachelor's .....	1,403	1,367	12	(1)	24	(1)	Bachelor's .....	2,250	2,108	28	(1)	100	11
Associate .....	(1)	(1)	(1)	(1)	(1)	(1)	Associate .....	(1)	(1)	(1)	(1)	(1)	(1)
Other .....	(1)	(1)	(1)	(1)	(1)	(1)	Other .....	(1)	(1)	(1)	(1)	(1)	(1)
No degree .....	(1)	(1)	(1)	(1)	(1)	(1)	No degree .....	(1)	(1)	(1)	(1)	(1)	(1)
Engineers .....	687,911	664,721	4,492	336	15,003	3,359	Psychologists .....	34,889	34,052	636	18	97	8
Doctorate .....	31,879	28,641	350	44	2,260	584	Doctorate .....	20,404	19,990	325	18	33	3
Professional/medical ..	1,002	929	(1)	(1)	(1)	73	Professional/medical ..	53	53	(1)	(1)	(1)	(1)
Master's .....	145,290	137,953	1,148	102	5,034	1,053	Master's .....	11,034	10,630	311	(1)	45	4
Bachelor's .....	476,845	465,222	2,783	83	7,207	1,550	Bachelor's .....	3,398	3,379	(1)	(1)	19	(1)
Associate .....	12,539	12,030	100	(1)	310	99	Associate .....	(1)	(1)	(1)	(1)	(1)	(1)
Other .....	101	101	(1)	(1)	(1)	(1)	Other .....	(1)	(1)	(1)	(1)	(1)	(1)
No degree .....	20,256	19,845	111	107	192	(1)	No degree .....	(1)	(1)	(1)	(1)	(1)	(1)
Life scientists .....	75,462	72,059	1,173	108	1,768	354	Social scientists .....	47,940	46,229	672	44	874	12
Doctorate .....	31,765	30,248	513	16	707	281	Doctorate .....	21,477	20,690	225	24	526	11
Professional/medical ..	1,416	1,374	(1)	(1)	14	28	Professional/medical ..	240	240	(1)	(1)	(1)	(1)
Master's .....	16,789	15,575	544	35	621	14	Master's .....	14,241	13,511	337	20	285	8
Bachelor's .....	25,492	24,862	116	57	426	31	Bachelor's .....	11,982	11,788	110	(1)	63	21
Associate .....	(1)	(1)	(1)	(1)	(1)	(1)	Associate .....	(1)	(1)	(1)	(1)	(1)	(1)
Other .....	(1)	(1)	(1)	(1)	(1)	(1)	Other .....	(1)	(1)	(1)	(1)	(1)	(1)
No degree .....	(1)	(1)	(1)	(1)	(1)	(1)	No degree .....	(1)	(1)	(1)	(1)	(1)	(1)

Table B-6—Con.

Field and highest degree	Total	White/ Caucasian	Black/ Negro	American Indian	Chinese, Japanese, Korean	Other
Economists .....	19,754	18,623	237	44	557	93
Doctorate .....	8,792	8,317	138	24	313	(1)
Professional/medical .....	181	181	(1)	(1)	(1)	(1)
Master's .....	5,119	4,783	39	20	205	72
Bachelor's .....	5,662	5,542	60	(1)	39	21
Associate .....	(1)	(1)	(1)	(1)	(1)	(1)
Other .....	(1)	(1)	(1)	(1)	(1)	(1)
No degree .....	(1)	(1)	(1)	(1)	(1)	(1)
Sociologists/ anthropologists .....	11,158	10,845	179	(1)	122	12
Doctorate .....	6,470	6,291	72	(1)	96	12
Professional/medical .....	14	14	(1)	(1)	(1)	(1)
Master's .....	2,937	2,830	91	(1)	16	(1)
Bachelor's .....	1,737	1,710	16	(1)	11	(1)
Associate .....	(1)	(1)	(1)	(1)	(1)	(1)
Other .....	(1)	(1)	(1)	(1)	(1)	(1)
No degree .....	(1)	(1)	(1)	(1)	(1)	(1)
Other social scientists .....	17,028	16,561	256	(1)	195	16
Doctorate .....	6,215	6,082	15	(1)	118	(1)
Professional/medical .....	45	45	(1)	(1)	(1)	(1)
Master's .....	6,185	5,898	207	(1)	64	16
Bachelor's .....	4,583	4,536	34	(1)	13	(1)
Associate .....	(1)	(1)	(1)	(1)	(1)	(1)
Other .....	(1)	(1)	(1)	(1)	(1)	(1)
No degree .....	(1)	(1)	(1)	(1)	(1)	(1)

No cases reported.  
SOURCE: National Science Foundation, National Sample, 1974.



Table B-7.—Number of scientists and engineers by field, highest degree, and nonnormal training in 1972:1974

Field and highest degree	Total	With nonnormal training in 1972							No nonnormal training	Nonnormal training not reported
		Total	On-the-job training	Military training, applicable to civilian occupations	Extension or correspondence courses	Employer's training programs	Adult education programs	Other training		
<b>Total, all fields</b> .....	<b>1,079,698</b>	<b>397,438</b>	<b>187,159</b>	<b>8,595</b>	<b>41,234</b>	<b>165,691</b>	<b>45,180</b>	<b>89,680</b>	<b>471,772</b>	<b>210,488</b>
Doctorate .....	180,870	44,787	18,613	663	3,427	11,190	5,075	16,207	105,293	30,790
Professional/medical .....	3,248	1,198	457	35	41	207	196	438	1,459	591
Master's .....	242,289	93,138	40,844	1,924	10,092	39,414	10,054	22,130	99,942	49,209
Bachelor's .....	620,396	245,125	120,811	5,755	26,209	108,697	28,605	48,317	252,477	122,794
Associate .....	12,539	5,514	2,824	164	583	2,949	448	775	4,385	2,640
Other .....	101	52	39	(1)	(1)	(1)	(1)	13	49	(1)
No degree .....	20,255	7,624	3,571	54	882	3,224	802	1,800	8,167	4,464
<b>Physical scientists</b> .....	<b>121,011</b>	<b>37,640</b>	<b>17,421</b>	<b>322</b>	<b>3,410</b>	<b>12,551</b>	<b>5,082</b>	<b>9,502</b>	<b>61,369</b>	<b>22,002</b>
Doctorate .....	54,665	14,085	5,842	138	906	4,244	1,831	4,246	31,851	8,729
Professional/medical .....	175	(1)	(1)	(1)	(1)	(1)	(1)	(1)	123	52
Master's .....	22,349	7,781	3,550	80	703	2,741	700	2,130	10,491	4,077
Bachelor's .....	43,822	15,774	8,029	104	1,801	5,566	2,551	3,126	18,904	9,144
Associate .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Chemists</b> .....	<b>87,334</b>	<b>28,448</b>	<b>13,453</b>	<b>211</b>	<b>2,704</b>	<b>9,543</b>	<b>3,752</b>	<b>7,394</b>	<b>42,203</b>	<b>16,683</b>
Doctorate .....	35,897	10,579	4,613	100	691	3,307	1,159	3,241	19,404	5,914
Professional/medical .....	175	(1)	(1)	(1)	(1)	(1)	(1)	(1)	123	52
Master's .....	14,743	5,175	2,233	49	526	1,878	492	1,555	6,627	2,941
Bachelor's .....	36,519	12,694	6,607	62	1,487	4,358	2,101	2,598	16,049	7,776
Associate .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Physicists/astronomers</b> .....	<b>27,519</b>	<b>6,485</b>	<b>2,402</b>	<b>82</b>	<b>632</b>	<b>1,910</b>	<b>950</b>	<b>1,540</b>	<b>16,586</b>	<b>4,448</b>
Doctorate .....	16,874	2,915	1,042	38	215	698	584	877	11,390	2,569
Professional/medical .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Master's .....	5,860	1,944	830	18	165	549	169	445	3,028	888
Bachelor's .....	4,785	1,626	530	26	252	663	197	318	2,168	991
Associate .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Other physical scientists</b> .....	<b>6,158</b>	<b>2,707</b>	<b>1,566</b>	<b>29</b>	<b>74</b>	<b>1,098</b>	<b>380</b>	<b>468</b>	<b>2,580</b>	<b>871</b>
Doctorate .....	1,894	591	187	(1)	(1)	239	88	128	1,057	246
Professional/medical .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Master's .....	1,746	662	487	13	12	314	39	130	836	248
Bachelor's .....	2,518	1,454	892	16	62	545	253	210	687	377
Associate .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)

Table B-7—Con.

Field and highest degree	Total	Total	On-the-job training	With nonformal training in 1972							No nonformal training	Nonformal training not reported
				Military training, applicable to civilian occupations	Extension or correspondence courses	Employer's training programs	Adult education programs	Other training				
<b>Mathematical scientists</b>	<b>27,833</b>	<b>7,758</b>	<b>3,648</b>	<b>76</b>	<b>825</b>	<b>3,094</b>	<b>741</b>	<b>1,930</b>	<b>14,573</b>	<b>5,502</b>		
Doctorate	10,022	1,183	401	12	43	160	156	560	7,096	1,743		
Professional/medical	147	135	52	(1)	(1)	58	25	(1)	(1)	12		
Master's	9,328	2,704	964	13	212	1,134	167	835	4,570	2,054		
Bachelor's	8,336	3,736	2,231	51	570	1,742	383	535	2,907	1,693		
Associate	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)		
Other	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)		
No degree	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)		
<b>Mathematicians</b>	<b>20,076</b>	<b>5,594</b>	<b>2,678</b>	<b>64</b>	<b>742</b>	<b>2,432</b>	<b>451</b>	<b>1,331</b>	<b>10,760</b>	<b>3,732</b>		
Doctorate	7,708	804	276	(1)	43	118	64	383	5,595	1,309		
Professional/medical	77	77	52	(1)	(1)	(1)	25	(1)	(1)	(1)		
Master's	6,992	1,845	604	13	159	881	100	552	3,679	1,468		
Bachelor's	5,299	2,858	1,746	51	540	1,433	262	386	1,486	965		
Associate	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)		
Other	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)		
No degree	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)		
<b>Statisticians</b>	<b>7,757</b>	<b>2,174</b>	<b>970</b>	<b>12</b>	<b>83</b>	<b>662</b>	<b>290</b>	<b>599</b>	<b>3,813</b>	<b>1,770</b>		
Doctorate	2,314	379	125	12	(1)	42	92	167	1,501	434		
Professional/medical	70	58	(1)	(1)	(1)	58	(1)	(1)	(1)	12		
Master's	2,336	859	360	(1)	53	253	67	283	891	598		
Bachelor's	3,037	878	485	(1)	30	309	131	149	1,421	738		
Associate	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)		
Other	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)		
No degree	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)		
<b>Computer specialists</b>	<b>55,186</b>	<b>33,680</b>	<b>19,738</b>	<b>404</b>	<b>2,434</b>	<b>19,417</b>	<b>3,169</b>	<b>7,310</b>	<b>13,329</b>	<b>8,177</b>		
Doctorate	2,604	841	402	(1)	30	513	153	292	1,325	438		
Professional/medical	153	136	65	(1)	(1)	72	68	(1)	(1)	17		
Master's	14,815	8,936	5,084	107	802	5,100	652	1,782	3,546	2,333		
Bachelor's	37,614	23,767	14,187	297	1,602	13,732	2,296	5,236	8,458	5,389		
Associate	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)		
Other	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)		
No degree	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)		
<b>Environmental scientists</b>	<b>29,466</b>	<b>10,403</b>	<b>5,375</b>	<b>169</b>	<b>1,261</b>	<b>3,959</b>	<b>1,345</b>	<b>2,283</b>	<b>13,134</b>	<b>5,929</b>		
Doctorate	8,054	2,109	1,025	(1)	140	667	314	467	4,519	1,428		
Professional/medical	62	25	13	(1)	(1)	(1)	(1)	12	37	(1)		
Master's	8,443	3,401	1,819	82	477	1,490	519	633	3,342	1,700		
Bachelor's	12,907	4,888	2,518	87	644	1,802	512	1,171	5,236	2,803		
Associate	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)		
Other	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)		
No degree	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)		

See footnote at end of table.

Table B-7—Con.

With nonformal training in 1972

Field and highest degree	Total	Total	On-the-job training	Military training, applicable to civilian occupations	Extension or correspondence courses	Employer's training programs	Adult education programs	Other training	No nonformal training	Nonformal training not reported
<b>Earth scientists</b>	<b>24,589</b>	<b>8,502</b>	<b>4,536</b>	<b>81</b>	<b>761</b>	<b>3,411</b>	<b>1,045</b>	<b>2,007</b>	<b>10,889</b>	<b>5,198</b>
Doctorate	6,233	1,558	632	(1)	127	564	277	362	3,542	1,153
Professional/medical	62	25	13	(1)	(1)	(1)	(1)	12	37	(1)
Master's	6,927	2,815	1,635	56	272	1,315	398	560	2,639	1,473
Bachelor's	11,347	4,104	2,256	25	362	1,532	370	1,073	4,671	2,572
Associate	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Oceanographers</b>	<b>1,563</b>	<b>713</b>	<b>386</b>	<b>22</b>	<b>99</b>	<b>186</b>	<b>132</b>	<b>93</b>	<b>617</b>	<b>233</b>
Doctorate	957	388	287	(1)	13	77	13	60	383	186
Professional/medical	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Master's	449	227	48	9	49	73	94	33	175	47
Bachelor's	157	98	51	13	37	36	25	(1)	59	(1)
Associate	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Atmospheric scientists</b>	<b>3,314</b>	<b>1,188</b>	<b>453</b>	<b>66</b>	<b>401</b>	<b>362</b>	<b>168</b>	<b>183</b>	<b>1,628</b>	<b>498</b>
Doctorate	844	163	106	(1)	(1)	26	24	45	594	87
Professional/medical	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Master's	1,067	359	136	17	156	102	27	40	528	180
Bachelor's	1,403	666	211	49	245	234	117	98	506	231
Associate	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Engineers</b>	<b>687,911</b>	<b>257,540</b>	<b>115,310</b>	<b>6,582</b>	<b>28,364</b>	<b>113,604</b>	<b>29,405</b>	<b>51,409</b>	<b>291,969</b>	<b>138,402</b>
Doctorate	31,879	8,721	3,577	188	1,024	3,474	838	1,875	17,125	6,033
Professional/medical	1,002	303	122	35	(1)	36	66	83	464	235
Master's	145,290	55,499	21,456	1,351	6,729	24,982	6,229	12,324	59,831	29,960
Bachelor's	476,845	179,827	83,721	4,790	19,146	78,929	21,022	34,539	201,948	95,070
Associate	12,539	5,514	2,824	184	583	2,949	448	775	4,385	2,640
Other	101	52	39	(1)	(1)	(1)	(1)	13	49	(1)
No degree	20,255	7,624	3,571	54	882	3,234	802	1,800	8,167	4,464
<b>Life scientists</b>	<b>75,462</b>	<b>26,214</b>	<b>14,448</b>	<b>453</b>	<b>2,843</b>	<b>7,334</b>	<b>2,883</b>	<b>7,840</b>	<b>34,909</b>	<b>14,339</b>
Doctorate	31,765	8,441	3,441	171	698	1,060	1,038	3,737	18,354	4,970
Professional/medical	1,416	539	158	(1)	25	41	37	330	702	175
Master's	16,789	5,441	3,110	187	590	1,595	615	1,328	7,947	3,401
Bachelor's	25,482	11,793	7,739	95	1,530	4,638	1,193	2,445	7,906	5,793
Associate	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)

Table B-7—Con.

Field and highest degree	Total	With nonformal training in 1972							No nonformal training	Nonformal training not reported	
		Total	On-the-job training	Military training, applicable to civilian occupations	Extension or correspondence courses	Employer's training programs	Adult education programs	Other training			
<b>Biological scientists</b>											
Doctorate	35,935	9,769	5,418	240	577	1,881	992	3,018	19,125	7,041	
Professional/medical	19,981	4,679	2,226	148	258	553	475	1,778	11,902	3,400	
Master's	153	106	26	(1)	(1)	(1)	(1)	80	24	23	
Bachelor's	9,187	2,309	1,334	54	164	528	352	512	4,918	1,960	
Associate	6,614	2,675	1,832	38	155	800	165	648	2,281	1,658	
Other	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	
No degree	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	
<b>Agricultural scientists</b>											
Doctorate	28,790	12,653	7,508	190	1,814	4,871	1,311	3,112	10,262	5,875	
Professional/medical	6,519	1,951	707	(1)	248	289	379	837	3,636	932	
Master's	25	(1)	(1)	(1)	(1)	(1)	(1)	(1)	13	12	
Bachelor's	5,618	2,561	1,561	133	376	987	147	569	1,941	1,116	
Associate	16,628	8,141	5,250	57	1,190	3,595	785	1,706	4,672	3,815	
Other	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	
No degree	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	
<b>Medical scientists</b>											
Doctorate	10,737	3,792	1,522	23	452	582	580	1,710	5,522	1,423	
Professional/medical	5,265	1,811	508	23	192	218	184	1,122	2,816	638	
Master's	1,238	433	132	(1)	25	41	37	250	665	140	
Bachelor's	1,984	571	225	(1)	50	80	116	247	1,088	325	
Associate	2,250	977	657	(1)	185	243	243	91	953	320	
Other	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	
No degree	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	
<b>Psychologists</b>											
Doctorate	34,889	12,207	6,216	223	655	2,296	1,283	5,386	15,940	6,742	
Professional/medical	20,404	5,903	2,700	75	400	687	456	3,298	10,713	3,788	
Master's	53	27	14	(1)	(1)	(1)	(1)	13	13	13	
Bachelor's	11,034	4,767	2,594	29	255	993	570	1,810	3,968	2,299	
Associate	3,398	1,510	908	119	(1)	616	257	265	1,246	642	
Other	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	
No degree	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	
<b>Social scientists</b>											
Doctorate	47,940	11,996	5,003	366	1,442	3,436	1,272	4,020	26,549	9,395	
Professional/medical	21,477	3,504	1,225	79	186	385	289	1,732	14,310	3,663	
Master's	240	33	33	(1)	16	(1)	(1)	(1)	120	87	
Bachelor's	14,241	4,609	2,267	75	324	1,375	602	1,288	6,247	3,385	
Associate	11,982	3,850	1,478	212	916	1,672	381	1,000	5,872	2,260	
Other	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	
No degree	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	

See footnote at end of table.

Table B-7—Con.

Field and highest degree	With nonformal training in 1972								No nonformal training	Nonformal training not reported
	Total	Total	On-the-job training	Military training, applicable to civilian occupations	Extension or correspondence courses	Employer's training programs	Adult education programs	Other training		
<b>Economists</b> .....	19,754	4,627	2,319	110	439	1,563	585	1,191	11,024	4,103
Doctorate.....	8,792	1,401	635	18	80	203	147	535	5,792	1,599
Professional/medical.....	181	17	17	(1)	(1)	(1)	(1)	(1)	77	87
Master's.....	5,119	1,508	738	75	109	564	215	342	2,364	1,247
Bachelor's.....	5,662	1,701	929	17	250	796	223	314	2,791	1,170
Associate.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Sociologists/anthropologists</b> .....	11,158	2,142	820	(1)	331	486	350	935	6,847	2,169
Doctorate.....	6,470	870	203	(1)	42	13	126	531	4,541	1,059
Professional/medical.....	14	(1)	(1)	(1)	(1)	(1)	(1)	(1)	14	(1)
Master's.....	2,937	774	383	(1)	13	187	107	168	1,578	585
Bachelor's.....	1,737	498	234	(1)	276	286	117	236	714	525
Associate.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Other social scientists</b> .....	17,028	5,227	1,864	256	672	1,387	337	1,894	8,578	3,123
Doctorate.....	6,215	1,233	387	61	64	169	16	666	3,977	1,005
Professional/medical.....	45	16	16	(1)	16	(1)	(1)	(1)	29	(1)
Master's.....	6,185	2,327	1,146	(1)	202	628	280	778	2,305	1,553
Bachelor's.....	4,583	1,651	315	195	390	690	41	450	2,367	565
Associate.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)

<sup>1</sup>No cases reported.

