

SECTION B.  
DETAILED STATISTICAL TABLES

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**Table 1. Percentage distribution of earned bachelor's degrees in science and engineering, by citizenship, race/ethnicity, and sex of recipient: 1990-1998**

Citizenship and race/ethnicity	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total									
Total .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total <sup>1</sup> .....	96.4	96.4	96.8	96.4	96.5	96.3	96.3	96.4	96.4
White, non-Hispanics .....	78.1	78.0	77.6	76.5	75.3	73.7	72.7	71.5	70.6
Asians .....	5.6	5.8	6.0	6.3	6.7	7.3	7.6	8.1	8.4
Underrepresented minorities, total .....	9.7	10.3	11.0	11.5	12.3	13.0	13.6	14.2	14.7
Black, non-Hispanics .....	5.3	5.6	6.0	6.3	6.6	6.9	7.2	7.4	7.6
Hispanics .....	4.0	4.3	4.6	4.7	5.2	5.6	5.9	6.2	6.5
American Indians or Alaskan Natives .....	.4	.4	.4	.5	.5	.5	.6	.6	.6
U.S. citizens and permanent residents, unknown race/ethnicity .....	3.0	2.4	2.1	2.1	2.2	2.3	2.4	2.6	2.7
Nonresident aliens <sup>2</sup> .....	3.6	3.6	3.2	3.6	3.5	3.7	3.7	3.6	3.6
Men									
Total .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total <sup>1</sup> .....	95.5	95.5	96.0	95.6	95.6	95.4	95.5	95.5	95.6
White, non-Hispanics .....	78.9	78.8	78.5	77.5	76.3	74.8	73.8	72.8	72.0
Asians .....	5.8	5.9	6.3	6.6	6.9	7.4	7.9	8.4	8.7
Underrepresented minorities, total .....	8.0	8.5	9.0	9.4	10.2	10.8	11.3	11.7	12.2
Black, non-Hispanics .....	3.9	4.2	4.5	4.7	5.0	5.1	5.4	5.6	5.7
Hispanics .....	3.7	3.9	4.2	4.3	4.7	5.1	5.4	5.6	5.9
American Indians or Alaskan Natives .....	.3	.3	.4	.4	.5	.5	.5	.5	.6
U.S. citizens and permanent residents, unknown race/ethnicity .....	2.9	2.4	2.2	2.2	2.2	2.4	2.6	2.6	2.7
Nonresident aliens <sup>2</sup> .....	4.5	4.5	4.0	4.4	4.4	4.6	4.5	4.5	4.4
Women									
Total .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total <sup>1</sup> .....	97.7	97.6	97.7	97.5	97.5	97.4	97.3	97.3	97.3
White, non-Hispanics .....	77.2	77.0	76.6	75.3	74.0	72.4	71.4	70.0	69.1
Asians .....	5.4	5.5	5.6	6.0	6.4	7.1	7.4	7.8	8.1
Underrepresented minorities, total .....	12.0	12.7	13.4	14.1	15.0	15.6	16.2	17.0	17.5
Black, non-Hispanics .....	7.1	7.4	7.8	8.2	8.7	8.9	9.2	9.5	9.7
Hispanics .....	4.4	4.8	5.2	5.3	5.8	6.1	6.4	6.8	7.1
American Indians or Alaskan Natives .....	.4	.4	.5	.5	.6	.6	.6	.7	.7
U.S. citizens and permanent residents, unknown race/ethnicity .....	3.1	2.4	2.1	2.1	2.1	2.3	2.3	2.5	2.7
Nonresident aliens <sup>2</sup> .....	2.3	2.4	2.3	2.5	2.5	2.6	2.7	2.7	2.7

<sup>1</sup> Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

<sup>2</sup> Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

**NOTES:** Details may not sum to totals due to rounding.

Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

See section C for specific fields included in science and engineering.

**SOURCE:** Tabulated by National Science Foundation/Division of Science Resources Studies; data from Department of Education/National Center for Education Statistics: Integrated Postsecondary Education Data System Completions Survey

**Table 2. Percentage distribution of earned master's degrees in science and engineering, by citizenship, race/ethnicity, and sex of recipient: 1990-1998**

Citizenship and race/ethnicity	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total									
Total .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total <sup>1</sup> .....	77.4	76.6	76.4	75.3	75.7	75.9	76.8	76.8	75.4
White, non-Hispanics .....	61.5	61.1	59.9	58.9	58.9	58.1	58.4	58.0	56.3
Asians .....	5.6	5.9	6.3	6.0	6.3	6.4	6.7	6.7	7.1
Underrepresented minorities, total .....	5.0	5.5	5.7	6.0	6.5	7.0	7.4	8.1	8.2
Black, non-Hispanics .....	2.6	2.9	3.1	3.1	3.3	3.8	4.0	4.4	4.3
Hispanics .....	2.2	2.4	2.4	2.6	2.9	2.9	3.1	3.3	3.5
American Indians or Alaskan Natives .....	.3	.3	.3	.3	.3	.3	.3	.4	.4
U.S. citizens and permanent residents, unknown race/ethnicity .....	5.2	4.0	4.5	4.4	4.0	4.3	4.4	4.0	3.8
Nonresident aliens <sup>2</sup> .....	22.6	23.4	23.6	24.7	24.3	24.1	23.2	23.2	24.6
Men									
Total .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total <sup>1</sup> .....	73.8	72.6	72.5	71.1	71.6	71.3	72.8	72.4	71.2
White, non-Hispanics .....	58.3	57.9	56.5	55.5	55.6	54.6	55.7	55.4	53.7
Asians .....	5.8	6.2	6.6	6.1	6.4	6.7	6.8	6.6	7.1
Underrepresented minorities, total .....	4.1	4.5	4.7	5.0	5.3	5.6	5.8	6.5	6.5
Black, non-Hispanics .....	2.0	2.2	2.3	2.4	2.5	2.7	2.8	3.1	3.2
Hispanics .....	2.0	2.1	2.1	2.4	2.6	2.6	2.7	3.0	3.1
American Indians or Alaskan Natives .....	.2	.2	.2	.2	.3	.3	.3	.3	.3
U.S. citizens and permanent residents, unknown race/ethnicity .....	5.5	4.1	4.7	4.5	4.2	4.4	4.5	3.9	3.8
Nonresident aliens <sup>2</sup> .....	26.2	27.4	27.5	28.9	28.4	28.7	27.2	27.6	28.8
Women									
Total .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total <sup>1</sup> .....	84.7	84.2	83.7	83.1	83.3	83.8	83.4	83.5	81.8
White, non-Hispanics .....	68.1	67.3	66.4	65.3	64.9	64.2	62.7	61.9	60.1
Asians .....	5.3	5.4	5.6	5.7	6.1	6.0	6.6	6.9	7.1
Underrepresented minorities, total .....	6.8	7.6	7.6	8.0	8.7	9.4	9.9	10.6	10.8
Black, non-Hispanics .....	3.8	4.2	4.5	4.6	4.8	5.5	5.8	6.4	6.0
Hispanics .....	2.6	3.0	2.8	3.0	3.6	3.5	3.7	3.8	4.2
American Indians or Alaskan Natives .....	.4	.4	.3	.4	.4	.5	.4	.4	.5
U.S. citizens and permanent residents, unknown race/ethnicity .....	4.6	3.9	4.1	4.2	3.6	4.1	4.2	4.1	3.9
Nonresident aliens <sup>2</sup> .....	15.3	15.8	16.3	16.9	16.7	16.2	16.6	16.5	18.2

<sup>1</sup> Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

<sup>2</sup> Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

**NOTES:** Details may not sum to totals due to rounding.

Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

See section C for specific fields included in science and engineering.

**SOURCE:** Tabulated by National Science Foundation/Division of Science Resources Studies; data from Department of Education/National Center for Education Statistics: Integrated Postsecondary Education Data System Completions Survey

**Table 3. Percentage distribution of earned doctoral degrees in science and engineering, by citizenship, race/ethnicity, and sex of recipient: 1990-1998**

Citizenship and race/ethnicity	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total									
Total .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total <sup>1</sup> .....	67.2	66.2	64.6	65.1	69.4	71.6	68.5	67.5	66.9
White, non-Hispanics .....	57.6	55.5	54.0	54.0	53.0	52.4	51.4	50.8	51.4
Asians .....	4.4	4.9	5.5	6.3	11.4	13.8	11.4	9.3	7.9
Underrepresented minorities, total .....	3.9	4.2	4.0	4.1	4.2	4.5	4.7	5.0	5.5
Black, non-Hispanics .....	1.6	1.9	1.7	1.8	1.9	2.1	2.1	2.3	2.4
Hispanics .....	2.0	2.1	2.1	2.1	2.1	2.1	2.3	2.4	2.8
American Indians or Alaskan Natives .....	.2	.2	.3	.2	.2	.3	.4	.3	.4
U.S. citizens and permanent residents, unknown race/ethnicity .....	1.3	1.7	1.1	.7	.7	.9	.9	2.5	2.2
Nonresident aliens <sup>2</sup> .....	28.7	31.8	32.8	31.9	28.7	26.4	28.7	27.5	28.5
Citizenship unknown .....	4.1	1.9	2.6	3.0	1.9	2.1	2.9	4.9	4.6
Men									
Total .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total <sup>1</sup> .....	61.7	60.7	59.5	60.0	64.4	66.7	63.3	63.0	62.1
White, non-Hispanics .....	52.4	50.5	49.5	49.7	48.1	47.9	46.9	47.3	47.8
Asians .....	4.6	4.7	5.3	6.1	11.9	14.1	11.5	9.1	7.7
Underrepresented minorities, total .....	3.3	3.6	3.4	3.4	3.5	3.7	4.0	4.3	4.4
Black, non-Hispanics .....	1.4	1.6	1.4	1.5	1.6	1.6	1.8	1.8	1.7
Hispanics .....	1.8	1.8	1.8	1.8	1.8	1.9	1.9	2.2	2.4
American Indians or Alaskan Natives .....	.2	.2	.2	.1	.2	.2	.3	.2	.3
U.S. citizens and permanent residents, unknown race/ethnicity .....	1.4	1.8	1.3	.8	.8	1.0	1.0	2.3	2.2
Nonresident aliens <sup>2</sup> .....	33.9	37.7	38.6	37.8	34.0	31.7	34.2	33.0	33.7
Citizenship unknown .....	4.4	1.6	1.9	2.2	1.6	1.6	2.5	4.0	4.2
Women									
Total .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total <sup>1</sup> .....	81.4	80.7	78.8	78.7	82.0	83.4	80.5	78.2	76.7
White, non-Hispanics .....	71.0	68.4	66.4	65.5	65.1	63.0	61.9	58.9	58.7
Asians .....	4.0	5.4	5.9	6.9	10.4	13.5	11.4	10.0	8.2
Underrepresented minorities, total .....	5.4	5.8	5.7	5.9	5.9	6.3	6.5	6.6	7.7
Black, non-Hispanics .....	2.3	2.8	2.4	2.7	2.7	3.3	2.9	3.3	3.7
Hispanics .....	2.8	2.7	2.9	2.9	2.9	2.7	3.1	3.0	3.5
American Indians or Alaskan Natives .....	.3	.3	.4	.2	.3	.3	.4	.4	.4
U.S. citizens and permanent residents, unknown race/ethnicity .....	1.0	1.2	.8	.4	.6	.6	.8	2.7	2.1
Nonresident aliens <sup>2</sup> .....	15.4	17.7	19.1	19.0	16.7	15.0	17.3	17.0	18.7
Citizenship unknown .....	3.2	1.5	2.1	2.3	1.3	1.6	2.2	4.8	4.6

<sup>1</sup> Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

<sup>2</sup> Nonresident aliens include foreign citizens on temporary visas only.

**NOTES:** Details may not sum to totals due to rounding.

See section C for specific fields included in science and engineering.

**SOURCE:** Tabulated by National Science Foundation/Division of Science Resources Studies; data from NSF/SRS, Survey of Earned Doctorates

**Table 4. Number of earned bachelor's degrees, by field and by citizenship and race/ethnicity of recipient: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total									
Total, all fields .....	1,062,151	1,107,997	1,150,072	1,179,278	1,183,141	1,174,436	1,179,815	1,186,589	1,199,579
Science and engineering .....	345,793	356,785	376,933	388,435	395,380	399,809	405,921	408,749	411,286
Engineering .....	64,703	62,186	61,898	62,670	62,962	63,330	63,066	62,306	60,870
Sciences .....	281,090	294,599	315,035	325,765	332,418	336,479	342,855	346,443	350,416
Natural sciences .....	105,234	105,595	111,108	116,742	122,792	129,447	136,126	140,301	144,256
Physical science <sup>1</sup> .....	16,203	16,407	17,076	17,691	18,525	19,375	19,853	19,730	19,594
Mathematical science .....	14,674	14,784	14,851	14,870	14,431	13,759	13,201	12,869	12,363
Computer science .....	27,695	25,410	24,854	24,477	24,458	24,662	24,405	24,975	27,041
Biological science .....	38,040	40,351	43,835	47,877	52,213	56,804	61,998	65,061	67,047
Agricultural science .....	8,622	8,643	10,492	11,827	13,165	14,847	16,669	17,666	18,211
Social sciences .....	175,856	189,004	203,927	209,023	209,626	207,032	206,729	206,142	206,160
Social science .....	121,838	130,111	139,884	141,772	139,858	134,431	132,901	131,408	131,703
Psychology .....	54,018	58,893	64,043	67,251	69,768	72,601	73,828	74,734	74,457
Non-S&E <sup>2</sup> .....	716,358	751,212	773,139	790,843	787,761	774,627	773,894	777,840	788,293
U.S. citizens and permanent residents, total <sup>3</sup>									
Total, all fields .....	1,035,598	1,078,340	1,121,525	1,146,907	1,148,914	1,137,424	1,142,028	1,147,815	1,160,692
Science and engineering .....	333,475	344,061	364,695	374,633	381,451	385,055	391,074	393,952	396,558
Engineering .....	59,786	57,604	57,675	58,165	58,422	58,520	58,304	57,509	56,227
Sciences .....	273,689	286,457	307,020	316,468	323,029	326,535	332,770	336,443	340,331
Natural sciences .....	100,908	101,039	106,739	111,656	117,843	124,297	131,065	135,390	139,280
Physical science <sup>1</sup> .....	15,608	15,799	16,469	16,927	17,812	18,652	19,167	19,059	18,919
Mathematical science .....	14,150	14,206	14,259	14,318	13,869	13,166	12,643	12,343	11,907
Computer science .....	25,629	23,373	22,880	22,273	22,185	22,367	22,225	22,976	24,912
Biological science .....	37,173	39,288	42,842	46,660	51,058	55,523	60,633	63,601	65,625
Agricultural science .....	8,348	8,373	10,289	11,478	12,919	14,589	16,397	17,411	17,917
Social sciences .....	172,781	185,418	200,281	204,812	205,186	202,238	201,705	201,053	201,051
Social science .....	119,288	127,216	136,902	138,391	136,273	130,579	128,893	127,368	127,764
Psychology .....	53,493	58,202	63,379	66,421	68,913	71,659	72,812	73,685	73,287
Non-S&E <sup>2</sup> .....	702,123	734,279	756,830	772,274	767,463	752,369	750,954	753,863	764,134
White, non-Hispanics									
Total, all fields .....	856,686	892,363	921,453	931,603	918,124	892,785	884,128	877,759	878,018
Science and engineering .....	270,225	278,190	292,614	297,171	297,616	294,773	295,082	292,252	290,207
Engineering .....	47,494	45,162	45,026	44,853	44,687	43,726	43,098	41,624	40,533
Sciences .....	222,731	233,028	247,588	252,318	252,929	251,047	251,984	250,628	249,674
Natural sciences .....	80,210	80,111	84,133	87,401	91,196	94,575	98,707	100,871	101,967
Physical science <sup>1</sup> .....	13,055	13,145	13,678	13,941	14,616	14,952	15,088	14,920	14,566
Mathematical science .....	11,765	11,649	11,723	11,669	11,089	10,343	9,823	9,484	9,045
Computer science .....	18,918	17,349	16,844	16,155	15,816	15,532	15,470	15,626	16,670
Biological science .....	28,814	30,264	32,506	35,080	37,942	40,628	43,680	45,325	45,854
Agricultural science .....	7,658	7,704	9,382	10,556	11,733	13,120	14,646	15,516	15,832
Social sciences .....	142,521	152,917	163,455	164,917	161,733	156,472	153,277	149,757	147,707
Social science .....	98,385	104,783	111,389	111,154	106,863	100,558	97,372	94,411	93,482
Psychology .....	44,136	48,134	52,066	53,763	54,870	55,914	55,905	55,346	54,225
Non-S&E <sup>2</sup> .....	586,461	614,173	628,839	634,432	620,508	598,012	589,046	585,507	587,811

See explanatory information and SOURCE at end of table.



**Table 4. Number of earned bachelor's degrees, by field and by citizenship and race/ethnicity of recipient: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Asians									
Total, all fields .....	38,027	41,725	46,616	50,587	54,675	59,295	63,117	67,358	69,988
Science and engineering .....	19,437	20,552	22,635	24,504	26,420	29,128	31,031	33,139	34,568
Engineering .....	6,012	6,220	6,265	6,407	6,516	6,785	6,799	7,085	7,002
Sciences .....	13,425	14,332	16,370	18,097	19,904	22,343	24,232	26,054	27,566
Natural sciences .....	7,326	7,595	8,496	9,524	10,401	12,007	13,212	14,200	15,001
Physical science <sup>1</sup> .....	937	983	1,001	1,098	1,096	1,347	1,559	1,620	1,676
Mathematical science .....	874	915	857	915	926	965	935	877	856
Computer science .....	2,144	2,010	2,082	2,245	2,247	2,365	2,448	2,767	3,158
Biological science .....	3,245	3,559	4,402	5,103	5,959	7,043	7,958	8,535	8,867
Agricultural science .....	126	128	154	163	173	287	312	401	444
Social sciences .....	6,099	6,737	7,874	8,573	9,503	10,336	11,020	11,854	12,565
Social science .....	4,469	4,852	5,724	6,035	6,726	7,005	7,354	7,787	8,298
Psychology .....	1,630	1,885	2,150	2,538	2,777	3,331	3,666	4,067	4,267
Non-S&E <sup>2</sup> .....	18,590	21,173	23,981	26,083	28,255	30,167	32,086	34,219	35,420
Underrepresented minorities, total									
Total, all fields .....	107,377	118,522	129,448	140,086	151,063	158,432	167,382	174,243	181,709
Science and engineering .....	33,419	36,682	41,383	44,682	48,822	51,844	55,114	58,129	60,656
Engineering .....	4,729	4,953	5,277	5,714	6,020	6,717	6,974	7,463	7,396
Sciences .....	28,690	31,729	36,106	38,968	42,802	45,127	48,140	50,666	53,260
Natural sciences .....	10,530	10,960	11,722	12,510	13,782	14,815	16,135	16,856	18,424
Physical science <sup>1</sup> .....	1,245	1,355	1,425	1,528	1,737	1,932	2,076	2,063	2,147
Mathematical science .....	1,178	1,334	1,432	1,490	1,594	1,589	1,619	1,708	1,738
Computer science .....	3,416	3,292	3,342	3,390	3,611	3,915	3,784	3,734	4,096
Biological science .....	4,243	4,551	5,043	5,602	6,127	6,606	7,648	8,255	9,232
Agricultural science .....	448	428	480	500	713	773	1,008	1,096	1,211
Social sciences .....	18,160	20,769	24,384	26,458	29,020	30,312	32,005	33,810	34,836
Social science .....	12,394	14,100	16,647	17,918	19,400	19,621	20,471	21,385	21,960
Psychology .....	5,766	6,669	7,737	8,540	9,620	10,691	11,534	12,425	12,876
Non-S&E <sup>2</sup> .....	73,958	81,840	88,065	95,404	102,241	106,588	112,268	116,114	121,053
Black, non-Hispanics									
Total, all fields .....	59,301	65,009	71,311	76,667	82,316	85,287	89,554	92,067	95,878
Science and engineering .....	18,230	19,987	22,431	24,421	26,289	27,528	29,055	30,444	31,398
Engineering .....	2,072	2,229	2,362	2,577	2,659	2,845	3,000	3,076	3,018
Sciences .....	16,158	17,758	20,069	21,844	23,630	24,683	26,055	27,368	28,380
Natural sciences .....	5,782	5,834	6,401	6,972	7,559	8,021	8,670	9,061	9,713
Physical science <sup>1</sup> .....	650	753	816	836	921	1,034	1,100	1,110	1,127
Mathematical science .....	720	811	904	965	992	995	981	1,071	1,030
Computer science .....	2,247	1,997	2,090	2,213	2,398	2,498	2,415	2,370	2,580
Biological science .....	1,994	2,111	2,385	2,739	2,980	3,231	3,811	4,123	4,550
Agricultural science .....	171	162	206	219	268	263	363	387	426
Social sciences .....	10,376	11,924	13,668	14,872	16,071	16,662	17,385	18,307	18,667
Social science .....	7,226	8,236	9,489	10,254	10,835	10,921	11,357	11,660	11,815
Psychology .....	3,150	3,688	4,179	4,618	5,236	5,741	6,028	6,647	6,852
Non-S&E <sup>2</sup> .....	41,071	45,022	48,880	52,246	56,027	57,759	60,499	61,623	64,480

See explanatory information and SOURCE at end of table.

**Table 4. Number of earned bachelor's degrees, by field and by citizenship and race/ethnicity of recipient: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Hispanics									
Total, all fields .....	43,864	49,027	53,007	57,845	62,683	66,691	71,015	74,938	78,125
Science and engineering .....	13,918	15,351	17,391	18,442	20,529	22,190	23,791	25,266	26,725
Engineering .....	2,511	2,566	2,733	2,961	3,143	3,651	3,731	4,125	4,125
Sciences .....	11,407	12,785	14,658	15,481	17,386	18,539	20,060	21,141	22,600
Natural sciences .....	4,357	4,705	4,892	5,034	5,648	6,119	6,764	7,055	7,881
Physical science <sup>1</sup> .....	522	533	546	599	733	800	872	853	914
Mathematical science .....	413	480	482	470	543	536	585	581	642
Computer science .....	1,085	1,215	1,173	1,096	1,135	1,307	1,280	1,267	1,410
Biological science .....	2,119	2,264	2,477	2,652	2,901	3,090	3,521	3,793	4,283
Agricultural science .....	218	213	214	217	336	386	506	561	632
Social sciences .....	7,050	8,080	9,766	10,447	11,738	12,420	13,296	14,086	14,719
Social science .....	4,645	5,334	6,519	6,860	7,748	7,877	8,260	8,804	9,210
Psychology .....	2,405	2,746	3,247	3,587	3,990	4,543	5,036	5,282	5,509
Non-S&E <sup>2</sup> .....	29,946	33,676	35,616	39,403	42,154	44,501	47,224	49,672	51,400
American Indians or Alaskan Natives									
Total, all fields .....	4,212	4,486	5,130	5,574	6,064	6,454	6,813	7,238	7,706
Science and engineering .....	1,271	1,344	1,561	1,819	2,004	2,126	2,268	2,419	2,533
Engineering .....	146	158	182	176	218	221	243	262	253
Sciences .....	1,125	1,186	1,379	1,643	1,786	1,905	2,025	2,157	2,280
Natural sciences .....	391	421	429	504	575	675	701	740	830
Physical science <sup>1</sup> .....	73	69	63	93	83	98	104	100	106
Mathematical science .....	45	43	46	55	59	58	53	56	66
Computer science .....	84	80	79	81	78	110	89	97	106
Biological science .....	130	176	181	211	246	285	316	339	399
Agricultural science .....	59	53	60	64	109	124	139	148	153
Social sciences .....	734	765	950	1,139	1,211	1,230	1,324	1,417	1,450
Social science .....	523	530	639	804	817	823	854	921	935
Psychology .....	211	235	311	335	394	407	470	496	515
Non-S&E <sup>2</sup> .....	2,941	3,142	3,569	3,755	4,060	4,328	4,545	4,819	5,173
U.S. citizens and permanent residents, unknown race/ethnicity									
Total, all fields .....	33,508	25,730	24,008	24,631	25,052	26,912	27,401	28,455	30,977
Science and engineering .....	10,394	8,637	8,063	8,276	8,593	9,310	9,847	10,432	11,127
Engineering .....	1,551	1,269	1,107	1,191	1,199	1,292	1,433	1,337	1,296
Sciences .....	8,843	7,368	6,956	7,085	7,394	8,018	8,414	9,095	9,831
Natural sciences .....	2,842	2,373	2,388	2,221	2,464	2,900	3,011	3,463	3,888
Physical science <sup>1</sup> .....	371	316	365	360	363	421	444	456	530
Mathematical science .....	333	308	247	244	260	269	266	274	268
Computer science .....	1,151	722	612	483	511	555	523	849	988
Biological science .....	871	914	891	875	1,030	1,246	1,347	1,486	1,672
Agricultural science .....	116	113	273	259	300	409	431	398	430
Social sciences .....	6,001	4,995	4,568	4,864	4,930	5,118	5,403	5,632	5,943
Social science .....	4,040	3,481	3,142	3,284	3,284	3,395	3,696	3,785	4,024
Psychology .....	1,961	1,514	1,426	1,580	1,646	1,723	1,707	1,847	1,919
Non-S&E <sup>2</sup> .....	23,114	17,093	15,945	16,355	16,459	17,602	17,554	18,023	19,850

See explanatory information and SOURCE at end of table.