Note: The sum of the types of nonformal training may exceed the total with such training since persons could have reported more than one type of training.

SOURCE: National Science Foundation, National Sample, 1974.

Table B-8.—Number of scientists and engineers by field, highest degree, and nonformal training in 1973: 1974

Field and highest degree	Total	With nonformal training in 1973							No nonformal training	Nonformal training not reported
		Total	On-the-job training	Military training, applicable to civilian occupations	Extension or correspondence courses	Employer's training programs	Adult education programs	Other training		
Total, all fields	1,079,698	406,427	194,367	9,192	41,636	190,372	44,715	81,018	488,886	184,385
Doctorate	180,870	43,371	18,579	698	3,329	11,666	4,801	14,931	107,730	29,769
Professional/medical	3,248	1,102	508	35	41	227	102	384	1,498	648
Master's	242,289	92,905	42,094	1,786	9,740	40,476	9,486	20,025	102,645	46,739
Bachelor's	620,396	254,310	125,946	6,290	26,453	121,201	28,886	43,416	263,946	102,140
Associate	12,539	6,082	3,365	164	715	3,190	494	752	4,483	1,964
Other	101	89	39	(1)	(1)	37	(1)	13	12	(1)
No degree	20,255	8,658	3,836	219	1,258	3,575	966	1,497	8,572	3,125
Physical scientists	121,011	37,184	17,596	352	3,250	12,809	4,506	9,563	63,371	20,456
Doctorate	54,665	13,041	5,666	139	856	3,935	1,372	4,215	32,862	8,762
Professional/medical	175	52	(1)	(1)	(1)	(1)	28	24	123	(1)
Master's	22,349	7,185	3,485	93	738	2,708	641	1,783	10,779	4,385
Bachelor's	43,822	16,906	8,450	120	1,656	6,166	2,465	3,541	19,607	7,309
Associate	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Chemists	87,334	28,861	13,579	212	2,717	10,125	3,480	7,582	43,646	14,837
Doctorate	35,897	10,101	4,475	100	629	3,255	964	3,338	20,120	5,676
Professional/medical	175	52	(1)	(1)	(1)	(1)	28	24	123	(1)
Master's	14,743	4,959	2,217	62	649	2,041	461	1,243	6,732	3,052
Bachelor's	36,519	13,739	6,887	50	1,439	4,829	2,027	2,977	16,671	6,109
Associate	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Physicists/astronomers	27,519	5,832	2,524	111	459	1,688	724	1,560	17,063	4,624
Doctorate	16,874	2,556	1,085	39	214	481	395	782	11,596	2,722
Professional/medical	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Master's	5,860	1,722	841	18	89	461	168	447	3,120	1,018
Bachelor's	4,785	1,554	598	54	156	746	161	331	2,347	884
Associate	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other physical scientists	6,158	2,501	1,493	29	74	996	302	421	2,662	995
Doctorate	1,894	384	101	(1)	13	199	13	95	1,146	364
Professional/medical	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Master's	1,746	504	427	13	504	206	12	93	927	315
Bachelor's	2,518	1,613	965	16	61	591	277	233	589	316
Associate	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)

See footnote at end of table

Table B-8—Con.

Field and highest degree	Total	With nonformal training in 1973							No nonformal training	Nonformal training not reported
		Total	On-the-job training	Military training, applicable to civilian occupations	Extension or correspondence courses	Employer's training programs	Adult education programs	Other training		
<b>Mathematical scientists</b>	<b>Total</b>	<b>8,298</b>	<b>4,094</b>	<b>90</b>	<b>691</b>	<b>3,352</b>	<b>1,067</b>	<b>1,578</b>	<b>15,113</b>	<b>4,512</b>
Doctorate	27,833	1,170	420	12	13	235	214	413	7,241	1,611
Professional/medical	10,022	65	52	(1)	(1)	(1)	13	(1)	(1)	82
Master's	147	2,911	1,277	26	186	1,073	371	850	4,741	1,676
Bachelor's	9,328	4,062	2,345	52	512	2,044	469	515	3,131	1,143
Associate	8,336	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Mathematicians</b>	<b>Total</b>	<b>5,787</b>	<b>3,156</b>	<b>65</b>	<b>553</b>	<b>2,461</b>	<b>526</b>	<b>1,132</b>	<b>11,288</b>	<b>3,001</b>
Doctorate	20,076	746	294	(1)	13	137	64	314	5,715	1,247
Professional/medical	7,708	65	52	(1)	(1)	(1)	13	(1)	(1)	12
Master's	77	1,954	934	13	142	745	171	470	3,881	1,157
Bachelor's	6,992	3,022	1,876	52	396	1,579	278	348	1,692	585
Associate	5,299	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Statisticians</b>	<b>Total</b>	<b>2,421</b>	<b>938</b>	<b>25</b>	<b>138</b>	<b>891</b>	<b>541</b>	<b>446</b>	<b>3,825</b>	<b>1,511</b>
Doctorate	7,757	424	126	12	(1)	98	150	99	1,526	364
Professional/medical	2,314	70	(1)	(1)	(1)	(1)	(1)	(1)	(1)	70
Master's	2,336	967	343	13	24	328	200	180	860	519
Bachelor's	3,037	1,040	469	13	114	465	191	157	1,439	558
Associate	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Computer specialists</b>	<b>Total</b>	<b>33,580</b>	<b>20,112</b>	<b>446</b>	<b>1,935</b>	<b>19,750</b>	<b>3,599</b>	<b>6,448</b>	<b>13,823</b>	<b>7,783</b>
Doctorate	55,186	896	505	(1)	46	424	189	202	1,340	388
Professional/medical	2,604	102	82	(1)	(1)	72	17	(1)	(1)	51
Master's	153	8,367	4,828	52	561	4,925	840	1,665	3,705	2,743
Bachelor's	14,815	24,215	14,697	394	1,328	14,329	2,553	4,581	8,778	4,621
Associate	37,614	0	0	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other	0	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Environmental scientists</b>	<b>Total</b>	<b>10,245</b>	<b>5,125</b>	<b>177</b>	<b>1,314</b>	<b>4,466</b>	<b>1,023</b>	<b>2,035</b>	<b>13,727</b>	<b>5,494</b>
Doctorate	29,466	1,834	827	12	59	834	243	395	4,899	1,321
Professional/medical	8,054	25	13	(1)	(1)	12	(1)	(1)	37	(1)
Master's	62	3,267	1,817	37	508	1,633	228	611	3,336	1,840
Bachelor's	8,443	5,119	2,468	128	747	1,987	552	1,029	5,455	2,333
Associate	12,907	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)

Table B-8—Con.

Field and highest degree	Total	With nonformal training in 1973										No nonformal training	Nonformal training not reported
		Total	On-the-job training	Military training, applicable to civilian occupations	Extension or correspondence courses	Employer's training programs	Adult education programs	Other training					
<b>Earth scientists</b>	<b>24,889</b>	<b>8,745</b>	<b>4,460</b>	<b>86</b>	<b>905</b>	<b>3,889</b>	<b>886</b>	<b>1,888</b>	<b>11,292</b>	<b>4,552</b>			
Doctorate	6,253	1,499	576	12	59	743	218	327	3,762	992			
Professional/medical	62	25	13	( <sup>1</sup> )	( <sup>1</sup> )	12	( <sup>1</sup> )	( <sup>1</sup> )	37	( <sup>1</sup> )			
Master's	6,927	2,774	1,628	25	390	1,418	201	539	2,601	1,552			
Bachelor's	11,347	4,447	2,243	49	466	1,716	447	1,002	4,882	2,008			
Associate	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )			
Other	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )			
No degree	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )			
<b>Oceanographers</b>	<b>1,563</b>	<b>465</b>	<b>330</b>	<b>25</b>	<b>49</b>	<b>162</b>	<b>13</b>	<b>57</b>	<b>761</b>	<b>337</b>			
Doctorate	967	253	214	( <sup>1</sup> )	( <sup>1</sup> )	65	13	23	469	225			
Professional/medical	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )			
Master's	449	138	65	12	12	73	( <sup>1</sup> )	34	223	78			
Bachelor's	157	74	51	13	37	24	( <sup>1</sup> )	( <sup>1</sup> )	59	24			
Associate	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )			
Other	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )			
No degree	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )			
<b>Atmospheric scientists</b>	<b>3,314</b>	<b>1,035</b>	<b>335</b>	<b>66</b>	<b>360</b>	<b>415</b>	<b>144</b>	<b>110</b>	<b>1,574</b>	<b>605</b>			
Doctorate	844	82	37	( <sup>1</sup> )	( <sup>1</sup> )	26	12	45	668	94			
Professional/medical	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )			
Master's	1,067	355	124	( <sup>1</sup> )	116	142	27	38	502	210			
Bachelor's	1,403	598	174	66	244	247	105	27	504	301			
Associate	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )			
Other	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )			
No degree	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )			
<b>Engineers</b>	<b>687,911</b>	<b>266,237</b>	<b>120,176</b>	<b>6,901</b>	<b>29,402</b>	<b>126,321</b>	<b>28,984</b>	<b>45,437</b>	<b>302,639</b>	<b>119,035</b>			
Doctorate	31,879	9,315	3,565	191	1,245	3,882	749	1,723	18,938	5,628			
Professional/medical	1,002	277	96	35	( <sup>1</sup> )	102	( <sup>1</sup> )	83	452	273			
Master's	145,290	56,052	22,290	1,271	6,490	26,268	5,698	10,333	61,309	27,929			
Bachelor's	476,845	185,854	86,965	5,021	19,694	89,267	21,087	30,436	210,873	80,118			
Associate	12,539	6,092	3,365	164	715	3,190	494	752	4,483	1,964			
Other	101	89	39	( <sup>1</sup> )	( <sup>1</sup> )	37	( <sup>1</sup> )	13	12	( <sup>1</sup> )			
No degree	20,255	8,558	3,836	219	1,258	3,575	966	1,497	8,572	3,125			
<b>Life scientists</b>	<b>75,462</b>	<b>26,988</b>	<b>15,035</b>	<b>596</b>	<b>2,847</b>	<b>8,035</b>	<b>3,099</b>	<b>7,268</b>	<b>35,694</b>	<b>12,580</b>			
Doctorate	31,765	7,922	3,440	151	559	1,251	1,043	3,128	18,649	5,194			
Professional/medical	1,416	486	183	( <sup>1</sup> )	25	41	25	264	753	177			
Master's	16,789	5,936	3,226	191	643	1,787	822	1,482	7,913	2,940			
Bachelor's	25,492	12,644	8,176	244	1,620	4,956	1,209	2,384	8,573	4,289			
Associate	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )			
Other	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )			
No degree	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )			

See footnote at end of table.



Table B-8—Con.

Field and highest degree	Total	With nonformal training in 1973							No nonformal training	Nonformal training not reported
		Total	On-the-job training	Military training, applicable to civilian occupations	Extension or correspondence courses	Employer's training programs	Adult education programs	Other training		
<b>Biological scientists</b> .....	<b>35,935</b>	<b>10,240</b>	<b>5,602</b>	<b>212</b>	<b>541</b>	<b>2,033</b>	<b>1,271</b>	<b>2,967</b>	<b>19,371</b>	<b>6,324</b>
Doctorate.....	19,981	4,651	2,330	116	165	647	500	1,527	12,122	3,208
Professional/medical.....	153	77	38	(1)	(1)	(1)	(1)	39	76	(1)
Master's.....	9,187	2,623	1,390	58	182	601	412	629	4,783	1,781
Bachelor's.....	6,614	2,889	1,844	38	194	785	359	712	2,390	1,335
Associate.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Agricultural scientists</b> .....	<b>28,790</b>	<b>13,204</b>	<b>7,917</b>	<b>351</b>	<b>1,868</b>	<b>5,470</b>	<b>1,372</b>	<b>2,697</b>	<b>10,865</b>	<b>4,721</b>
Doctorate.....	6,519	1,692	541	12	226	351	378	716	3,624	1,203
Professional/medical.....	25	13	13	(1)	(1)	(1)	(1)	(1)	(1)	12
Master's.....	5,618	2,732	1,659	133	358	1,107	279	601	1,998	888
Bachelor's.....	16,628	8,767	5,704	206	1,294	4,012	715	1,380	5,243	2,618
Associate.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Medical scientists</b> .....	<b>10,737</b>	<b>3,544</b>	<b>1,516</b>	<b>23</b>	<b>438</b>	<b>532</b>	<b>456</b>	<b>1,594</b>	<b>5,658</b>	<b>1,535</b>
Doctorate.....	5,265	1,579	569	23	188	253	165	885	2,903	783
Professional/medical.....	1,238	396	132	(1)	25	41	25	225	677	165
Master's.....	1,984	531	187	(1)	103	79	131	252	1,132	271
Bachelor's.....	2,250	988	628	(1)	142	159	135	232	946	316
Associate.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Psychologists</b> .....	<b>34,889</b>	<b>12,266</b>	<b>6,749</b>	<b>194</b>	<b>890</b>	<b>2,081</b>	<b>1,160</b>	<b>5,231</b>	<b>16,653</b>	<b>5,970</b>
Doctorate.....	20,404	5,889	2,867	62	375	522	528	3,233	11,219	3,296
Professional/medical.....	53	27	14	(1)	(1)	(1)	(1)	13	13	13
Master's.....	11,034	4,674	2,837	13	386	972	388	1,660	4,097	2,283
Bachelor's.....	3,398	1,676	1,031	119	129	587	244	325	1,324	398
Associate.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Social scientists</b> .....	<b>47,940</b>	<b>11,719</b>	<b>5,480</b>	<b>446</b>	<b>1,207</b>	<b>3,558</b>	<b>1,277</b>	<b>3,468</b>	<b>27,666</b>	<b>8,555</b>
Doctorate.....	21,477	3,304	1,274	131	176	573	463	1,622	14,582	3,591
Professional/medical.....	240	68	68	(1)	16	(1)	19	(1)	120	52
Master's.....	14,241	4,513	2,324	103	248	1,110	508	1,241	6,765	2,963
Bachelor's.....	11,982	3,834	1,814	212	767	1,875	287	605	6,199	1,949
Associate.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)

Table B-8—Con.

Field and highest degree	With nonformal training in 1973										No nonformal training	Nonformal training not reported
	Total	Total	On-the-job training	Military training, applicable to civilian occupations	Extension or correspondence courses	Employer's training programs	Adult education programs	Other training				
<b>Economists.....</b>	<b>19,754</b>	<b>4,761</b>	<b>2,548</b>	<b>144</b>	<b>386</b>	<b>1,627</b>	<b>598</b>	<b>1,183</b>	<b>11,479</b>	<b>3,514</b>		
Doctorate.....	8,792	1,507	632	16	64	408	247	621	5,898	1,387		
Professional/medical.....	181	52	52	(1)	(1)	(1)	19	(1)	77	52		
Master's.....	5,119	1,698	908	92	54	572	195	363	2,550	881		
Bachelor's.....	5,662	1,514	956	34	268	647	137	199	2,954	1,194		
Associate.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)		
Other.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)		
No degree.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)		
<b>Sociologists/anthropologists.....</b>	<b>11,158</b>	<b>1,800</b>	<b>809</b>	<b>(1)</b>	<b>347</b>	<b>551</b>	<b>373</b>	<b>559</b>	<b>7,259</b>	<b>2,099</b>		
Doctorate.....	6,470	753	215	(1)	60	87	150	302	4,588	1,149		
Professional/medical.....	14	(1)	(1)	(1)	(1)	(1)	(1)	(1)	14	(1)		
Master's.....	2,937	440	253	(1)	25	73	90	124	1,813	694		
Bachelor's.....	1,737	607	341	(1)	262	391	133	133	864	266		
Associate.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)		
Other.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)		
No degree.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)		
<b>Other social scientists.....</b>	<b>17,028</b>	<b>5,158</b>	<b>2,123</b>	<b>302</b>	<b>474</b>	<b>1,380</b>	<b>306</b>	<b>1,726</b>	<b>8,928</b>	<b>2,942</b>		
Doctorate.....	6,215	1,044	427	113	52	78	66	699	4,116	1,056		
Professional/medical.....	45	16	16	(1)	16	(1)	(1)	(1)	29	(1)		
Master's.....	6,185	2,385	1,163	11	169	465	223	754	2,402	1,388		
Bachelor's.....	4,583	1,713	517	178	237	837	17	273	2,381	489		
Associate.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)		
Other.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)		
No degree.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)		

No cases reported.

Note: The sum of the types of nonformal training may exceed the total with such training since persons could have reported more than one type of training.

SOURCE: National Science Foundation, National Sample, 1974.

Field and highest degree	Total	Physical scientists	Mathematical scientists	Computer specialists	Engineers	Biological scientists	Social scientists	Administrators, managers and officials	Teachers	Health occupations	Technicians and technologists	Other	Not reported
Total, all fields .....	1,079,698	116,266	24,907	54,759	571,997	73,150	67,389	114,681	2,606	522	1,040	4,281	48,100
Doctorate .....	80,870	47,818	9,939	2,678	26,641	35,730	37,145	12,094	1,631	174	84	506	6,430
Professional/medical .....	3,248	134	176	153	920	1,466	262	14	(1)	(1)	(1)	14	109
Master's .....	242,289	24,561	9,177	14,470	123,649	15,741	22,279	21,730	785	195	282	729	8,691
Bachelor's .....	620,396	43,753	5,615	37,458	389,960	20,213	7,703	80,427	190	153	674	3,032	31,218
Associate .....	12,539	(1)	(1)	(1)	11,701	(1)	(1)	240	(1)	(1)	(1)	(1)	598
Other degree .....	101	(1)	(1)	(1)	101	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree .....	20,255	(1)	(1)	(1)	19,025	(1)	(1)	176	(1)	(1)	(1)	(1)	1,054
Physical scientists .....	121,011	88,262	99	84	1,888	9,445	94	14,669	419	173	84	443	5,351
Doctorate .....	54,665	39,718	72	23	522	6,866	30	4,842	332	30	47	151	2,032
Professional/medical .....	175	72	(1)	(1)	(1)	75	(1)	(1)	(1)	(1)	(1)	(1)	28
Master's .....	22,349	16,657	(1)	48	380	1,246	64	2,611	61	49	25	74	1,134
Bachelor's .....	43,822	31,815	27	13	986	1,258	(1)	7,216	26	94	12	218	2,157
Associate .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other degree .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Chemists .....	87,334	61,368	87	(1)	1,020	9,378	(1)	10,680	277	156	72	392	3,904
Doctorate .....	35,897	23,754	72	(1)	259	6,817	(1)	3,373	226	13	47	127	1,209
Professional/medical .....	175	72	(1)	(1)	(1)	75	(1)	(1)	(1)	(1)	(1)	(1)	28
Master's .....	14,743	10,665	(1)	(1)	260	1,228	(1)	1,638	25	49	25	61	792
Bachelor's .....	36,519	26,877	15	(1)	501	1,258	(1)	5,669	26	94	(1)	204	1,875
Associate .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other degree .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Physicists/astronomers .....	27,519	21,687	12	84	805	43	94	3,293	119	(1)	12	39	1,331
Doctorate .....	16,874	14,324	(1)	23	251	25	30	1,350	83	(1)	(1)	12	776
Professional/medical .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Master's .....	5,860	4,590	(1)	48	69	18	64	710	36	(1)	(1)	13	312
Bachelor's .....	4,785	2,773	12	13	485	(1)	(1)	1,233	(1)	(1)	12	14	243
Associate .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other degree .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other physical scientists .....	6,158	5,207	(1)	(1)	63	24	(1)	696	23	17	(1)	12	116
Doctorate .....	1,894	1,640	(1)	(1)	12	24	(1)	119	23	17	(1)	12	47
Professional/medical .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	263	(1)	(1)	(1)	(1)	30
Master's .....	1,746	1,402	(1)	(1)	51	(1)	(1)	314	(1)	(1)	(1)	(1)	39
Bachelor's .....	2,518	2,165	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Associate .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other degree .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Mathematical scientists .....	27,833	24	21,565	560	377	12	31	3,321	399	(1)	44	255	1,165
Doctorate .....	10,022	43	9,159	51	48	12	31	148	173	(1)	(1)	13	344
Professional/medical .....	147	(1)	147	(1)	(1)	(1)	(1)	896	194	(1)	13	(1)	308
Master's .....	9,328	(1)	7,624	111	102	(1)	(1)	2,277	32	(1)	31	242	433
Bachelor's .....	8,336	61	4,635	398	227	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Associate .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other degree .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)

Table B-9—Con.