**Table 4. Number of earned bachelor's degrees, by field and by citizenship and race/ethnicity of recipient: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
	Nonresident aliens <sup>4</sup>								
Total, all fields .....	26,553	29,657	28,547	32,371	34,227	37,012	37,787	38,774	38,887
Science and engineering .....	12,318	12,724	12,238	13,802	13,929	14,754	14,847	14,797	14,728
Engineering .....	4,917	4,582	4,223	4,505	4,540	4,810	4,762	4,797	4,643
Sciences .....	7,401	8,142	8,015	9,297	9,389	9,944	10,085	10,000	10,085
Natural sciences .....	4,326	4,556	4,369	5,086	4,949	5,150	5,061	4,911	4,976
Physical science <sup>1</sup> .....	595	608	607	764	713	723	686	671	675
Mathematical science .....	524	578	592	552	562	593	558	526	456
Computer science .....	2,066	2,037	1,974	2,204	2,273	2,295	2,180	1,999	2,129
Biological science .....	867	1,063	993	1,217	1,155	1,281	1,365	1,460	1,422
Agricultural science .....	274	270	203	349	246	258	272	255	294
Social sciences .....	3,075	3,586	3,646	4,211	4,440	4,794	5,024	5,089	5,109
Social science .....	2,550	2,895	2,982	3,381	3,585	3,852	4,008	4,040	3,939
Psychology .....	525	691	664	830	855	942	1,016	1,049	1,170
Non-S&E <sup>2</sup> .....	14,235	16,933	16,309	18,569	20,298	22,258	22,940	23,977	24,159

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and oceanographic sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

<sup>3</sup> Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

<sup>4</sup> Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

**NOTES:** Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

See section C for specific fields included in each category.

**SOURCE:** Tabulated by National Science Foundation/Division of Science Resources Studies; data from Department of Education/National Center for Education Statistics: Integrated Postsecondary Education Data System Completions Survey

**Table 5. Number of earned bachelor's degrees, by field and by citizenship and race/ethnicity of male recipients: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
	Total								
Total, all fields .....	495,867	508,952	525,395	537,536	537,061	531,146	528,000	525,282	525,714
Science and engineering .....	199,916	201,499	209,270	214,388	216,492	216,078	216,614	214,329	213,171
Engineering .....	54,730	52,522	52,270	52,696	52,569	52,389	51,765	50,846	49,541
Sciences .....	145,186	148,977	157,000	161,692	163,923	163,689	164,849	163,483	163,630
Natural sciences .....	62,518	62,091	64,678	67,855	70,956	73,593	76,775	77,585	78,792
Physical science <sup>1</sup> .....	11,109	11,199	11,466	11,877	12,253	12,559	12,666	12,306	12,001
Mathematical science .....	7,863	7,804	7,923	7,859	7,754	7,318	7,176	6,938	6,618
Computer science .....	19,321	17,896	17,670	17,565	17,466	17,628	17,666	18,166	19,796
Biological science .....	18,631	19,715	21,107	23,111	25,314	26,956	29,189	29,839	29,982
Agricultural science .....	5,594	5,477	6,512	7,443	8,169	9,132	10,078	10,336	10,395
Social sciences .....	82,668	86,886	92,322	93,837	92,967	90,096	88,074	85,898	84,838
Social science .....	67,269	70,731	75,185	75,808	74,218	70,458	68,109	66,407	65,781
Psychology .....	15,399	16,155	17,137	18,029	18,749	19,638	19,965	19,491	19,057
Non-S&E <sup>2</sup> .....	295,951	307,453	316,125	323,148	320,569	315,068	311,386	310,953	312,543
	U.S. citizens and permanent residents, total <sup>3</sup>								
Total, all fields .....	478,959	490,725	508,289	518,484	517,318	510,030	506,569	503,659	504,262
Science and engineering .....	190,980	192,516	200,929	204,994	207,030	206,144	206,828	204,767	203,694
Engineering .....	50,303	48,410	48,518	48,655	48,577	48,145	47,623	46,725	45,526
Sciences .....	140,677	144,106	152,411	156,339	158,453	157,999	159,205	158,042	158,168
Natural sciences .....	59,662	59,096	61,872	64,584	67,726	70,302	73,606	74,571	75,715
Physical science <sup>1</sup> .....	10,694	10,788	11,049	11,352	11,786	12,086	12,229	11,875	11,572
Mathematical science .....	7,539	7,430	7,565	7,514	7,390	6,960	6,790	6,618	6,326
Computer science .....	17,849	16,433	16,251	15,964	15,799	15,960	16,093	16,735	18,289
Biological science .....	18,200	19,171	20,628	22,542	24,739	26,334	28,576	29,170	29,303
Agricultural science .....	5,380	5,274	6,379	7,212	8,012	8,962	9,918	10,173	10,225
Social sciences .....	81,015	85,010	90,539	91,755	90,727	87,697	85,599	83,471	82,453
Social science .....	65,776	69,033	73,577	73,946	72,185	68,291	65,909	64,235	63,692
Psychology .....	15,239	15,977	16,962	17,809	18,542	19,406	19,690	19,236	18,761
Non-S&E <sup>2</sup> .....	287,979	298,209	307,360	313,490	310,288	303,886	299,741	298,892	300,568
	White, non-Hispanics								
Total, all fields .....	401,024	410,745	422,517	427,240	420,211	407,155	399,132	392,541	389,007
Science and engineering .....	157,675	158,687	164,220	166,063	165,245	161,731	159,889	156,121	153,382
Engineering .....	40,533	38,692	38,513	38,244	37,830	36,785	35,977	34,579	33,620
Sciences .....	117,142	119,995	125,707	127,819	127,415	124,946	123,912	121,542	119,762
Natural sciences .....	48,848	48,304	50,126	52,048	54,115	55,197	57,162	57,464	57,255
Physical science <sup>1</sup> .....	9,179	9,203	9,430	9,614	9,958	10,006	9,966	9,695	9,290
Mathematical science .....	6,253	6,119	6,255	6,131	5,920	5,456	5,239	5,085	4,851
Computer science .....	13,974	12,916	12,571	12,329	12,022	11,793	11,924	12,070	12,991
Biological science .....	14,488	15,174	16,030	17,293	18,882	19,790	21,065	21,388	20,908
Agricultural science .....	4,954	4,892	5,840	6,681	7,333	8,152	8,968	9,226	9,215
Social sciences .....	68,294	71,691	75,581	75,771	73,300	69,749	66,750	64,078	62,507
Social science .....	55,662	58,414	61,574	61,269	58,409	54,508	51,580	49,558	48,589
Psychology .....	12,632	13,277	14,007	14,502	14,891	15,241	15,170	14,520	13,918
Non-S&E <sup>2</sup> .....	243,349	252,058	258,297	261,177	254,966	245,424	239,243	236,420	235,625

See explanatory information and SOURCE at end of table.

**Table 5. Number of earned bachelor's degrees, by field and by citizenship and race/ethnicity of male recipients: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Asians									
Total, all fields .....	19,097	20,773	23,190	24,819	26,420	28,348	29,954	31,732	32,588
Science and engineering .....	11,528	11,942	13,198	14,132	14,967	16,039	17,015	17,914	18,495
Engineering .....	4,827	4,969	5,067	5,130	5,235	5,340	5,363	5,611	5,435
Sciences .....	6,701	6,973	8,131	9,002	9,732	10,699	11,652	12,303	13,060
Natural sciences .....	4,054	4,149	4,783	5,380	5,721	6,483	7,161	7,481	8,013
Physical science <sup>1</sup> .....	592	606	615	675	648	784	908	881	903
Mathematical science .....	491	482	486	502	523	519	539	494	462
Computer science .....	1,335	1,268	1,373	1,492	1,476	1,583	1,697	1,930	2,276
Biological science .....	1,573	1,736	2,230	2,633	2,992	3,467	3,878	4,007	4,181
Agricultural science .....	63	57	79	78	82	130	139	169	191
Social sciences .....	2,647	2,824	3,348	3,622	4,011	4,216	4,491	4,822	5,047
Social science .....	2,156	2,260	2,728	2,884	3,204	3,247	3,366	3,617	3,824
Psychology .....	491	564	620	738	807	969	1,125	1,205	1,223
Non-S&E <sup>2</sup> .....	7,569	8,831	9,992	10,687	11,453	12,309	12,939	13,818	14,093
Underrepresented minorities, total									
Total, all fields .....	43,047	46,914	50,695	54,600	58,528	61,542	64,369	66,191	68,448
Science and engineering .....	15,954	17,027	18,890	20,160	22,001	23,235	24,400	25,112	25,985
Engineering .....	3,574	3,654	3,952	4,261	4,458	4,917	5,056	5,410	5,362
Sciences .....	12,380	13,373	14,938	15,899	17,543	18,318	19,344	19,702	20,623
Natural sciences .....	5,043	5,226	5,450	5,766	6,389	6,888	7,478	7,610	8,294
Physical science <sup>1</sup> .....	655	755	745	792	931	998	1,044	991	1,060
Mathematical science .....	614	657	675	744	786	820	852	878	865
Computer science .....	1,797	1,758	1,864	1,802	1,939	2,190	2,092	2,122	2,315
Biological science .....	1,685	1,799	1,885	2,130	2,337	2,449	2,939	3,058	3,462
Agricultural science .....	292	257	281	298	396	431	551	561	592
Social sciences .....	7,337	8,147	9,488	10,133	11,154	11,430	11,866	12,092	12,329
Social science .....	5,788	6,442	7,590	8,013	8,813	8,742	8,990	9,092	9,256
Psychology .....	1,549	1,705	1,898	2,120	2,341	2,688	2,876	3,000	3,073
Non-S&E <sup>2</sup> .....	27,093	29,887	31,805	34,440	36,527	38,307	39,969	41,079	42,463
Black, non-Hispanics									
Total, all fields .....	22,590	24,238	26,518	28,374	30,106	30,998	32,223	32,726	33,653
Science and engineering .....	7,830	8,448	9,375	10,099	10,806	11,127	11,700	11,947	12,150
Engineering .....	1,416	1,484	1,614	1,764	1,784	1,846	1,964	2,019	1,977
Sciences .....	6,414	6,964	7,761	8,335	9,022	9,281	9,736	9,928	10,173
Natural sciences .....	2,476	2,538	2,709	2,872	3,146	3,314	3,591	3,678	3,969
Physical science <sup>1</sup> .....	292	391	381	370	464	495	482	466	521
Mathematical science .....	342	380	374	444	457	476	468	510	488
Computer science .....	1,074	971	1,092	1,049	1,161	1,241	1,218	1,212	1,323
Biological science .....	658	696	749	883	927	981	1,236	1,304	1,448
Agricultural science .....	110	100	113	126	137	121	187	186	189
Social sciences .....	3,938	4,426	5,052	5,463	5,876	5,967	6,145	6,250	6,204
Social science .....	3,144	3,547	4,070	4,364	4,644	4,565	4,727	4,659	4,660
Psychology .....	794	879	982	1,099	1,232	1,402	1,418	1,591	1,544
Non-S&E <sup>2</sup> .....	14,760	15,790	17,143	18,275	19,300	19,871	20,523	20,779	21,503

See explanatory information and SOURCE at end of table.

**Table 5. Number of earned bachelor's degrees, by field and by citizenship and race/ethnicity of male recipients: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Hispanics									
Total, all fields .....	18,683	20,781	22,026	23,825	25,860	27,875	29,335	30,550	31,716
Science and engineering .....	7,434	7,888	8,730	9,160	10,190	11,031	11,592	12,044	12,622
Engineering .....	2,035	2,039	2,187	2,355	2,495	2,895	2,897	3,196	3,179
Sciences .....	5,399	5,849	6,543	6,805	7,695	8,136	8,695	8,848	9,443
Natural sciences .....	2,328	2,458	2,497	2,608	2,925	3,196	3,509	3,544	3,873
Physical science <sup>1</sup> .....	311	318	326	361	415	437	488	468	474
Mathematical science .....	249	259	279	273	300	315	354	340	338
Computer science .....	669	738	724	700	719	876	824	841	920
Biological science .....	955	1,019	1,043	1,144	1,298	1,340	1,560	1,598	1,823
Agricultural science .....	144	124	125	130	193	228	283	297	318
Social sciences .....	3,071	3,391	4,046	4,197	4,770	4,940	5,186	5,304	5,570
Social science .....	2,384	2,634	3,220	3,269	3,774	3,774	3,860	4,019	4,188
Psychology .....	687	757	826	928	996	1,166	1,326	1,285	1,382
Non-S&E <sup>2</sup> .....	11,249	12,893	13,296	14,665	15,670	16,844	17,743	18,506	19,094
American Indians or Alaskan Natives									
Total, all fields .....	1,774	1,895	2,151	2,401	2,562	2,669	2,811	2,915	3,079
Science and engineering .....	690	691	785	901	1,005	1,077	1,108	1,121	1,213
Engineering .....	123	131	151	142	179	176	195	195	206
Sciences .....	567	560	634	759	826	901	913	926	1,007
Natural sciences .....	239	230	244	286	318	378	378	388	452
Physical science <sup>1</sup> .....	52	46	38	61	52	66	74	57	65
Mathematical science .....	23	18	22	27	29	29	30	28	39
Computer science .....	54	49	48	53	59	73	50	69	72
Biological science .....	72	84	93	103	112	128	143	156	191
Agricultural science .....	38	33	43	42	66	82	81	78	85
Social sciences .....	328	330	390	473	508	523	535	538	555
Social science .....	260	261	300	380	395	403	403	414	408
Psychology .....	68	69	90	93	113	120	132	124	147
Non-S&E <sup>2</sup> .....	1,084	1,204	1,366	1,500	1,557	1,592	1,703	1,794	1,866
U.S. citizens and permanent residents, unknown race/ethnicity									
Total, all fields .....	15,791	12,293	11,887	11,825	12,159	12,985	13,114	13,195	14,219
Science and engineering .....	5,823	4,860	4,621	4,639	4,817	5,139	5,524	5,620	5,832
Engineering .....	1,369	1,095	986	1,020	1,054	1,103	1,227	1,125	1,109
Sciences .....	4,454	3,765	3,635	3,619	3,763	4,036	4,297	4,495	4,723
Natural sciences .....	1,717	1,417	1,513	1,390	1,501	1,734	1,805	2,016	2,153
Physical science <sup>1</sup> .....	268	224	259	271	249	298	311	308	319
Mathematical science .....	181	172	149	137	161	165	160	161	148
Computer science .....	743	491	443	341	362	394	380	613	707
Biological science .....	454	462	483	486	528	628	694	717	752
Agricultural science .....	71	68	179	155	201	249	260	217	227
Social sciences .....	2,737	2,348	2,122	2,229	2,262	2,302	2,492	2,479	2,570
Social science .....	2,170	1,917	1,685	1,780	1,759	1,794	1,973	1,968	2,023
Psychology .....	567	431	437	449	503	508	519	511	547
Non-S&E <sup>2</sup> .....	9,968	7,433	7,266	7,186	7,342	7,846	7,590	7,575	8,387

See explanatory information and SOURCE at end of table.

**Table 5. Number of earned bachelor's degrees, by field and by citizenship and race/ethnicity of male recipients: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
	Nonresident aliens <sup>4</sup>								
Total, all fields .....	16,908	18,227	17,106	19,052	19,743	21,116	21,431	21,623	21,452
Science and engineering .....	8,936	8,983	8,341	9,394	9,462	9,934	9,786	9,562	9,477
Engineering .....	4,427	4,112	3,752	4,041	3,992	4,244	4,142	4,121	4,015
Sciences .....	4,509	4,871	4,589	5,353	5,470	5,690	5,644	5,441	5,462
Natural sciences .....	2,856	2,995	2,806	3,271	3,230	3,291	3,169	3,014	3,077
Physical science <sup>1</sup> .....	415	411	417	525	467	473	437	431	429
Mathematical science .....	324	374	358	345	364	358	386	320	292
Computer science .....	1,472	1,463	1,419	1,601	1,667	1,668	1,573	1,431	1,507
Biological science .....	431	544	479	569	575	622	613	669	679
Agricultural science .....	214	203	133	231	157	170	160	163	170
Social sciences .....	1,653	1,876	1,783	2,082	2,240	2,399	2,475	2,427	2,385
Social science .....	1,493	1,698	1,608	1,862	2,033	2,167	2,200	2,172	2,089
Psychology .....	160	178	175	220	207	232	275	255	296
Non-S&E <sup>2</sup> .....	7,972	9,244	8,765	9,658	10,281	11,182	11,645	12,061	11,975

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and oceanographic sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

<sup>3</sup> Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

<sup>4</sup> Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

**NOTES:** Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

See section C for specific fields included in each category.

**SOURCE:** Tabulated by National Science Foundation/Division of Science Resources Studies; data from Department of Education/National Center for Education Statistics: Integrated Postsecondary Education Data System Completions Survey

**Table 6. Number of earned bachelor's degrees, by field and by citizenship and race/ethnicity of female recipients: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
	Total								
Total, all fields .....	566,284	599,045	624,677	641,742	646,080	643,290	651,815	661,307	673,865
Science and engineering .....	145,877	155,286	167,663	174,047	178,888	183,731	189,307	194,420	198,115
Engineering .....	9,973	9,664	9,628	9,974	10,393	10,941	11,301	11,460	11,329
Sciences .....	135,904	145,622	158,035	164,073	168,495	172,790	178,006	182,960	186,786
Natural sciences .....	42,716	43,504	46,430	48,887	51,836	55,854	59,351	62,716	65,464
Physical science <sup>1</sup> .....	5,094	5,208	5,610	5,814	6,272	6,816	7,187	7,424	7,593
Mathematical science .....	6,811	6,980	6,928	7,011	6,677	6,441	6,025	5,931	5,745
Computer science .....	8,374	7,514	7,184	6,912	6,992	7,034	6,739	6,809	7,245
Biological science .....	19,409	20,636	22,728	24,766	26,899	29,848	32,809	35,222	37,065
Agricultural science .....	3,028	3,166	3,980	4,384	4,996	5,715	6,591	7,330	7,816
Social sciences .....	93,188	102,118	111,605	115,186	116,659	116,936	118,655	120,244	121,322
Social science .....	54,569	59,380	64,699	65,964	65,640	63,973	64,792	65,001	65,922
Psychology .....	38,619	42,738	46,906	49,222	51,019	52,963	53,863	55,243	55,400
Non-S&E <sup>2</sup> .....	420,407	443,759	457,014	467,695	467,192	459,559	462,508	466,887	475,750
	U.S. citizens and permanent residents, total <sup>3</sup>								
Total, all fields .....	556,639	587,615	613,236	628,423	631,596	627,394	635,459	644,156	656,430
Science and engineering .....	142,495	151,545	163,766	169,639	174,421	178,911	184,246	189,185	192,864
Engineering .....	9,483	9,194	9,157	9,510	9,845	10,375	10,681	10,784	10,701
Sciences .....	133,012	142,351	154,609	160,129	164,576	168,536	173,565	178,401	182,163
Natural sciences .....	41,246	41,943	44,867	47,072	50,117	53,995	57,459	60,819	63,565
Physical science <sup>1</sup> .....	4,914	5,011	5,420	5,575	6,026	6,566	6,938	7,184	7,347
Mathematical science .....	6,611	6,776	6,694	6,804	6,479	6,206	5,853	5,725	5,581
Computer science .....	7,780	6,940	6,629	6,309	6,386	6,407	6,132	6,241	6,623
Biological science .....	18,973	20,117	22,214	24,118	26,319	29,189	32,057	34,431	36,322
Agricultural science .....	2,968	3,099	3,910	4,266	4,907	5,627	6,479	7,238	7,692
Social sciences .....	91,766	100,408	109,742	113,057	114,459	114,541	116,106	117,582	118,598
Social science .....	53,512	58,183	63,325	64,445	64,088	62,288	62,984	63,133	64,072
Psychology .....	38,254	42,225	46,417	48,612	50,371	52,253	53,122	54,449	54,526
Non-S&E <sup>2</sup> .....	414,144	436,070	449,470	458,784	457,175	448,483	451,213	454,971	463,566
	White, non-Hispanics								
Total, all fields .....	455,662	481,618	498,936	504,363	497,913	485,630	484,996	485,218	489,011
Science and engineering .....	112,550	119,503	128,394	131,108	132,371	133,042	135,193	136,131	136,825
Engineering .....	6,961	6,470	6,513	6,609	6,857	6,941	7,121	7,045	6,913
Sciences .....	105,589	113,033	121,881	124,499	125,514	126,101	128,072	129,086	129,912
Natural sciences .....	31,362	31,807	34,007	35,353	37,081	39,378	41,545	43,407	44,712
Physical science <sup>1</sup> .....	3,876	3,942	4,248	4,327	4,658	4,946	5,122	5,225	5,276
Mathematical science .....	5,512	5,530	5,468	5,538	5,169	4,887	4,584	4,399	4,194
Computer science .....	4,944	4,433	4,273	3,826	3,794	3,739	3,546	3,556	3,679
Biological science .....	14,326	15,090	16,476	17,787	19,060	20,838	22,615	23,937	24,946
Agricultural science .....	2,704	2,812	3,542	3,875	4,400	4,968	5,678	6,290	6,617
Social sciences .....	74,227	81,226	87,874	89,146	88,433	86,723	86,527	85,679	85,200
Social science .....	42,723	46,369	49,815	49,885	48,454	46,050	45,792	44,853	44,893
Psychology .....	31,504	34,857	38,059	39,261	39,979	40,673	40,735	40,826	40,307
Non-S&E <sup>2</sup> .....	343,112	362,115	370,542	373,255	365,542	352,588	349,803	349,087	352,186

See explanatory information and SOURCE at end of table.



**Table 6. Number of earned bachelor's degrees, by field and by citizenship and race/ethnicity of female recipients: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Asians									
Total, all fields .....	18,930	20,952	23,426	25,768	28,255	30,947	33,163	35,626	37,400
Science and engineering .....	7,909	8,610	9,437	10,372	11,453	13,089	14,016	15,225	16,073
Engineering .....	1,185	1,251	1,198	1,277	1,281	1,445	1,436	1,474	1,567
Sciences .....	6,724	7,359	8,239	9,095	10,172	11,644	12,580	13,751	14,506
Natural sciences .....	3,272	3,446	3,713	4,144	4,680	5,524	6,051	6,719	6,988
Physical science <sup>1</sup> .....	345	377	386	423	448	563	651	739	773
Mathematical science .....	383	433	371	413	403	446	396	383	394
Computer science .....	809	742	709	753	771	782	751	837	882
Biological science .....	1,672	1,823	2,172	2,470	2,967	3,576	4,080	4,528	4,686
Agricultural science .....	63	71	75	85	91	157	173	232	253
Social sciences .....	3,452	3,913	4,526	4,951	5,492	6,120	6,529	7,032	7,518
Social science .....	2,313	2,592	2,996	3,151	3,522	3,758	3,988	4,170	4,474
Psychology .....	1,139	1,321	1,530	1,800	1,970	2,362	2,541	2,862	3,044
Non-S&E <sup>2</sup> .....	11,021	12,342	13,989	15,396	16,802	17,858	19,147	20,401	21,327
Underrepresented minorities, total									
Total, all fields .....	64,330	71,608	78,753	85,486	92,535	96,890	103,013	108,052	113,261
Science and engineering .....	17,465	19,655	22,493	24,522	26,821	28,609	30,714	33,017	34,671
Engineering .....	1,155	1,299	1,325	1,453	1,562	1,800	1,918	2,053	2,034
Sciences .....	16,310	18,356	21,168	23,069	25,259	26,809	28,796	30,964	32,637
Natural sciences .....	5,487	5,734	6,272	6,744	7,393	7,927	8,657	9,246	10,130
Physical science <sup>1</sup> .....	590	600	680	736	806	934	1,032	1,072	1,087
Mathematical science .....	564	677	757	746	808	769	767	830	873
Computer science .....	1,619	1,534	1,478	1,588	1,672	1,725	1,692	1,612	1,781
Biological science .....	2,558	2,752	3,158	3,472	3,790	4,157	4,709	5,197	5,770
Agricultural science .....	156	171	199	202	317	342	457	535	619
Social sciences .....	10,823	12,622	14,896	16,325	17,866	18,882	20,139	21,718	22,507
Social science .....	6,606	7,658	9,057	9,905	10,587	10,879	11,481	12,293	12,704
Psychology .....	4,217	4,964	5,839	6,420	7,279	8,003	8,658	9,425	9,803
Non-S&E <sup>2</sup> .....	46,865	51,953	56,260	60,964	65,714	68,281	72,299	75,035	78,590
Black, non-Hispanics									
Total, all fields .....	36,711	40,771	44,793	48,293	52,210	54,289	57,331	59,341	62,225
Science and engineering .....	10,400	11,539	13,056	14,322	15,483	16,401	17,355	18,497	19,248
Engineering .....	656	745	748	813	875	999	1,036	1,057	1,041
Sciences .....	9,744	10,794	12,308	13,509	14,608	15,402	16,319	17,440	18,207
Natural sciences .....	3,306	3,296	3,692	4,100	4,413	4,707	5,079	5,383	5,744
Physical science <sup>1</sup> .....	358	362	435	466	457	539	618	644	606
Mathematical science .....	378	431	530	521	535	519	513	561	542
Computer science .....	1,173	1,026	998	1,164	1,237	1,257	1,197	1,158	1,257
Biological science .....	1,336	1,415	1,636	1,856	2,053	2,250	2,575	2,819	3,102
Agricultural science .....	61	62	93	93	131	142	176	201	237
Social sciences .....	6,438	7,498	8,616	9,409	10,195	10,695	11,240	12,057	12,463
Social science .....	4,082	4,689	5,419	5,890	6,191	6,356	6,630	7,001	7,155
Psychology .....	2,356	2,809	3,197	3,519	4,004	4,339	4,610	5,056	5,308
Non-S&E <sup>2</sup> .....	26,311	29,232	31,737	33,971	36,727	37,888	39,976	40,844	42,977

See explanatory information and SOURCE at end of table.

**Table 6. Number of earned bachelor's degrees, by field and by citizenship and race/ethnicity of female recipients: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Hispanics									
Total, all fields .....	25,181	28,246	30,981	34,020	36,823	38,816	41,680	44,388	46,409
Science and engineering .....	6,484	7,463	8,661	9,282	10,339	11,159	12,199	13,222	14,103
Engineering .....	476	527	546	606	648	756	834	929	946
Sciences .....	6,008	6,936	8,115	8,676	9,691	10,403	11,365	12,293	13,157
Natural sciences .....	2,029	2,247	2,395	2,426	2,723	2,923	3,255	3,511	4,008
Physical science <sup>1</sup> .....	211	215	220	238	318	363	384	385	440
Mathematical science .....	164	221	203	197	243	221	231	241	304
Computer science .....	416	477	449	396	416	431	456	426	490
Biological science .....	1,164	1,245	1,434	1,508	1,603	1,750	1,961	2,195	2,460
Agricultural science .....	74	89	89	87	143	158	223	264	314
Social sciences .....	3,979	4,689	5,720	6,250	6,968	7,480	8,110	8,782	9,149
Social science .....	2,261	2,700	3,299	3,591	3,974	4,103	4,400	4,785	5,022
Psychology .....	1,718	1,989	2,421	2,659	2,994	3,377	3,710	3,997	4,127
Non-S&E <sup>2</sup> .....	18,697	20,783	22,320	24,738	26,484	27,657	29,481	31,166	32,306
American Indians or Alaskan Natives									
Total, all fields .....	2,438	2,591	2,979	3,173	3,502	3,785	4,002	4,323	4,627
Science and engineering .....	581	653	776	918	999	1,049	1,160	1,298	1,320
Engineering .....	23	27	31	34	39	45	48	67	47
Sciences .....	558	626	745	884	960	1,004	1,112	1,231	1,273
Natural sciences .....	152	191	185	218	257	297	323	352	378
Physical science <sup>1</sup> .....	21	23	25	32	31	32	30	43	41
Mathematical science .....	22	25	24	28	30	29	23	28	27
Computer science .....	30	31	31	28	19	37	39	28	34
Biological science .....	58	92	88	108	134	157	173	183	208
Agricultural science .....	21	20	17	22	43	42	58	70	68
Social sciences .....	406	435	560	666	703	707	789	879	895
Social science .....	263	269	339	424	422	420	451	507	527
Psychology .....	143	166	221	242	281	287	338	372	368
Non-S&E <sup>2</sup> .....	1,857	1,938	2,203	2,255	2,503	2,736	2,842	3,025	3,307
U.S. citizens and permanent residents, unknown race/ethnicity									
Total, all fields .....	17,717	13,437	12,121	12,806	12,893	13,927	14,287	15,260	16,758
Science and engineering .....	4,571	3,777	3,442	3,637	3,776	4,171	4,323	4,812	5,295
Engineering .....	182	174	121	171	145	189	206	212	187
Sciences .....	4,389	3,603	3,321	3,466	3,631	3,982	4,117	4,600	5,108
Natural sciences .....	1,125	956	875	831	963	1,166	1,206	1,447	1,735
Physical science <sup>1</sup> .....	103	92	106	89	114	123	133	148	211
Mathematical science .....	152	136	98	107	99	104	106	113	120
Computer science .....	408	231	169	142	149	161	143	236	281
Biological science .....	417	452	408	389	502	618	653	769	920
Agricultural science .....	45	45	94	104	99	160	171	181	203
Social sciences .....	3,264	2,647	2,446	2,635	2,668	2,816	2,911	3,153	3,373
Social science .....	1,870	1,564	1,457	1,504	1,525	1,601	1,723	1,817	2,001
Psychology .....	1,394	1,083	989	1,131	1,143	1,215	1,188	1,336	1,372
Non-S&E <sup>2</sup> .....	13,146	9,660	8,679	9,169	9,117	9,756	9,964	10,448	11,463

See explanatory information and SOURCE at end of table.

**Table 6. Number of earned bachelor's degrees, by field and by citizenship and race/ethnicity of female recipients: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
	Nonresident aliens <sup>4</sup>								
Total, all fields .....	9,645	11,430	11,441	13,319	14,484	15,896	16,356	17,151	17,435
Science and engineering .....	3,382	3,741	3,897	4,408	4,467	4,820	5,061	5,235	5,251
Engineering .....	490	470	471	464	548	566	620	676	628
Sciences .....	2,892	3,271	3,426	3,944	3,919	4,254	4,441	4,559	4,623
Natural sciences .....	1,470	1,561	1,563	1,815	1,719	1,859	1,892	1,897	1,899
Physical science <sup>1</sup> .....	180	197	190	239	246	250	249	240	246
Mathematical science .....	200	204	234	207	198	235	172	206	164
Computer science .....	594	574	555	603	606	627	607	568	622
Biological science .....	436	519	514	648	580	659	752	791	743
Agricultural science .....	60	67	70	118	89	88	112	92	124
Social sciences .....	1,422	1,710	1,863	2,129	2,200	2,395	2,549	2,662	2,724
Social science .....	1,057	1,197	1,374	1,519	1,552	1,685	1,808	1,868	1,850
Psychology .....	365	513	489	610	648	710	741	794	874
Non-S&E <sup>2</sup> .....	6,263	7,689	7,544	8,911	10,017	11,076	11,295	11,916	12,184

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and oceanographic sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

<sup>3</sup> Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

<sup>4</sup> Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

**NOTES:** Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

See section C for specific fields included in each category.

**SOURCE:** Tabulated by National Science Foundation/Division of Science Resources Studies; data from Department of Education/National Center for Education Statistics: Integrated Postsecondary Education Data System Completions Survey

**Table 7. Number of earned master's degrees, by field and by citizenship and race/ethnicity of recipient: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total									
Total, all fields .....	324,947	338,498	354,207	370,973	389,008	399,428	408,932	420,954	431,871
Science and engineering .....	72,228	72,828	76,184	81,415	86,080	88,431	88,730	86,697	87,144
Engineering .....	23,985	24,007	25,010	27,658	28,707	28,617	27,757	25,870	26,128
Sciences .....	48,243	48,821	51,174	53,757	57,373	59,814	60,973	60,827	61,016
Natural sciences .....	26,293	25,669	26,775	27,713	28,869	29,292	30,353	29,919	30,532
Physical science <sup>1</sup> .....	5,411	5,282	5,352	5,365	5,688	5,735	5,854	5,579	5,398
Mathematical science .....	3,684	3,632	4,019	4,084	4,108	4,190	4,037	3,790	3,700
Computer science .....	9,643	9,324	9,530	10,167	10,421	10,332	10,223	10,107	11,270
Biological science .....	4,893	4,806	4,816	4,798	5,217	5,423	6,207	6,497	6,283
Agricultural science .....	2,662	2,625	3,058	3,299	3,435	3,612	4,032	3,946	3,881
Social sciences .....	21,950	23,152	24,399	26,044	28,504	30,522	30,620	30,908	30,484
Social science .....	12,642	13,350	14,119	15,024	16,230	16,501	16,758	16,466	16,574
Psychology .....	9,308	9,802	10,280	11,020	12,274	14,021	13,862	14,442	13,910
Non-S&E <sup>2</sup> .....	252,719	265,670	278,023	289,558	302,928	310,997	320,202	334,257	344,727
U.S. citizens and permanent residents, total <sup>3</sup>									
Total, all fields .....	290,345	300,887	314,555	326,864	342,502	350,672	360,682	371,477	379,666
Science and engineering .....	55,890	55,779	58,177	61,265	65,201	67,110	68,151	66,609	65,748
Engineering .....	16,746	16,487	17,111	18,539	19,350	18,921	18,762	17,236	16,970
Sciences .....	39,144	39,292	41,066	42,726	45,851	48,189	49,389	49,373	48,778
Natural sciences .....	19,963	18,935	19,459	19,651	20,451	20,957	22,028	21,764	21,758
Physical science <sup>1</sup> .....	4,047	3,778	3,814	3,763	3,918	3,980	4,119	3,933	3,898
Mathematical science .....	2,649	2,573	2,907	2,946	3,013	3,034	2,956	2,789	2,671
Computer science .....	7,080	6,505	6,361	6,388	6,509	6,452	6,352	6,172	6,523
Biological science .....	4,164	4,057	4,021	3,949	4,284	4,543	5,230	5,589	5,392
Agricultural science .....	2,023	2,022	2,356	2,605	2,727	2,948	3,371	3,281	3,274
Social sciences .....	19,181	20,357	21,607	23,075	25,400	27,232	27,361	27,609	27,020
Social science .....	10,258	10,872	11,629	12,387	13,487	13,695	13,938	13,584	13,579
Psychology .....	8,923	9,485	9,978	10,688	11,913	13,537	13,423	14,025	13,441
Non-S&E <sup>2</sup> .....	234,455	245,108	256,378	265,599	277,301	283,562	292,531	304,868	313,918
White, non-Hispanics									
Total, all fields .....	236,874	247,524	257,062	265,668	273,913	277,437	282,713	288,353	291,962
Science and engineering .....	44,450	44,513	45,649	47,975	50,711	51,417	51,791	50,288	49,047
Engineering .....	12,859	12,635	12,752	13,920	14,469	13,821	13,573	12,490	12,079
Sciences .....	31,591	31,878	32,897	34,055	36,242	37,596	38,218	37,798	36,968
Natural sciences .....	15,742	15,005	15,136	15,322	15,524	15,789	16,672	16,347	16,134
Physical science <sup>1</sup> .....	3,401	3,129	3,067	3,078	3,145	3,179	3,326	3,173	3,129
Mathematical science .....	2,169	2,068	2,336	2,354	2,379	2,342	2,227	2,145	2,036
Computer science .....	4,851	4,637	4,407	4,464	4,286	4,205	4,113	3,868	3,976
Biological science .....	3,501	3,353	3,251	3,144	3,453	3,589	4,080	4,342	4,156
Agricultural science .....	1,820	1,818	2,075	2,282	2,261	2,474	2,926	2,819	2,837
Social sciences .....	15,849	16,873	17,761	18,733	20,718	21,807	21,546	21,451	20,834
Social science .....	8,360	8,900	9,523	9,923	10,758	10,700	10,807	10,350	10,413
Psychology .....	7,489	7,973	8,238	8,810	9,960	11,107	10,739	11,101	10,421
Non-S&E <sup>2</sup> .....	192,424	203,011	211,413	217,693	223,202	226,020	230,922	238,065	242,915

See explanatory information and SOURCE at end of table.

**Table 7. Number of earned master's degrees, by field and by citizenship and race/ethnicity of recipient: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Asians									
Total, all fields .....	9,994	11,070	12,293	13,169	14,559	15,906	17,281	17,912	19,936
Science and engineering .....	4,055	4,310	4,763	4,846	5,422	5,683	5,942	5,845	6,178
Engineering .....	1,863	2,008	2,223	2,260	2,443	2,572	2,621	2,319	2,450
Sciences .....	2,192	2,302	2,540	2,586	2,979	3,111	3,321	3,526	3,728
Natural sciences .....	1,629	1,735	1,916	1,918	2,159	2,280	2,405	2,487	2,679
Physical science <sup>1</sup> .....	234	251	295	249	284	288	304	308	278
Mathematical science .....	184	189	201	197	233	239	235	248	215
Computer science .....	941	1,014	1,105	1,106	1,228	1,239	1,237	1,268	1,527
Biological science .....	225	231	264	305	332	417	519	558	576
Agricultural science .....	45	50	51	61	82	97	110	105	83
Social sciences .....	563	567	624	668	820	831	916	1,039	1,049
Social science .....	404	397	441	477	550	533	586	665	655
Psychology .....	159	170	183	191	270	298	330	374	394
Non-S&E <sup>2</sup> .....	5,939	6,760	7,530	8,323	9,137	10,223	11,339	12,067	13,758
Underrepresented minorities, total									
Total, all fields .....	24,018	26,666	28,904	31,612	35,731	38,401	41,675	45,152	47,983
Science and engineering .....	3,615	4,026	4,360	4,899	5,636	6,223	6,552	7,031	7,176
Engineering .....	868	906	996	1,195	1,368	1,419	1,478	1,492	1,575
Sciences .....	2,747	3,120	3,364	3,704	4,268	4,804	5,074	5,539	5,601
Natural sciences .....	1,002	1,195	1,258	1,358	1,569	1,625	1,680	1,826	1,787
Physical science <sup>1</sup> .....	194	182	209	231	257	295	253	299	319
Mathematical science .....	127	194	147	184	190	237	248	242	252
Computer science .....	357	425	480	484	552	561	576	599	583
Biological science .....	244	286	307	312	297	349	406	467	399
Agricultural science .....	80	108	115	147	273	183	197	219	234
Social sciences .....	1,745	1,925	2,106	2,346	2,699	3,179	3,394	3,713	3,814
Social science .....	868	1,031	1,118	1,282	1,443	1,575	1,658	1,719	1,778
Psychology .....	877	894	988	1,064	1,256	1,604	1,736	1,994	2,036
Non-S&E <sup>2</sup> .....	20,403	22,640	24,544	26,713	30,095	32,178	35,123	38,121	40,807
Black, non-Hispanics									
Total, all fields .....	14,473	15,857	17,420	18,897	20,936	22,954	24,588	26,948	28,616
Science and engineering .....	1,847	2,090	2,356	2,554	2,849	3,339	3,518	3,817	3,756
Engineering .....	387	398	466	564	589	665	674	674	714
Sciences .....	1,460	1,692	1,890	1,990	2,260	2,674	2,844	3,143	3,042
Natural sciences .....	527	644	699	716	821	881	932	1,010	957
Physical science <sup>1</sup> .....	87	73	98	105	127	147	116	144	146
Mathematical science .....	70	100	77	98	109	151	151	157	150
Computer science .....	232	283	316	308	365	347	379	377	376
Biological science .....	110	137	149	135	142	162	198	236	190
Agricultural science .....	28	51	59	70	78	74	88	96	95
Social sciences .....	933	1,048	1,191	1,274	1,439	1,793	1,912	2,133	2,085
Social science .....	462	594	660	730	803	930	965	1,010	1,012
Psychology .....	471	454	531	544	636	863	947	1,123	1,073
Non-S&E <sup>2</sup> .....	12,626	13,767	15,064	16,343	18,087	19,615	21,070	23,131	24,860

See explanatory information and SOURCE at end of table.

**Table 7. Number of earned master's degrees, by field and by citizenship and race/ethnicity of recipient: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Hispanics									
Total, all fields .....	8,495	9,684	10,256	11,371	13,177	13,905	15,394	16,360	17,416
Science and engineering .....	1,587	1,736	1,806	2,092	2,514	2,585	2,730	2,882	3,071
Engineering .....	446	468	488	581	719	711	748	765	807
Sciences .....	1,141	1,268	1,318	1,511	1,795	1,874	1,982	2,117	2,264
Natural sciences .....	431	494	503	574	680	665	677	720	737
Physical science <sup>1</sup> .....	98	96	93	114	114	129	127	139	149
Mathematical science .....	51	85	66	78	75	75	91	71	91
Computer science .....	118	128	149	162	169	198	173	197	193
Biological science .....	120	136	146	151	138	167	191	208	188
Agricultural science .....	44	49	49	69	184	96	95	105	116
Social sciences .....	710	774	815	937	1,115	1,209	1,305	1,397	1,527
Social science .....	341	383	396	474	557	553	596	626	676
Psychology .....	369	391	419	463	558	656	709	771	851
Non-S&E <sup>2</sup> .....	6,908	7,948	8,450	9,279	10,663	11,320	12,664	13,478	14,345
American Indians or Alaskan Natives									
Total, all fields .....	1,050	1,125	1,228	1,344	1,618	1,542	1,693	1,844	1,951
Science and engineering .....	181	200	198	253	273	299	304	332	349
Engineering .....	35	40	42	50	60	43	56	53	54
Sciences .....	146	160	156	203	213	256	248	279	295
Natural sciences .....	44	57	56	68	68	79	71	96	93
Physical science <sup>1</sup> .....	9	13	18	12	16	19	10	16	24
Mathematical science .....	6	9	4	8	6	11	6	14	11
Computer science .....	7	14	15	14	18	16	24	25	14
Biological science .....	14	13	12	26	17	20	17	23	21
Agricultural science .....	8	8	7	8	11	13	14	18	23
Social sciences .....	102	103	100	135	145	177	177	183	202
Social science .....	65	54	62	78	83	92	97	83	90
Psychology .....	37	49	38	57	62	85	80	100	112
Non-S&E <sup>2</sup> .....	869	925	1,030	1,091	1,345	1,243	1,389	1,512	1,602
U.S. citizens and permanent residents, unknown race/ethnicity									
Total, all fields .....	19,459	15,627	16,296	16,415	18,299	18,928	19,013	20,060	19,785
Science and engineering .....	3,770	2,930	3,405	3,545	3,432	3,787	3,866	3,445	3,347
Engineering .....	1,156	938	1,140	1,164	1,070	1,109	1,090	935	866
Sciences .....	2,614	1,992	2,265	2,381	2,362	2,678	2,776	2,510	2,481
Natural sciences .....	1,590	1,000	1,149	1,053	1,199	1,263	1,271	1,104	1,158
Physical science <sup>1</sup> .....	218	216	243	205	232	218	236	153	172
Mathematical science .....	169	122	223	211	211	216	246	154	168
Computer science .....	931	429	369	334	443	447	426	437	437
Biological science .....	194	187	199	188	202	188	225	222	261
Agricultural science .....	78	46	115	115	111	194	138	138	120
Social sciences .....	1,024	992	1,116	1,328	1,163	1,415	1,505	1,406	1,323
Social science .....	626	544	547	705	736	887	887	850	733
Psychology .....	398	448	569	623	427	528	618	556	590
Non-S&E <sup>2</sup> .....	15,689	12,697	12,891	12,870	14,867	15,141	15,147	16,615	16,438

See explanatory information and SOURCE at end of table.

**Table 7. Number of earned master's degrees, by field and by citizenship and race/ethnicity of recipient: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
	Nonresident aliens <sup>4</sup>								
Total, all fields .....	34,602	37,611	39,652	44,109	46,506	48,756	48,250	49,477	52,205
Science and engineering .....	16,338	17,049	18,007	20,150	20,879	21,321	20,579	20,088	21,396
Engineering .....	7,239	7,520	7,899	9,119	9,357	9,696	8,995	8,634	9,158
Sciences .....	9,099	9,529	10,108	11,031	11,522	11,625	11,584	11,454	12,238
Natural sciences .....	6,330	6,734	7,316	8,062	8,418	8,335	8,325	8,155	8,774
Physical science <sup>1</sup> .....	1,364	1,504	1,538	1,602	1,770	1,755	1,735	1,646	1,500
Mathematical science .....	1,035	1,059	1,112	1,138	1,095	1,156	1,081	1,001	1,029
Computer science .....	2,563	2,819	3,169	3,779	3,912	3,880	3,871	3,935	4,747
Biological science .....	729	749	795	849	933	880	977	908	891
Agricultural science .....	639	603	702	694	708	664	661	665	607
Social sciences .....	2,769	2,795	2,792	2,969	3,104	3,290	3,259	3,299	3,464
Social science .....	2,384	2,478	2,490	2,637	2,743	2,806	2,820	2,882	2,995
Psychology .....	385	317	302	332	361	484	439	417	469
Non-S&E <sup>2</sup> .....	18,264	20,562	21,645	23,959	25,627	27,435	27,671	29,389	30,809

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and oceanographic sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

<sup>3</sup> Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

<sup>4</sup> Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

**NOTES:** Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

See section C for specific fields included in each category.