Field and highest degree	Total	Physical scientists	Mathematical scientists	Computer specialists	Engineers	Biological scientists	Social scientists	Administrators, managers and officials	Teachers	Health occupations	Technicians and technologists	Other	Not reported
<b>Mathematicians</b> .....	20,076	104	15,061	516	335	12	(1)	2,819	335	(1)	44	146	704
Doctorate .....	7,708	43	7,107	39	48	12	(1)	110	109	(1)	(1)	13	227
Professional/medical .....	77	(1)	77	(1)	(1)	(1)	(1)	(1)	194	(1)	(1)	(1)	(1)
Master's .....	6,992	(1)	5,777	93	60	(1)	(1)	572	32	(1)	13	(1)	283
Bachelor's .....	5,299	61	2,100	384	227	(1)	(1)	2,137	32	(1)	31	133	194
Associate .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other degree .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Statisticians</b> .....	7,757	(1)	6,504	44	42	(1)	(1)	502	64	(1)	(1)	109	461
Doctorate .....	2,314	(1)	2,052	12	(1)	(1)	31	38	64	(1)	(1)	(1)	117
Professional/medical .....	70	(1)	70	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Master's .....	2,336	(1)	1,847	18	42	(1)	(1)	324	(1)	(1)	(1)	(1)	105
Bachelor's .....	3,037	(1)	2,535	14	(1)	(1)	(1)	140	(1)	(1)	(1)	109	239
Associate .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other degree .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Computer specialists</b> .....	55,186	14	17	52,454	79	12	(1)	896	28	(1)	(1)	17	1,669
Doctorate .....	2,604	14	(1)	2,470	(1)	12	(1)	13	(1)	(1)	(1)	17	78
Professional/medical .....	153	(1)	(1)	153	(1)	(1)	(1)	(1)	28	(1)	(1)	(1)	(1)
Master's .....	14,815	(1)	17	13,817	11	(1)	(1)	593	(1)	(1)	(1)	(1)	349
Bachelor's .....	37,614	(1)	(1)	36,014	68	(1)	(1)	290	(1)	(1)	(1)	(1)	1,242
Associate .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other degree .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Environmental scientists</b> .....	29,466	26,132	12	71	308	85	(1)	1,471	48	18	24	194	1,103
Doctorate .....	8,054	7,208	(1)	14	51	52	(1)	296	48	(1)	(1)	59	326
Professional/medical .....	62	62	(1)	26	13	24	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Master's .....	8,443	7,538	(1)	26	13	24	(1)	329	(1)	(1)	12	112	389
Bachelor's .....	12,907	11,324	12	31	244	9	(1)	846	(1)	18	12	23	388
Associate .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other degree .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Earth scientists</b> .....	24,589	21,773	12	28	267	24	(1)	1,285	48	18	24	194	916
Doctorate .....	6,253	5,623	(1)	14	51	24	(1)	233	48	(1)	(1)	59	225
Professional/medical .....	62	62	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Master's .....	6,927	6,168	(1)	14	13	24	(1)	230	(1)	(1)	12	112	364
Bachelor's .....	11,347	9,920	12	14	203	(1)	(1)	822	(1)	18	12	23	337
Associate .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other degree .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Oceanographers</b> .....	1,563	1,459	(1)	(1)	(1)	52	(1)	9	(1)	(1)	(1)	(1)	43
Doctorate .....	957	883	(1)	(1)	(1)	52	(1)	9	(1)	(1)	(1)	(1)	22
Professional/medical .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Master's .....	449	419	(1)	(1)	(1)	(1)	(1)	9	(1)	(1)	(1)	(1)	21
Bachelor's .....	157	157	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Associate .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other degree .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)

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Table B-9—Con.

Field and highest degree	Total	Physical scientists	Mathematical scientists	Computer specialists	Engineers	Biological scientists	Social scientists	Administrators, managers and officials	Teachers	Health occupations	Technicians and technologists	Other	Not reported
<b>Atmospheric scientists:</b>													
Doctorate .....	3,314	2,900	(1)	43	41	9	(1)	177	(1)	(1)	(1)	(1)	144
Professional/medical .....	844	702	(1)	(1)	(1)	(1)	(1)	63	(1)	(1)	(1)	(1)	79
Master's .....	1,067	951	(1)	12	(1)	(1)	(1)	90	(1)	(1)	(1)	(1)	(1)
Bachelor's .....	1,403	1,247	(1)	31	41	9	(1)	24	(1)	(1)	(1)	(1)	14
Associate .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	51
Other degree .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Engineers:</b>													
Doctorate .....	687,911	1,232	3,084	1,550	568,908	104	54	76,828	398	104	769	2,609	32,271
Professional/medical .....	31,879	567	629	93	25,886	29	(1)	3,388	129	(1)	13	57	1,088
Master's .....	1,002	(1)	29	(1)	920	(1)	(1)	14	(1)	(1)	(1)	14	25
Bachelor's .....	145,290	278	1,485	455	123,037	37	27	14,176	183	104	208	316	4,984
Associate .....	476,845	387	941	1,002	388,238	38	27	58,834	86	(1)	548	2,222	24,522
Other degree .....	12,539	(1)	(1)	(1)	11,701	(1)	(1)	240	(1)	(1)	(1)	(1)	598
No degree .....	101	(1)	(1)	(1)	101	(1)	(1)	176	(1)	(1)	(1)	(1)	1,054
20,255	(1)	(1)	(1)	(1)	19,025	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Life scientists:</b>													
Doctorate .....	75,462	444	43	(1)	332	63,087	80	7,798	355	130	95	155	2,943
Professional/medical .....	31,765	190	13	(1)	117	28,418	67	1,476	342	75	(1)	22	1,045
Master's .....	1,416	(1)	(1)	(1)	(1)	1,391	(1)	(1)	(1)	(1)	(1)	(1)	25
Bachelor's .....	16,789	88	30	(1)	106	14,387	13	1,513	13	14	24	50	551
Associate .....	25,492	166	(1)	(1)	109	18,891	(1)	4,809	(1)	41	71	83	1,322
Other degree .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Biological scientists:</b>													
Doctorate .....	35,935	153	13	(1)	40	31,381	41	2,888	304	79	(1)	36	1,000
Professional/medical .....	19,981	36	13	(1)	25	18,100	28	906	291	38	(1)	11	533
Master's .....	153	(1)	(1)	(1)	(1)	153	(1)	(1)	(1)	(1)	(1)	(1)	174
Bachelor's .....	9,187	24	(1)	(1)	(1)	8,119	13	819	13	41	(1)	25	293
Associate .....	6,614	93	(1)	(1)	15	5,009	(1)	1,163	(1)	(1)	(1)	(1)	(1)
Other degree .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Agricultural scientists:</b>													
Doctorate .....	28,790	151	30	(1)	217	22,220	24	4,385	13	(1)	95	106	1,549
Professional/medical .....	6,519	14	(1)	(1)	65	5,700	24	435	13	(1)	(1)	11	257
Master's .....	25	(1)	(1)	(1)	(1)	25	(1)	404	(1)	(1)	24	12	333
Bachelor's .....	5,618	64	30	(1)	58	4,693	(1)	3,546	(1)	(1)	71	83	959
Associate .....	16,628	73	(1)	(1)	94	11,802	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other degree .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Medical scientists:</b>													
Doctorate .....	10,737	140	(1)	(1)	75	9,486	15	525	38	51	(1)	13	394
Professional/medical .....	5,265	140	(1)	(1)	27	4,618	15	135	38	37	(1)	(1)	255
Master's .....	1,238	(1)	(1)	(1)	(1)	1,213	(1)	290	(1)	14	(1)	13	25
Bachelor's .....	1,964	(1)	(1)	(1)	48	1,575	(1)	100	(1)	(1)	(1)	(1)	44
Associate .....	2,250	(1)	(1)	(1)	(1)	2,080	(1)	(1)	(1)	(1)	(1)	(1)	70
Other degree .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)

Field and highest degree	Total	Physical scientists	Mathematical scientists	Computer specialists	Engineers	Biological scientists	Social scientists	Administrators, managers, and officials	Teachers	Health occupations	Technicians and technologists	Other	Not reported
<b>Psychologists</b>													
Doctorate	34,889	(1)	(1)	14	(1)	308	29,969	2,605	395	84	12	198	1,304
Professional/medical	20,404	(1)	(1)	(1)	(1)	261	18,179	1,025	150	56	12	105	602
Master's	53	(1)	(1)	(1)	(1)	(1)	40	(1)	(1)	(1)	(1)	13	13
Bachelor's	11,034	(1)	(1)	(1)	(1)	30	10,031	238	232	28	(1)	25	450
Associate	3,398	(1)	(1)	(1)	(1)	17	1,719	1,342	13	(1)	(1)	68	239
Other degree	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Social scientists</b>													
Doctorate	47,940	78	87	26	105	97	37,161	7,093	584	13	12	410	2,294
Professional/medical	21,477	78	66	13	17	80	18,838	906	457	13	12	82	915
Master's	240	(1)	(1)	(1)	(1)	(1)	222	(1)	(1)	(1)	(1)	(1)	18
Bachelor's	14,241	(1)	21	13	88	17	12,144	1,374	74	(1)	(1)	152	446
Associate	11,982	(1)	(1)	(1)	(1)	(1)	5,957	4,813	33	(1)	(1)	176	915
Other degree	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Economists</b>													
Doctorate	19,754	17	21	13	75	17	14,924	3,323	197	(1)	12	280	975
Professional/medical	8,792	17	(1)	(1)	(1)	(1)	7,895	411	145	(1)	12	(1)	312
Master's	181	(1)	(1)	(1)	(1)	(1)	163	(1)	(1)	(1)	(1)	(1)	18
Bachelor's	5,119	(1)	21	13	75	17	4,225	451	19	(1)	(1)	122	251
Associate	5,662	(1)	(1)	(1)	(1)	(1)	2,541	2,461	33	(1)	(1)	158	394
Other degree	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Sociologists/anthropologists</b>													
Doctorate	11,158	48	(1)	(1)	(1)	66	9,372	1,211	89	(1)	(1)	15	357
Professional/medical	6,470	48	(1)	(1)	(1)	66	5,863	213	62	(1)	(1)	15	203
Master's	14	(1)	(1)	(1)	(1)	(1)	14	(1)	(1)	(1)	(1)	(1)	(1)
Bachelor's	2,937	(1)	(1)	(1)	(1)	(1)	2,747	93	27	(1)	(1)	(1)	70
Associate	1,737	(1)	(1)	(1)	(1)	(1)	748	905	(1)	(1)	(1)	(1)	84
Other degree	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Other social scientists</b>													
Doctorate	17,028	13	66	13	30	14	12,965	2,559	278	13	(1)	115	962
Professional/medical	6,215	13	66	13	17	14	5,080	282	250	13	(1)	67	400
Master's	45	(1)	(1)	(1)	(1)	(1)	45	(1)	(1)	(1)	(1)	(1)	(1)
Bachelor's	6,185	(1)	(1)	(1)	(1)	(1)	5,172	830	28	(1)	(1)	30	125
Associate	4,583	(1)	(1)	(1)	(1)	(1)	2,668	1,447	(1)	(1)	(1)	18	437
Other degree	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)

cases reported.  
RCE: National Science Foundation, National Sample, 1974.



Table B-10.—Number of scientists and engineers by field, major subject of study for highest degree, and highest degree held: 1974

Field and major subject of study for highest degree	Total with a degree	Doctorate	Professional/medical	Master's	Bachelor's	Associate	Other	Field and major subject of study for highest degree	Total with a degree	Doctorate	Professional/medical	Master's	Bachelor's	Associate	Other
Total, all fields...	1,059,443	180,870	3,248	242,289	620,396	12,539	101	Other social sciences	338	69	(1)	80	189	(1)	(1)
Chemistry	80,798	29,958	(1)	13,129	37,711	(1)	(1)	Business and commerce	498	(1)	(1)	473	25	(1)	(1)
Physics and astronomy	49,062	20,175	(1)	10,857	17,981	49	(1)	All other subjects	2,152	442	76	826	808	(1)	(1)
Mathematical sciences	44,706	9,543	(1)	12,548	22,615	(1)	(1)	Subject not reported	927	318	24	161	424	(1)	(1)
Computer science and systems	6,945	776	(1)	4,896	1,273	(1)	(1)	Chemists	87,334	35,897	175	14,743	36,519	(1)	(1)
Earth, space, and marine sciences	26,128	6,466	(1)	7,884	11,778	(1)	(1)	Chemistry	69,910	28,028	(1)	11,436	30,446	(1)	(1)
Engineering	592,420	30,091	70	123,056	437,861	1,342	(1)	Physics and astronomy	911	367	(1)	167	377	(1)	(1)
Biological sciences	49,969	29,443	(1)	10,293	10,233	(1)	(1)	Mathematical sciences	337	(1)	(1)	(1)	337	(1)	(1)
Agricultural sciences	30,500	5,760	(1)	5,886	18,854	(1)	(1)	Computer science and systems	50	(1)	(1)	(1)	50	(1)	(1)
Medical sciences	6,175	1,883	1,146	1,542	1,604	(1)	(1)	Analysis	180	47	(1)	51	82	(1)	(1)
Psychology	36,083	20,146	13	10,673	5,251	(1)	(1)	Earth, space, and marine sciences	1,989	353	(1)	244	1,392	(1)	(1)
Economics	22,095	8,695	(1)	5,309	8,091	(1)	(1)	Engineering	9,898	6,324	(1)	1,440	2,134	(1)	(1)
Sociology and anthropology	11,922	6,492	14	2,558	2,750	(1)	(1)	Biological sciences	621	249	(1)	130	242	(1)	(1)
Other social sciences	15,337	5,586	(1)	4,235	5,477	38	(1)	Agricultural sciences	646	154	75	136	281	(1)	(1)
Business and commerce	30,549	331	(1)	13,949	16,156	113	(1)	Medical sciences	72	(1)	(1)	23	49	(1)	(1)
All other subjects	47,100	4,056	1,405	13,382	17,380	10,838	39	Psychology	23	(1)	(1)	(1)	23	(1)	(1)
Subject not reported	9,654	1,469	600	1,983	5,381	159	62	Economics	24	(1)	(1)	(1)	24	(1)	(1)
Physical scientists	121,011	54,665	175	22,349	43,822	(1)	(1)	Sociology and anthropology	54	(1)	(1)	(1)	54	(1)	(1)
Chemistry	70,734	28,375	(1)	11,550	30,809	(1)	(1)	Other social sciences	447	(1)	(1)	422	25	(1)	(1)
Physics and astronomy	29,531	17,175	(1)	6,512	5,844	(1)	(1)	Business and commerce	1,561	202	76	594	709	(1)	(1)
Mathematical sciences	728	12	(1)	76	640	(1)	(1)	All other subjects	591	173	24	100	294	(1)	(1)
Computer science and systems	73	(1)	(1)	23	50	(1)	(1)	Subject not reported	27,519	16,874	(1)	5,860	4,785	(1)	(1)
Earth, space, and marine sciences	650	132	(1)	263	255	(1)	(1)	Physicists/ astronomers	212	134	(1)	12	66	(1)	(1)
Engineering	3,609	1,303	(1)	523	1,783	(1)	(1)	Chemistry	25,528	15,989	(1)	5,225	4,314	(1)	(1)
Biological sciences	10,088	6,389	(1)	1,502	2,197	(1)	(1)	Physics and astronomy	173	12	(1)	63	98	(1)	(1)
Agricultural sciences	832	261	(1)	159	412	(1)	(1)	Mathematical sciences	23	(1)	(1)	23	(1)	(1)	(1)
Medical sciences	681	177	75	148	281	(1)	(1)	Computer science and systems	164	24	(1)	140	(1)	(1)	
Psychology	84	12	(1)	23	49	(1)	(1)	Analysis	564	342	(1)	133	89	(1)	(1)
Economics	41	(1)	(1)	18	23	(1)	(1)	Earth, space, and marine sciences							
Sociology and anthropology	45	(1)	(1)	12	33	(1)	(1)	Engineering							

Table B-10—Con.

Field and major subject of study for highest degree	Total with a degree	Doctorate	Professional/medical	Master's	Bachelor's	Associate	Other
Biological sciences . . . . .	39	13	(1)	11	15	(1)	(1)
Agricultural sciences . . . . .	12	12	(1)	(1)	(1)	(1)	(1)
Medical sciences . . . . .	35	23	(1)	12	(1)	(1)	(1)
Psychology . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Economics . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Sociology and anthropology . . . . .	12	(1)	(1)	12	(1)	(1)	(1)
Other social sciences . . . . .	25	12	(1)	13	(1)	(1)	(1)
Business and commerce . . . . .	25	(1)	(1)	25	(1)	(1)	(1)
All other subjects . . . . .	397	166	(1)	143	86	(1)	(1)
Subject not reported . . . . .	310	145	(1)	48	117	(1)	(1)
Other physical scientists . . . . .	6,158	1,894	(1)	1,746	2,518	(1)	(1)
Chemistry . . . . .	612	213	(1)	102	297	(1)	(1)
Physics and astronomy . . . . .	3,092	819	(1)	1,120	1,153	(1)	(1)
Mathematical sciences . . . . .	218	(1)	(1)	13	205	(1)	(1)
Computer science and systems analysis . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Earth, space, and marine sciences . . . . .	306	61	(1)	72	173	(1)	(1)
Engineering . . . . .	1,056	608	(1)	146	302	(1)	(1)
Biological sciences . . . . .	151	52	(1)	51	48	(1)	(1)
Agricultural sciences . . . . .	199	(1)	(1)	29	170	(1)	(1)
Medical sciences . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Psychology . . . . .	12	12	(1)	(1)	(1)	(1)	(1)
Economics . . . . .	18	(1)	(1)	18	(1)	(1)	(1)
Sociology and anthropology . . . . .	9	(1)	(1)	(1)	9	(1)	(1)
Other social sciences . . . . .	259	57	(1)	67	135	(1)	(1)
Business and commerce . . . . .	26	(1)	(1)	26	(1)	(1)	(1)
All other subjects . . . . .	174	72	(1)	89	13	(1)	(1)
Subject not reported . . . . .	26	(1)	(1)	13	13	(1)	(1)
Mathematical scientists . . . . .	27,833	10,022	147	9,328	8,396	(1)	(1)

Field and major subject of study for highest degree	Total with a degree	Doctorate	Professional/medical	Master's	Bachelor's	Associate	Other
Chemistry . . . . .	78	39	(1)	12	27	(1)	(1)
Physics and astronomy . . . . .	408	213	(1)	131	64	(1)	(1)
Mathematical sciences . . . . .	22,176	8,638	(1)	7,742	5,796	(1)	(1)
Computer science and systems analysis . . . . .	122	25	(1)	97	(1)	(1)	(1)
Earth, space, and marine sciences . . . . .	31	(1)	(1)	31	(1)	(1)	(1)
Engineering . . . . .	481	88	(1)	224	169	(1)	(1)
Biological sciences . . . . .	194	96	(1)	(1)	98	(1)	(1)
Agricultural sciences . . . . .	354	78	(1)	72	204	(1)	(1)
Medical sciences . . . . .	152	13	58	52	29	(1)	(1)
Psychology . . . . .	216	47	(1)	24	145	(1)	(1)
Economics . . . . .	829	146	(1)	233	450	(1)	(1)
Sociology and anthropology . . . . .	265	56	(1)	29	140	(1)	(1)
Other social sciences . . . . .	133	(1)	(1)	25	108	(1)	(1)
Business and commerce . . . . .	802	12	(1)	239	551	(1)	(1)
All other subjects . . . . .	1,445	518	25	417	485	(1)	(1)
Subject not reported . . . . .	147	13	64	(1)	70	(1)	(1)
Mathematicians . . . . .	20,076	7,708	77	6,992	5,299	(1)	(1)
Chemistry . . . . .	14	(1)	(1)	(1)	14	(1)	(1)
Physics and astronomy . . . . .	396	201	(1)	131	64	(1)	(1)
Mathematical sciences . . . . .	18,281	7,010	(1)	6,314	4,957	(1)	(1)
Computer science and systems analysis . . . . .	96	25	(1)	71	(1)	(1)	(1)
Earth, space, and marine sciences . . . . .	31	(1)	(1)	31	(1)	(1)	(1)
Engineering . . . . .	269	88	(1)	145	36	(1)	(1)
Biological sciences . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Agricultural sciences . . . . .	18	(1)	(1)	(1)	16	(1)	(1)
Medical sciences . . . . .	27	(1)	(1)	27	(1)	(1)	(1)
Psychology . . . . .	18	(1)	(1)	(1)	18	(1)	(1)
Economics . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Sociology and anthropology . . . . .	36	(1)	(1)	(1)	36	(1)	(1)
Other social sciences . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)

See footnote at end of table.