**SOURCE:** Tabulated by National Science Foundation/Division of Science Resources Studies; data from Department of Education/National Center for Education Statistics: Integrated Postsecondary Education Data System Completions Survey

**Table 8. Number of earned master's degrees, by field and by citizenship and race/ethnicity of male recipients: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total									
Total, all fields .....	154,025	156,895	162,299	169,753	176,762	179,198	180,360	181,457	185,061
Science and engineering .....	48,424	47,748	49,768	53,102	55,461	55,803	54,928	52,181	52,219
Engineering .....	20,717	20,650	21,345	23,565	24,286	23,986	23,005	21,176	20,970
Sciences .....	27,707	27,098	28,423	29,537	31,175	31,817	31,923	31,005	31,249
Natural sciences .....	17,258	16,530	17,480	18,076	18,813	18,926	19,185	18,551	18,834
Physical science <sup>1</sup> .....	3,981	3,825	3,895	3,803	4,030	4,000	3,968	3,758	3,464
Mathematical science .....	2,208	2,146	2,457	2,468	2,541	2,549	2,468	2,245	2,207
Computer science .....	6,968	6,563	6,884	7,411	7,727	7,630	7,500	7,252	8,000
Biological science .....	2,393	2,315	2,316	2,365	2,475	2,616	2,925	3,048	2,994
Agricultural science .....	1,708	1,681	1,928	2,029	2,040	2,131	2,324	2,248	2,169
Social sciences .....	10,449	10,568	10,943	11,461	12,362	12,891	12,738	12,454	12,415
Social science .....	7,424	7,574	7,939	8,419	8,945	8,981	8,910	8,585	8,680
Psychology .....	3,025	2,994	3,004	3,042	3,417	3,910	3,828	3,869	3,735
Non-S&E <sup>2</sup> .....	105,601	109,147	112,531	116,651	121,301	123,395	125,432	129,276	132,842
U.S. citizens and permanent residents, total <sup>3</sup>									
Total, all fields .....	130,326	131,745	136,062	140,932	146,621	148,039	150,310	151,256	153,581
Science and engineering .....	35,722	34,667	36,063	37,737	39,700	39,784	39,968	37,795	37,164
Engineering .....	14,174	13,977	14,350	15,542	16,140	15,624	15,402	13,990	13,535
Sciences .....	21,548	20,690	21,713	22,195	23,560	24,160	24,566	23,805	23,629
Natural sciences .....	12,819	11,839	12,393	12,504	12,985	13,134	13,545	13,085	13,061
Physical science <sup>1</sup> .....	2,953	2,755	2,784	2,685	2,794	2,778	2,781	2,618	2,483
Mathematical science .....	1,559	1,463	1,745	1,717	1,803	1,765	1,758	1,582	1,542
Computer science .....	5,035	4,419	4,504	4,600	4,779	4,725	4,613	4,416	4,628
Biological science .....	2,014	1,945	1,931	1,959	2,013	2,164	2,470	2,638	2,602
Agricultural science .....	1,258	1,257	1,429	1,543	1,596	1,702	1,923	1,831	1,806
Social sciences .....	8,729	8,851	9,320	9,691	10,575	11,026	11,021	10,720	10,568
Social science .....	5,840	5,961	6,411	6,760	7,288	7,264	7,317	6,978	6,949
Psychology .....	2,889	2,890	2,909	2,931	3,287	3,762	3,704	3,742	3,619
Non-S&E <sup>2</sup> .....	94,604	97,078	99,999	103,195	106,921	108,255	110,342	113,461	116,417
White, non-Hispanics									
Total, all fields .....	106,075	107,917	110,797	113,717	116,758	116,655	117,559	117,942	118,464
Science and engineering .....	28,250	27,634	28,113	29,493	30,846	30,464	30,591	28,930	28,066
Engineering .....	10,922	10,742	10,775	11,777	12,232	11,581	11,383	10,385	9,862
Sciences .....	17,328	16,892	17,338	17,716	18,614	18,883	19,208	18,545	18,204
Natural sciences .....	10,116	9,491	9,675	9,837	9,964	10,031	10,429	10,104	9,877
Physical science <sup>1</sup> .....	2,518	2,299	2,234	2,229	2,252	2,256	2,288	2,172	2,044
Mathematical science .....	1,275	1,169	1,389	1,332	1,420	1,354	1,326	1,239	1,201
Computer science .....	3,474	3,260	3,236	3,326	3,309	3,231	3,170	2,978	3,040
Biological science .....	1,711	1,629	1,566	1,593	1,643	1,740	1,958	2,108	2,008
Agricultural science .....	1,138	1,134	1,250	1,357	1,340	1,450	1,687	1,607	1,584
Social sciences .....	7,212	7,401	7,663	7,879	8,650	8,852	8,779	8,441	8,327
Social science .....	4,781	4,981	5,276	5,453	5,880	5,750	5,758	5,428	5,457
Psychology .....	2,431	2,420	2,387	2,426	2,770	3,102	3,021	3,013	2,870
Non-S&E <sup>2</sup> .....	77,825	80,283	82,684	84,224	85,912	86,191	86,968	89,012	90,398

See explanatory information and SOURCE at end of table.



**Table 8. Number of earned master's degrees, by field and by citizenship and race/ethnicity of male recipients: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Asians									
Total, all fields .....	5,670	6,220	6,823	7,125	7,791	8,385	8,877	8,585	9,638
Science and engineering .....	2,799	2,959	3,276	3,237	3,561	3,733	3,726	3,453	3,707
Engineering .....	1,557	1,685	1,816	1,819	1,932	2,023	2,000	1,758	1,823
Sciences .....	1,242	1,274	1,460	1,418	1,629	1,710	1,726	1,695	1,884
Natural sciences .....	976	1,031	1,169	1,149	1,279	1,359	1,361	1,324	1,503
Physical science <sup>1</sup> .....	140	165	206	150	182	187	168	168	150
Mathematical science .....	106	108	103	121	126	134	132	125	111
Computer science .....	609	627	705	710	785	785	775	755	909
Biological science .....	97	104	125	136	151	209	237	244	290
Agricultural science .....	24	27	30	32	35	44	49	32	43
Social sciences .....	266	243	291	269	350	351	365	371	381
Social science .....	224	196	229	219	276	272	287	285	288
Psychology .....	42	47	62	50	74	79	78	86	93
Non-S&E <sup>2</sup> .....	2,871	3,261	3,547	3,888	4,230	4,652	5,151	5,132	5,931
Underrepresented minorities, total									
Total, all fields .....	9,321	10,207	10,676	11,903	13,144	13,984	14,735	15,607	16,694
Science and engineering .....	2,005	2,129	2,340	2,637	2,964	3,143	3,197	3,370	3,418
Engineering .....	687	711	775	924	1,052	1,082	1,095	1,084	1,145
Sciences .....	1,318	1,418	1,565	1,713	1,912	2,061	2,102	2,286	2,273
Natural sciences .....	610	664	728	764	899	905	912	975	952
Physical science <sup>1</sup> .....	130	124	144	142	167	185	145	171	181
Mathematical science .....	74	112	92	102	111	122	140	135	126
Computer science .....	238	244	283	308	337	361	347	365	363
Biological science .....	120	116	137	132	125	136	170	187	173
Agricultural science .....	48	68	72	80	159	101	110	117	109
Social sciences .....	708	754	837	949	1,013	1,156	1,190	1,311	1,321
Social science .....	429	482	556	672	692	734	749	809	806
Psychology .....	279	272	281	277	321	422	441	502	515
Non-S&E <sup>2</sup> .....	7,316	8,078	8,336	9,266	10,180	10,841	11,538	12,237	13,276
Black, non-Hispanics									
Total, all fields .....	5,169	5,619	5,794	6,472	7,007	7,636	7,998	8,444	9,107
Science and engineering .....	950	1,028	1,166	1,253	1,376	1,534	1,565	1,617	1,646
Engineering .....	287	299	332	407	422	464	464	449	470
Sciences .....	663	729	834	846	954	1,070	1,101	1,168	1,176
Natural sciences .....	307	338	382	386	435	434	467	484	485
Physical science <sup>1</sup> .....	61	43	66	58	74	86	59	74	81
Mathematical science .....	37	53	44	48	62	64	78	77	71
Computer science .....	140	150	175	193	205	199	205	208	229
Biological science .....	51	58	61	47	48	50	76	69	68
Agricultural science .....	18	34	36	40	46	35	49	56	36
Social sciences .....	356	391	452	460	519	636	634	684	691
Social science .....	223	262	315	345	358	418	391	426	431
Psychology .....	133	129	137	115	161	218	243	258	260
Non-S&E <sup>2</sup> .....	4,219	4,591	4,628	5,219	5,631	6,102	6,433	6,827	7,461

See explanatory information and SOURCE at end of table.

**Table 8. Number of earned master's degrees, by field and by citizenship and race/ethnicity of male recipients: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Hispanics									
Total, all fields .....	3,713	4,124	4,381	4,875	5,483	5,725	6,072	6,466	6,848
Science and engineering .....	959	992	1,066	1,255	1,427	1,458	1,478	1,576	1,596
Engineering .....	373	378	408	480	582	578	580	589	629
Sciences .....	586	614	658	775	845	880	898	987	967
Natural sciences .....	275	294	309	341	414	423	402	435	415
Physical science <sup>1</sup> .....	63	73	64	76	80	88	80	86	87
Mathematical science .....	33	52	47	50	44	53	57	50	51
Computer science .....	93	84	98	104	120	151	125	141	123
Biological science .....	61	54	69	76	65	75	85	107	96
Agricultural science .....	25	31	31	35	105	56	55	51	58
Social sciences .....	311	320	349	434	431	457	496	552	552
Social science .....	178	196	218	282	290	283	320	344	333
Psychology .....	133	124	131	152	141	174	176	208	219
Non-S&E <sup>2</sup> .....	2,754	3,132	3,315	3,620	4,056	4,267	4,594	4,890	5,252
American Indians or Alaskan Natives									
Total, all fields .....	439	464	501	556	654	623	665	697	739
Science and engineering .....	96	109	108	129	161	151	154	177	176
Engineering .....	27	34	35	37	48	40	51	46	46
Sciences .....	69	75	73	92	113	111	103	131	130
Natural sciences .....	28	32	37	37	50	48	43	56	52
Physical science <sup>1</sup> .....	6	8	14	8	13	11	6	11	13
Mathematical science .....	4	7	1	4	5	5	5	8	4
Computer science .....	5	10	10	11	12	11	17	16	11
Biological science .....	8	4	7	9	12	11	9	11	9
Agricultural science .....	5	3	5	5	8	10	6	10	15
Social sciences .....	41	43	36	55	63	63	60	75	78
Social science .....	28	24	23	45	44	33	38	39	42
Psychology .....	13	19	13	10	19	30	22	36	36
Non-S&E <sup>2</sup> .....	343	355	393	427	493	472	511	520	563
U.S. citizens and permanent residents, unknown race/ethnicity									
Total, all fields .....	9,260	7,401	7,766	8,187	8,928	9,015	9,139	9,122	8,785
Science and engineering .....	2,668	1,945	2,334	2,370	2,329	2,444	2,454	2,042	1,973
Engineering .....	1,008	839	984	1,022	924	938	924	763	705
Sciences .....	1,660	1,106	1,350	1,348	1,405	1,506	1,530	1,279	1,268
Natural sciences .....	1,117	653	821	754	843	839	843	682	729
Physical science <sup>1</sup> .....	165	167	200	164	193	150	180	107	108
Mathematical science .....	104	74	161	162	146	155	160	83	104
Computer science .....	714	288	280	256	348	348	321	318	316
Biological science .....	86	96	103	98	94	79	105	99	131
Agricultural science .....	48	28	77	74	62	107	77	75	70
Social sciences .....	543	453	529	594	562	667	687	597	539
Social science .....	406	302	350	416	440	508	523	456	398
Psychology .....	137	151	179	178	122	159	164	141	141
Non-S&E <sup>2</sup> .....	6,592	5,456	5,432	5,817	6,599	6,571	6,685	7,080	6,812

See explanatory information and SOURCE at end of table.

**Table 8. Number of earned master's degrees, by field and by citizenship and race/ethnicity of male recipients: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
	Nonresident aliens <sup>4</sup>								
Total, all fields .....	23,699	25,150	26,237	28,821	30,141	31,159	30,050	30,201	31,480
Science and engineering .....	12,702	13,081	13,705	15,365	15,761	16,019	14,960	14,386	15,055
Engineering .....	6,543	6,673	6,995	8,023	8,146	8,362	7,603	7,186	7,435
Sciences .....	6,159	6,408	6,710	7,342	7,615	7,657	7,357	7,200	7,620
Natural sciences .....	4,439	4,691	5,087	5,572	5,828	5,792	5,640	5,466	5,773
Physical science <sup>1</sup> .....	1,028	1,070	1,111	1,118	1,236	1,222	1,187	1,140	981
Mathematical science .....	649	683	712	751	738	784	710	663	665
Computer science .....	1,933	2,144	2,380	2,811	2,948	2,905	2,887	2,836	3,372
Biological science .....	379	370	385	406	462	452	455	410	392
Agricultural science .....	450	424	499	486	444	429	401	417	363
Social sciences .....	1,720	1,717	1,623	1,770	1,787	1,865	1,717	1,734	1,847
Social science .....	1,584	1,613	1,528	1,659	1,657	1,717	1,593	1,607	1,731
Psychology .....	136	104	95	111	130	148	124	127	116
Non-S&E <sup>2</sup> .....	10,997	12,069	12,532	13,456	14,380	15,140	15,090	15,815	16,425

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and oceanographic sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

<sup>3</sup> Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

<sup>4</sup> Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

**NOTES:** Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

See section C for specific fields included in each category.

**SOURCE:** Tabulated by National Science Foundation/Division of Science Resources Studies; data from Department of Education/National Center for Education Statistics: Integrated Postsecondary Education Data System Completions Survey

**Table 9. Number of earned master's degrees, by field and by citizenship and race/ethnicity of female recipients: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total									
Total, all fields .....	170,922	181,603	191,908	201,220	212,246	220,230	228,572	239,497	246,810
Science and engineering .....	23,804	25,080	26,416	28,313	30,619	32,628	33,802	34,516	34,925
Engineering .....	3,268	3,357	3,665	4,093	4,421	4,631	4,752	4,694	5,158
Sciences .....	20,536	21,723	22,751	24,220	26,198	27,997	29,050	29,822	29,767
Natural sciences .....	9,035	9,139	9,295	9,637	10,056	10,366	11,168	11,368	11,698
Physical science <sup>1</sup> .....	1,430	1,457	1,457	1,562	1,658	1,735	1,886	1,821	1,934
Mathematical science .....	1,476	1,486	1,562	1,616	1,567	1,641	1,569	1,545	1,493
Computer science .....	2,675	2,761	2,646	2,756	2,694	2,702	2,723	2,855	3,270
Biological science .....	2,500	2,491	2,500	2,433	2,742	2,807	3,282	3,449	3,289
Agricultural science .....	954	944	1,130	1,270	1,395	1,481	1,708	1,698	1,712
Social sciences .....	11,501	12,584	13,456	14,583	16,142	17,631	17,882	18,454	18,069
Social science .....	5,218	5,776	6,180	6,605	7,285	7,520	7,848	7,881	7,894
Psychology .....	6,283	6,808	7,276	7,978	8,857	10,111	10,034	10,573	10,175
Non-S&E <sup>2</sup> .....	147,118	156,523	165,492	172,907	181,627	187,602	194,770	204,981	211,885
U.S. citizens and permanent residents, total <sup>3</sup>									
Total, all fields .....	160,019	169,142	178,493	185,932	195,881	202,633	210,372	220,221	226,085
Science and engineering .....	20,168	21,112	22,114	23,528	25,501	27,326	28,183	28,814	28,584
Engineering .....	2,572	2,510	2,761	2,997	3,210	3,297	3,360	3,246	3,435
Sciences .....	17,596	18,602	19,353	20,531	22,291	24,029	24,823	25,568	25,149
Natural sciences .....	7,144	7,096	7,066	7,147	7,466	7,823	8,483	8,679	8,697
Physical science <sup>1</sup> .....	1,094	1,023	1,030	1,078	1,124	1,202	1,338	1,315	1,415
Mathematical science .....	1,090	1,110	1,162	1,229	1,210	1,269	1,198	1,207	1,129
Computer science .....	2,045	2,086	1,857	1,788	1,730	1,727	1,739	1,756	1,895
Biological science .....	2,150	2,112	2,090	1,990	2,271	2,379	2,760	2,951	2,790
Agricultural science .....	765	765	927	1,062	1,131	1,246	1,448	1,450	1,468
Social sciences .....	10,452	11,506	12,287	13,384	14,825	16,206	16,340	16,889	16,452
Social science .....	4,418	4,911	5,218	5,627	6,199	6,431	6,621	6,606	6,630
Psychology .....	6,034	6,595	7,069	7,757	8,626	9,775	9,719	10,283	9,822
Non-S&E <sup>2</sup> .....	139,851	148,030	156,379	162,404	170,380	175,307	182,189	191,407	197,501
White, non-Hispanics									
Total, all fields .....	130,799	139,607	146,265	151,951	157,155	160,782	165,154	170,411	173,498
Science and engineering .....	16,200	16,879	17,536	18,482	19,865	20,953	21,200	21,358	20,981
Engineering .....	1,937	1,893	1,977	2,143	2,237	2,240	2,190	2,105	2,217
Sciences .....	14,263	14,986	15,559	16,339	17,628	18,713	19,010	19,253	18,764
Natural sciences .....	5,626	5,514	5,461	5,485	5,560	5,758	6,243	6,243	6,257
Physical science <sup>1</sup> .....	883	830	833	849	893	923	1,038	1,001	1,085
Mathematical science .....	894	899	947	1,022	959	988	901	906	835
Computer science .....	1,377	1,377	1,171	1,138	977	974	943	890	936
Biological science .....	1,790	1,724	1,685	1,551	1,810	1,849	2,122	2,234	2,148
Agricultural science .....	682	684	825	925	921	1,024	1,239	1,212	1,253
Social sciences .....	8,637	9,472	10,098	10,854	12,068	12,955	12,767	13,010	12,507
Social science .....	3,579	3,919	4,247	4,470	4,878	4,950	5,049	4,922	4,956
Psychology .....	5,058	5,553	5,851	6,384	7,190	8,005	7,718	8,088	7,551
Non-S&E <sup>2</sup> .....	114,599	122,728	128,729	133,469	137,290	139,829	143,954	149,053	152,517

See explanatory information and SOURCE at end of table.

**Table 9. Number of earned master's degrees, by field and by citizenship and race/ethnicity of female recipients: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Asians									
Total, all fields .....	4,324	4,850	5,470	6,044	6,768	7,521	8,404	9,327	10,298
Science and engineering .....	1,256	1,351	1,487	1,609	1,861	1,950	2,216	2,392	2,471
Engineering .....	306	323	407	441	511	549	621	561	627
Sciences .....	950	1,028	1,080	1,168	1,350	1,401	1,595	1,831	1,844
Natural sciences .....	653	704	747	769	880	921	1,044	1,163	1,176
Physical science <sup>1</sup> .....	94	86	89	99	102	101	136	140	128
Mathematical science .....	78	81	98	76	107	105	103	123	104
Computer science .....	332	387	400	396	443	454	462	513	618
Biological science .....	128	127	139	169	181	208	282	314	286
Agricultural science .....	21	23	21	29	47	53	61	73	40
Social sciences .....	297	324	333	399	470	480	551	668	668
Social science .....	180	201	212	258	274	261	299	380	367
Psychology .....	117	123	121	141	196	219	252	288	301
Non-S&E <sup>2</sup> .....	3,068	3,499	3,983	4,435	4,907	5,571	6,188	6,935	7,827
Underrepresented minorities, total									
Total, all fields .....	14,697	16,459	18,228	19,709	22,587	24,417	26,940	29,545	31,289
Science and engineering .....	1,610	1,897	2,020	2,262	2,672	3,080	3,355	3,661	3,758
Engineering .....	181	195	221	271	316	337	383	408	430
Sciences .....	1,429	1,702	1,799	1,991	2,356	2,743	2,972	3,253	3,328
Natural sciences .....	392	531	530	594	670	720	768	851	835
Physical science <sup>1</sup> .....	64	58	65	89	90	110	108	128	138
Mathematical science .....	53	82	55	82	79	115	108	107	126
Computer science .....	119	181	197	176	215	200	229	234	220
Biological science .....	124	170	170	180	172	213	236	280	226
Agricultural science .....	32	40	43	67	114	82	87	102	125
Social sciences .....	1,037	1,171	1,269	1,397	1,686	2,023	2,204	2,402	2,493
Social science .....	439	549	562	610	751	841	909	910	972
Psychology .....	598	622	707	787	935	1,182	1,295	1,492	1,521
Non-S&E <sup>2</sup> .....	13,087	14,562	16,208	17,447	19,915	21,337	23,585	25,884	27,531
Black, non-Hispanics									
Total, all fields .....	9,304	10,238	11,626	12,425	13,929	15,318	16,590	18,504	19,509
Science and engineering .....	897	1,062	1,190	1,301	1,473	1,805	1,953	2,200	2,110
Engineering .....	100	99	134	157	167	201	210	225	244
Sciences .....	797	963	1,056	1,144	1,306	1,604	1,743	1,975	1,866
Natural sciences .....	220	306	317	330	386	447	465	526	472
Physical science <sup>1</sup> .....	26	30	32	47	53	61	57	70	65
Mathematical science .....	33	47	33	50	47	87	73	80	79
Computer science .....	92	133	141	115	160	148	174	169	147
Biological science .....	59	79	88	88	94	112	122	167	122
Agricultural science .....	10	17	23	30	32	39	39	40	59
Social sciences .....	577	657	739	814	920	1,157	1,278	1,449	1,394
Social science .....	239	332	345	385	445	512	574	584	581
Psychology .....	338	325	394	429	475	645	704	865	813
Non-S&E <sup>2</sup> .....	8,407	9,176	10,436	11,124	12,456	13,513	14,637	16,304	17,399

See explanatory information and SOURCE at end of table.

**Table 9. Number of earned master's degrees, by field and by citizenship and race/ethnicity of female recipients: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Hispanics									
Total, all fields .....	4,782	5,560	5,875	6,496	7,694	8,180	9,322	9,894	10,568
Science and engineering .....	628	744	740	837	1,087	1,127	1,252	1,306	1,475
Engineering .....	73	90	80	101	137	133	168	176	178
Sciences .....	555	654	660	736	950	994	1,084	1,130	1,297
Natural sciences .....	156	200	194	233	266	242	275	285	322
Physical science <sup>1</sup> .....	35	23	29	38	34	41	47	53	62
Mathematical science .....	18	33	19	28	31	22	34	21	40
Computer science .....	25	44	51	58	49	47	48	56	70
Biological science .....	59	82	77	75	73	92	106	101	92
Agricultural science .....	19	18	18	34	79	40	40	54	58
Social sciences .....	399	454	466	503	684	752	809	845	975
Social science .....	163	187	178	192	267	270	276	282	343
Psychology .....	236	267	288	311	417	482	533	563	632
Non-S&E <sup>2</sup> .....	4,154	4,816	5,135	5,659	6,607	7,053	8,070	8,588	9,093
American Indians or Alaskan Natives									
Total, all fields .....	611	661	727	788	964	919	1,028	1,147	1,212
Science and engineering .....	85	91	90	124	112	148	150	155	173
Engineering .....	8	6	7	13	12	3	5	7	8
Sciences .....	77	85	83	111	100	145	145	148	165
Natural sciences .....	16	25	19	31	18	31	28	40	41
Physical science <sup>1</sup> .....	3	5	4	4	3	8	4	5	11
Mathematical science .....	2	2	3	4	1	6	1	6	7
Computer science .....	2	4	5	3	6	5	7	9	3
Biological science .....	6	9	5	17	5	9	8	12	12
Agricultural science .....	3	5	2	3	3	3	8	8	8
Social sciences .....	61	60	64	80	82	114	117	108	124
Social science .....	37	30	39	33	39	59	59	44	48
Psychology .....	24	30	25	47	43	55	58	64	76
Non-S&E <sup>2</sup> .....	526	570	637	664	852	771	878	992	1,039
U.S. citizens and permanent residents, unknown race/ethnicity									
Total, all fields .....	10,199	8,226	8,530	8,228	9,371	9,913	9,874	10,938	11,000
Science and engineering .....	1,102	985	1,071	1,175	1,103	1,343	1,412	1,403	1,374
Engineering .....	148	99	156	142	146	171	166	172	161
Sciences .....	954	886	915	1,033	957	1,172	1,246	1,231	1,213
Natural sciences .....	473	347	328	299	356	424	428	422	429
Physical science <sup>1</sup> .....	53	49	43	41	39	68	56	46	64
Mathematical science .....	65	48	62	49	65	61	86	71	64
Computer science .....	217	141	89	78	95	99	105	119	121
Biological science .....	108	91	96	90	108	109	120	123	130
Agricultural science .....	30	18	38	41	49	87	61	63	50
Social sciences .....	481	539	587	734	601	748	818	809	784
Social science .....	220	242	197	289	296	379	364	394	335
Psychology .....	261	297	390	445	305	369	454	415	449
Non-S&E <sup>2</sup> .....	9,097	7,241	7,459	7,053	8,268	8,570	8,462	9,535	9,626

See explanatory information and SOURCE at end of table.