Table B-10—Con.

Field and major subject of study for highest degree	Total with a degree	Doctorate	Professional/medical	Master's	Bachelor's	Associate	Other	Field and major subject of study for highest degree	Total with a degree	Doctorate	Professional/medical	Master's	Bachelor's	Associate	Other
Business and commerce . . . . .	30	(1)	(1)	13	17	(1)	(1)	Medical sciences	428	137	(1)	124	167	(1)	(1)
All other subjects	785	371	13	260	141	(1)	(1)	Psychology . . . . .	1,140	61	(1)	165	914	(1)	(1)
Subject not reported . . . . .	77	13	64	(1)	(1)	(1)	(1)	Economics . . . . .	1,924	(1)	(1)	274	1,650	(1)	(1)
Statisticians . . . . .	7,757	2,314	70	2,336	3,037	(1)	(1)	Sociology and anthropology . . . . .	449	(1)	(1)	73	376	(1)	(1)
Chemistry . . . . .	64	39	(1)	12	13	(1)	(1)	Other social sciences . . . . .	1,253	54	(1)	210	989	(1)	(1)
Physics and astronomy . . . . .	12	12	(1)	(1)	(1)	(1)	(1)	Business and commerce . . . . .	10,960	48	(1)	3,020	7,892	(1)	(1)
Mathematical sciences . . . . .	3,895	1,628	(1)	1,428	839	(1)	(1)	All other subjects	5,398	80	153	1,161	4,004	(1)	(1)
Computer science and systems analysis . . . . .	26	(1)	(1)	26	(1)	(1)	(1)	Subject not reported . . . . .	426	71	(1)	84	271	(1)	(1)
Earth, space, and marine sciences . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)	Environmental scientists . . . . .	29,466	8,054	62	8,443	12,907	(1)	(1)
Engineering . . . . .	212	(1)	(1)	79	133	(1)	(1)	Chemistry . . . . .	264	151	(1)	(1)	113	(1)	(1)
Biological sciences . . . . .	194	96	(1)	(1)	98	(1)	(1)	Physics and astronomy . . . . .	1,696	655	(1)	306	735	(1)	(1)
Agricultural sciences . . . . .	338	78	(1)	72	188	(1)	(1)	Mathematical sciences . . . . .	555	32	(1)	24	499	(1)	(1)
Medical sciences	125	13	88	25	29	(1)	(1)	Computer science and systems analysis . . . . .	13	(1)	(1)	(1)	13	(1)	(1)
Psychology . . . . .	198	47	(1)	24	127	(1)	(1)	Earth, space, and marine sciences . . . . .	22,594	6,030	(1)	7,111	9,453	(1)	(1)
Economics . . . . .	829	146	(1)	233	450	(1)	(1)	Engineering . . . . .	1,535	338	(1)	180	1,017	(1)	(1)
Sociology and anthropology . . . . .	229	96	(1)	29	104	(1)	(1)	Biological sciences . . . . .	256	150	(1)	70	36	(1)	(1)
Other social sciences . . . . .	133	(1)	(1)	25	108	(1)	(1)	Agricultural sciences . . . . .	785	153	(1)	179	453	(1)	(1)
Business and commerce . . . . .	772	12	(1)	226	534	(1)	(1)	Medical sciences	37	(1)	13	(1)	24	(1)	(1)
All other subjects	660	147	12	157	344	(1)	(1)	Psychology . . . . .	25	(1)	(1)	(1)	25	(1)	(1)
Subject not reported . . . . .	70	(1)	(1)	(1)	70	(1)	(1)	Economics . . . . .	104	64	(1)	16	24	(1)	(1)
Computer specialists . . . . .	55,186	2,604	153	14,815	37,614	(1)	(1)	Sociology and anthropology . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Chemistry . . . . .	693	184	(1)	17	492	(1)	(1)	Other social sciences . . . . .	715	296	(1)	245	174	(1)	(1)
Physics and astronomy . . . . .	2,355	371	(1)	230	1,754	(1)	(1)	Business and commerce . . . . .	62	(1)	(1)	50	12	(1)	(1)
Mathematical sciences . . . . .	13,964	302	(1)	2,794	10,868	(1)	(1)	All other subjects	471	46	36	159	230	(1)	(1)
Computer science and systems analysis . . . . .	5,595	599	(1)	3,923	1,073	(1)	(1)	Subject not reported . . . . .	354	139	13	103	99	(1)	(1)
Earth, space, and marine sciences . . . . .	546	87	(1)	65	394	(1)	(1)	Earth scientists . . . . .	24,589	5,253	62	6,927	11,347	(1)	(1)
Engineering . . . . .	9,266	610	(1)	2,555	6,091	(1)	(1)	Chemistry . . . . .	113	62	(1)	(1)	51	(1)	(1)
Biological sciences . . . . .	597	(1)	(1)	57	540	(1)	(1)	Physics and astronomy . . . . .	1,151	414	(1)	219	518	(1)	(1)
Agricultural sciences . . . . .	192	(1)	(1)	53	139	(1)	(1)	Mathematical sciences . . . . .	338	21	(1)	(1)	317	(1)	(1)
								Computer science and systems analysis . . . . .	13	(1)	(1)	(1)	13	(1)	(1)

Table B-10—Con.

Field and major subject of study for highest degree	Total with a degree	Doctorate	Professional/medical	Master's	Bachelor's	Associate	Other	Field and major subject of study for highest degree	Total with a degree	Doctorate	Professional/medical	Master's	Bachelor's	Associate	Other
Earth, space, and marine sciences . . . . .	19,555	4,778	(1)	6,025	8,752	(1)	(1)	Atmospheric scientists . . . . .	3,314	844	(1)	1,067	1,403	(1)	(1)
Engineering . . . . .	1,175	254	(1)	76	845	(1)	(1)	Chemistry . . . . .	114	65	(1)	(1)	49	(1)	(1)
Biological sciences . . . . .	148	113	(1)	12	23	(1)	(1)	Physics and astronomy . . . . .	495	203	(1)	75	217	(1)	(1)
Agricultural sciences . . . . .	716	142	(1)	121	453	(1)	(1)	Mathematical sciences . . . . .	206	(1)	(1)	24	182	(1)	(1)
Medical sciences . . . . .	13	(1)	(1)	(1)	(1)	(1)	(1)	Computer science and systems analysis . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Psychology . . . . .	12	(1)	(1)	(1)	12	(1)	(1)	Earth, space, and marine sciences . . . . .	2,005	465	(1)	900	640	(1)	(1)
Economics . . . . .	104	64	(1)	16	24	(1)	(1)	Engineering . . . . .	215	37	(1)	39	139	(1)	(1)
Sociology and anthropology . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)	Biological sciences . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other social sciences . . . . .	601	244	(1)	232	125	(1)	(1)	Agricultural sciences . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Business and commerce . . . . .	38	(1)	(1)	38	(1)	(1)	(1)	sciences . . . . .	11	11	(1)	(1)	(1)	(1)	(1)
All other subjects reported . . . . .	283	35	(1)	85	127	(1)	(1)	Medical sciences . . . . .	11	(1)	(1)	(1)	(1)	(1)	(1)
	329	126	(1)	103	87	(1)	(1)	Psychology . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)
								Economics . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)
								Sociology and anthropology . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)
								Other social sciences . . . . .	101	52	(1)	(1)	49	(1)	(1)
Oceanographers . . . . .	1,563	957	(1)	449	157	(1)	(1)	Business and commerce . . . . .	24	(1)	(1)	12	12	(1)	(1)
Chemistry . . . . .	37	24	(1)	(1)	13	(1)	(1)	All other subjects reported . . . . .	131	11	(1)	17	103	(1)	(1)
Physics and astronomy . . . . .	50	38	(1)	12	(1)	(1)	(1)		12	(1)	(1)	(1)	12	(1)	(1)
Mathematical sciences . . . . .	11	11	(1)	(1)	(1)	(1)	(1)	Engineers . . . . .	667,656	31,879	1,002	145,290	476,945	12,539	101
Computer science and systems analysis . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)	Chemistry . . . . .	7,978	653	(1)	1,333	5,992	(1)	(1)
Earth, space, and marine sciences . . . . .	1,034	787	(1)	186	61	(1)	(1)	Physics and astronomy . . . . .	14,506	1,374	(1)	3,580	9,503	49	(1)
Engineering . . . . .	145	47	(1)	65	33	(1)	(1)	Mathematical sciences . . . . .	6,758	392	(1)	1,832	4,534	(1)	(1)
Biological sciences . . . . .	108	37	(1)	58	13	(1)	(1)	Computer science and systems analysis . . . . .	1,109	152	(1)	832	125	(1)	(1)
Agricultural sciences . . . . .	58	(1)	(1)	58	(1)	(1)	(1)	Earth, space, and marine sciences . . . . .	2,161	94	(1)	402	1,665	(1)	(1)
Medical sciences . . . . .	24	(1)	(1)	(1)	24	(1)	(1)	Engineering . . . . .	576,789	27,462	70	119,352	428,563	1,342	(1)
Psychology . . . . .	13	(1)	(1)	(1)	13	(1)	(1)	Biological sciences . . . . .	1,407	178	(1)	275	954	(1)	(1)
Economics . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)	Agricultural sciences . . . . .	1,711	74	(1)	232	1,405	(1)	(1)
Sociology and anthropology . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)	Medical sciences	795	58	12	340	395	(1)	(1)
Other social sciences . . . . .	13	(1)	(1)	13	(1)	(1)	(1)								
Business and commerce . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)								
All other subjects reported . . . . .	57	(1)	(1)	57	(1)	(1)	(1)								
Subject not reported . . . . .	13	13	(1)	(1)	(1)	(1)	(1)								

18 footnote at end of table



Table B-10—Con.

Field and major subject of study for highest degree	Total with a degree	Doctorate	Professional/medical	Master's	Bachelor's	Associate	Other	Field and major subject of study for highest degree	Total with a degree	Doctorate	Professional/medical	Master's	Bachelor's	Associate	Other
Psychology . . . . .	948	213	(1)	205	530	(1)	(1)	Earth, space, and marine sciences . . . . .	118	106	(1)	12	(1)	(1)	(1)
Economics . . . . .	1,581	123	(1)	417	1,041	(1)	(1)	Engineering . . . . .	190	76	(1)	87	27	(1)	(1)
Sociology and anthropology . . . . .	208	36	(1)	46	126	(1)	(1)	Biological sciences . . . . .	29,361	17,400	(1)	7,114	4,847	(1)	(1)
Other social sciences . . . . .	2,111	86	(1)	852	1,135	38	(1)	Agricultural sciences . . . . .	2,646	953	(1)	803	890	(1)	(1)
Business and commerce . . . . .	17,307	148	(1)	9,769	7,277	113	(1)	Medical sciences . . . . .	466	246	49	39	132	(1)	(1)
All other subjects . . . . .	25,771	376	826	4,347	9,345	10,888	39	Psychology . . . . .	139	114	(1)	13	12	(1)	(1)
Subject not reported . . . . .	6,516	460	94	1,476	4,265	159	62	Economics . . . . .	12	(1)	(1)	(1)	12	(1)	(1)
Life scientists . . . . .	75,462	31,765	1,416	16,789	25,492	(1)	(1)	Sociology and anthropology . . . . .	23	(1)	(1)	11	12	(1)	(1)
Chemistry . . . . .	1,026	556	(1)	217	253	(1)	(1)	anthropology . . . . .	23	(1)	(1)	11	12	(1)	(1)
Physics and astronomy . . . . .	510	387	(1)	84	39	(1)	(1)	Other social sciences . . . . .	13	(1)	(1)	(1)	13	(1)	(1)
Mathematical sciences . . . . .	292	93	(1)	5	149	(1)	(1)	Business and commerce . . . . .	64	(1)	(1)	25	39	(1)	(1)
Computer science and systems analysis . . . . .	12	(1)	(1)	(1)	12	(1)	(1)	All other subjects . . . . .	1,822	503	24	848	447	(1)	(1)
Earth, space, and marine sciences . . . . .	129	106	(1)	12	11	(1)	(1)	Subject not reported . . . . .	219	56	80	72	11	(1)	(1)
Engineering . . . . .	522	222	(1)	120	174	(1)	(1)	Agricultural scientists . . . . .	28,790	6,519	25	5,618	16,628	(1)	(1)
Biological sciences . . . . .	37,226	22,493	(1)	3,351	6,382	(1)	(1)	Chemistry . . . . .	43	(1)	(1)	30	13	(1)	(1)
Agricultural sciences . . . . .	26,417	5,152	(1)	5,091	16,174	(1)	(1)	Physics and astronomy . . . . .	26	14	(1)	12	(1)	(1)	(1)
Medical sciences . . . . .	3,957	1,423	988	840	706	(1)	(1)	Mathematical sciences . . . . .	132	(1)	(1)	13	119	(1)	(1)
Psychology . . . . .	574	371	(1)	93	110	(1)	(1)	Computer science and systems analysis . . . . .	12	(1)	(1)	(1)	12	(1)	(1)
Economics . . . . .	169	17	(1)	85	67	(1)	(1)	Earth, space, and marine sciences . . . . .	11	(1)	(1)	(1)	11	(1)	(1)
Sociology and anthropology . . . . .	156	43	(1)	24	89	(1)	(1)	Engineering . . . . .	147	(1)	(1)	(1)	147	(1)	(1)
Other social sciences . . . . .	189	14	(1)	104	71	(1)	(1)	Biological sciences . . . . .	3,821	2,331	(1)	892	598	(1)	(1)
Business and commerce . . . . .	98	(1)	(1)	48	50	(1)	(1)	Agricultural sciences . . . . .	23,594	4,022	(1)	4,288	15,284	(1)	(1)
All other subjects . . . . .	3,397	727	36	1,598	1,036	(1)	(1)	Medical sciences . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Subject not reported . . . . .	788	155	392	72	169	(1)	(1)	Psychology . . . . .	12	(1)	(1)	12	55	(1)	(1)
Biological scientists . . . . .	35,935	19,981	153	9,187	6,614	(1)	(1)	Economics . . . . .	157	57	(1)	85	55	(1)	(1)
Chemistry . . . . .	584	320	(1)	115	129	(1)	(1)	Sociology and anthropology . . . . .	36	(1)	(1)	(1)	36	(1)	(1)
Physics and astronomy . . . . .	250	175	(1)	48	27	(1)	(1)	Other social sciences . . . . .	99	14	(1)	59	26	(1)	(1)
Mathematical sciences . . . . .	49	32	(1)	(1)	16	(1)	(1)	Business and commerce . . . . .	34	(1)	(1)	23	11	(1)	(1)
Computer science and systems analysis . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)	All other subjects . . . . .	565	82	12	204	267	(1)	(1)
								Subject not reported . . . . .	101	39	13	(1)	49	(1)	(1)

Table B-10—Con.

Field and major subject of study for highest degree	Total with a degree	Doctorate	Professional/medical	Master's	Bachelor's	Associate	Other	Field and major subject of study for highest degree	Total with a degree	Doctorate	Professional/medical	Master's	Bachelor's	Associate	Other
Medical scientists	10,737	5,265	1,238	1,984	2,250	(1)	(1)	Other social sciences . . . . .	224	140	(1)	71	13	(1)	(1)
Chemistry . . . . .	419	236	(1)	72	111	(1)	(1)	Business and commerce . . . . .	91	52	(1)	26	13	(1)	(1)
Physics and astronomy . . . . .	234	198	(1)	24	12	(1)	(1)	All other subjects	1,868	760	27	688	223	(1)	(1)
Mathematical sciences . . . . .	112	61	(1)	37	14	(1)	(1)	Subject not reported . . . . .	210	143	13	54	(1)	(1)	(1)
Computer science and systems analysis . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)	Social scientists . . . . .	47,940	21,477	240	14,241	11,982	(1)	(1)
Earth, space, and marine sciences . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)	Chemistry . . . . .	25	(1)	(1)	(1)	25	(1)	(1)
Engineering . . . . .	185	152	(1)	33	(1)	(1)	(1)	Physics and astronomy . . . . .	42	(1)	(1)	14	28	(1)	(1)
Biological sciences . . . . .	4,044	2,762	(1)	345	937	(1)	(1)	Mathematical sciences . . . . .	202	74	(1)	15	113	(1)	(1)
Agricultural sciences . . . . .	177	177	(1)	(1)	(1)	(1)	(1)	Computer science and systems analysis . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Medical sciences	3,491	1,177	939	801	574	(1)	(1)	Earth, space, and marine sciences . . . . .	17	17	(1)	(1)	(1)	(1)	(1)
Psychology . . . . .	423	257	(1)	68	98	(1)	(1)	Engineering . . . . .	204	62	(1)	92	50	(1)	(1)
Economics . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)	Biological sciences . . . . .	27	15	(1)	(1)	12	(1)	(1)
Sociology and anthropology . . . . .	97	43	(1)	13	41	(1)	(1)	Agricultural sciences . . . . .	197	30	(1)	100	67	(1)	(1)
Other social sciences . . . . .	77	(1)	(1)	45	32	(1)	(1)	Medical sciences	74	37	(1)	25	12	(1)	(1)
Business and commerce . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)	Psychology . . . . .	955	330	(1)	238	387	(1)	(1)
All other subjects	1,010	142	(1)	546	322	(1)	(1)	Economics . . . . .	17,447	8,345	(1)	4,266	4,836	(1)	(1)
Subject not reported . . . . .	468	60	299	(1)	109	(1)	(1)	Sociology and anthropology . . . . .	10,761	6,292	14	2,469	1,986	(1)	(1)
Psychologists . . . . .	34,889	20,404	53	11,034	3,398	(1)	(1)	Other social sciences . . . . .	10,374	4,927	(1)	2,649	2,798	(1)	(1)
Chemistry . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)	Business and commerce . . . . .	731	71	(1)	324	336	(1)	(1)
Physics and astronomy . . . . .	14	(1)	(1)	(1)	14	(1)	(1)	All other subjects	6,598	1,107	226	4,016	1,249	(1)	(1)
Mathematical sciences . . . . .	31	(1)	(1)	15	16	(1)	(1)	Subject not reported . . . . .	286	170	(1)	33	83	(1)	(1)
Computer science and systems analysis . . . . .	21	(1)	(1)	21	(1)	(1)	(1)	Economists . . . . .	19,754	8,792	181	5,119	5,662	(1)	(1)
Earth, space, and marine sciences . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)	Chemistry . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Engineering . . . . .	14	(1)	(1)	(1)	14	(1)	(1)	Physics and astronomy . . . . .	14	(1)	(1)	14	(1)	(1)	(1)
Biological sciences . . . . .	174	122	(1)	38	14	(1)	(1)	Mathematical sciences . . . . .	89	74	(1)	15	(1)	(1)	(1)
Agricultural sciences . . . . .	12	12	(1)	(1)	(1)	(1)	(1)	Computer science and systems analysis . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Medical sciences	51	38	(1)	13	(1)	(1)	(1)	Earth, space, and marine sciences . . . . .	17	17	(1)	(1)	(1)	(1)	(1)
Psychology . . . . .	32,141	19,112	13	9,925	3,091	(1)	(1)	Engineering . . . . .	95	15	(1)	65	15	(1)	(1)
Economics . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)	Biological sciences . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Sociology and anthropology . . . . .	38	25	(1)	13	(1)	(1)	(1)								

See footnote at end of table.



Table B-10 - Con.

Field and major subject of study for highest degree	Total with a degree	Doctorate	Professional/medical	Master's	Bachelor's	Associate	Other
Agricultural sciences . . . . .	171	30	(1)	100	41	(1)	(1)
Medical sciences . . . . .	24	24	(1)	(1)	(1)	(1)	(1)
Psychology . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Economics . . . . .	16,886	8,128	(1)	4,095	4,663	(1)	(1)
Sociology and anthropology . . . . .	102	24	(1)	16	62	(1)	(1)
Other social sciences . . . . .	903	344	(1)	288	271	(1)	(1)
Business and commerce . . . . .	682	71	(1)	292	319	(1)	(1)
All other subjects	622	16	181	217	208	(1)	(1)
Subject not reported . . . . .	149	49	(1)	17	83	(1)	(1)
Sociologist/anthropologists . . . . .	11,158	6,470	14	2,937	1,737	(1)	(1)
Chemistry . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Physics and astronomy . . . . .	15	(1)	(1)	(1)	15	(1)	(1)
Mathematical sciences . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Computer science and systems analysis . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Earth, space, and marine sciences . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Engineering . . . . .	12	(1)	(1)	(1)	12	(1)	(1)
Biological sciences . . . . .	15	15	(1)	(1)	(1)	(1)	(1)
Agricultural sciences . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Medical sciences . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Psychology . . . . .	12	12	(1)	(1)	(1)	(1)	(1)
Economics . . . . .	11	11	(1)	(1)	(1)	(1)	(1)
Sociology and anthropology . . . . .	10,023	6,025	14	2,412	1,572	(1)	(1)
Other social sciences . . . . .	250	164	(1)	86	(1)	(1)	(1)
Business and commerce . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)
All other subjects	750	173	(1)	439	138	(1)	(1)
Subject not reported . . . . .	70	70	(1)	(1)	(1)	(1)	(1)
Other social scientists . . . . .	17,028	6,215	45	6,185	4,583	(1)	(1)
Chemistry . . . . .	25	(1)	(1)	(1)	25	(1)	(1)
Physics and astronomy . . . . .	13	(1)	(1)	(1)	13	(1)	(1)

Field and major subject of study for highest degree	Total with a degree	Doctorate	Professional/medical	Master's	Bachelor's	Associate	Other
Mathematical sciences . . . . .	113	(1)	(1)	(1)	113	(1)	(1)
Computer science and systems analysis . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Earth, space, and marine sciences . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Engineering . . . . .	97	47	(1)	27	23	(1)	(1)
Biological sciences . . . . .	12	(1)	(1)	(1)	12	(1)	(1)
Agricultural sciences . . . . .	26	(1)	(1)	(1)	26	(1)	(1)
Medical sciences . . . . .	53	13	(1)	25	12	(1)	(1)
Psychology . . . . .	943	318	(1)	238	387	(1)	(1)
Economics . . . . .	550	206	(1)	171	173	(1)	(1)
Sociology and anthropology . . . . .	636	243	(1)	41	352	(1)	(1)
Other social sciences . . . . .	9,221	4,419	(1)	2,275	2,527	(1)	(1)
Business and commerce . . . . .	49	(1)	(1)	32	17	(1)	(1)
All other subjects	5,226	918	45	3,360	903	(1)	(1)
Subject not reported . . . . .	67	51	(1)	16	(1)	(1)	(1)

<sup>1</sup>No cases reported.  
SOURCE: National Science Foundation, National Sample, 1974.

Table 2-11.—Number of women scientists and engineers by field, race, and age: 1974

Field and race	Total	Under 25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70 & over
<b>Total, all fields</b>	<b>53,957</b>	<b>73</b>	<b>13,582</b>	<b>11,457</b>	<b>6,924</b>	<b>5,755</b>	<b>4,635</b>	<b>4,478</b>	<b>2,803</b>	<b>2,426</b>	<b>1,304</b>	<b>520</b>
White/												
Caucasian ...	50,037	73	12,830	10,418	6,242	4,998	4,423	4,235	2,748	2,273	1,292	505
Black/Negro .	1,714	( <sup>1</sup> )	338	370	243	352	129	95	41	119	12	15
American												
Indian .....	45	( <sup>1</sup> )	( <sup>1</sup> )	13	( <sup>1</sup> )	18	( <sup>1</sup> )	14	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Chinese,												
Japanese,												
Korean .....	1,422	( <sup>1</sup> )	178	433	312	276	69	120	( <sup>1</sup> )	34	( <sup>1</sup> )	( <sup>1</sup> )
Other races	739	( <sup>1</sup> )	236	223	127	111	14	14	14	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Physical</b>												
<b>scientists .....</b>	<b>9,075</b>	<b>11</b>	<b>2,195</b>	<b>1,979</b>	<b>1,454</b>	<b>953</b>	<b>881</b>	<b>793</b>	<b>304</b>	<b>337</b>	<b>136</b>	<b>32</b>
White/												
Caucasian ...	7,820	11	1,910	1,546	1,153	828	831	766	304	303	136	32
Black/Negro .	282	( <sup>1</sup> )	51	164	51	( <sup>1</sup> )	16	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
American												
Indian .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Chinese,												
Japanese,												
Korean .....	548	( <sup>1</sup> )	70	112	215	56	34	27	( <sup>1</sup> )	34	( <sup>1</sup> )	( <sup>1</sup> )
Other races ..	425	( <sup>1</sup> )	164	157	35	69	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Chemists .....</b>	<b>8,103</b>	<b>(<sup>1</sup>)</b>	<b>2,088</b>	<b>1,825</b>	<b>1,198</b>	<b>816</b>	<b>789</b>	<b>705</b>	<b>255</b>	<b>275</b>	<b>136</b>	<b>16</b>
White/												
Caucasian ...	6,952	( <sup>1</sup> )	1,854	1,392	913	712	755	678	255	241	136	16
Black/Negro .	199	( <sup>1</sup> )	( <sup>1</sup> )	164	35	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
American												
Indian .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Chinese,												
Japanese,												
Korean .....	527	( <sup>1</sup> )	70	112	215	35	34	27	( <sup>1</sup> )	34	( <sup>1</sup> )	( <sup>1</sup> )
Other races ..	425	( <sup>1</sup> )	164	157	35	69	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Physicists/</b>												
<b>astronomers ..</b>	<b>735</b>	<b>(<sup>1</sup>)</b>	<b>45</b>	<b>87</b>	<b>189</b>	<b>137</b>	<b>62</b>	<b>88</b>	<b>49</b>	<b>62</b>	<b>(<sup>1</sup>)</b>	<b>16</b>
White/												
Caucasian ...	682	( <sup>1</sup> )	29	87	189	116	46	88	49	62	( <sup>1</sup> )	16
Black/Negro .	32	( <sup>1</sup> )	16	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	16	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
American												
Indian .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Chinese,												
Japanese,												
Korean .....	21	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	21	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other races ..	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Other physical</b>												
<b>scientists .....</b>	<b>237</b>	<b>11</b>	<b>62</b>	<b>67</b>	<b>67</b>	<b>(<sup>1</sup>)</b>	<b>30</b>	<b>(<sup>1</sup>)</b>	<b>(<sup>1</sup>)</b>	<b>(<sup>1</sup>)</b>	<b>(<sup>1</sup>)</b>	<b>(<sup>1</sup>)</b>
White/												
Caucasian ...	186	11	27	67	51	( <sup>1</sup> )	30	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Black/Negro .	51	( <sup>1</sup> )	35	( <sup>1</sup> )	16	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
American												
Indian .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Chinese,												
Japanese,												
Korean .....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other races ..	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
<b>Mathematical</b>												
<b>scientists .....</b>	<b>4,038</b>	<b>16</b>	<b>1,083</b>	<b>963</b>	<b>393</b>	<b>273</b>	<b>402</b>	<b>269</b>	<b>282</b>	<b>217</b>	<b>109</b>	<b>26</b>
White/												
Caucasian ...	3,576	16	979	823	343	238	354	229	263	198	109	26
Black/Negro .	370	( <sup>1</sup> )	104	103	37	19	48	21	19	19	( <sup>1</sup> )	( <sup>1</sup> )
American												
Indian .....	18	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	18	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Chinese,												
Japanese,												
Korean .....	56	( <sup>1</sup> )	( <sup>1</sup> )	19	18	( <sup>1</sup> )	( <sup>1</sup> )	19	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other races ..	18	( <sup>1</sup> )	( <sup>1</sup> )	18	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )

2 Table B-11—Con

Field and race	Total	Under 25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70 & over
Mathe- maticians . . . . .	2,664	( <sup>1</sup> )	794	596	350	176	354	107	115	107	65	( <sup>1</sup> )
White/ Caucasian . . . . .	2,374	( <sup>1</sup> )	728	512	314	139	306	107	115	88	65	( <sup>1</sup> )
Black/Negro . . . . .	254	( <sup>1</sup> )	66	84	18	19	48	( <sup>1</sup> )	( <sup>1</sup> )	19	( <sup>1</sup> )	( <sup>1</sup> )
American Indian . . . . .	18	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	18	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Chinese, Japanese, Korean . . . . .	18	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	18	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other races . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Statisticians . . . . .	1,374	16	289	367	48	97	48	162	167	110	44	26
White/ Caucasian . . . . .	1,202	16	251	311	29	97	48	122	148	110	44	26
Black/Negro . . . . .	116	( <sup>1</sup> )	38	19	19	( <sup>1</sup> )	( <sup>1</sup> )	21	19	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
American Indian . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Chinese, Japanese, Korean . . . . .	38	( <sup>1</sup> )	( <sup>1</sup> )	19	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	19	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other races . . . . .	18	( <sup>1</sup> )	( <sup>1</sup> )	18	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Computer specialists . . . . .	6,747	( <sup>1</sup> )	2,705	2,316	694	360	323	218	( <sup>1</sup> )	70	21	40
White/ Caucasian . . . . .	6,429	( <sup>1</sup> )	2,648	2,190	672	269	301	218	( <sup>1</sup> )	70	21	40
Black/Negro . . . . .	198	( <sup>1</sup> )	57	28	22	69	22	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
American Indian . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Chinese, Japanese, Korean . . . . .	120	( <sup>1</sup> )	( <sup>1</sup> )	96	( <sup>1</sup> )	22	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other races . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Environmental scientists . . . . .	894	( <sup>1</sup> )	208	89	30	165	32	264	33	73	( <sup>1</sup> )	( <sup>1</sup> )
White/ Caucasian . . . . .	774	( <sup>1</sup> )	208	76	30	75	32	247	33	73	( <sup>1</sup> )	( <sup>1</sup> )
Black/Negro . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
American Indian . . . . .	13	( <sup>1</sup> )	( <sup>1</sup> )	13	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Chinese, Japanese, Korean . . . . .	107	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	90	( <sup>1</sup> )	17	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other races . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Earth scientists	817	( <sup>1</sup> )	196	89	30	165	32	199	33	73	( <sup>1</sup> )	( <sup>1</sup> )
White/ Caucasian . . . . .	697	( <sup>1</sup> )	196	76	30	75	32	182	33	73	( <sup>1</sup> )	( <sup>1</sup> )
Black/Negro . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
American Indian . . . . .	13	( <sup>1</sup> )	( <sup>1</sup> )	13	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Chinese, Japanese, Korean . . . . .	107	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	90	( <sup>1</sup> )	17	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other races . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Ocean- ographers . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
White/ Caucasian . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Black/Negro . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
American Indian . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Chinese, Japanese, Korean . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other races . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )

Field and race	Total	Under 25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70 & over
Atmospheric scientists .....	77	(1)	12	(1)	(1)	(1)	(1)	65	(1)	(1)	(1)	(1)
White/	77	(1)	12	(1)	(1)	(1)	(1)	65	(1)	(1)	(1)	(1)
Caucasian ...	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Black/Negro .	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
American	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Indian .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Chinese,	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Japanese,	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Korean .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other races ..	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Engineers .....	3,359	(1)	1,099	685	278	307	268	239	128	195	160	(1)
White/	3,027	(1)	948	617	260	239	268	212	128	195	160	(1)
Caucasian ...	57	(1)	57	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Black/Negro .	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
American	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Indian .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Chinese,	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Japanese,	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Korean .....	169	(1)	22	34	18	68	(1)	27	(1)	(1)	(1)	(1)
Other races ..	106	(1)	72	34	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Life scientists ..	9,979	30	1,842	2,146	1,538	1,418	649	871	659	560	210	56
White/	9,126	30	1,728	1,971	1,374	1,231	594	801	645	486	210	56
Caucasian ...	(1)	(1)	28	30	56	105	28	28	(1)	74	(1)	(1)
Black/Negro .	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
American	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Indian .....	14	(1)	(1)	(1)	(1)	(1)	(1)	14	(1)	(1)	(1)	(1)
Chinese,	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Japanese,	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Korean .....	333	(1)	86	145	35	40	13	14	(1)	(1)	(1)	(1)
Other races ..	157	(1)	(1)	(1)	73	42	14	14	14	(1)	(1)	(1)
Biological	6,334	30	1,415	1,615	776	728	439	538	476	182	108	27
scientists .....	5,783	30	1,301	1,497	612	701	413	510	476	108	108	27
White/	201	(1)	28	30	56	(1)	13	(1)	(1)	74	(1)	(1)
Caucasian ...	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Black/Negro .	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
American	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Indian .....	14	(1)	(1)	(1)	(1)	(1)	(1)	14	(1)	(1)	(1)	(1)
Chinese,	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Japanese,	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Korean .....	249	(1)	86	88	35	13	13	14	(1)	(1)	(1)	(1)
Other races ..	87	(1)	(1)	(1)	73	14	(1)	(1)	(1)	(1)	(1)	(1)
Agricultural	340	(1)	59	15	176	(1)	(1)	17	(1)	(1)	60	13
scientists .....	340	(1)	59	15	176	(1)	(1)	17	(1)	(1)	60	13
White/	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Caucasian ...	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Black/Negro .	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
American	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Indian .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Chinese,	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Japanese,	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Korean .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other races ..	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Medical	3,305	(1)	368	516	586	690	210	316	183	378	42	16
scientists .....	3,003	(1)	368	459	586	530	181	274	169	378	42	16
White/	148	(1)	(1)	(1)	(1)	105	15	28	(1)	(1)	(1)	(1)
Caucasian ...	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Black/Negro .	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
American	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Indian .....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Chinese,	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Japanese,	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Korean .....	84	(1)	(1)	57	(1)	27	(1)	(1)	(1)	(1)	(1)	(1)
Other races ..	70	(1)	(1)	(1)	(1)	28	14	14	14	(1)	(1)	(1)

trials at end of table.



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Field and sex	Total	Under 25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70 & over
Psychologists . . .	9,784	16	1,570	1,670	1,331	1,300	1,137	879	706	549	403	223
White/												
Caucasian . . .	9,408	16	1,540	1,612	1,267	1,154	1,122	846	706	534	403	208
Black/Negro . .	314	( <sup>1</sup> )	30	30	30	146	15	33	( <sup>1</sup> )	15	( <sup>1</sup> )	15
American												
Indian . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Chinese,												
Japanese,												
Korean . . . . .	29	( <sup>1</sup> )	( <sup>1</sup> )	14	15	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other races . .	33	( <sup>1</sup> )	( <sup>1</sup> )	14	19	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Social scientists	10,081	( <sup>1</sup> )	2,880	1,603	1,201	979	943	945	691	425	265	143
White/												
Caucasian . . .	9,877	( <sup>1</sup> )	2,869	1,583	1,143	966	921	916	669	414	253	143
Black/Negro . .	144	( <sup>1</sup> )	11	15	47	13	( <sup>1</sup> )	13	22	11	12	( <sup>1</sup> )
American												
Indian . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Chinese,												
Japanese,												
Korean . . . . .	60	( <sup>1</sup> )	( <sup>1</sup> )	11	11	( <sup>1</sup> )	22	16	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other races . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Economists . . .	1,900	( <sup>1</sup> )	345	517	144	210	118	222	130	66	142	( <sup>1</sup> )
White/												
Caucasian . . .	1,834	( <sup>1</sup> )	345	517	122	210	96	222	114	66	142	( <sup>1</sup> )
Black/Negro . .	44	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	22	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	22	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
American												
Indian . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Chinese,												
Japanese,												
Korean . . . . .	22	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	22	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other races . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Sociologists/ anthropologists	3,119	( <sup>1</sup> )	858	544	470	325	345	243	162	160	12	( <sup>1</sup> )
White/												
Caucasian . . .	3,074	( <sup>1</sup> )	847	544	459	325	345	243	162	149	( <sup>1</sup> )	( <sup>1</sup> )
Black/Negro . .	34	( <sup>1</sup> )	11	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	11	12	( <sup>1</sup> )
American												
Indian . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Chinese,												
Japanese,												
Korean . . . . .	11	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	11	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other races . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other social scientists . . . .	5,062	( <sup>1</sup> )	1,677	548	587	444	480	480	393	199	111	143
White/												
Caucasian . . .	4,969	( <sup>1</sup> )	1,677	522	562	431	480	451	393	199	111	143
Black/Negro . .	66	( <sup>1</sup> )	( <sup>1</sup> )	15	25	13	( <sup>1</sup> )	13	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
American												
Indian . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Chinese,												
Japanese,												
Korean . . . . .	27	( <sup>1</sup> )	( <sup>1</sup> )	11	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	16	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other races . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup>No cases reported.

SOURCE: National Science Foundation, National Sample, 1974.