**Table 9. Number of earned master's degrees, by field and by citizenship and race/ethnicity of female recipients: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
	Nonresident aliens <sup>4</sup>								
Total, all fields .....	10,903	12,461	13,415	15,288	16,365	17,597	18,200	19,276	20,725
Science and engineering .....	3,636	3,968	4,302	4,785	5,118	5,302	5,619	5,702	6,341
Engineering .....	696	847	904	1,096	1,211	1,334	1,392	1,448	1,723
Sciences .....	2,940	3,121	3,398	3,689	3,907	3,968	4,227	4,254	4,618
Natural sciences .....	1,891	2,043	2,229	2,490	2,590	2,543	2,685	2,689	3,001
Physical science <sup>1</sup> .....	336	434	427	484	534	533	548	506	519
Mathematical science .....	386	376	400	387	357	372	371	338	364
Computer science .....	630	675	789	968	964	975	984	1,099	1,375
Biological science .....	350	379	410	443	471	428	522	498	499
Agricultural science .....	189	179	203	208	264	235	260	248	244
Social sciences .....	1,049	1,078	1,169	1,199	1,317	1,425	1,542	1,565	1,617
Social science .....	800	865	962	978	1,086	1,089	1,227	1,275	1,264
Psychology .....	249	213	207	221	231	336	315	290	353
Non-S&E <sup>2</sup> .....	7,267	8,493	9,113	10,503	11,247	12,295	12,581	13,574	14,384

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and oceanographic sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

<sup>3</sup> Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

<sup>4</sup> Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

**NOTES:** Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

See section C for specific fields included in each category.

**SOURCE:** Tabulated by National Science Foundation/Division of Science Resources Studies; data from Department of Education/National Center for Education Statistics: Integrated Postsecondary Education Data System Completions Survey

**Table 10. Number of earned doctoral degrees, by field and by citizenship and race/ethnicity of recipient: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total									
Total, all fields .....	36,067	37,534	38,890	39,801	41,034	41,743	42,414	42,555	42,683
Science and engineering .....	22,868	24,023	24,675	25,443	26,205	26,535	27,229	27,245	27,309
Engineering .....	4,894	5,214	5,438	5,698	5,822	6,008	6,305	6,114	5,930
Sciences .....	17,974	18,809	19,237	19,745	20,383	20,527	20,924	21,131	21,379
Natural sciences .....	11,361	12,003	12,364	12,556	13,103	13,220	13,434	13,449	13,636
Physical science <sup>1</sup> .....	4,262	4,441	4,575	4,470	4,801	4,621	4,631	4,646	4,643
Mathematical science .....	892	1,039	1,058	1,146	1,118	1,190	1,122	1,125	1,177
Computer science .....	705	800	869	880	903	997	921	910	925
Biological science .....	4,328	4,650	4,799	5,092	5,203	5,376	5,723	5,786	5,854
Agricultural science .....	1,174	1,073	1,063	968	1,078	1,036	1,037	982	1,037
Social sciences .....	6,613	6,806	6,873	7,189	7,280	7,307	7,490	7,682	7,743
Social science .....	3,332	3,556	3,610	3,769	3,901	3,878	3,999	4,111	4,058
Psychology .....	3,281	3,250	3,263	3,420	3,379	3,429	3,491	3,571	3,685
Non-S&E <sup>2</sup> .....	13,199	13,511	14,215	14,358	14,829	15,208	15,185	15,310	15,374
U.S. citizens and permanent residents, total <sup>3</sup>									
Total, all fields .....	26,603	27,430	27,990	28,708	30,894	32,058	31,518	31,086	31,166
Science and engineering .....	15,364	15,914	15,942	16,573	18,187	18,996	18,639	18,402	18,268
Engineering .....	2,346	2,474	2,520	2,697	3,053	3,342	3,387	3,329	3,045
Sciences .....	13,018	13,440	13,422	13,876	15,134	15,654	15,252	15,073	15,223
Natural sciences .....	7,768	8,032	8,035	8,191	9,306	9,749	9,230	9,059	9,100
Physical science <sup>1</sup> .....	2,876	2,918	2,898	2,834	3,402	3,435	3,127	3,103	3,017
Mathematical science .....	422	518	507	590	657	771	648	630	669
Computer science .....	403	451	489	509	543	616	514	521	558
Biological science .....	3,380	3,525	3,568	3,752	4,088	4,329	4,365	4,254	4,313
Agricultural science .....	687	620	573	506	616	598	576	551	543
Social sciences .....	5,250	5,408	5,387	5,685	5,828	5,905	6,022	6,014	6,123
Social science .....	2,258	2,390	2,401	2,524	2,692	2,721	2,794	2,876	2,842
Psychology .....	2,992	3,018	2,986	3,161	3,136	3,184	3,228	3,138	3,281
Non-S&E <sup>2</sup> .....	11,239	11,516	12,048	12,135	12,707	13,062	12,879	12,684	12,898
White, non-Hispanics									
Total, all fields .....	22,878	23,186	23,626	24,052	24,595	24,721	24,691	23,958	24,313
Science and engineering .....	13,170	13,324	13,327	13,737	13,890	13,906	14,008	13,829	14,026
Engineering .....	1,840	1,837	1,880	2,025	2,020	2,093	2,262	2,287	2,171
Sciences .....	11,330	11,487	11,447	11,712	11,870	11,813	11,746	11,542	11,855
Natural sciences .....	6,789	6,886	6,823	6,836	7,003	6,966	6,790	6,779	6,984
Physical science <sup>1</sup> .....	2,502	2,526	2,459	2,366	2,529	2,388	2,336	2,370	2,378
Mathematical science .....	372	419	425	476	479	535	479	479	526
Computer science .....	339	355	378	410	401	452	356	361	411
Biological science .....	2,975	3,041	3,068	3,146	3,107	3,118	3,175	3,158	3,251
Agricultural science .....	601	545	493	438	487	473	444	411	418
Social sciences .....	4,541	4,601	4,624	4,876	4,867	4,847	4,956	4,763	4,871
Social science .....	1,893	1,949	1,988	2,069	2,137	2,120	2,212	2,238	2,214
Psychology .....	2,648	2,652	2,636	2,807	2,730	2,727	2,744	2,525	2,657
Non-S&E <sup>2</sup> .....	9,708	9,862	10,299	10,315	10,705	10,815	10,683	10,129	10,287

See explanatory information and SOURCE at end of table.



**Table 10. Number of earned doctoral degrees, by field and by citizenship and race/ethnicity of recipient: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Asians									
Total, all fields .....	1,306	1,531	1,764	2,017	3,546	4,309	3,699	3,122	2,729
Science and engineering .....	1,009	1,180	1,345	1,610	2,989	3,669	3,095	2,539	2,148
Engineering .....	359	405	451	527	867	1,033	897	707	556
Sciences .....	650	775	894	1,083	2,122	2,636	2,198	1,832	1,592
Natural sciences .....	486	597	698	842	1,740	2,202	1,802	1,466	1,255
Physical science <sup>1</sup> .....	179	189	254	287	689	855	580	474	385
Mathematical science .....	27	57	52	79	142	208	140	98	71
Computer science .....	48	66	86	77	117	137	111	108	91
Biological science .....	200	261	269	370	720	924	890	723	661
Agricultural science .....	32	24	37	29	72	78	81	63	47
Social sciences .....	164	178	196	241	382	434	396	366	337
Social science .....	111	119	137	168	273	312	272	239	222
Psychology .....	53	59	59	73	109	122	124	127	115
Non-S&E <sup>2</sup> .....	297	351	419	407	557	640	604	583	581
Underrepresented minorities, total									
Total, all fields .....	1,984	2,166	2,174	2,373	2,452	2,677	2,747	2,845	3,111
Science and engineering .....	885	1,013	990	1,054	1,112	1,191	1,291	1,358	1,495
Engineering .....	98	122	131	118	126	156	186	210	207
Sciences .....	787	891	859	936	986	1,035	1,105	1,148	1,288
Natural sciences .....	329	375	374	418	475	466	497	527	579
Physical science <sup>1</sup> .....	122	129	132	146	157	139	157	156	148
Mathematical science .....	15	20	18	25	26	22	19	28	46
Computer science .....	6	21	15	14	18	17	32	22	31
Biological science .....	144	169	177	196	226	248	246	264	291
Agricultural science .....	42	36	32	37	48	40	43	57	63
Social sciences .....	458	516	485	518	511	569	608	621	709
Social science .....	215	251	231	253	242	259	263	276	315
Psychology .....	243	265	254	265	269	310	345	345	394
Non-S&E <sup>2</sup> .....	1,099	1,153	1,184	1,319	1,340	1,486	1,456	1,487	1,616
Black, non-Hispanics									
Total, all fields .....	1,050	1,166	1,116	1,280	1,279	1,475	1,456	1,488	1,603
Science and engineering .....	374	464	408	469	500	560	576	623	646
Engineering .....	40	55	49	50	54	71	74	98	84
Sciences .....	334	409	359	419	446	489	502	525	562
Natural sciences .....	104	135	116	150	174	187	207	207	224
Physical science <sup>1</sup> .....	33	35	31	45	52	46	64	60	65
Mathematical science .....	4	11	4	8	11	5	8	7	16
Computer science .....	1	8	5	6	10	11	12	4	14
Biological science .....	51	64	62	75	79	108	98	111	110
Agricultural science .....	15	17	14	16	22	17	25	25	19
Social sciences .....	230	274	243	269	272	302	295	318	338
Social science .....	115	144	137	150	148	151	141	162	182
Psychology .....	115	130	106	119	124	151	154	156	156
Non-S&E <sup>2</sup> .....	676	702	708	811	779	915	880	865	957

See explanatory information and SOURCE at end of table.

**Table 10. Number of earned doctoral degrees, by field and by citizenship and race/ethnicity of recipient: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Hispanics									
Total, all fields .....	837	868	909	973	1,030	1,054	1,103	1,191	1,319
Science and engineering .....	468	493	513	542	548	563	618	656	753
Engineering .....	54	61	71	66	66	76	97	95	110
Sciences .....	414	432	442	476	482	487	521	561	643
Natural sciences .....	212	212	228	249	274	253	251	294	315
Physical science <sup>1</sup> .....	85	81	88	92	98	86	85	84	70
Mathematical science .....	10	9	12	16	13	15	10	20	27
Computer science .....	5	12	8	7	7	6	16	17	14
Biological science .....	89	95	102	114	131	125	128	146	169
Agricultural science .....	23	15	18	20	25	21	12	27	35
Social sciences .....	202	220	214	227	208	234	270	267	328
Social science .....	93	98	81	96	75	89	97	96	121
Psychology .....	109	122	133	131	133	145	173	171	207
Non-S&E <sup>2</sup> .....	369	375	396	431	482	491	485	535	566
American Indians or Alaskan Natives									
Total, all fields .....	97	132	149	120	143	148	188	166	189
Science and engineering .....	43	56	69	43	64	68	97	79	96
Engineering .....	4	6	11	2	6	9	15	17	13
Sciences .....	39	50	58	41	58	59	82	62	83
Natural sciences .....	13	28	30	19	27	26	39	26	40
Physical science <sup>1</sup> .....	4	13	13	9	7	7	8	12	13
Mathematical science .....	1	0	2	1	2	2	1	1	3
Computer science .....	0	1	2	1	1	0	4	1	3
Biological science .....	4	10	13	7	16	15	20	7	12
Agricultural science .....	4	4	0	1	1	2	6	5	9
Social sciences .....	26	22	28	22	31	33	43	36	43
Social science .....	7	9	13	7	19	19	25	18	12
Psychology .....	19	13	15	15	12	14	18	18	31
Non-S&E <sup>2</sup> .....	54	76	80	77	79	80	91	87	93
U.S. citizens and permanent residents, unknown race/ethnicity									
Total, all fields .....	435	547	426	266	301	351	381	1,161	1,013
Science and engineering .....	300	397	280	172	196	230	245	676	599
Engineering .....	49	110	58	27	40	60	42	125	111
Sciences .....	251	287	222	145	156	170	203	551	488
Natural sciences .....	164	174	140	95	88	115	141	287	282
Physical science <sup>1</sup> .....	73	74	53	35	27	53	54	103	106
Mathematical science .....	8	22	12	10	10	6	10	25	26
Computer science .....	10	9	10	8	7	10	15	30	25
Biological science .....	61	54	54	40	35	39	54	109	110
Agricultural science .....	12	15	11	2	9	7	8	20	15
Social sciences .....	87	113	82	50	68	55	62	264	206
Social science .....	39	71	45	34	40	30	47	123	91
Psychology .....	48	42	37	16	28	25	15	141	115
Non-S&E <sup>2</sup> .....	135	150	146	94	105	121	136	485	414

See explanatory information and SOURCE at end of table.

**Table 10. Number of earned doctoral degrees, by field and by citizenship and race/ethnicity of recipient: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Nonresident aliens <sup>4</sup>									
Total, all fields .....	8,093	9,311	9,953	9,932	9,406	8,811	9,614	9,178	9,498
Science and engineering .....	6,571	7,641	8,092	8,113	7,521	6,994	7,806	7,498	7,779
Engineering .....	2,277	2,633	2,743	2,784	2,653	2,524	2,720	2,550	2,584
Sciences .....	4,294	5,008	5,349	5,329	4,868	4,470	5,086	4,948	5,195
Natural sciences .....	3,232	3,782	4,089	4,056	3,606	3,248	3,844	3,794	3,992
Physical science <sup>1</sup> .....	1,244	1,442	1,582	1,498	1,304	1,103	1,345	1,311	1,421
Mathematical science .....	424	506	511	517	448	382	442	442	447
Computer science .....	271	340	365	348	343	365	376	330	329
Biological science .....	853	1,059	1,159	1,246	1,058	969	1,240	1,320	1,333
Agricultural science .....	440	435	472	447	453	429	441	391	462
Social sciences .....	1,062	1,226	1,260	1,273	1,262	1,222	1,242	1,154	1,203
Social science .....	945	1,093	1,104	1,125	1,111	1,058	1,061	1,017	1,035
Psychology .....	117	133	156	148	151	164	181	137	168
Non-S&E <sup>2</sup> .....	1,522	1,670	1,861	1,819	1,885	1,817	1,808	1,680	1,719
Citizenship unknown									
Total, all fields .....	1,371	793	947	1,161	734	874	1,282	2,291	2,019
Science and engineering .....	933	468	641	757	497	545	784	1,345	1,262
Engineering .....	271	107	175	217	116	142	198	235	301
Sciences .....	662	361	466	540	381	403	586	1,110	961
Natural sciences .....	361	189	240	309	191	223	360	596	544
Physical science <sup>1</sup> .....	142	81	95	138	95	83	159	232	205
Mathematical science .....	46	15	40	39	13	37	32	53	61
Computer science .....	31	9	15	23	17	16	31	59	38
Biological science .....	95	66	72	94	57	78	118	212	208
Agricultural science .....	47	18	18	15	9	9	20	40	32
Social sciences .....	301	172	226	231	190	180	226	514	417
Social science .....	129	73	105	120	98	99	144	218	181
Psychology .....	172	99	121	111	92	81	82	296	236
Non-S&E <sup>2</sup> .....	438	325	306	404	237	329	498	946	757

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and oceanographic sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

<sup>3</sup> Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

<sup>4</sup> Nonresident aliens include foreign citizens on temporary visas only.

**NOTE:** See section C for specific fields included in each category.

**SOURCE:** Tabulated by National Science Foundation/Division of Science Resources Studies; data from NSF/SRS: Survey of Earned Doctorates

**Table 11. Number of earned doctoral degrees, by field and by citizenship and race/ethnicity of male recipients: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
	Total								
Total, all fields .....	22,960	23,525	24,235	24,384	25,059	25,159	25,274	24,944	24,659
Science and engineering .....	16,498	16,986	17,422	17,568	18,165	18,117	18,445	18,084	17,833
Engineering .....	4,479	4,703	4,860	5,097	5,150	5,270	5,485	5,313	5,118
Sciences .....	12,019	12,283	12,562	12,471	13,015	12,847	12,960	12,771	12,715
Natural sciences .....	8,430	8,804	8,950	8,834	9,307	9,215	9,280	9,126	9,149
Physical science <sup>1</sup> .....	3,460	3,565	3,586	3,482	3,763	3,552	3,582	3,554	3,475
Mathematical science .....	734	836	841	865	879	919	881	853	872
Computer science .....	595	679	747	737	762	808	776	744	763
Biological science .....	2,713	2,864	2,952	3,014	3,076	3,132	3,286	3,260	3,301
Agricultural science .....	928	860	824	736	827	804	755	715	738
Social sciences .....	3,589	3,479	3,612	3,637	3,708	3,632	3,680	3,645	3,566
Social science .....	2,221	2,230	2,284	2,315	2,435	2,386	2,520	2,480	2,356
Psychology .....	1,368	1,249	1,328	1,322	1,273	1,246	1,160	1,165	1,210
Non-S&E <sup>2</sup> .....	6,462	6,539	6,813	6,816	6,894	7,042	6,829	6,860	6,826
	U.S. citizens and permanent residents, total <sup>3</sup>								
Total, all fields .....	15,354	15,608	15,808	15,980	17,368	17,872	17,193	16,881	16,546
Science and engineering .....	10,182	10,314	10,363	10,543	11,692	12,082	11,676	11,392	11,076
Engineering .....	2,070	2,158	2,192	2,348	2,604	2,822	2,862	2,815	2,588
Sciences .....	8,112	8,156	8,171	8,195	9,088	9,260	8,814	8,577	8,488
Natural sciences .....	5,526	5,687	5,585	5,557	6,389	6,575	6,138	5,951	5,894
Physical science <sup>1</sup> .....	2,288	2,306	2,236	2,193	2,633	2,582	2,387	2,351	2,240
Mathematical science .....	329	406	390	425	506	588	503	453	470
Computer science .....	313	357	406	399	449	473	423	420	434
Biological science .....	2,068	2,135	2,130	2,168	2,345	2,469	2,424	2,332	2,390
Agricultural science .....	528	483	423	372	456	463	401	395	360
Social sciences .....	2,586	2,469	2,586	2,638	2,699	2,685	2,676	2,626	2,594
Social science .....	1,366	1,343	1,380	1,417	1,530	1,557	1,631	1,609	1,533
Psychology .....	1,220	1,126	1,206	1,221	1,169	1,128	1,045	1,017	1,061
Non-S&E <sup>2</sup> .....	5,172	5,294	5,445	5,437	5,676	5,790	5,517	5,489	5,470
	White, non-Hispanics								
Total, all fields .....	13,160	13,153	13,280	13,347	13,557	13,534	13,234	12,994	12,910
Science and engineering .....	8,648	8,585	8,624	8,724	8,732	8,683	8,653	8,559	8,530
Engineering .....	1,614	1,602	1,640	1,764	1,715	1,772	1,915	1,955	1,865
Sciences .....	7,034	6,983	6,984	6,960	7,017	6,911	6,738	6,604	6,665
Natural sciences .....	4,836	4,911	4,780	4,705	4,810	4,731	4,546	4,518	4,586
Physical science <sup>1</sup> .....	2,008	2,001	1,928	1,868	1,998	1,832	1,796	1,828	1,789
Mathematical science .....	293	335	332	352	361	409	374	344	376
Computer science .....	259	282	309	327	326	348	295	295	327
Biological science .....	1,821	1,871	1,847	1,835	1,758	1,773	1,774	1,758	1,816
Agricultural science .....	455	422	364	323	367	369	307	293	278
Social sciences .....	2,198	2,072	2,204	2,255	2,207	2,180	2,192	2,086	2,079
Social science .....	1,123	1,081	1,126	1,160	1,178	1,197	1,285	1,253	1,190
Psychology .....	1,075	991	1,078	1,095	1,029	983	907	833	889
Non-S&E <sup>2</sup> .....	4,512	4,568	4,656	4,623	4,825	4,851	4,581	4,435	4,380

See explanatory information and SOURCE at end of table.

**Table 11. Number of earned doctoral degrees, by field and by citizenship and race/ethnicity of male recipients: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Asians									
Total, all fields .....	908	971	1,135	1,284	2,467	2,865	2,402	1,890	1,635
Science and engineering .....	757	805	926	1,077	2,168	2,554	2,112	1,644	1,375
Engineering .....	326	356	390	466	747	863	763	588	455
Sciences .....	431	449	536	611	1,421	1,691	1,349	1,056	920
Natural sciences .....	336	372	433	500	1,214	1,456	1,156	890	770
Physical science <sup>1</sup> .....	136	134	165	182	494	616	423	320	262
Mathematical science .....	20	39	33	43	116	158	104	70	44
Computer science .....	41	51	74	57	101	107	95	82	68
Biological science .....	113	132	136	198	451	513	483	373	367
Agricultural science .....	26	16	25	20	52	62	51	45	29
Social sciences .....	95	77	103	111	207	235	193	166	150
Social science .....	73	62	83	89	175	192	162	134	121
Psychology .....	22	15	20	22	32	43	31	32	29
Non-S&E <sup>2</sup> .....	151	166	209	207	299	311	290	246	260
Underrepresented minorities, total									
Total, all fields .....	980	1,085	1,083	1,156	1,142	1,232	1,304	1,343	1,395
Science and engineering .....	540	614	588	606	642	668	731	769	776
Engineering .....	83	102	107	95	105	130	150	161	168
Sciences .....	457	512	481	511	537	538	581	608	608
Natural sciences .....	220	261	253	275	298	300	327	345	327
Physical science <sup>1</sup> .....	82	107	97	112	119	92	123	124	95
Mathematical science .....	10	12	14	22	20	16	17	20	30
Computer science .....	5	16	13	8	15	9	20	18	22
Biological science .....	88	94	105	105	114	154	131	139	136
Agricultural science .....	35	32	24	28	30	29	36	44	44
Social sciences .....	237	251	228	236	239	238	254	263	281
Social science .....	136	150	139	141	145	145	153	151	170
Psychology .....	101	101	89	95	94	93	101	112	111
Non-S&E <sup>2</sup> .....	440	471	495	550	500	564	573	574	619
Black, non-Hispanics									
Total, all fields .....	479	552	519	579	553	615	641	641	613
Science and engineering .....	225	270	238	261	284	290	323	332	296
Engineering .....	34	47	43	39	41	56	55	75	62
Sciences .....	191	223	195	222	243	234	268	257	234
Natural sciences .....	71	88	80	99	104	115	147	126	102
Physical science <sup>1</sup> .....	24	29	24	35	38	28	49	48	31
Mathematical science .....	3	7	4	7	8	4	6	5	9
Computer science .....	1	4	4	2	8	7	9	3	6
Biological science .....	29	32	38	43	34	65	58	51	41
Agricultural science .....	14	16	10	12	16	11	25	19	15
Social sciences .....	120	135	115	123	139	119	121	131	132
Social science .....	77	91	87	79	93	80	82	88	89
Psychology .....	43	44	28	44	46	39	39	43	43
Non-S&E <sup>2</sup> .....	254	282	281	318	269	325	318	309	317

See explanatory information and SOURCE at end of table.