Table B-12.—Number of women scientists and engineers by field, highest degree, and age: 1974

Field and highest degree	Total	Under 25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70 & over
Total, all fields	53,957	73	13,582	11,457	6,924	5,755	4,635	4,478	2,803	2,426	1,304	520
Doctorate	13,389	(1)	885	2,729	2,369	2,348	1,532	1,290	823	708	512	193
Professional/medical	285	(1)	(1)	14	51	39	63	14	29	62	13	(1)
Master's	19,213	(1)	4,686	4,017	2,612	1,790	1,542	1,483	1,313	960	528	282
Bachelor's	21,055	73	8,011	4,697	1,892	1,563	1,498	1,691	638	696	251	45
Associate	15	(1)	(1)	(1)	(1)	15	(1)	(1)	(1)	(1)	(1)	(1)
Other	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Physical scientists</b>	<b>9,075</b>	<b>11</b>	<b>2,195</b>	<b>1,979</b>	<b>1,454</b>	<b>953</b>	<b>881</b>	<b>793</b>	<b>304</b>	<b>337</b>	<b>136</b>	<b>32</b>
Doctorate	2,543	(1)	196	664	538	377	255	247	43	114	109	(1)
Professional/medical	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Master's	2,116	(1)	368	419	535	175	184	160	124	135	(1)	16
Bachelor's	4,416	11	1,631	896	381	401	442	386	137	88	27	16
Associate	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Physicists/ astronomers</b>	<b>735</b>	<b>(1)</b>	<b>45</b>	<b>87</b>	<b>189</b>	<b>137</b>	<b>62</b>	<b>88</b>	<b>49</b>	<b>62</b>	<b>(1)</b>	<b>16</b>
Doctorate	474	(1)	14	28	175	91	46	58	16	46	(1)	(1)
Professional/medical	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Master's	197	(1)	16	59	14	30	16	14	16	16	(1)	16
Bachelor's	64	(1)	15	(1)	(1)	16	(1)	16	17	(1)	(1)	(1)
Associate	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Chemists</b>	<b>8,103</b>	<b>(1)</b>	<b>2,088</b>	<b>1,825</b>	<b>1,198</b>	<b>816</b>	<b>789</b>	<b>705</b>	<b>255</b>	<b>275</b>	<b>136</b>	<b>16</b>
Doctorate	2,054	(1)	167	636	363	286	209	189	27	68	109	(1)
Professional/medical	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Master's	1,808	(1)	352	333	454	145	151	146	108	119	(1)	(1)
Bachelor's	4,241	(1)	1,569	856	381	385	429	370	120	88	27	16
Associate	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Other physical scientists</b>	<b>237</b>	<b>11</b>	<b>62</b>	<b>67</b>	<b>67</b>	<b>(1)</b>	<b>30</b>	<b>(1)</b>	<b>(1)</b>	<b>(1)</b>	<b>(1)</b>	<b>(1)</b>
Doctorate	15	(1)	15	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Professional/medical	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Master's	111	(1)	(1)	27	67	(1)	17	(1)	(1)	(1)	(1)	(1)
Bachelor's	111	11	47	40	(1)	(1)	13	(1)	(1)	(1)	(1)	(1)
Associate	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Mathematical scientists</b>	<b>4,038</b>	<b>16</b>	<b>1,083</b>	<b>963</b>	<b>398</b>	<b>273</b>	<b>402</b>	<b>269</b>	<b>282</b>	<b>217</b>	<b>109</b>	<b>26</b>
Doctorate	532	(1)	71	146	52	97	13	65	24	39	12	13
Professional/medical	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Master's	1,654	(1)	373	439	220	104	212	67	80	107	39	13
Bachelor's	1,852	16	639	378	126	72	177	137	178	71	58	(1)
Associate	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)

See footnote at end of table.

Table B-12—Con.

Field and highest degree	Total	Under 25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70 & over
Mathematicians .....	2,664	( )	794	596	350	176	354	107	115	107	65	( )
Doctorate .....	372	( )	71	52	52	84	13	25	24	39	12	( )
Professional/medical .....	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
Master's .....	1,252	( )	293	296	220	74	198	53	38	68	12	( )
Bachelor's .....	1,040	( )	430	248	78	18	143	29	53	( )	41	( )
Associate .....	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
Other .....	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
No degree .....	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
Statisticians .....	1,374	16	289	367	48	97	48	162	167	110	44	26
Doctorate .....	160	( )	( )	94	( )	13	( )	40	( )	( )	( )	13
Professional/medical .....	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
Master's .....	402	( )	80	143	( )	30	14	14	42	39	27	13
Bachelor's .....	812	16	209	130	48	54	34	108	125	71	17	( )
Associate .....	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
Other .....	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
No degree .....	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
Computer specialists .....	6,747	( )	2,705	2,310	694	360	323	218	( )	70	21	40
Doctorate .....	166	( )	( )	110	15	26	15	( )	( )	( )	( )	( )
Professional/medical .....	20	( )	( )	( )	( )	( )	20	( )	( )	( )	( )	( )
Master's .....	1,437	( )	556	435	193	39	123	13	( )	38	( )	40
Bachelor's .....	5,124	( )	2,149	1,771	486	295	165	205	( )	32	21	( )
Associate .....	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
Other .....	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
No degree .....	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
Environmental scientists .....	894	( )	208	89	30	165	32	264	33	73	( )	( )
Doctorate .....	230	( )	( )	27	15	47	( )	111	17	13	( )	( )
Professional/medical .....	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
Master's .....	560	( )	165	62	( )	103	17	137	16	60	( )	( )
Bachelor's .....	104	( )	43	( )	15	15	15	16	( )	( )	( )	( )
Associate .....	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
Other .....	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
No degree .....	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
Earth scientists .....	817	( )	196	89	30	165	32	199	33	73	( )	( )
Doctorate .....	165	( )	( )	27	15	47	( )	46	17	13	( )	( )
Professional/medical .....	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
Master's .....	548	( )	153	62	( )	103	17	137	16	60	( )	( )
Bachelor's .....	104	( )	43	( )	15	15	15	16	( )	( )	( )	( )
Associate .....	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
Other .....	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
No degree .....	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
Oceanographers .....	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
Doctorate .....	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
Professional/medical .....	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
Master's .....	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
Bachelor's .....	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
Associate .....	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
Other .....	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
No degree .....	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )

Table B-12—Con.

Field and highest degree	Total	Under 25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70 & over
<b>Atmospheric scientists</b> . . . . .	77	(1)	12	(1)	(1)	(1)	(1)	65	(1)	(1)	(1)	(1)
Doctorate . . . . .	65	(1)	(1)	(1)	(1)	(1)	(1)	65	(1)	(1)	(1)	(1)
Professional/medical . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Master's . . . . .	12	(1)	12	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Bachelor's . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Associate . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Engineers</b> . . . . .	3,359	(1)	1,099	685	278	307	268	239	128	195	160	(1)
Doctorate . . . . .	26	(1)	(1)	(1)	14	(1)	12	(1)	(1)	(1)	(1)	(1)
Professional/medical . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Master's . . . . .	1,234	(1)	408	237	167	88	16	77	128	64	49	(1)
Bachelor's . . . . .	2,084	(1)	691	448	97	204	240	162	(1)	131	111	(1)
Associate . . . . .	15	(1)	(1)	(1)	(1)	15	(1)	(1)	(1)	(1)	(1)	(1)
Other . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Life scientists</b> . . . . .	9,979	30	1,842	2,146	1,538	1,418	649	871	659	560	210	56
Doctorate . . . . .	3,034	(1)	177	683	493	539	274	266	378	100	97	27
Professional/medical . . . . .	192	(1)	(1)	14	51	39	29	14	13	32	(1)	(1)
Master's . . . . .	3,594	(1)	751	792	554	493	240	218	114	303	113	16
Bachelor's . . . . .	3,159	30	914	657	440	347	106	373	154	125	(1)	13
Associate . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Biological scientists</b> . . . . .	6,334	30	1,415	1,615	776	728	439	538	476	182	108	27
Doctorate . . . . .	2,318	(1)	177	615	396	301	181	225	288	39	69	27
Professional/medical . . . . .	14	(1)	(1)	14	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Master's . . . . .	2,401	(1)	720	674	223	206	189	131	89	130	39	(1)
Bachelor's . . . . .	1,601	30	518	312	157	221	69	182	99	13	(1)	(1)
Associate . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Agricultural scientists</b> . . . . .	340	(1)	59	15	176	(1)	(1)	17	(1)	(1)	60	13
Doctorate . . . . .	67	(1)	(1)	(1)	67	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Professional/medical . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Master's . . . . .	184	(1)	15	(1)	109	(1)	(1)	(1)	(1)	(1)	60	(1)
Bachelor's . . . . .	89	(1)	44	15	(1)	(1)	(1)	17	(1)	(1)	(1)	13
Associate . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Medical scientists</b> . . . . .	3,305	(1)	368	516	586	690	210	316	183	378	42	16
Doctorate . . . . .	649	(1)	(1)	68	30	238	93	41	90	61	28	(1)
Professional/medical . . . . .	178	(1)	(1)	(1)	51	39	29	14	13	32	(1)	(1)
Master's . . . . .	1,009	(1)	16	118	222	287	51	87	25	173	14	16
Bachelor's . . . . .	1,469	(1)	352	330	283	126	37	174	55	112	(1)	(1)
Associate . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Other . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
No degree . . . . .	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)

See footnote at end of table.

Table B-12—Con.

Field and highest degree	Total	Under 25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70 & over
Psychologists . . .	9,784	16	1,570	1,670	1,331	1,300	1,137	879	706	549	403	223
Doctorate . . . .	4,141	( <sup>1</sup> )	263	539	861	742	645	397	208	222	123	141
Professional/												
medical . . . . .	13	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	13	( <sup>1</sup> )
Master's . . . . .	4,617	( <sup>1</sup> )	881	954	444	544	402	405	498	173	250	66
Bachelor's . . . .	1,013	16	426	177	26	14	90	77	( <sup>1</sup> )	154	17	16
Associate . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
No degree . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Social scientists	10,081	( <sup>1</sup> )	2,880	1,609	1,201	979	943	945	691	425	265	143
Doctorate . . . .	2,717	( <sup>1</sup> )	178	560	381	520	318	204	153	220	171	12
Professional/												
medical . . . . .	60	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	14	( <sup>1</sup> )	16	30	( <sup>1</sup> )	( <sup>1</sup> )
Master's . . . . .	4,001	( <sup>1</sup> )	1,184	679	499	244	348	406	353	80	77	131
Bachelor's . . . .	3,303	( <sup>1</sup> )	1,518	370	321	215	263	335	169	95	17	( <sup>1</sup> )
Associate . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
No degree . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Economists . . . .	1,900	( <sup>1</sup> )	345	517	144	210	118	222	136	66	142	( <sup>1</sup> )
Doctorate . . . .	529	( <sup>1</sup> )	29	114	106	31	53	63	22	( <sup>1</sup> )	111	( <sup>1</sup> )
Professional/												
medical . . . . .	46	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	16	30	( <sup>1</sup> )	( <sup>1</sup> )
Master's . . . . .	559	( <sup>1</sup> )	123	212	16	65	( <sup>1</sup> )	63	48	18	14	( <sup>1</sup> )
Bachelor's . . . .	766	( <sup>1</sup> )	193	191	22	114	65	96	50	18	17	( <sup>1</sup> )
Associate . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
No degree . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Sociologists/												
anthropologists	3,119	( <sup>1</sup> )	858	544	470	325	345	243	162	160	12	( <sup>1</sup> )
Doctorate . . . .	1,215	( <sup>1</sup> )	( <sup>1</sup> )	267	153	288	168	88	91	160	( <sup>1</sup> )	( <sup>1</sup> )
Professional/												
medical . . . . .	14	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	14	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Master's . . . . .	1,255	( <sup>1</sup> )	461	245	172	25	114	155	71	( <sup>1</sup> )	12	( <sup>1</sup> )
Bachelor's . . . .	635	( <sup>1</sup> )	397	32	145	12	49	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Associate . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
No degree . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other social												
scientists . . . . .	5,062	( <sup>1</sup> )	1,677	548	587	444	480	480	393	199	111	143
Doctorate . . . .	973	( <sup>1</sup> )	149	179	122	201	97	53	40	60	60	12
Professional/												
medical . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Master's . . . . .	2,187	( <sup>1</sup> )	600	222	311	154	234	188	234	62	51	131
Bachelor's . . . .	1,902	( <sup>1</sup> )	928	147	154	89	149	239	119	77	( <sup>1</sup> )	( <sup>1</sup> )
Associate . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Other . . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
No degree . . . .	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )

<sup>1</sup>No cases reported.

SOURCE: National Science Foundation, National Sample, 1974.

Table B-13.—Number of women scientists and engineers by field, highest degree, and race: 1974

Field and highest degree	Total	White/Caucasian	Black/Negro	American Indian	Chinese, Japanese, Korean	Other
<b>Total, all fields</b> .....	53,957	50,037	1,714	45	1,422	739
<b>Doctorate</b> .....	13,389	12,354	360	13	458	204
<b>Professional/medical</b> .....	285	243	(1)	(1)	14	28
<b>Master's</b> .....	13,213	17,832	638	(1)	605	138
<b>Bachelor's</b> .....	21,055	19,593	716	32	345	369
<b>Associate</b> .....	15	15	(1)	(1)	(1)	(1)
<b>Other</b> .....	(1)	(1)	(1)	(1)	(1)	(1)
<b>No degree</b> .....	(1)	(1)	(1)	(1)	(1)	(1)
<b>Physical scientists</b> .....	9,075	7,820	282	(1)	548	425
<b>Doctorate</b> .....	2,543	2,143	25	(1)	305	70
<b>Professional/medical</b> .....	(1)	(1)	(1)	(1)	(1)	(1)
<b>Master's</b> .....	2,116	1,887	83	(1)	112	34
<b>Bachelor's</b> .....	4,416	3,790	174	(1)	131	321
<b>Associate</b> .....	(1)	(1)	(1)	(1)	(1)	(1)
<b>Other</b> .....	(1)	(1)	(1)	(1)	(1)	(1)
<b>No degree</b> .....	(1)	(1)	(1)	(1)	(1)	(1)
<b>Chemists</b> .....	8,103	6,952	199	(1)	527	425
<b>Doctorate</b> .....	2,054	1,675	25	(1)	284	70
<b>Professional/medical</b> .....	(1)	(1)	(1)	(1)	(1)	(1)
<b>Master's</b> .....	1,808	1,627	35	(1)	112	34
<b>Bachelor's</b> .....	4,241	3,650	139	(1)	131	321
<b>Associate</b> .....	(1)	(1)	(1)	(1)	(1)	(1)
<b>Other</b> .....	(1)	(1)	(1)	(1)	(1)	(1)
<b>No degree</b> .....	(1)	(1)	(1)	(1)	(1)	(1)
<b>Physicists/astronomers</b> .....	735	682	32	(1)	21	(1)
<b>Doctorate</b> .....	474	453	(1)	(1)	21	(1)
<b>Professional/medical</b> .....	(1)	(1)	(1)	(1)	(1)	(1)
<b>Master's</b> .....	197	165	32	(1)	(1)	(1)
<b>Bachelor's</b> .....	64	64	(1)	(1)	(1)	(1)
<b>Associate</b> .....	(1)	(1)	(1)	(1)	(1)	(1)
<b>Other</b> .....	(1)	(1)	(1)	(1)	(1)	(1)
<b>No degree</b> .....	(1)	(1)	(1)	(1)	(1)	(1)
<b>Other physical scientists</b> .....	237	186	51	(1)	(1)	(1)
<b>Doctorate</b> .....	15	15	(1)	(1)	(1)	(1)
<b>Professional/medical</b> .....	(1)	(1)	(1)	(1)	(1)	(1)
<b>Master's</b> .....	111	96	16	(1)	(1)	(1)
<b>Bachelor's</b> .....	111	76	35	(1)	(1)	(1)
<b>Associate</b> .....	(1)	(1)	(1)	(1)	(1)	(1)
<b>Other</b> .....	(1)	(1)	(1)	(1)	(1)	(1)
<b>No degree</b> .....	(1)	(1)	(1)	(1)	(1)	(1)
<b>Mathematicians</b> .....	2,664	2,374	254	18	18	18
<b>Doctorate</b> .....	372	353	19	(1)	(1)	(1)
<b>Professional/medical</b> .....	(1)	(1)	(1)	(1)	(1)	(1)
<b>Master's</b> .....	1,252	1,131	103	(1)	18	(1)
<b>Bachelor's</b> .....	1,040	890	122	18	18	(1)
<b>Associate</b> .....	(1)	(1)	(1)	(1)	(1)	(1)
<b>Other</b> .....	(1)	(1)	(1)	(1)	(1)	(1)
<b>No degree</b> .....	(1)	(1)	(1)	(1)	(1)	(1)
<b>Statisticians</b> .....	1,374	1,202	116	(1)	38	18
<b>Doctorate</b> .....	160	120	21	(1)	19	(1)
<b>Professional/medical</b> .....	(1)	(1)	(1)	(1)	(1)	(1)
<b>Master's</b> .....	402	346	19	(1)	19	(1)
<b>Bachelor's</b> .....	812	736	76	(1)	(1)	(1)
<b>Associate</b> .....	(1)	(1)	(1)	(1)	(1)	(1)
<b>Other</b> .....	(1)	(1)	(1)	(1)	(1)	(1)
<b>No degree</b> .....	(1)	(1)	(1)	(1)	(1)	(1)
<b>Computer specialists</b> .....	6,747	6,429	198	(1)	120	(1)
<b>Doctorate</b> .....	166	166	(1)	(1)	(1)	(1)
<b>Professional/medical</b> .....	20	20	(1)	(1)	(1)	(1)
<b>Master's</b> .....	1,437	1,437	(1)	(1)	(1)	(1)
<b>Bachelor's</b> .....	5,124	4,806	198	(1)	120	(1)
<b>Associate</b> .....	(1)	(1)	(1)	(1)	(1)	(1)
<b>Other</b> .....	(1)	(1)	(1)	(1)	(1)	(1)
<b>No degree</b> .....	(1)	(1)	(1)	(1)	(1)	(1)
<b>Environmental scientists</b> .....	894	774	(1)	13	107	(1)
<b>Doctorate</b> .....	230	183	(1)	13	34	(1)
<b>Professional/medical</b> .....	(1)	(1)	(1)	(1)	(1)	(1)
<b>Master's</b> .....	560	487	(1)	(1)	73	(1)
<b>Bachelor's</b> .....	104	104	(1)	(1)	(1)	(1)
<b>Associate</b> .....	(1)	(1)	(1)	(1)	(1)	(1)
<b>Other</b> .....	(1)	(1)	(1)	(1)	(1)	(1)
<b>No degree</b> .....	(1)	(1)	(1)	(1)	(1)	(1)

See footnote at end of table.



Table B-13—Con.

Field and highest degree	Total	White/ Caucasian	Black/ Negro	American Indian	Chinese, Japanese, Korean	Other	Field and highest degree	Total	White/ Caucasian	Black/ Negro	American Indian	Chinese, Japanese, Korean	Other
Earth scientists .....	817	697	(1)	13	107	(1)	Biologists .....	6,334	5,783	201	14	249	87
Doctorate .....	166	118	(1)	13	34	(1)	Doctorate .....	2,318	2,147	41	(1)	43	87
Professional/medical ..	(1)	(1)	(1)	(1)	(1)	(1)	Professional/medical ..	14	14	(1)	(1)	(1)	(1)
Master's .....	548	475	(1)	(1)	73	(1)	Master's .....	2,401	2,121	146	(1)	134	(1)
Bachelor's .....	104	104	(1)	(1)	(1)	(1)	Bachelor's .....	1,601	1,501	14	14	72	(1)
Associate .....	(1)	(1)	(1)	(1)	(1)	(1)	Associate .....	(1)	(1)	(1)	(1)	(1)	(1)
Other .....	(1)	(1)	(1)	(1)	(1)	(1)	Other .....	(1)	(1)	(1)	(1)	(1)	(1)
No degree .....	(1)	(1)	(1)	(1)	(1)	(1)	No degree .....	(1)	(1)	(1)	(1)	(1)	(1)
Oceanographers .....	(1)	(1)	(1)	(1)	(1)	(1)	Agricultural scientists ..	340	340	(1)	(1)	(1)	(1)
Doctorate .....	(1)	(1)	(1)	(1)	(1)	(1)	Doctorate .....	67	67	(1)	(1)	(1)	(1)
Professional/medical ..	(1)	(1)	(1)	(1)	(1)	(1)	Professional/medical ..	(1)	(1)	(1)	(1)	(1)	(1)
Master's .....	(1)	(1)	(1)	(1)	(1)	(1)	Master's .....	184	184	(1)	(1)	(1)	(1)
Bachelor's .....	(1)	(1)	(1)	(1)	(1)	(1)	Bachelor's .....	89	89	(1)	(1)	(1)	(1)
Associate .....	(1)	(1)	(1)	(1)	(1)	(1)	Associate .....	(1)	(1)	(1)	(1)	(1)	(1)
Other .....	(1)	(1)	(1)	(1)	(1)	(1)	Other .....	(1)	(1)	(1)	(1)	(1)	(1)
No degree .....	(1)	(1)	(1)	(1)	(1)	(1)	No degree .....	(1)	(1)	(1)	(1)	(1)	(1)
Atmospheric scientists ..	77	77	(1)	(1)	(1)	(1)	Medical scientists .....	3,305	3,003	148	(1)	84	70
Doctorate .....	65	65	(1)	(1)	(1)	(1)	Doctorate .....	649	593	15	(1)	13	28
Professional/medical ..	(1)	(1)	(1)	(1)	(1)	(1)	Professional/medical ..	178	136	(1)	(1)	14	28
Master's .....	12	12	(1)	(1)	(1)	(1)	Master's .....	1,009	847	105	(1)	57	14
Bachelor's .....	(1)	(1)	(1)	(1)	(1)	(1)	Bachelor's .....	1,469	1,427	28	(1)	(1)	14
Associate .....	(1)	(1)	(1)	(1)	(1)	(1)	Associate .....	(1)	(1)	(1)	(1)	(1)	(1)
Other .....	(1)	(1)	(1)	(1)	(1)	(1)	Other .....	(1)	(1)	(1)	(1)	(1)	(1)
No degree .....	(1)	(1)	(1)	(1)	(1)	(1)	No degree .....	(1)	(1)	(1)	(1)	(1)	(1)
Engineers .....	3,369	3,027	57	(1)	169	106	Psychologists .....	9,784	9,408	314	(1)	29	33
Doctorate .....	26	26	(1)	(1)	(1)	(1)	Doctorate .....	4,141	3,916	206	(1)	(1)	19
Professional/medical ..	(1)	(1)	(1)	(1)	(1)	(1)	Professional/medical ..	13	13	(1)	(1)	(1)	19
Master's .....	1,234	1,015	(1)	(1)	147	72	Master's .....	4,617	4,466	108	(1)	29	14
Bachelor's .....	2,084	1,971	57	(1)	22	34	Bachelor's .....	1,013	1,013	(1)	(1)	(1)	(1)
Associate .....	15	15	(1)	(1)	(1)	(1)	Associate .....	(1)	(1)	(1)	(1)	(1)	(1)
Other .....	(1)	(1)	(1)	(1)	(1)	(1)	Other .....	(1)	(1)	(1)	(1)	(1)	(1)
No degree .....	(1)	(1)	(1)	(1)	(1)	(1)	No degree .....	(1)	(1)	(1)	(1)	(1)	(1)
Life scientists .....	9,979	9,126	349	14	333	157	Social scientists .....	10,081	9,877	144	(1)	60	(1)
Doctorate .....	3,034	2,807	56	(1)	56	115	Doctorate .....	2,717	2,640	33	(1)	44	(1)
Professional/medical ..	192	150	(1)	(1)	14	28	Professional/medical ..	60	60	(1)	(1)	(1)	(1)
Master's .....	3,594	3,152	251	(1)	191	(1)	Master's .....	4,001	3,911	74	(1)	16	(1)
Bachelor's .....	3,159	3,017	42	14	72	14	Bachelor's .....	3,303	3,266	37	(1)	(1)	(1)
Associate .....	(1)	(1)	(1)	(1)	(1)	(1)	Associate .....	(1)	(1)	(1)	(1)	(1)	(1)
Other .....	(1)	(1)	(1)	(1)	(1)	(1)	Other .....	(1)	(1)	(1)	(1)	(1)	(1)
No degree .....	(1)	(1)	(1)	(1)	(1)	(1)	No degree .....	(1)	(1)	(1)	(1)	(1)	(1)

Table B-13—Con.

Field and highest degree	Total	White/ Caucasian	Black/ Negro	American Indian	Chinese, Japanese, Korean	Other
<b>Economists</b>	1,900	1,834	44	(1)	22	(1)
Doctorate.....	529	485	22	(1)	22	(1)
Professional/medical ..	46	46	(1)	(1)	(1)	(1)
Master's.....	559	559	(1)	(1)	(1)	(1)
Bachelor's.....	766	744	22	(1)	(1)	(1)
Associate.....	(1)	(1)	(1)	(1)	(1)	(1)
Other.....	(1)	(1)	(1)	(1)	(1)	(1)
No degree.....	(1)	(1)	(1)	(1)	(1)	(1)
<b>Sociologists/ anthropologists</b>	3,119	3,074	34	(1)	11	(1)
Doctorate.....	1,215	1,193	11	(1)	11	(1)
Professional/medical ..	14	14	(1)	(1)	(1)	(1)
Master's.....	1,255	1,232	23	(1)	(1)	(1)
Bachelor's.....	635	635	(1)	(1)	(1)	(1)
Associate.....	(1)	(1)	(1)	(1)	(1)	(1)
Other.....	(1)	(1)	(1)	(1)	(1)	(1)
No degree.....	(1)	(1)	(1)	(1)	(1)	(1)
<b>Other social scientists</b>	5,062	4,989	66	(1)	27	(1)
Doctorate.....	973	962	(1)	(1)	11	(1)
Professional/medical ..	(1)	(1)	(1)	(1)	(1)	(1)
Master's.....	2,187	2,120	51	(1)	16	(1)
Bachelor's.....	1,902	1,887	15	(1)	(1)	(1)
Associate.....	(1)	(1)	(1)	(1)	(1)	(1)
Other.....	(1)	(1)	(1)	(1)	(1)	(1)
No degree.....	(1)	(1)	(1)	(1)	(1)	(1)

No cases reported.  
SOURCE: National Science Foundation, National Sample, 1974.





## A Listing of Detailed Statistical Tables in Parts II and III (To be published later)

### PART II. EMPLOYMENT CHARACTERISTICS

#### SCIENTISTS AND ENGINEERS BY FIELD

- By highest degree and type of employment status: 1974
- By highest degree and type of employer: 1974
- By highest degree and type of primary work activity: 1974
- By age and type of employer: 1974
- By primary work activity and type of employer: 1974
- By highest degree and critical national interest: 1974
- By sex and employment status: 1974
- By age and employment status: 1974
- Receiving Federal support, by type of employer and agency of support: 1974
- Receiving Federal support, by highest degree and agency of support: 1974
- Receiving Federal support, by primary work activity and agency of support: 1974
- Doctorates by primary work activity and type of employer: 1974
- Master's-degree holders by primary work activity and type of employer: 1974
- Bachelor's-degree holders by primary work activity and type of employer: 1974

#### WOMEN SCIENTISTS AND ENGINEERS BY FIELD

- By type of employer: 1974
- By primary work activity: 1974
- Median annual salary by race and age: 1974
- Median annual salary by highest degree: 1974

#### MEDIAN ANNUAL SALARIES OF SCIENTISTS AND ENGINEERS BY FIELD

- By highest degree and type of employer: 1974
- By highest degree and primary work activity: 1974
- By primary work activity and type of employer: 1974
- By type of age: 1974
- By type of age: 1974
- By sex and race: 1974
- By highest degree and employed in science and engineering or other than science and engineering: 1974
- By type of employer and employed in science and engineering or other than science and engineering: 1974
- Doctorates by primary work activity and type of employer: 1974
- Master's-degree holders by primary work activity and type of employer: 1974
- Bachelor's-degree holders by primary work activity and type of employer: 1974

### PART III. GEOGRAPHIC CHARACTERISTICS

#### SCIENTISTS AND ENGINEERS BY STANDARD METROPOLITAN STATISTICAL AREA

- By field: 1974
- By highest degree: 1974
- By type of employer: 1974
- By primary work activity: 1974

#### MEDIAN ANNUAL SALARIES BY STANDARD METROPOLITAN STATISTICAL AREA

- By field: 1974
- By highest degree: 1974
- By type of employer: 1974
- By primary work activity: 1974

Scientists and engineers receiving Federal support by State and agency of support: 1974

**APPENDIX D**

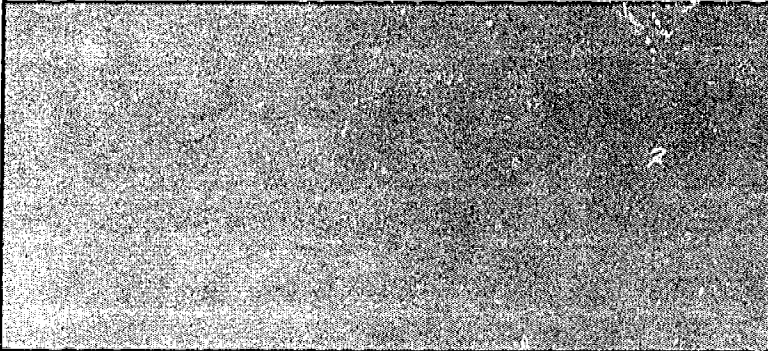
**Reproduction of 1974  
Questionnaire and Reference Lists**

FORM FMS-14A  
(10-23-73)

U.S. DEPARTMENT OF COMMERCE  
SOCIAL AND ECONOMIC STATISTICS ADMIN.  
BUREAU OF THE CENSUS

NOTICE - Your report to the Census Bureau is confidential by law (Title 13, U.S. Code). It may be seen only by sworn Census employees and may be used only for statistical purposes.

1974 NATIONAL SURVEY OF SCIENTISTS AND ENGINEERS



*Please read* instructions carefully before answering questions.

Answer as accurately as you can by printing your reply clearly or by entering an "X" in the box next to the appropriate reply.

If the instructions for a question direct you to enter a code and description from a list, please refer to the reference list attached to this questionnaire.

A. Is the information shown in the mailing label above correct?  
 YES  
 NO - Please enter the correct information

Name			
Number and street			
City or town	State (if USA) (010)		ZIP code
Foreign country			

B. Is this mailing address the same address as your place of residence?  
 SAME  
 DIFFERENT - Please enter your city and State or foreign country of residence.

City or town	State (if USA) (011)		ZIP code
Foreign country			

Dear Friend:

Let us express our appreciation for your cooperation in the 1972 Professional, Technical, and Scientific Manpower Survey which we conducted under the sponsorship of the National Science Foundation. Reports including statistical summaries based on this survey are now being used in analysis and planning by Federal and State manpower agencies, private businesses, nonprofit research organizations, industrial and trade associations, and university scholars.

As you are very likely aware, there have been significant changes in the past few years in the patterns of both public and private expenditures related to science and technology. It is important to know how these changes affect highly trained persons. The sample of persons canvassed in the 1972 survey is unique in its coverage of scientific and technical manpower and, for this reason, the National Science Foundation has asked the Bureau to again survey this panel to obtain current employment information and related data. For the survey to be successful and yield truly representative information, it is important that each person fill out and return his questionnaire.

Please complete the questions which follow on pages 2 through 4 and return your questionnaire in the enclosed preaddressed envelope. For most persons only a portion of the questions are applicable and need to be completed. For some questions you are instructed to enter a code and description from Reference List A, B, or C. These lists are attached to the questionnaire.

Please be assured that the information you provide is confidential by law and may be seen only by sworn Census employees; it cannot be used for anything but statistical purposes and cannot be given to any other Government agency, private concern, or individual except in the form of statistical summaries from which it is impossible to identify information about any particular person.

Your participation in this voluntary survey will be appreciated.

Thank you for your cooperation.

Sincerely,

VINCENT P. BARABBA  
Director  
Bureau of the Census

Enclosure

**PART I - EDUCATION AND TRAINING**

<b>1. EDUCATIONAL ATTAINMENT</b> How many years of education or formal training <b>BEYOND HIGH SCHOOL</b> have you <b>COMPLETED</b> ? (Include college, junior college, graduate school, law school, business college, technical institute, etc., but do not include work taken through correspondence courses, on-the-job training, apprenticeship, or at employer's training facility. For any education received in foreign or ungraded schools, mark the equivalent number of years in the regular American school system.)		(012) <input type="checkbox"/> 0 years <input type="checkbox"/> 5 years <input type="checkbox"/> 1 year <input type="checkbox"/> 6 years <input type="checkbox"/> 2 years <input type="checkbox"/> 7 years <input type="checkbox"/> 3 years <input type="checkbox"/> 8 years <input type="checkbox"/> 4 years <input type="checkbox"/> or more	
<b>2. EDUCATION SINCE 1971</b> a. Since 1971, have you attended any college, university, or other post-high school institution? b. List below each institution from which you have obtained or are currently obtaining formal training beyond the high school level and give the other information requested. Begin with the most recent and work back through 1972. Use a separate column for each degree granted or worked for. Designate degrees by abbreviation (e.g., A.A., B.A., M.A., Ph.D., LL.B., M.D., etc.). Do not include work taken through correspondence courses, on-the-job training, apprenticeship, or at employer's training facility.		(013) 1 <input type="checkbox"/> Yes -- Continue with 2b 2 <input type="checkbox"/> No -- SKIP to question 3	
	<b>MOST RECENT</b> (014) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<b>SECOND-TO-LAST</b> (015) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<b>THIRD-TO-LAST</b> (016) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
(1) College, university, etc. (Enter name, city, and State or foreign country)	Name _____ City _____ State or foreign country _____	Name _____ City _____ State or foreign country _____	Name _____ City _____ State or foreign country _____
(2) Year attendance ended	(017) 2 <input type="checkbox"/> 1972 3 <input type="checkbox"/> 1973 4 <input type="checkbox"/> 1974 5 <input type="checkbox"/> Now enrolled	(018) 2 <input type="checkbox"/> 1972 3 <input type="checkbox"/> 1973 4 <input type="checkbox"/> 1974	(019) 2 <input type="checkbox"/> 1972 3 <input type="checkbox"/> 1973
(3) Type of degree worked for, if any (Enter A.A., B.S.E.E., B.A., etc. or mark "None" box)	(020) _____ x <input type="checkbox"/> None	(021) _____ x <input type="checkbox"/> None	(022) _____ x <input type="checkbox"/> None
(4) Year degree awarded or to be awarded (Enter year or mark "None" box)	(023) 19 _____ x <input type="checkbox"/> None	(024) 19 _____ x <input type="checkbox"/> None	(025) 19 _____ x <input type="checkbox"/> None
(5) Major field of study (Enter code and description from Reference List A.)	(026) Code _____ Description _____	(027) Code _____ Description _____	(028) Code _____ Description _____
<b>3. OTHER TRAINING SINCE 1971</b> Aside from formal education, which of the following types of training did you receive in 1972 or 1973? (Mark the appropriate year for each type of training you have received.)	1. On-the-job training ..... 2. Military training applicable to civilian occupations ..... 3. Extension or correspondence courses ..... 4. Courses at employers training facility ..... 5. Courses at adult education center ..... 6. Other training ..... 7. None .....	(029) 1972 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/>	(030) 1973 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/>

**PART II - WORK STATUS**

(Complete questions 4 through 9 for column (A) and then for column (B))

	Work status during the last full week in January 1974 (January 20-26) <b>(A)</b>	Work status during the last full week in January 1973 (January 21-27) <b>(B)</b>
<b>4. Were you working during that week?</b>	(031) 1 <input type="checkbox"/> Yes, working full time - SKIP to 8 2 <input type="checkbox"/> Yes, working part time - Continue with 5 3 <input type="checkbox"/> No, not working - SKIP to 8	(032) 1 <input type="checkbox"/> Yes, working full time - SKIP to 8 2 <input type="checkbox"/> Yes, working part time - Continue with 5 3 <input type="checkbox"/> No, not working - SKIP to 8
<b>5. If you worked part time, were you seeking full-time employment?</b>	(033) 1 <input type="checkbox"/> Yes, seeking full-time work 2 <input type="checkbox"/> No, preferred part-time work 3 <input type="checkbox"/> No, full-time work not available	(034) 1 <input type="checkbox"/> Yes, seeking full-time work 2 <input type="checkbox"/> No, preferred part-time work 3 <input type="checkbox"/> No, full-time work not available
<b>6. Were you working in a position related to science or engineering?</b>	(035) 1 <input type="checkbox"/> Yes - SKIP to 9 2 <input type="checkbox"/> No - Continue with 7	(036) 1 <input type="checkbox"/> Yes - SKIP to 9 2 <input type="checkbox"/> No - Continue with 7
<b>7. If you were working in a position NOT related to science or engineering, what was the MOST important reason for taking this position?</b>	(MARK ONLY ONE BOX) (037) 1 <input type="checkbox"/> Preferred nonscience or nonengineering position 2 <input type="checkbox"/> Promoted out of science or engineering position 3 <input type="checkbox"/> Pay was better in nonscience or nonengineering position 4 <input type="checkbox"/> Locational preference 5 <input type="checkbox"/> Science or engineering position not available 6 <input type="checkbox"/> Other - Specify _____	(MARK ONLY ONE BOX) (038) 1 <input type="checkbox"/> Preferred nonscience or nonengineering position 2 <input type="checkbox"/> Promoted out of science or engineering position 3 <input type="checkbox"/> Pay was better in nonscience or nonengineering position 4 <input type="checkbox"/> Locational preference 5 <input type="checkbox"/> Science or engineering position not available 6 <input type="checkbox"/> Other - Specify _____
<b>8. If you were not working, were you principally ---</b>	(MARK ONLY ONE BOX) (039) 1 <input type="checkbox"/> On vacation or otherwise temporarily absent from a job for health or personal reasons 2 <input type="checkbox"/> On temporary layoff from a job 3 <input type="checkbox"/> Looking for work 4 <input type="checkbox"/> Retired 5 <input type="checkbox"/> Student 6 <input type="checkbox"/> Tending to family responsibilities 7 <input type="checkbox"/> Other - Specify _____	(MARK ONLY ONE BOX) (040) 1 <input type="checkbox"/> On vacation or otherwise temporarily absent from a job for health or personal reasons 2 <input type="checkbox"/> On temporary layoff from a job 3 <input type="checkbox"/> Looking for work 4 <input type="checkbox"/> Retired 5 <input type="checkbox"/> Student 6 <input type="checkbox"/> Tending to family responsibilities 7 <input type="checkbox"/> Other - Specify _____
<b>9. Were you on a post doctoral appointment?</b>	(041) 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	(042) 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No

## PART III - JOB ACTIVITIES

## INSTRUCTIONS FOR COMPLETING QUESTIONS 10-18

- a. Complete column (A) for questions 10 through 18 for the job held during the last full week of January 1974 or for your most recent prior job held.
- b. Column (B) should be completed if the job you had during the last full week of January 1973 differed from the job described in column (A). If the job was the same, mark (X) the "Same job as column (A)" box at the top of column (B). **NOTE:** Consider a change in jobs to have occurred if there were significant changes in duties, level of responsibility, or occupation even if you continued to work for the same employer.
- c. If you held more than one job during the weeks mentioned above, please report only the job at which you worked the greatest number of hours.