**Table 11. Number of earned doctoral degrees, by field and by citizenship and race/ethnicity of male recipients: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Hispanics									
Total, all fields .....	449	459	482	517	518	537	560	624	678
Science and engineering .....	290	307	308	320	318	336	346	392	426
Engineering .....	45	51	56	54	60	65	82	72	97
Sciences .....	245	256	252	266	258	271	264	320	329
Natural sciences .....	138	152	151	162	174	167	157	198	197
Physical science <sup>1</sup> .....	55	68	62	70	75	59	67	65	53
Mathematical science .....	6	5	9	14	10	11	10	14	20
Computer science .....	4	11	7	6	7	2	9	15	13
Biological science .....	56	56	59	57	69	79	62	84	89
Agricultural science .....	17	12	14	15	13	16	9	20	22
Social sciences .....	107	104	101	104	84	104	107	122	132
Social science .....	55	52	46	59	41	56	54	59	77
Psychology .....	52	52	55	45	43	48	53	63	55
Non-S&E <sup>2</sup> .....	159	152	174	197	200	201	214	232	252
American Indians or Alaskan Natives									
Total, all fields .....	52	74	82	60	71	80	103	78	104
Science and engineering .....	25	37	42	25	40	42	62	45	54
Engineering .....	4	4	8	2	4	9	13	14	9
Sciences .....	21	33	34	23	36	33	49	31	45
Natural sciences .....	11	21	22	14	20	18	23	21	28
Physical science <sup>1</sup> .....	3	10	11	7	6	5	7	11	11
Mathematical science .....	1	0	1	1	2	1	1	1	1
Computer science .....	0	1	2	0	0	0	2	0	3
Biological science .....	3	6	8	5	11	10	11	4	6
Agricultural science .....	4	4	0	1	1	2	2	5	7
Social sciences .....	10	12	12	9	16	15	26	10	17
Social science .....	4	7	6	3	11	9	17	4	4
Psychology .....	6	5	6	6	5	6	9	6	13
Non-S&E <sup>2</sup> .....	27	37	40	35	31	38	41	33	50
U.S. citizens and permanent residents, unknown race/ethnicity									
Total, all fields .....	306	399	310	193	202	241	253	654	606
Science and engineering .....	237	310	225	136	150	177	180	420	395
Engineering .....	47	98	55	23	37	57	34	111	100
Sciences .....	190	212	170	113	113	120	146	309	295
Natural sciences .....	134	143	119	77	67	88	109	198	211
Physical science <sup>1</sup> .....	62	64	46	31	22	42	45	79	94
Mathematical science .....	6	20	11	8	9	5	8	19	20
Computer science .....	8	8	10	7	7	9	13	25	17
Biological science .....	46	38	42	30	22	29	36	62	71
Agricultural science .....	12	13	10	1	7	3	7	13	9
Social sciences .....	56	69	51	36	46	32	37	111	84
Social science .....	34	50	32	27	32	23	31	71	52
Psychology .....	22	19	19	9	14	9	6	40	32
Non-S&E <sup>2</sup> .....	69	89	85	57	52	64	73	234	211

See explanatory information and SOURCE at end of table.

**Table 11. Number of earned doctoral degrees, by field and by citizenship and race/ethnicity of male recipients: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Nonresident aliens <sup>4</sup>									
Total, all fields .....	6,632	7,506	7,946	7,835	7,306	6,842	7,389	6,960	7,010
Science and engineering .....	5,590	6,404	6,727	6,636	6,185	5,738	6,304	5,965	6,010
Engineering .....	2,157	2,481	2,572	2,618	2,469	2,362	2,490	2,335	2,303
Sciences .....	3,433	3,923	4,155	4,018	3,716	3,376	3,814	3,630	3,707
Natural sciences .....	2,608	3,001	3,222	3,116	2,792	2,515	2,930	2,820	2,916
Physical science <sup>1</sup> .....	1,048	1,205	1,292	1,214	1,063	920	1,099	1,048	1,099
Mathematical science .....	363	420	427	421	364	304	359	367	362
Computer science .....	256	317	329	321	301	322	335	292	306
Biological science .....	582	693	783	804	698	630	797	816	794
Agricultural science .....	359	366	391	356	366	339	340	297	355
Social sciences .....	825	922	933	902	924	861	884	810	791
Social science .....	763	845	854	839	853	782	797	752	724
Psychology .....	62	77	79	63	71	79	87	58	67
Non-S&E <sup>2</sup> .....	1,042	1,102	1,219	1,199	1,121	1,104	1,085	995	1,000
Citizenship unknown									
Total, all fields .....	974	411	481	569	385	445	692	1,103	1,103
Science and engineering .....	726	268	332	389	288	297	465	727	747
Engineering .....	252	64	96	131	77	86	133	163	227
Sciences .....	474	204	236	258	211	211	332	564	520
Natural sciences .....	296	116	143	161	126	125	212	355	339
Physical science <sup>1</sup> .....	124	54	58	75	67	50	96	155	136
Mathematical science .....	42	10	24	19	9	27	19	33	40
Computer science .....	26	5	12	17	12	13	18	32	23
Biological science .....	63	36	39	42	33	33	65	112	117
Agricultural science .....	41	11	10	8	5	2	14	23	23
Social sciences .....	178	88	93	97	85	86	120	209	181
Social science .....	92	42	50	59	52	47	92	119	99
Psychology .....	86	46	43	38	33	39	28	90	82
Non-S&E <sup>2</sup> .....	248	143	149	180	97	148	227	376	356

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and oceanographic sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

<sup>3</sup> Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

<sup>4</sup> Nonresident aliens include foreign citizens on temporary visas only.

**NOTE:** See section C for specific fields included in each category.

**SOURCE:** Tabulated by National Science Foundation/Division of Science Resources Studies; data from NSF/SRS: Survey of Earned Doctorates

**Table 12. Number of earned doctoral degrees, by field and by citizenship and race/ethnicity of female recipients: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total									
Total, all fields .....	13,106	13,873	14,436	15,122	15,820	16,414	16,944	17,251	17,858
Science and engineering .....	6,370	6,932	7,080	7,652	7,921	8,286	8,646	8,943	9,355
Engineering .....	415	467	506	522	635	696	776	751	773
Sciences .....	5,955	6,465	6,574	7,130	7,286	7,590	7,870	8,192	8,582
Natural sciences .....	2,931	3,156	3,347	3,620	3,742	3,944	4,081	4,229	4,438
Physical science <sup>1</sup> .....	802	858	958	940	1,011	1,048	1,014	1,062	1,146
Mathematical science .....	158	199	205	264	236	265	231	263	297
Computer science .....	110	117	120	138	137	186	139	150	159
Biological science .....	1,615	1,773	1,831	2,050	2,109	2,217	2,415	2,494	2,538
Agricultural science .....	246	209	233	228	249	228	282	260	298
Social sciences .....	3,024	3,309	3,227	3,510	3,544	3,646	3,789	3,963	4,144
Social science .....	1,111	1,313	1,299	1,422	1,443	1,466	1,461	1,591	1,684
Psychology .....	1,913	1,996	1,928	2,088	2,101	2,180	2,328	2,372	2,460
Non-S&E <sup>2</sup> .....	6,736	6,941	7,356	7,470	7,899	8,128	8,298	8,308	8,503
U.S. citizens and permanent residents, total <sup>3</sup>									
Total, all fields .....	11,248	11,818	12,178	12,720	13,522	14,183	14,325	14,170	14,590
Science and engineering .....	5,182	5,597	5,577	6,024	6,494	6,912	6,963	6,994	7,174
Engineering .....	276	316	328	348	448	520	525	513	451
Sciences .....	4,906	5,281	5,249	5,676	6,046	6,392	6,438	6,481	6,723
Natural sciences .....	2,242	2,344	2,449	2,632	2,917	3,172	3,092	3,101	3,200
Physical science <sup>1</sup> .....	588	611	661	641	769	852	740	750	775
Mathematical science .....	93	112	117	164	151	183	145	177	198
Computer science .....	90	94	83	109	94	143	91	100	123
Biological science .....	1,312	1,390	1,438	1,584	1,743	1,859	1,941	1,919	1,921
Agricultural science .....	159	137	150	134	160	135	175	155	183
Social sciences .....	2,664	2,937	2,800	3,044	3,129	3,220	3,346	3,380	3,523
Social science .....	892	1,047	1,020	1,106	1,162	1,164	1,163	1,266	1,308
Psychology .....	1,772	1,890	1,780	1,938	1,967	2,056	2,183	2,114	2,215
Non-S&E <sup>2</sup> .....	6,066	6,221	6,601	6,696	7,028	7,271	7,362	7,176	7,416
White, non-Hispanics									
Total, all fields .....	9,718	10,032	10,346	10,704	11,036	11,187	11,457	10,961	11,402
Science and engineering .....	4,522	4,739	4,703	5,012	5,158	5,223	5,355	5,268	5,496
Engineering .....	226	235	240	261	305	321	347	332	306
Sciences .....	4,296	4,504	4,463	4,751	4,853	4,902	5,008	4,936	5,190
Natural sciences .....	1,953	1,975	2,043	2,131	2,193	2,235	2,244	2,259	2,398
Physical science <sup>1</sup> .....	494	525	531	498	531	556	540	541	589
Mathematical science .....	79	84	93	124	118	126	105	135	150
Computer science .....	80	73	69	83	75	104	61	66	84
Biological science .....	1,154	1,170	1,221	1,311	1,349	1,345	1,401	1,399	1,435
Agricultural science .....	146	123	129	115	120	104	137	118	140
Social sciences .....	2,343	2,529	2,420	2,620	2,660	2,667	2,764	2,677	2,792
Social science .....	770	868	862	909	959	923	927	985	1,024
Psychology .....	1,573	1,661	1,558	1,711	1,701	1,744	1,837	1,692	1,768
Non-S&E <sup>2</sup> .....	5,196	5,293	5,643	5,692	5,878	5,964	6,102	5,693	5,906

See explanatory information and SOURCE at end of table.



**Table 12. Number of earned doctoral degrees, by field and by citizenship and race/ethnicity of female recipients: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Asians									
Total, all fields .....	397	559	628	730	1,077	1,443	1,297	1,231	1,086
Science and engineering .....	252	374	418	531	820	1,115	983	894	767
Engineering .....	33	49	61	61	119	170	134	119	98
Sciences .....	219	325	357	470	701	945	849	775	669
Natural sciences .....	150	224	264	341	526	746	646	575	482
Physical science <sup>1</sup> .....	43	54	88	105	195	239	157	153	121
Mathematical science .....	7	18	19	36	26	50	36	28	27
Computer science .....	7	15	12	19	16	30	16	26	23
Biological science .....	87	129	133	172	269	411	407	350	293
Agricultural science .....	6	8	12	9	20	16	30	18	18
Social sciences .....	69	101	93	129	175	199	203	200	187
Social science .....	38	57	54	78	98	120	110	105	101
Psychology .....	31	44	39	51	77	79	93	95	86
Non-S&E <sup>2</sup> .....	145	185	210	199	257	328	314	337	319
Underrepresented minorities, total									
Total, all fields .....	1,004	1,081	1,091	1,217	1,310	1,445	1,443	1,502	1,714
Science and engineering .....	345	399	402	448	470	523	560	589	719
Engineering .....	15	20	24	23	21	26	36	49	39
Sciences .....	330	379	378	425	449	497	524	540	680
Natural sciences .....	109	114	121	143	177	166	170	182	252
Physical science <sup>1</sup> .....	40	22	35	34	38	47	34	32	53
Mathematical science .....	5	8	4	3	6	6	2	8	16
Computer science .....	1	5	2	6	3	8	12	4	9
Biological science .....	56	75	72	91	112	94	115	125	155
Agricultural science .....	7	4	8	9	18	11	7	13	19
Social sciences .....	221	265	257	282	272	331	354	358	428
Social science .....	79	101	92	112	97	114	110	125	145
Psychology .....	142	164	165	170	175	217	244	233	283
Non-S&E <sup>2</sup> .....	659	682	689	769	840	922	883	913	995
Black, non-Hispanics									
Total, all fields .....	571	614	597	701	726	860	815	847	989
Science and engineering .....	149	194	170	208	216	270	253	291	350
Engineering .....	6	8	6	11	13	15	19	23	22
Sciences .....	143	186	164	197	203	255	234	268	328
Natural sciences .....	33	47	36	51	70	72	60	81	122
Physical science <sup>1</sup> .....	9	6	7	10	14	18	15	12	34
Mathematical science .....	1	4	0	1	3	1	2	2	7
Computer science .....	0	4	1	4	2	4	3	1	8
Biological science .....	22	32	24	32	45	43	40	60	69
Agricultural science .....	1	1	4	4	6	6	0	6	4
Social sciences .....	110	139	128	146	133	183	174	187	206
Social science .....	38	53	50	71	55	71	59	74	93
Psychology .....	72	86	78	75	78	112	115	113	113
Non-S&E <sup>2</sup> .....	422	420	427	493	510	590	562	556	639

See explanatory information and SOURCE at end of table.

**Table 12. Number of earned doctoral degrees, by field and by citizenship and race/ethnicity of female recipients: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Hispanics									
Total, all fields .....	388	409	427	456	512	517	543	567	640
Science and engineering .....	178	186	205	222	230	227	272	264	327
Engineering .....	9	10	15	12	6	11	15	23	13
Sciences .....	169	176	190	210	224	216	257	241	314
Natural sciences .....	74	60	77	87	100	86	94	96	118
Physical science <sup>1</sup> .....	30	13	26	22	23	27	18	19	17
Mathematical science .....	4	4	3	2	3	4	0	6	7
Computer science .....	1	1	1	1	0	4	7	2	1
Biological science .....	33	39	43	57	62	46	66	62	80
Agricultural science .....	6	3	4	5	12	5	3	7	13
Social sciences .....	95	116	113	123	124	130	163	145	196
Social science .....	38	46	35	37	34	33	43	37	44
Psychology .....	57	70	78	86	90	97	120	108	152
Non-S&E <sup>2</sup> .....	210	223	222	234	282	290	271	303	313
American Indians or Alaskan Natives									
Total, all fields .....	45	58	67	60	72	68	85	88	85
Science and engineering .....	18	19	27	18	24	26	35	34	42
Engineering .....	0	2	3	0	2	0	2	3	4
Sciences .....	18	17	24	18	22	26	33	31	38
Natural sciences .....	2	7	8	5	7	8	16	5	12
Physical science <sup>1</sup> .....	1	3	2	2	1	2	1	1	2
Mathematical science .....	0	0	1	0	0	1	0	0	2
Computer science .....	0	0	0	1	1	0	2	1	0
Biological science .....	1	4	5	2	5	5	9	3	6
Agricultural science .....	0	0	0	0	0	0	4	0	2
Social sciences .....	16	10	16	13	15	18	17	26	26
Social science .....	3	2	7	4	8	10	8	14	8
Psychology .....	13	8	9	9	7	8	9	12	18
Non-S&E <sup>2</sup> .....	27	39	40	42	48	42	50	54	43
U.S. citizens and permanent residents, unknown race/ethnicity									
Total, all fields .....	129	146	113	69	99	108	128	476	388
Science and engineering .....	63	85	54	33	46	51	65	243	192
Engineering .....	2	12	3	3	3	3	8	13	8
Sciences .....	61	73	51	30	43	48	57	230	184
Natural sciences .....	30	31	21	17	21	25	32	85	68
Physical science <sup>1</sup> .....	11	10	7	4	5	10	9	24	12
Mathematical science .....	2	2	1	1	1	1	2	6	5
Computer science .....	2	1	0	1	0	1	2	4	7
Biological science .....	15	16	12	10	13	9	18	45	38
Agricultural science .....	0	2	1	1	2	4	1	6	6
Social sciences .....	31	42	30	13	22	23	25	145	116
Social science .....	5	21	12	7	8	7	16	51	38
Psychology .....	26	21	18	6	14	16	9	94	78
Non-S&E <sup>2</sup> .....	66	61	59	36	53	57	63	233	196

See explanatory information and SOURCE at end of table.

**Table 12. Number of earned doctoral degrees, by field and by citizenship and race/ethnicity of female recipients: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Nonresident aliens <sup>4</sup>									
Total, all fields .....	1,461	1,794	1,990	2,069	2,077	1,952	2,214	2,203	2,468
Science and engineering .....	981	1,229	1,351	1,455	1,321	1,245	1,496	1,521	1,754
Engineering .....	120	149	169	161	178	159	228	211	274
Sciences .....	861	1,080	1,182	1,294	1,143	1,086	1,268	1,310	1,480
Natural sciences .....	624	779	859	929	805	726	911	969	1,073
Physical science <sup>1</sup> .....	196	236	286	281	238	182	245	259	320
Mathematical science .....	61	86	84	95	84	78	83	75	85
Computer science .....	15	23	36	26	41	43	41	38	23
Biological science .....	271	365	372	437	355	334	441	504	538
Agricultural science .....	81	69	81	90	87	89	101	93	107
Social sciences .....	237	301	323	365	338	360	357	341	407
Social science .....	182	245	248	281	258	275	263	262	306
Psychology .....	55	56	75	84	80	85	94	79	101
Non-S&E <sup>2</sup> .....	480	565	639	614	756	707	718	682	714
Citizenship unknown									
Total, all fields .....	397	261	268	333	221	279	405	878	800
Science and engineering .....	207	106	152	173	106	129	187	428	427
Engineering .....	19	2	9	13	9	17	23	27	48
Sciences .....	188	104	143	160	97	112	164	401	379
Natural sciences .....	65	33	39	59	20	46	78	159	165
Physical science <sup>1</sup> .....	18	11	11	18	4	14	29	53	51
Mathematical science .....	4	1	4	5	1	4	3	11	14
Computer science .....	5	0	1	3	2	0	7	12	13
Biological science .....	32	18	21	29	11	24	33	71	79
Agricultural science .....	6	3	2	4	2	4	6	12	8
Social sciences .....	123	71	104	101	77	66	86	242	214
Social science .....	37	21	31	35	23	27	35	63	70
Psychology .....	86	50	73	66	54	39	51	179	144
Non-S&E <sup>2</sup> .....	190	155	116	160	115	150	218	450	373

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and oceanographic sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

<sup>3</sup> Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

<sup>4</sup> Nonresident aliens include foreign citizens on temporary visas only.

**NOTE:** See section C for specific fields included in each category.

**SOURCE:** Tabulated by National Science Foundation/Division of Science Resources Studies; data from NSF/SRS: Survey of Earned Doctorates

**Table 13. Number and percent of bachelor's degrees earned by blacks which are conferred by historically black colleges and universities (HBCUs), by field: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total, all black recipients									
Total, all fields .....	59,301	65,009	71,311	76,667	82,316	85,287	89,554	92,067	95,878
Science and engineering .....	18,230	19,987	22,431	24,421	26,289	27,528	29,055	30,444	31,398
Engineering .....	2,072	2,229	2,362	2,577	2,659	2,845	3,000	3,076	3,018
Sciences .....	16,158	17,758	20,069	21,844	23,630	24,683	26,055	27,368	28,380
Natural sciences .....	5,782	5,834	6,401	6,972	7,559	8,021	8,670	9,061	9,713
Physical science <sup>1</sup> .....	650	753	816	836	921	1,034	1,100	1,110	1,127
Mathematical science .....	720	811	904	965	992	995	981	1,071	1,030
Computer science .....	2,247	1,997	2,090	2,213	2,398	2,498	2,415	2,370	2,580
Biological science .....	1,994	2,111	2,385	2,739	2,980	3,231	3,811	4,123	4,550
Agricultural science .....	171	162	206	219	268	263	363	387	426
Social sciences .....	10,376	11,924	13,668	14,872	16,071	16,662	17,385	18,307	18,667
Social science .....	7,226	8,236	9,489	10,254	10,835	10,921	11,357	11,660	11,815
Psychology .....	3,150	3,688	4,179	4,618	5,236	5,741	6,028	6,647	6,852
Non-S&E <sup>2</sup> .....	41,071	45,022	48,880	52,246	56,027	57,759	60,499	61,623	64,480
Black recipients from HBCUs									
Total, all fields .....	16,345	17,963	19,709	21,849	23,426	23,989	25,425	25,215	25,546
Science and engineering .....	5,190	5,679	6,363	7,368	7,804	8,361	8,980	9,071	9,151
Engineering .....	524	589	594	700	690	798	894	905	843
Sciences .....	4,666	5,090	5,769	6,668	7,114	7,563	8,086	8,166	8,308
Natural sciences .....	2,353	2,363	2,599	3,021	3,105	3,384	3,794	3,872	3,971
Physical science <sup>1</sup> .....	296	358	376	390	421	471	547	503	485
Mathematical science .....	307	369	420	463	449	466	443	478	442
Computer science .....	899	748	780	904	904	967	979	834	904
Biological science .....	764	792	906	1,155	1,197	1,357	1,628	1,841	1,920
Agricultural science .....	87	96	117	109	134	123	197	216	220
Social sciences .....	2,313	2,727	3,170	3,647	4,009	4,179	4,292	4,294	4,337
Social science .....	1,651	1,886	2,201	2,507	2,701	2,747	2,780	2,641	2,701
Psychology .....	662	841	969	1,140	1,308	1,432	1,512	1,653	1,636
Non-S&E <sup>2</sup> .....	11,155	12,284	13,346	14,481	15,622	15,628	16,445	16,144	16,395
Percent from HBCUs									
Total, all fields .....	27.6	27.6	27.6	28.5	28.5	28.1	28.4	27.4	26.6
Science and engineering .....	28.5	28.4	28.4	30.2	29.7	30.4	30.9	29.8	29.1
Engineering .....	25.3	26.4	25.1	27.2	25.9	28.0	29.8	29.4	27.9
Sciences .....	28.9	28.7	28.7	30.5	30.1	30.6	31.0	29.8	29.3
Natural sciences .....	40.7	40.5	40.6	43.3	41.1	42.2	43.8	42.7	40.9
Physical science <sup>1</sup> .....	45.5	47.5	46.1	46.7	45.7	45.6	49.7	45.3	43.0
Mathematical science .....	42.6	45.5	46.5	48.0	45.3	46.8	45.2	44.6	42.9
Computer science .....	40.0	37.5	37.3	40.8	37.7	38.7	40.5	35.2	35.0
Biological science .....	38.3	37.5	38.0	42.2	40.2	42.0	42.7	44.7	42.2
Agricultural science .....	50.9	59.3	56.8	49.8	50.0	46.8	54.3	55.8	51.6
Social sciences .....	22.3	22.9	23.2	24.5	24.9	25.1	24.7	23.5	23.2
Social science .....	22.8	22.9	23.2	24.4	24.9	25.2	24.5	22.7	22.9
Psychology .....	21.0	22.8	23.2	24.7	25.0	24.9	25.1	24.9	23.9
Non-S&E <sup>2</sup> .....	27.2	27.3	27.3	27.7	27.9	27.1	27.2	26.2	25.4

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and oceanographic sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

**NOTES:** Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

See section C for specific fields included in each category.

**SOURCE:** Tabulated by National Science Foundation/Division of Science Resources Studies; data from Department of Education/National Center for Education Statistics: Integrated Postsecondary Education Data System Completions Survey

**Table 14. Number and percent of bachelor's degrees earned by black men which are conferred by historically black colleges and universities (HBCUs), by field: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total, all black recipients									
Total, all fields .....	22,590	24,238	26,518	28,374	30,106	30,998	32,223	32,726	33,653
Science and engineering .....	7,830	8,448	9,375	10,099	10,806	11,127	11,700	11,947	12,150
Engineering .....	1,416	1,484	1,614	1,764	1,784	1,846	1,964	2,019	1,977
Sciences .....	6,414	6,964	7,761	8,335	9,022	9,281	9,736	9,928	10,173
Natural sciences .....	2,476	2,538	2,709	2,872	3,146	3,314	3,591	3,678	3,969
Physical science <sup>1</sup> .....	292	391	381	370	464	495	482	466	521
Mathematical science .....	342	380	374	444	457	476	468	510	488
Computer science .....	1,074	971	1,092	1,049	1,161	1,241	1,218	1,212	1,323
Biological science .....	658	696	749	883	927	981	1,236	1,304	1,448
Agricultural science .....	110	100	113	126	137	121	187	186	189
Social sciences .....	3,938	4,426	5,052	5,463	5,876	5,967	6,145	6,250	6,204
Social science .....	3,144	3,547	4,070	4,364	4,644	4,565	4,727	4,659	4,660
Psychology .....	794	879	982	1,099	1,232	1,402	1,418	1,591	1,544
Non-S&E <sup>2</sup> .....	14,760	15,790	17,143	18,275	19,300	19,871	20,523	20,779	21,503
Black recipients from HBCUs									
Total, all fields .....	6,066	6,430	7,087	7,867	8,457	8,587	9,094	8,933	8,976
Science and engineering .....	2,086	2,211	2,450	2,761	2,940	3,190	3,467	3,425	3,395
Engineering .....	331	359	380	430	425	500	544	534	493
Sciences .....	1,755	1,852	2,070	2,331	2,515	2,690	2,923	2,891	2,902
Natural sciences .....	935	951	972	1,089	1,162	1,260	1,444	1,418	1,504
Physical science <sup>1</sup> .....	127	163	145	150	197	202	202	162	179
Mathematical science .....	134	164	150	196	181	204	206	223	213
Computer science .....	377	333	364	361	381	411	442	378	438
Biological science .....	231	231	238	317	334	385	482	543	575
Agricultural science .....	66	60	75	65	69	58	112	112	99
Social sciences .....	820	901	1,098	1,242	1,353	1,430	1,479	1,473	1,398
Social science .....	657	720	868	989	1,060	1,080	1,119	1,045	1,021
Psychology .....	163	181	230	253	293	350	360	428	377
Non-S&E <sup>2</sup> .....	3,980	4,219	4,637	5,106	5,517	5,397	5,627	5,508	5,581
Percent from HBCUs									
Total, all fields .....	26.9	26.5	26.7	27.7	28.1	27.7	28.2	27.3	26.7
Science and engineering .....	26.6	26.2	26.1	27.3	27.2	28.7	29.6	28.7	27.9
Engineering .....	23.4	24.2	23.5	24.4	23.8	27.1	27.7	26.4	24.9
Sciences .....	27.4	26.6	26.7	28.0	27.9	29.0	30.0	29.1	28.5
Natural sciences .....	37.8	37.5	35.9	37.9	36.9	38.0	40.2	38.6	37.9
Physical science <sup>1</sup> .....	43.5	41.7	38.1	40.5	42.5	40.8	41.9	34.8	34.4
Mathematical science .....	39.2	43.2	40.1	44.1	39.6	42.9	44.0	43.7	43.6
Computer science .....	35.1	34.3	33.3	34.4	32.8	33.1	36.3	31.2	33.1
Biological science .....	35.1	33.2	31.8	35.9	36.0	39.2	39.0	41.6	39.7
Agricultural science .....	60.0	60.0	66.4	51.6	50.4	47.9	59.9	60.2	52.4
Social sciences .....	20.8	20.4	21.7	22.7	23.0	24.0	24.1	23.6	22.5
Social science .....	20.9	20.3	21.3	22.7	22.8	23.7	23.7	22.4	21.9
Psychology .....	20.5	20.6	23.4	23.0	23.8	25.0	25.4	26.9	24.4
Non-S&E <sup>2</sup> .....	27.0	26.7	27.0	27.9	28.6	27.2	27.4	26.5	26.0

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and oceanographic sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

**NOTES:** Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

See section C for specific fields included in each category.

**SOURCE:** Tabulated by National Science Foundation/Division of Science Resources Studies; data from Department of Education/National Center for Education Statistics: Integrated Postsecondary Education Data System Completions Survey

**Table 15. Number and percent of bachelor's degrees earned by black women which are conferred by historically black colleges and universities (HBCUs), by field: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total, all black recipients									
Total, all fields .....	36,711	40,771	44,793	48,293	52,210	54,289	57,331	59,341	62,225
Science and engineering .....	10,400	11,539	13,056	14,322	15,483	16,401	17,355	18,497	19,248
Engineering .....	656	745	748	813	875	999	1,036	1,057	1,041
Sciences .....	9,744	10,794	12,308	13,509	14,608	15,402	16,319	17,440	18,207
Natural sciences .....	3,306	3,296	3,692	4,100	4,413	4,707	5,079	5,383	5,744
Physical science <sup>1</sup> .....	358	362	435	466	457	539	618	644	606
Mathematical science .....	378	431	530	521	535	519	513	561	542
Computer science .....	1,173	1,026	998	1,164	1,237	1,257	1,197	1,158	1,257
Biological science .....	1,336	1,415	1,636	1,856	2,053	2,250	2,575	2,819	3,102
Agricultural science .....	61	62	93	93	131	142	176	201	237
Social sciences .....	6,438	7,498	8,616	9,409	10,195	10,695	11,240	12,057	12,463
Social science .....	4,082	4,689	5,419	5,890	6,191	6,356	6,630	7,001	7,155
Psychology .....	2,356	2,809	3,197	3,519	4,004	4,339	4,610	5,056	5,308
Non-S&E <sup>2</sup> .....	26,311	29,232	31,737	33,971	36,727	37,888	39,976	40,844	42,977
Black recipients from HBCUs									
Total, all fields .....	10,279	11,533	12,622	13,982	14,969	15,402	16,331	16,282	16,570
Science and engineering .....	3,104	3,468	3,913	4,607	4,864	5,171	5,513	5,646	5,756
Engineering .....	193	230	214	270	265	298	350	371	350
Sciences .....	2,911	3,238	3,699	4,337	4,599	4,873	5,163	5,275	5,406
Natural sciences .....	1,418	1,412	1,627	1,932	1,943	2,124	2,350	2,454	2,467
Physical science <sup>1</sup> .....	169	195	231	240	224	269	345	341	306
Mathematical science .....	173	205	270	267	268	262	237	255	229
Computer science .....	522	415	416	543	523	556	537	456	466
Biological science .....	533	561	668	838	863	972	1,146	1,298	1,345
Agricultural science .....	21	36	42	44	65	65	85	104	121
Social sciences .....	1,493	1,826	2,072	2,405	2,656	2,749	2,813	2,821	2,939
Social science .....	994	1,166	1,333	1,518	1,641	1,667	1,661	1,596	1,680
Psychology .....	499	660	739	887	1,015	1,082	1,152	1,225	1,259
Non-S&E <sup>2</sup> .....	7,175	8,065	8,709	9,375	10,105	10,231	10,818	10,636	10,814
Percent from HBCUs									
Total, all fields .....	28.0	28.3	28.2	29.0	28.7	28.4	28.5	27.4	26.6
Science and engineering .....	29.8	30.1	30.0	32.2	31.4	31.5	31.8	30.5	29.9
Engineering .....	29.4	30.9	28.6	33.2	30.3	29.8	33.8	35.1	33.6
Sciences .....	29.9	30.0	30.1	32.1	31.5	31.6	31.6	30.2	29.7
Natural sciences .....	42.9	42.8	44.1	47.1	44.0	45.1	46.3	45.6	42.9
Physical science <sup>1</sup> .....	47.2	53.9	53.1	51.5	49.0	49.9	55.8	53.0	50.5
Mathematical science .....	45.8	47.6	50.9	51.2	50.1	50.5	46.2	45.5	42.3
Computer science .....	44.5	40.4	41.7	46.6	42.3	44.2	44.9	39.4	37.1
Biological science .....	39.9	39.6	40.8	45.2	42.0	43.2	44.5	46.0	43.4
Agricultural science .....	34.4	58.1	45.2	47.3	49.6	45.8	48.3	51.7	51.1
Social sciences .....	23.2	24.4	24.0	25.6	26.1	25.7	25.0	23.4	23.6
Social science .....	24.4	24.9	24.6	25.8	26.5	26.2	25.1	22.8	23.5
Psychology .....	21.2	23.5	23.1	25.2	25.3	24.9	25.0	24.2	23.7
Non-S&E <sup>2</sup> .....	27.3	27.6	27.4	27.6	27.5	27.0	27.1	26.0	25.2

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and oceanographic sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

**NOTES:** Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

See section C for specific fields included in each category.

**SOURCE:** Tabulated by National Science Foundation/Division of Science Resources Studies; data from Department of Education/National Center for Education Statistics: Integrated Postsecondary Education Data System Completions Survey

**Table 16. Number and percent of master's degrees earned by blacks which are conferred by historically black colleges and universities (HBCUs), by field: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total, all black recipients									
Total, all fields .....	14,473	15,857	17,420	18,897	20,936	22,954	24,588	26,948	28,616
Science and engineering .....	1,847	2,090	2,356	2,554	2,849	3,339	3,518	3,817	3,756
Engineering .....	387	398	466	564	589	665	674	674	714
Sciences .....	1,460	1,692	1,890	1,990	2,260	2,674	2,844	3,143	3,042
Natural sciences .....	527	644	699	716	821	881	932	1,010	957
Physical science <sup>1</sup> .....	87	73	98	105	127	147	116	144	146
Mathematical science .....	70	100	77	98	109	151	151	157	150
Computer science .....	232	283	316	308	365	347	379	377	376
Biological science .....	110	137	149	135	142	162	198	236	190
Agricultural science .....	28	51	59	70	78	74	88	96	95
Social sciences .....	933	1,048	1,191	1,274	1,439	1,793	1,912	2,133	2,085
Social science .....	462	594	660	730	803	930	965	1,010	1,012
Psychology .....	471	454	531	544	636	863	947	1,123	1,073
Non-S&E <sup>2</sup> .....	12,626	13,767	15,064	16,343	18,087	19,615	21,070	23,131	24,860
Black recipients from HBCUs									
Total, all fields .....	2,358	2,518	2,631	2,779	3,205	3,478	3,818	4,218	4,411
Science and engineering .....	339	391	426	453	484	582	644	711	677
Engineering .....	42	37	41	41	43	54	62	64	85
Sciences .....	297	354	385	412	441	528	582	647	592
Natural sciences .....	153	180	188	204	204	260	276	311	298
Physical science <sup>1</sup> .....	24	24	21	36	21	41	38	51	42
Mathematical science .....	17	21	17	23	21	44	48	45	46
Computer science .....	63	59	76	75	87	94	92	88	95
Biological science .....	37	46	47	38	34	48	60	76	63
Agricultural science .....	12	30	27	32	41	33	38	51	52
Social sciences .....	144	174	197	208	237	268	306	336	294
Social science .....	69	114	125	107	126	130	141	156	157
Psychology .....	75	60	72	101	111	138	165	180	137
Non-S&E <sup>2</sup> .....	2,019	2,127	2,205	2,326	2,721	2,896	3,174	3,507	3,734
Percent from HBCUs									
Total, all fields .....	16.3	15.9	15.1	14.7	15.3	15.2	15.5	15.7	15.4
Science and engineering .....	18.4	18.7	18.1	17.7	17.0	17.4	18.3	18.6	18.0
Engineering .....	10.9	9.3	8.8	7.3	7.3	8.1	9.2	9.5	11.9
Sciences .....	20.3	20.9	20.4	20.7	19.5	19.7	20.5	20.6	19.5
Natural sciences .....	29.0	28.0	26.9	28.5	24.8	29.5	29.6	30.8	31.1
Physical science <sup>1</sup> .....	27.6	32.9	21.4	34.3	16.5	27.9	32.8	35.4	28.8
Mathematical science .....	24.3	21.0	22.1	23.5	19.3	29.1	31.8	28.7	30.7
Computer science .....	27.2	20.8	24.1	24.4	23.8	27.1	24.3	23.3	25.3
Biological science .....	33.6	33.6	31.5	28.1	23.9	29.6	30.3	32.2	33.2
Agricultural science .....	42.9	58.8	45.8	45.7	52.6	44.6	43.2	53.1	54.7
Social sciences .....	15.4	16.6	16.5	16.3	16.5	14.9	16.0	15.8	14.1
Social science .....	14.9	19.2	18.9	14.7	15.7	14.0	14.6	15.4	15.5
Psychology .....	15.9	13.2	13.6	18.6	17.5	16.0	17.4	16.0	12.8
Non-S&E <sup>2</sup> .....	16.0	15.4	14.6	14.2	15.0	14.8	15.1	15.2	15.0

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and oceanographic sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

**NOTES:** Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

See section C for specific fields included in each category.

**SOURCE:** Tabulated by National Science Foundation/Division of Science Resources Studies; data from Department of Education/National Center for Education Statistics: Integrated Postsecondary Education Data System Completions Survey

**Table 17. Number and percent of master's degrees earned by black men which are conferred by historically black colleges and universities (HBCUs), by field: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total, all black recipients									
Total, all fields .....	5,169	5,619	5,794	6,472	7,007	7,636	7,998	8,444	9,107
Science and engineering .....	950	1,028	1,166	1,253	1,376	1,534	1,565	1,617	1,646
Engineering .....	287	299	332	407	422	464	464	449	470
Sciences .....	663	729	834	846	954	1,070	1,101	1,168	1,176
Natural sciences .....	307	338	382	386	435	434	467	484	485
Physical science <sup>1</sup> .....	61	43	66	58	74	86	59	74	81
Mathematical science .....	37	53	44	48	62	64	78	77	71
Computer science .....	140	150	175	193	205	199	205	208	229
Biological science .....	51	58	61	47	48	50	76	69	68
Agricultural science .....	18	34	36	40	46	35	49	56	36
Social sciences .....	356	391	452	460	519	636	634	684	691
Social science .....	223	262	315	345	358	418	391	426	431
Psychology .....	133	129	137	115	161	218	243	258	260
Non-S&E <sup>2</sup> .....	4,219	4,591	4,628	5,219	5,631	6,102	6,433	6,827	7,461
Black recipients from HBCUs									
Total, all fields .....	746	766	782	822	942	973	1,092	1,164	1,259
Science and engineering .....	164	172	195	191	208	230	282	266	285
Engineering .....	32	29	27	23	28	33	44	37	48
Sciences .....	132	143	168	168	180	197	238	229	237
Natural sciences .....	84	90	100	106	98	105	135	133	132
Physical science <sup>1</sup> .....	14	14	16	19	10	24	22	21	22
Mathematical science .....	9	7	7	9	12	20	24	19	14
Computer science .....	35	33	46	44	40	36	45	42	58
Biological science .....	17	15	15	11	7	12	22	20	20
Agricultural science .....	9	21	16	23	29	13	22	31	18
Social sciences .....	48	53	68	62	82	92	103	96	105
Social science .....	28	39	47	40	49	62	64	58	73
Psychology .....	20	14	21	22	33	30	39	38	32
Non-S&E <sup>2</sup> .....	582	594	587	631	734	743	810	898	974
Percent from HBCUs									
Total, all fields .....	14.4	13.6	13.5	12.7	13.4	12.7	13.7	13.8	13.8
Science and engineering .....	17.3	16.7	16.7	15.2	15.1	15.0	18.0	16.5	17.3
Engineering .....	11.1	9.7	8.1	5.7	6.6	7.1	9.5	8.2	10.2
Sciences .....	19.9	19.6	20.1	19.9	18.9	18.4	21.6	19.6	20.2
Natural sciences .....	27.4	26.6	26.2	27.5	22.5	24.2	28.9	27.5	27.2
Physical science <sup>1</sup> .....	23.0	32.6	24.2	32.8	13.5	27.9	37.3	28.4	27.2
Mathematical science .....	24.3	13.2	15.9	18.8	19.4	31.3	30.8	24.7	19.7
Computer science .....	25.0	22.0	26.3	22.8	19.5	18.1	22.0	20.2	25.3
Biological science .....	33.3	25.9	24.6	23.4	14.6	24.0	28.9	29.0	29.4
Agricultural science .....	50.0	61.8	44.4	57.5	63.0	37.1	44.9	55.4	50.0
Social sciences .....	13.5	13.6	15.0	13.5	15.8	14.5	16.2	14.0	15.2
Social science .....	12.6	14.9	14.9	11.6	13.7	14.8	16.4	13.6	16.9
Psychology .....	15.0	10.9	15.3	19.1	20.5	13.8	16.0	14.7	12.3
Non-S&E <sup>2</sup> .....	13.8	12.9	12.7	12.1	13.0	12.2	12.6	13.2	13.1

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and oceanographic sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

**NOTES:** Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

See section C for specific fields included in each category.

**SOURCE:** Tabulated by National Science Foundation/Division of Science Resources Studies; data from Department of Education/National Center for Education Statistics: Integrated Postsecondary Education Data System Completions Survey



**Table 18. Number and percent of master's degrees earned by black women which are conferred by historically black colleges and universities (HBCUs), by field: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total, all black recipients									
Total, all fields .....	9,304	10,238	11,626	12,425	13,929	15,318	16,590	18,504	19,509
Science and engineering .....	897	1,062	1,190	1,301	1,473	1,805	1,953	2,200	2,110
Engineering .....	100	99	134	157	167	201	210	225	244
Sciences .....	797	963	1,056	1,144	1,306	1,604	1,743	1,975	1,866
Natural sciences .....	220	306	317	330	386	447	465	526	472
Physical science <sup>1</sup> .....	26	30	32	47	53	61	57	70	65
Mathematical science .....	33	47	33	50	47	87	73	80	79
Computer science .....	92	133	141	115	160	148	174	169	147
Biological science .....	59	79	88	88	94	112	122	167	122
Agricultural science .....	10	17	23	30	32	39	39	40	59
Social sciences .....	577	657	739	814	920	1,157	1,278	1,449	1,394
Social science .....	239	332	345	385	445	512	574	584	581
Psychology .....	338	325	394	429	475	645	704	865	813
Non-S&E <sup>2</sup> .....	8,407	9,176	10,436	11,124	12,456	13,513	14,637	16,304	17,399
Black recipients from HBCUs									
Total, all fields .....	1,612	1,752	1,849	1,957	2,263	2,505	2,726	3,054	3,152
Science and engineering .....	175	219	231	262	276	352	362	445	392
Engineering .....	10	8	14	18	15	21	18	27	37
Sciences .....	165	211	217	244	261	331	344	418	355
Natural sciences .....	69	90	88	98	106	155	141	178	166
Physical science <sup>1</sup> .....	10	10	5	17	11	17	16	30	20
Mathematical science .....	8	14	10	14	9	24	24	26	32
Computer science .....	28	26	30	31	47	58	47	46	37
Biological science .....	20	31	32	27	27	36	38	56	43
Agricultural science .....	3	9	11	9	12	20	16	20	34
Social sciences .....	96	121	129	146	155	176	203	240	189
Social science .....	41	75	78	67	77	68	77	98	84
Psychology .....	55	46	51	79	78	108	126	142	105
Non-S&E <sup>2</sup> .....	1,437	1,533	1,618	1,695	1,987	2,153	2,364	2,609	2,760
Percent from HBCUs									
Total, all fields .....	17.3	17.1	15.9	15.8	16.2	16.4	16.4	16.5	16.2
Science and engineering .....	19.5	20.6	19.4	20.1	18.7	19.5	18.5	20.2	18.6
Engineering .....	10.0	8.1	10.4	11.5	9.0	10.4	8.6	12.0	15.2
Sciences .....	20.7	21.9	20.5	21.3	20.0	20.6	19.7	21.2	19.0
Natural sciences .....	31.4	29.4	27.8	29.7	27.5	34.7	30.3	33.8	35.2
Physical science <sup>1</sup> .....	38.5	33.3	15.6	36.2	20.8	27.9	28.1	42.9	30.8
Mathematical science .....	24.2	29.8	30.3	28.0	19.1	27.6	32.9	32.5	40.5
Computer science .....	30.4	19.5	21.3	27.0	29.4	39.2	27.0	27.2	25.2
Biological science .....	33.9	39.2	36.4	30.7	28.7	32.1	31.1	33.5	35.2
Agricultural science .....	30.0	52.9	47.8	30.0	37.5	51.3	41.0	50.0	57.6
Social sciences .....	16.6	18.4	17.5	17.9	16.8	15.2	15.9	16.6	13.6
Social science .....	17.2	22.6	22.6	17.4	17.3	13.3	13.4	16.8	14.5
Psychology .....	16.3	14.2	12.9	18.4	16.4	16.7	17.9	16.4	12.9
Non-S&E <sup>2</sup> .....	17.1	16.7	15.5	15.2	16.0	15.9	16.2	16.0	15.9

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and oceanographic sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

**NOTES:** Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

See section C for specific fields included in each category.

**SOURCE:** Tabulated by National Science Foundation/Division of Science Resources Studies; data from Department of Education/National Center for Education Statistics: Integrated Postsecondary Education Data System Completions Survey

**Table 19. Number and percent of doctoral degrees earned by blacks which are conferred by historically black colleges and universities (HBCUs), by field: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total, all black recipients									
Total, all fields .....	1,050	1,166	1,116	1,280	1,279	1,475	1,456	1,488	1,603
Science and engineering .....	374	464	408	469	500	560	576	623	646
Engineering .....	40	55	49	50	54	71	74	98	84
Sciences .....	334	409	359	419	446	489	502	525	562
Natural sciences .....	104	135	116	150	174	187	207	207	224
Physical science <sup>1</sup> .....	33	35	31	45	52	46	64	60	65
Mathematical science .....	4	11	4	8	11	5	8	7	16
Computer science .....	1	8	5	6	10	11	12	4	14
Biological science .....	51	64	62	75	79	108	98	111	110
Agricultural science .....	15	17	14	16	22	17	25	25	19
Social sciences .....	230	274	243	269	272	302	295	318	338
Social science .....	115	144	137	150	148	151	141	162	182
Psychology .....	115	130	106	119	124	151	154	156	156
Non-S&E <sup>2</sup> .....	676	702	708	811	779	915	880	865	957
Black recipients from HBCUs									
Total, all fields .....	141	112	104	135	134	138	141	116	158
Science and engineering .....	36	53	43	60	52	59	66	61	68
Engineering .....	0	3	2	0	4	1	4	1	6
Sciences .....	36	50	41	60	48	58	62	60	62
Natural sciences .....	15	21	12	26	17	29	25	32	33
Physical science <sup>1</sup> .....	4	6	0	6	3	10	4	8	7
Mathematical science .....	0	0	0	0	2	0	0	2	2
Computer science .....	0	0	0	0	0	0	1	0	0
Biological science .....	11	15	12	19	12	18	18	19	24
Agricultural science .....	0	0	0	1	0	1	2	3	0
Social sciences .....	21	29	29	34	31	29	37	28	29
Social science .....	13	10	19	22	11	11	25	15	17
Psychology .....	8	19	10	12	20	18	12	13	12
Non-S&E <sup>2</sup> .....	105	59	61	75	82	79	75	55	90
Percent from HBCUs									
Total, all fields .....	13.4	9.6	9.3	10.5	10.5	9.4	9.7	7.8	9.9
Science and engineering .....	9.6	11.4	10.5	12.8	10.4	10.5	11.5	9.8	10.5
Engineering .....	.0	5.5	4.1	.0	7.4	1.4	5.4	1.0	7.1
Sciences .....	10.8	12.2	11.4	14.3	10.8	11.9	12.4	11.4	11.0
Natural sciences .....	14.4	15.6	10.3	17.3	9.8	15.5	12.1	15.5	14.7
Physical science <sup>1</sup> .....	12.1	17.1	.0	13.3	5.8	21.7	6.3	13.3	10.8
Mathematical science .....	.0	.0	.0	.0	18.2	.0	.0	28.6	12.5
Computer science .....	.0	.0	.0	.0	.0	.0	8.3	.0	.0
Biological science .....	21.6	23.4	19.4	25.3	15.2	16.7	18.4	17.1	21.8
Agricultural science .....	.0	.0	.0	6.3	.0	5.9	8.0	12.0	.0
Social sciences .....	9.1	10.6	11.9	12.6	11.4	9.6	12.5	8.8	8.6
Social science .....	11.3	6.9	13.9	14.7	7.4	7.3	17.7	9.3	9.3
Psychology .....	7.0	14.6	9.4	10.1	16.1	11.9	7.8	8.3	7.7
Non-S&E <sup>2</sup> .....	15.5	8.4	8.6	9.2	10.5	8.6	8.5	6.4	9.4

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and oceanographic sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

**NOTES:** Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

See section C for specific fields included in each category.