	Job held during week of January 20-26, 1974 or most recent prior job (A)	Job held during week of January 21-27, 1973 (B)	SAME JOB AS COLUMN (A) <input checked="" type="checkbox"/> (043) <input type="checkbox"/>	
10. Where did you work? <i>Location (city and State or foreign country) of company, business, agency, or other employer.</i>	(044) <input type="text"/> City _____ (046) <input type="text"/> State or foreign country _____	(045) <input type="text"/> City _____ (047) <input type="text"/> State or foreign country _____		
11. What kind of business was this? <i>Enter code and description from Reference List B. If the organization conducted activities at different locations (e.g., research at one location and manufacturing at another), enter the activity at the location where you worked.</i>	(048) <input type="text"/> Code _____ Description _____	(049) <input type="text"/> Code _____ Description _____		
12. What was your occupation? <i>Enter code and description from Reference List C.</i>	(050) <input type="text"/> Code _____ Description _____	(051) <input type="text"/> Code _____ Description _____		
13. What work activities were related to this position? <i>(Mark all activities in which you spent time)</i>	01 <input type="checkbox"/> Management or administration of research and development 02 <input type="checkbox"/> Management or administration of other than research and development 03 <input type="checkbox"/> Teaching and training - preparing and teaching courses, guiding and counseling students or trainees 04 <input type="checkbox"/> Basic research 05 <input type="checkbox"/> Applied research 06 <input type="checkbox"/> Development - product, process, and technical development 07 <input type="checkbox"/> Report and technical writing, editing, information retrieval 08 <input type="checkbox"/> Clinical diagnosis - diagnosis, treatment, etc. for patients or clients 09 <input type="checkbox"/> Design - of equipment, processes, etc., drafting, drawing, blueprints 10 <input type="checkbox"/> Quality control, testing, evaluation, inspection of equipment, materials, devices 11 <input type="checkbox"/> Operations - production, maintenance, construction, installation 12 <input type="checkbox"/> Distribution - sales, traffic, purchasing, customer and public relations 13 <input type="checkbox"/> Statistical work - designing and conducting sample and other surveys, forecasting, statistical analysis 14 <input type="checkbox"/> Consulting - on technical aspects of professional, scientific, and management fields or products 15 <input type="checkbox"/> Computer applications - programming, data systems analysis, development of programming techniques, controlling computer operations 16 <input type="checkbox"/> Other activities - Specify <input type="checkbox"/>	01 <input type="checkbox"/> Management or administration of research and development 02 <input type="checkbox"/> Management or administration of other than research and development 03 <input type="checkbox"/> Teaching and training - preparing and teaching courses, guiding and counseling students or trainees 04 <input type="checkbox"/> Basic research 05 <input type="checkbox"/> Applied research 06 <input type="checkbox"/> Development - product, process, and technical development 07 <input type="checkbox"/> Report and technical writing, editing, information retrieval 08 <input type="checkbox"/> Clinical diagnosis - diagnosis, treatment, etc. for patients or clients 09 <input type="checkbox"/> Design - of equipment, processes, etc., drafting, drawing, blueprints 10 <input type="checkbox"/> Quality control, testing, evaluation, inspection of equipment, materials, devices 11 <input type="checkbox"/> Operations - production, maintenance, construction, installation 12 <input type="checkbox"/> Distribution - sales, traffic, purchasing, customer and public relations 13 <input type="checkbox"/> Statistical work - designing and conducting sample and other surveys, forecasting, statistical analysis 14 <input type="checkbox"/> Consulting - on technical aspects of professional, scientific, and management fields or products 15 <input type="checkbox"/> Computer applications - programming, data systems analysis, development of programming techniques, controlling computer operations 16 <input type="checkbox"/> Other activities - Specify <input type="checkbox"/>		
14. Among all the activities marked above (in question 13) which in terms of working hours spent was your primary and which was your major secondary activity? <i>Fill in the appropriate code numbers from the activities in question 13.</i>	CODE (052) _____ Primary (054) _____ Secondary	CODE (053) _____ Primary (055) _____ Secondary		
15. Were you primarily --	(MARK ONLY ONE BOX) (056) 1 <input type="checkbox"/> Employee of private company, business, or individual for wages, salary, or commissions 2 <input type="checkbox"/> Employee of nonprofit organization (excluding government) 3 <input type="checkbox"/> Federal government employee 4 <input type="checkbox"/> State government employee 5 <input type="checkbox"/> Local government employee (city, county, etc.) 6 <input type="checkbox"/> Employee of international organization 7 <input type="checkbox"/> Self-employed in own business, profession, or farm 8 <input type="checkbox"/> Own business - not incorporated 9 <input type="checkbox"/> Own business - incorporated 10 <input type="checkbox"/> Working without pay in family business or farm	(MARK ONLY ONE BOX) (057) 1 <input type="checkbox"/> Employee of private company, business, or individual for wages, salary, or commissions 2 <input type="checkbox"/> Employee of nonprofit organization (excluding government) 3 <input type="checkbox"/> Federal government employee 4 <input type="checkbox"/> State government employee 5 <input type="checkbox"/> Local government employee (city, county, etc.) 6 <input type="checkbox"/> Employee of international organization 7 <input type="checkbox"/> Self-employed in own business, profession, or farm 8 <input type="checkbox"/> Own business - not incorporated 9 <input type="checkbox"/> Own business - incorporated 10 <input type="checkbox"/> Working without pay in family business or farm		

**PART III - JOB ACTIVITIES - Continued**

	Job held during week of January 20-26, 1974, or most recent prior job		Job held during week of January 21-27, 1973		SAME JOB AS COLUMN (A)
	(A)		(B)		<input type="checkbox"/>
16. Between what dates did you hold this position? <i>Enter month and year</i>	From (058) 058	To (059) 059	From (060) 060	To (061) 061	
17. What was the basic salary associated with this position? If you were on a post-doctoral appointment, include stipend plus allowances. Indicate whether the figure entered is per year, per month, or per week. (Basic salary refers to salary before reductions for income tax, social security, retirement, etc., but does not include bonuses, overtime, summer teaching, or other payment for secondary jobs.)	(062) \$ _____ .00 (064) 1 <input type="checkbox"/> Per year 2 <input type="checkbox"/> Per month 3 <input type="checkbox"/> Per week  If academically employed, mark whether salary is for - (066) 1 <input type="checkbox"/> 9-10 months 2 <input type="checkbox"/> 11-12 months		(063) \$ _____ .00 (065) 1 <input type="checkbox"/> Per year 2 <input type="checkbox"/> Per month 3 <input type="checkbox"/> Per week  If academically employed, mark whether salary is for - (067) 1 <input type="checkbox"/> 9-10 months 2 <input type="checkbox"/> 11-12 months		
18a. Was ANY of your work supported or sponsored by U.S. Government funds?	(068) 1 <input type="checkbox"/> Yes - Continue with 18b 2 <input type="checkbox"/> No ..... } SKIP to 19a 3 <input type="checkbox"/> Don't know }		(069) 1 <input type="checkbox"/> Yes - Continue with 18b 2 <input type="checkbox"/> No ..... } SKIP to 19a 3 <input type="checkbox"/> Don't know }		
b. Which of the following agencies or departments were supporting the work?	(070) 1 <input type="checkbox"/> Department of Housing and Urban Development 2 <input type="checkbox"/> Department of the Interior 3 <input type="checkbox"/> Department of Labor 4 <input type="checkbox"/> Department of Defense 5 <input type="checkbox"/> Department of Commerce 6 <input type="checkbox"/> Department of Agriculture  (072) 7 <input type="checkbox"/> Department of Transportation 8 <input type="checkbox"/> Department of Justice 9 <input type="checkbox"/> Department of Health, Education and Welfare 10 <input type="checkbox"/> NIH (National Institutes of Health) 11 <input type="checkbox"/> Health Services and Mental Health Administration  (074) 11 <input type="checkbox"/> Office of Education 12 <input type="checkbox"/> Other H.E.W. - Specify <input checked="" type="checkbox"/>  13 <input type="checkbox"/> NASA (National Aeronautic and Space Administration) (076) 14 <input type="checkbox"/> NSF (National Science Foundation) 15 <input type="checkbox"/> EPA (Environmental Protection Agency) 16 <input type="checkbox"/> AEC (Atomic Energy Commission) (078) 17 <input type="checkbox"/> AID (Agency for International Development) 18 <input type="checkbox"/> Other agency or department - Specify <input checked="" type="checkbox"/> 19 <input type="checkbox"/> Don't know source agency		(071) 1 <input type="checkbox"/> Department of Housing and Urban Development 2 <input type="checkbox"/> Department of the Interior 3 <input type="checkbox"/> Department of Labor 4 <input type="checkbox"/> Department of Defense 5 <input type="checkbox"/> Department of Commerce 6 <input type="checkbox"/> Department of Agriculture  (073) 7 <input type="checkbox"/> Department of Transportation 8 <input type="checkbox"/> Department of Justice 9 <input type="checkbox"/> Department of Health, Education and Welfare 10 <input type="checkbox"/> NIH (National Institutes of Health) 11 <input type="checkbox"/> Health Services and Mental Health Administration  (075) 11 <input type="checkbox"/> Office of Education 12 <input type="checkbox"/> Other H.E.W. - Specify <input checked="" type="checkbox"/>  13 <input type="checkbox"/> NASA (National Aeronautic and Space Administration) (077) 14 <input type="checkbox"/> NSF (National Science Foundation) 15 <input type="checkbox"/> EPA (Environmental Protection Agency) 16 <input type="checkbox"/> AEC (Atomic Energy Commission) (079) 17 <input type="checkbox"/> AID (Agency for International Development) 18 <input type="checkbox"/> Other agency or department - Specify <input checked="" type="checkbox"/> 19 <input type="checkbox"/> Don't know source agency		

**PART IV - OTHER INFORMATION**

19a. At anytime during calendar year 1973, were you without a job AND actively seeking employment?	(080) 1 <input type="checkbox"/> Yes - Continue with 19b 2 <input type="checkbox"/> No - SKIP to question 20
b. For how many weeks were you seeking employment?	(081) <input type="checkbox"/> 1 week <input type="checkbox"/> 2 weeks <input type="checkbox"/> 3 weeks <input type="checkbox"/> 4 weeks or more
20. Based on my total education and experience, I now regard myself professionally as a (an) -- <i>Enter code and description from Reference List C.</i>	(082) Code <input type="text"/> Description <input type="text"/>
21. Listed at the right, are selected topics of critical national interest. If you devote a significant proportion of your professional time to any of these problem areas, please mark the box for the one on which you spend the MOST time. Mark only one box.	(083) 01 <input type="checkbox"/> Health Education: 02 <input type="checkbox"/> Teaching 03 <input type="checkbox"/> Other 04 <input type="checkbox"/> Environment protection, pollution control 05 <input type="checkbox"/> Space 06 <input type="checkbox"/> Crime prevention and control 07 <input type="checkbox"/> Food production and technology 08 <input type="checkbox"/> Energy and fuel 09 <input type="checkbox"/> Other mineral resources 10 <input type="checkbox"/> Community development and services 11 <input type="checkbox"/> Housing (planning, design, construction) 12 <input type="checkbox"/> Does not apply
22. In the event that it is necessary to contact you to clarify some of the information you provide, may we contact you by telephone? <i>If "Yes," please enter the telephone number(s) on which you can be reached.</i>	<input type="checkbox"/> Yes →      Area code <input type="text"/> Telephone number <input type="text"/> <input type="checkbox"/> No
23. Please enter the name of a person at an address other than yours through whom you can be reached	Name <input type="text"/> Address (Number and street) <input type="text"/> City <input type="text"/> State or foreign country <input type="text"/> ZIP code <input type="text"/>
Print your name here <input type="text"/>	
Date prepared <input type="text"/>	



## REFERENCE LIST B - KINDS OF BUSINESSES

This list is to be used in answering question 11 about the kind(s) of business or industry for which you worked. Please scan the entire list, choose the appropriate answer for the question and enter the code and description from this list. If none of the categories listed below adequately describes the kind of business for which you worked, use the "Other" category (code 731).

Code	Description	Code	Description
	<b>Manufacturing</b>		<b>Other Kinds of Business</b>
701	Aircraft, aircraft engines, parts	720	Agriculture, forestry, and fisheries
702	Chemicals and allied products	721	Business, personal, and repair services
703	Electrical machinery, equipment and supplies for the generation, storage, transformation, transmission, and utilization of electrical energy	722	Construction
704	Electronic apparatus, radio, television and communication equipment and parts	723	Engineering or architectural services
705	Electronic computers, accounting, calculating and office machinery and equipment	724	Finance, insurance, or real estate
706	Fabricated metal products (except ordnance, machinery and transportation equipment)	725	Mining and petroleum extraction
707	Machinery (except electrical) including engines and turbines, farming and construction machinery, mining, metalworking and other manufacturing and service industry machines	726	Private, nonprofit organizations other than educational institutions and hospitals
708	Motor vehicles and motor vehicle equipment including trucks, buses, automobiles, railroad engines and cars	727	Professional and technical societies
709	Ordnance, including manufacture of arms, ammunition, tanks, and complete guided missiles, space vehicles and equipment	728	Research institutions
710	Petroleum refining and related industries	729	Retail and wholesale trade
711	Primary metal industries, including smelting, refining, rolling, drawing, alloying, and manufacture of castings, forgings and other basic metal products	730	Transportation, communication, or other public utilities
712	Professional and scientific equipment and supplies	731	Other (Describe briefly under the applicable item on the questionnaire.)
713	Other manufacturing including printing		
	<b>Educational Institutions</b>		<b>Public Administration</b> (Include only uniquely governmental activities, such as the U.S. Postal Service, U.S. Air Force, State court, Department of Motor Vehicles, city building inspection, or city public welfare. For example, if you work for the U.S. Postal Service use code 733, Federal public administration; on the other hand, if you work at a Veterans' Administration Hospital, use code 718, Hospital or clinic; if you work at a State university, use code 714, College or university; if you work for a county road building agency, use code 722, Construction; if you work in a Defense Department research laboratory, use code 728, Research institution.)
	College or university (offering at least a Bachelor's degree)		
	Junior college or technical institute	732	Uniformed military service
	Medical school	733	Federal public administration
	Other educational institutions	734	State public administration
	<b>Health Services</b>	735	Local public administration (city, county, etc.)
718	Hospital or clinic	736	Other government
719	Other medical and health services		

## REFERENCE LIST C - OCCUPATIONS

This list is to be used in answering questions 12 and 20 about your occupational classification. Please scan the entire list, choose the appropriate entry and enter the code and description from this list. If you cannot find exactly the right entry, please choose the one that comes nearest to it. If none of the entries is at all appropriate, use the "Other" category (code 475) and enter a brief description in the space provided on the questionnaire.

Code	Description	Code	Description
	<b>Engineers, including college professors and instructors</b>		<b>Health Occupations, including persons who are primarily practitioners. Persons engaged primarily in medical research, teaching, and similar activities use code 432, Medical scientist.</b>
401	Engineer, aeronautical and astronautical	438	Physician or surgeon
402	Engineer, agricultural	439	Technician, dental
403	Engineer, chemical	440	Technician, medical
404	Engineer, civil and architectural	441	Other health occupation (Describe briefly under the applicable item on the questionnaire.)
405	Engineer, electrical and electronic		<b>Technicians and Technologists, except medical</b>
406	Engineer, industrial	442	Designer, electronic parts and machine tools
407	Engineer, mechanical	443	Designer, industrial
408	Engineer, metallurgical and materials	444	Designer, other
409	Engineer, mining and petroleum	445	Draftsman
410	Engineer, nuclear	446	Surveyor
411	Engineer, environmental and sanitary	447	Technician, biological and agricultural
412	Engineer, operations research systems	448	Technician, electrical and electronic
413	Engineer, other fields (Describe briefly under the applicable item on the questionnaire.)	449	Technician, construction, highways, and architectural
	<b>Computer Specialist, including college professors and instructors</b>	450	Technician, mechanical
414	Computer programmer	451	Technician, other engineering
415	Computer systems analyst	452	Technician, physical science
416	Computer scientist	453	Technician, other fields (Describe briefly under the applicable item on the questionnaire.)
417	Other computer specialist (Describe briefly under the applicable item on the questionnaire.)		<b>Teachers</b>
	<b>Mathematicians and Statisticians, including college professors and instructors</b>	454	Teacher, elementary school
418	Actuary	455	Teacher, secondary school
419	Mathematician	456	Teacher, college and university, excluding engineering and science (Engineering and science teachers see codes 401-437 above.)
420	Statistician		<b>Administrators, Managers, and Officials, excluding farm</b>
421	Operations research analyst	457	College president or dean
	<b>Physical Scientists, including college professors and instructors</b>	458	Administrator or manager, scientific and technical research and development
422	Chemist	459	Administrator or manager, production and operations
423	Earth scientists including geologists, geophysicists, etc.	460	Administrator, manager, or official, all other, excluding self-employed
424	Physicist, astronomer	461	Self-employed proprietor
425	Atmospheric scientist, meteorologist		<b>All Other Occupations</b>
426	Oceanographer	462	Accountant
427	Other physical scientist (Describe)	463	Attorney or judge
	<b>Biological Scientists, including college professors and instructors</b>	464	Sales worker
428	Agricultural scientists, including foresters and conservationists	465	Clerical work (such as bookkeeper, secretary, etc.)
429	Biological scientist	466	Clergy
430	Brochemist	467	Craft worker (such as baker, carpenter, electrician, mechanic, repair worker)
431	Biophysicist	468	Farmer (owner, manager, tenant, or farm laborer)
432	Medical scientist, excluding persons who are primarily medical practitioners; see Health Occupations	469	Fire fighter or police
433	Other biological scientist (Describe)	470	Laborer, except farm
	<b>Social scientists, including college professors and instructors</b>	471	Librarian
434	Economist	472	Merchant or shopkeeper, self-employed
435	Psychologist	473	Operative (such as assembler, factory worker, miner, welder, truck driver, etc.)
436	Sociologist or anthropologist	474	Postal worker
437	Other social scientist (Describe briefly under the applicable item on the questionnaire.)	475	Other occupations, not specified above (Describe briefly under the applicable item on the questionnaire.)



# Other Science Resources Publications

REPORTS	NSF No.	Price	
Federal Support to Universities, Colleges, and Selected Nonprofit Institutions, Fiscal Year 1974 .....	76-305	In press	Detailed Statistical Tables. Federal Support to Universities, Colleges, and Selected Nonprofit Institutions, Fiscal Year 1974 .....
Expenditures for Scientific and Engineering Activities at Universities and Colleges, Fiscal Year 1974 .....	76-303	In press	Detailed Statistical Tables. Federal Funds for Research, Development, and Other Scientific Activities, Fiscal Years 1974, 1975, and 1976, Volume XXIV .....
Reviews of Data on Science Resources, No. 26, "Energy and Energy-Related R&D Activities of Federal Installations and Federally Funded Research and Development Centers: Estimated Funds and Manpower, FY 1973-75" .....	76-306	-----	Detailed Statistical Tables. Graduate Science Education: Student Support and Postdoctorals, Fall 1974 .....
Reviews of Data on Science Resources, No. 25, "Doctoral Scientists and Engineers in Private Industry, 1973" .....	75-335	In press	Research and Development in Industry, 1973. Funds, 1973; Scientists & Engineers, January 1974 .....
"Doctoral Scientists and Engineers in Private Industry, 1973" .....	76-302	In press	75-315 \$1.95
Projections of Degrees and Enrollment in Science and Engineering Fields to 1985 .....	76-301	In press	
Federal Funds for Research, Development, and Other Scientific Activities, Fiscal Years 1974, 1975, and 1976, Volume XXIV .....	75-334	In press	HIGHLIGHTS "Industrial R&D Expenditures Rise to \$22 Billion in 1974" .....
An Analysis of Federal R&D Funding by Function, Fiscal Years 1969-1976 .....	75-330	\$1.80	"Graduate Science Enrollment in Fall 1975 is Up Again for Second Straight Year" .....
Detailed Statistical Tables. Manpower Resources for Scientific Activities at Universities and Colleges, January 1975 .....	75-329	---	"Employment of Academic Scientists and Engineers Increase From January 1974 to January, 1975" .....
			75-331