**SOURCE:** Tabulated by National Science Foundation/Division of Science Resources Studies; data from NSF/SRS: Survey of Earned Doctorates

**Table 20. Number and percent of doctoral degrees earned by black men which are conferred by historically black colleges and universities (HBCUs), by field: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total, all black recipients									
Total, all fields .....	479	552	519	579	553	615	641	641	613
Science and engineering .....	225	270	238	261	284	290	323	332	296
Engineering .....	34	47	43	39	41	56	55	75	62
Sciences .....	191	223	195	222	243	234	268	257	234
Natural sciences .....	71	88	80	99	104	115	147	126	102
Physical science <sup>1</sup> .....	24	29	24	35	38	28	49	48	31
Mathematical science .....	3	7	4	7	8	4	6	5	9
Computer science .....	1	4	4	2	8	7	9	3	6
Biological science .....	29	32	38	43	34	65	58	51	41
Agricultural science .....	14	16	10	12	16	11	25	19	15
Social sciences .....	120	135	115	123	139	119	121	131	132
Social science .....	77	91	87	79	93	80	82	88	89
Psychology .....	43	44	28	44	46	39	39	43	43
Non-S&E <sup>2</sup> .....	254	282	281	318	269	325	318	309	317
Black recipients from HBCUs									
Total, all fields .....	61	58	48	56	55	57	68	52	58
Science and engineering .....	22	32	23	30	28	32	40	33	35
Engineering .....	0	3	2	0	3	1	3	1	6
Sciences .....	22	29	21	30	25	31	37	32	29
Natural sciences .....	7	15	5	15	7	17	17	16	16
Physical science <sup>1</sup> .....	2	5	0	5	2	6	4	8	5
Mathematical science .....	0	0	0	0	1	0	0	0	2
Computer science .....	0	0	0	0	0	0	0	0	0
Biological science .....	5	10	5	9	4	10	11	7	9
Agricultural science .....	0	0	0	1	0	1	2	1	0
Social sciences .....	15	14	16	15	18	14	20	16	13
Social science .....	11	8	14	12	10	8	16	11	10
Psychology .....	4	6	2	3	8	6	4	5	3
Non-S&E <sup>2</sup> .....	39	26	25	26	27	25	28	19	23
Percent from HBCUs									
Total, all fields .....	12.7	10.5	9.2	9.7	9.9	9.3	10.6	8.1	9.5
Science and engineering .....	9.8	11.9	9.7	11.5	9.9	11.0	12.4	9.9	11.8
Engineering .....	.0	6.4	4.7	.0	7.3	1.8	5.5	1.3	9.7
Sciences .....	11.5	13.0	10.8	13.5	10.3	13.2	13.8	12.5	12.4
Natural sciences .....	9.9	17.0	6.3	15.2	6.7	14.8	11.6	12.7	15.7
Physical science <sup>1</sup> .....	8.3	17.2	.0	14.3	5.3	21.4	8.2	16.7	16.1
Mathematical science .....	.0	.0	.0	.0	12.5	.0	.0	.0	22.2
Computer science .....	.0	.0	.0	.0	.0	.0	.0	.0	.0
Biological science .....	17.2	31.3	13.2	20.9	11.8	15.4	19.0	13.7	22.0
Agricultural science .....	.0	.0	.0	8.3	.0	9.1	8.0	5.3	.0
Social sciences .....	12.5	10.4	13.9	12.2	12.9	11.8	16.5	12.2	9.8
Social science .....	14.3	8.8	16.1	15.2	10.8	10.0	19.5	12.5	11.2
Psychology .....	9.3	13.6	7.1	6.8	17.4	15.4	10.3	11.6	7.0
Non-S&E <sup>2</sup> .....	15.4	9.2	8.9	8.2	10.0	7.7	8.8	6.1	7.3

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and oceanographic sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

**NOTES:** Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

See section C for specific fields included in each category.

**SOURCE:** Tabulated by National Science Foundation/Division of Science Resources Studies; data from NSF/SRS: Survey of Earned Doctorates

**Table 21. Number and percent of doctoral degrees earned by black women which are conferred by historically black colleges and universities (HBCUs), by field: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total, all black recipients									
Total, all fields .....	571	614	597	701	726	860	815	847	989
Science and engineering .....	149	194	170	208	216	270	253	291	350
Engineering .....	6	8	6	11	13	15	19	23	22
Sciences .....	143	186	164	197	203	255	234	268	328
Natural sciences .....	33	47	36	51	70	72	60	81	122
Physical science <sup>1</sup> .....	9	6	7	10	14	18	15	12	34
Mathematical science .....	1	4	0	1	3	1	2	2	7
Computer science .....	0	4	1	4	2	4	3	1	8
Biological science .....	22	32	24	32	45	43	40	60	69
Agricultural science .....	1	1	4	4	6	6	0	6	4
Social sciences .....	110	139	128	146	133	183	174	187	206
Social science .....	38	53	50	71	55	71	59	74	93
Psychology .....	72	86	78	75	78	112	115	113	113
Non-S&E <sup>2</sup> .....	422	420	427	493	510	590	562	556	639
Black recipients from HBCUs									
Total, all fields .....	80	54	56	79	79	81	73	64	100
Science and engineering .....	14	21	20	30	24	27	26	28	33
Engineering .....	0	0	0	0	1	0	1	0	0
Sciences .....	14	21	20	30	23	27	25	28	33
Natural sciences .....	8	6	7	11	10	12	8	16	17
Physical science <sup>1</sup> .....	2	1	0	1	1	4	0	0	2
Mathematical science .....	0	0	0	0	1	0	0	2	0
Computer science .....	0	0	0	0	0	0	1	0	0
Biological science .....	6	5	7	10	8	8	7	12	15
Agricultural science .....	0	0	0	0	0	0	0	2	0
Social sciences .....	6	15	13	19	13	15	17	12	16
Social science .....	2	2	5	10	1	3	9	4	7
Psychology .....	4	13	8	9	12	12	8	8	9
Non-S&E <sup>2</sup> .....	66	33	36	49	55	54	47	36	67
Percent from HBCUs									
Total, all fields .....	14.0	8.8	9.4	11.3	10.9	9.4	9.0	7.6	10.1
Science and engineering .....	9.4	10.8	11.8	14.4	11.1	10.0	10.3	9.6	9.4
Engineering .....	.0	.0	.0	.0	7.7	.0	5.3	.0	.0
Sciences .....	9.8	11.3	12.2	15.2	11.3	10.6	10.7	10.4	10.1
Natural sciences .....	24.2	12.8	19.4	21.6	14.3	16.7	13.3	19.8	13.9
Physical science <sup>1</sup> .....	22.2	16.7	.0	10.0	7.1	22.2	.0	.0	5.9
Mathematical science .....	.0	.0	0	.0	33.3	.0	.0	100.0	.0
Computer science .....	0	.0	.0	.0	.0	.0	33.3	.0	.0
Biological science .....	27.3	15.6	29.2	31.3	17.8	18.6	17.5	20.0	21.7
Agricultural science .....	.0	.0	.0	.0	.0	.0	0	33.3	.0
Social sciences .....	5.5	10.8	10.2	13.0	9.8	8.2	9.8	6.4	7.8
Social science .....	5.3	3.8	10.0	14.1	1.8	4.2	15.3	5.4	7.5
Psychology .....	5.6	15.1	10.3	12.0	15.4	10.7	7.0	7.1	8.0
Non-S&E <sup>2</sup> .....	15.6	7.9	8.4	9.9	10.8	9.2	8.4	6.5	10.5

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and oceanographic sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

**NOTES:** Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

See section C for specific fields included in each category.

**SOURCE:** Tabulated by National Science Foundation/Division of Science Resources Studies; data from NSF/SRS: Survey of Earned Doctorates

**Table 22. Number of earned bachelor's degrees conferred by institutions in Puerto Rico to Hispanics, by field: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total, all Hispanic recipients									
Total, all fields .....	43,864	49,027	53,007	57,845	62,683	66,691	71,015	74,938	78,125
Science and engineering .....	13,918	15,351	17,391	18,442	20,529	22,190	23,791	25,266	26,725
Engineering .....	2,511	2,566	2,733	2,961	3,143	3,651	3,731	4,125	4,125
Sciences .....	11,407	12,785	14,658	15,481	17,386	18,539	20,060	21,141	22,600
Natural sciences .....	4,357	4,705	4,892	5,034	5,648	6,119	6,764	7,055	7,881
Physical science <sup>1</sup> .....	522	533	546	599	733	800	872	853	914
Mathematical science .....	413	480	482	470	543	536	585	581	642
Computer science .....	1,085	1,215	1,173	1,096	1,135	1,307	1,280	1,267	1,410
Biological science .....	2,119	2,264	2,477	2,652	2,901	3,090	3,521	3,793	4,283
Agricultural science .....	218	213	214	217	336	386	506	561	632
Social sciences .....	7,050	8,080	9,766	10,447	11,738	12,420	13,296	14,086	14,719
Social science .....	4,645	5,334	6,519	6,860	7,748	7,877	8,260	8,804	9,210
Psychology .....	2,405	2,746	3,247	3,587	3,990	4,543	5,036	5,282	5,509
Non-S&E <sup>2</sup> .....	29,946	33,676	35,616	39,403	42,154	44,501	47,224	49,672	51,400
Hispanic recipients from institutions in Puerto Rico									
Total, all fields .....	12,175	12,510	12,755	13,359	13,454	13,792	14,106	14,093	13,905
Science and engineering .....	2,983	2,952	3,007	3,001	3,205	3,501	3,628	3,849	3,889
Engineering .....	626	554	686	697	742	988	915	1,125	971
Sciences .....	2,357	2,398	2,321	2,304	2,463	2,513	2,713	2,724	2,918
Natural sciences .....	1,447	1,446	1,339	1,300	1,374	1,459	1,658	1,641	1,858
Physical science <sup>1</sup> .....	184	154	172	172	227	311	324	303	314
Mathematical science .....	69	108	34	41	27	27	39	24	20
Computer science .....	261	327	296	254	258	257	263	202	248
Biological science .....	862	797	837	833	808	812	964	1,021	1,159
Agricultural science .....	71	60	0	0	54	52	68	91	117
Social sciences .....	910	952	982	1,004	1,089	1,054	1,055	1,083	1,060
Social science .....	495	523	496	508	590	554	549	603	596
Psychology .....	415	429	486	496	499	500	506	480	464
Non-S&E <sup>2</sup> .....	9,192	9,558	9,748	10,358	10,249	10,291	10,478	10,244	10,016
Percent from institutions in Puerto Rico									
Total, all fields .....	27.8	25.5	24.1	23.1	21.5	20.7	19.9	18.8	17.8
Science and engineering .....	21.4	19.2	17.3	16.3	15.6	15.8	15.2	15.2	14.6
Engineering .....	24.9	21.6	25.1	23.5	23.6	27.1	24.5	27.3	23.5
Sciences .....	20.7	18.8	15.8	14.9	14.2	13.6	13.5	12.9	12.9
Natural sciences .....	33.2	30.7	27.4	25.8	24.3	23.8	24.5	23.3	23.6
Physical science <sup>1</sup> .....	35.2	28.9	31.5	28.7	31.0	38.9	37.2	35.5	34.4
Mathematical science .....	16.7	22.5	7.1	8.7	5.0	5.0	6.7	4.1	3.1
Computer science .....	24.1	26.9	25.2	23.2	22.7	19.7	20.5	15.9	17.6
Biological science .....	40.7	35.2	33.8	31.4	27.9	26.3	27.4	26.9	27.1
Agricultural science .....	32.6	28.2	.0	.0	16.1	13.5	13.4	16.2	18.5
Social sciences .....	12.9	11.8	10.1	9.6	9.3	8.5	7.9	7.7	7.2
Social science .....	10.7	9.8	7.6	7.4	7.6	7.0	6.6	6.8	6.5
Psychology .....	17.3	15.6	15.0	13.8	12.5	11.0	10.0	9.1	8.4
Non-S&E <sup>2</sup> .....	30.7	28.4	27.4	26.3	24.3	23.1	22.2	20.6	19.5

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and oceanographic sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

**NOTES:** Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

See section C for specific fields included in each category.

**SOURCE:** Tabulated by National Science Foundation/Division of Science Resources Studies; data from Department of Education/National Center for Education Statistics: Integrated Postsecondary Education Data System Completions Survey

**Table 23. Number of earned bachelor's degrees conferred by institutions in Puerto Rico to Hispanic men, by field: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total, all Hispanic recipients									
Total, all fields .....	18,683	20,781	22,026	23,825	25,860	27,875	29,335	30,550	31,716
Science and engineering .....	7,434	7,888	8,730	9,160	10,190	11,031	11,592	12,044	12,622
Engineering .....	2,035	2,039	2,187	2,355	2,495	2,895	2,897	3,196	3,179
Sciences .....	5,399	5,849	6,543	6,805	7,695	8,136	8,695	8,848	9,443
Natural sciences .....	2,328	2,458	2,497	2,608	2,925	3,196	3,509	3,544	3,873
Physical science <sup>1</sup> .....	311	318	326	361	415	437	488	468	474
Mathematical science .....	249	259	279	273	300	315	354	340	338
Computer science .....	669	738	724	700	719	876	824	841	920
Biological science .....	955	1,019	1,043	1,144	1,298	1,340	1,560	1,598	1,823
Agricultural science .....	144	124	125	130	193	228	283	297	318
Social sciences .....	3,071	3,391	4,046	4,197	4,770	4,940	5,186	5,304	5,570
Social science .....	2,384	2,634	3,220	3,269	3,774	3,774	3,860	4,019	4,188
Psychology .....	687	757	826	928	996	1,166	1,326	1,285	1,382
Non-S&E <sup>2</sup> .....	11,249	12,893	13,296	14,665	15,670	16,844	17,743	18,506	19,094
Hispanic recipients from institutions in Puerto Rico									
Total, all fields .....	4,266	4,569	4,252	4,369	4,513	4,864	4,966	4,948	4,770
Science and engineering .....	1,462	1,365	1,362	1,339	1,426	1,657	1,711	1,789	1,762
Engineering .....	481	398	498	511	534	743	661	791	698
Sciences .....	981	967	864	828	892	914	1,050	998	1,064
Natural sciences .....	626	612	520	496	540	609	692	656	717
Physical science <sup>1</sup> .....	90	70	78	70	86	131	143	134	123
Mathematical science .....	47	50	20	24	15	16	28	16	12
Computer science .....	143	170	159	147	149	164	162	123	136
Biological science .....	302	293	263	255	258	265	322	331	385
Agricultural science .....	44	29	0	0	32	33	37	52	61
Social sciences .....	355	355	344	332	352	305	358	342	347
Social science .....	252	245	243	211	248	220	218	249	250
Psychology .....	103	110	101	121	104	85	140	93	97
Non-S&E <sup>2</sup> .....	2,804	3,204	2,890	3,030	3,087	3,207	3,255	3,159	3,008
Percent from institutions in Puerto Rico									
Total, all fields .....	22.8	22.0	19.3	18.3	17.5	17.4	16.9	16.2	15.0
Science and engineering .....	19.7	17.3	15.6	14.6	14.0	15.0	14.8	14.9	14.0
Engineering .....	23.6	19.5	22.8	21.7	21.4	25.7	22.8	24.7	22.0
Sciences .....	18.2	16.5	13.2	12.2	11.6	11.2	12.1	11.3	11.3
Natural sciences .....	26.9	24.9	20.8	19.0	18.5	19.1	19.7	18.5	18.5
Physical science <sup>1</sup> .....	28.9	22.0	23.9	19.4	20.7	30.0	29.3	28.6	25.9
Mathematical science .....	18.9	19.3	7.2	8.8	5.0	5.1	7.9	4.7	3.6
Computer science .....	21.4	23.0	22.0	21.0	20.7	18.7	19.7	14.6	14.8
Biological science .....	31.6	28.8	25.2	22.3	19.9	19.8	20.6	20.7	21.1
Agricultural science .....	30.6	23.4	0	0	16.6	14.5	13.1	17.5	19.2
Social sciences .....	11.6	10.5	8.5	7.9	7.4	6.2	6.9	6.4	6.2
Social science .....	10.6	9.3	7.5	6.5	6.6	5.8	5.6	6.2	6.0
Psychology .....	15.0	14.5	12.2	13.0	10.4	7.3	10.6	7.2	7.0
Non-S&E <sup>2</sup> .....	24.9	24.9	21.7	20.7	19.7	19.0	18.3	17.1	15.8

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and oceanographic sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

**NOTES:** Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

See section C for specific fields included in each category.

**SOURCE:** Tabulated by National Science Foundation/Division of Science Resources Studies; data from Department of Education/National Center for Education Statistics: Integrated Postsecondary Education Data System Completions Survey

**Table 24. Number of earned bachelor's degrees conferred by institutions in Puerto Rico to Hispanic women, by field: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total, all Hispanic recipients									
Total, all fields .....	25,181	28,246	30,981	34,020	36,823	38,816	41,680	44,388	46,409
Science and engineering .....	6,484	7,463	8,661	9,282	10,339	11,159	12,199	13,222	14,103
Engineering .....	476	527	546	606	648	756	834	929	946
Sciences .....	6,008	6,936	8,115	8,676	9,691	10,403	11,365	12,293	13,157
Natural sciences .....	2,029	2,247	2,395	2,426	2,723	2,923	3,255	3,511	4,008
Physical science <sup>1</sup> .....	211	215	220	238	318	363	384	385	440
Mathematical science .....	164	221	203	197	243	221	231	241	304
Computer science .....	416	477	449	396	416	431	456	426	490
Biological science .....	1,164	1,245	1,434	1,508	1,603	1,750	1,961	2,195	2,460
Agricultural science .....	74	89	89	87	143	158	223	264	314
Social sciences .....	3,979	4,689	5,720	6,250	6,968	7,480	8,110	8,782	9,149
Social science .....	2,261	2,700	3,299	3,591	3,974	4,103	4,400	4,785	5,022
Psychology .....	1,718	1,989	2,421	2,659	2,994	3,377	3,710	3,997	4,127
Non-S&E <sup>2</sup> .....	18,697	20,783	22,320	24,738	26,484	27,657	29,481	31,166	32,306
Hispanic recipients from institutions in Puerto Rico									
Total, all fields .....	7,909	7,941	8,503	8,990	8,941	8,928	9,140	9,145	9,135
Science and engineering .....	1,521	1,587	1,645	1,662	1,779	1,844	1,917	2,060	2,127
Engineering .....	145	156	188	186	208	245	254	334	273
Sciences .....	1,376	1,431	1,457	1,476	1,571	1,599	1,663	1,726	1,854
Natural sciences .....	821	834	819	804	834	850	966	985	1,141
Physical science <sup>1</sup> .....	94	84	94	102	141	180	181	169	191
Mathematical science .....	22	58	14	17	12	11	11	8	8
Computer science .....	118	157	137	107	109	93	101	79	112
Biological science .....	560	504	574	578	550	547	642	690	774
Agricultural science .....	27	31	0	0	22	19	31	39	56
Social sciences .....	555	597	638	672	737	749	697	741	713
Social science .....	243	278	253	297	342	334	331	354	346
Psychology .....	312	319	385	375	395	415	366	387	367
Non-S&E <sup>2</sup> .....	6,388	6,354	6,858	7,328	7,162	7,084	7,223	7,085	7,008
Percent from institutions in Puerto Rico									
Total, all fields .....	31.4	28.1	27.4	26.4	24.3	23.0	21.9	20.6	19.7
Science and engineering .....	23.5	21.3	19.0	17.9	17.2	16.5	15.7	15.6	15.1
Engineering .....	30.5	29.6	34.4	30.7	32.1	32.4	30.5	36.0	28.9
Sciences .....	22.9	20.6	18.0	17.0	16.2	15.4	14.6	14.0	14.1
Natural sciences .....	40.5	37.1	34.2	33.1	30.6	29.1	29.7	28.1	28.5
Physical science <sup>1</sup> .....	44.5	39.1	42.7	42.9	44.3	49.6	47.1	43.9	43.4
Mathematical science .....	13.4	26.2	6.9	8.6	4.9	5.0	4.8	3.3	2.6
Computer science .....	28.4	32.9	30.5	27.0	26.2	21.6	22.1	18.5	22.9
Biological science .....	48.1	40.5	40.0	38.3	34.3	31.3	32.7	31.4	31.5
Agricultural science .....	36.5	34.8	.0	.0	15.4	12.0	13.9	14.8	17.8
Social sciences .....	13.9	12.7	11.2	10.8	10.6	10.0	8.6	8.4	7.8
Social science .....	10.7	10.3	7.7	8.3	8.6	8.1	7.5	7.4	6.9
Psychology .....	18.2	16.0	15.9	14.1	13.2	12.3	9.9	9.7	8.9
Non-S&E <sup>2</sup> .....	34.2	30.6	30.7	29.6	27.0	25.6	24.5	22.7	21.7

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and oceanographic sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

**NOTES:** Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

See section C for specific fields included in each category.

**SOURCE:** Tabulated by National Science Foundation/Division of Science Resources Studies; data from Department of Education/National Center for Education Statistics: Integrated Postsecondary Education Data System Completions Survey

**Table 25. Number of earned master's degrees conferred by institutions in Puerto Rico to Hispanics, by field: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total, all Hispanic recipients									
Total, all fields .....	8,495	9,684	10,256	11,371	13,177	13,905	15,394	16,360	17,416
Science and engineering .....	1,587	1,736	1,806	2,092	2,514	2,585	2,730	2,882	3,071
Engineering .....	446	468	488	581	719	711	748	765	807
Sciences .....	1,141	1,268	1,318	1,511	1,795	1,874	1,982	2,117	2,264
Natural sciences .....	431	494	503	574	680	665	677	720	737
Physical science <sup>1</sup> .....	98	96	93	114	114	129	127	139	149
Mathematical science .....	51	85	66	78	75	75	91	71	91
Computer science .....	118	128	149	162	169	198	173	197	193
Biological science .....	120	136	146	151	138	167	191	208	188
Agricultural science .....	44	49	49	69	184	96	95	105	116
Social sciences .....	710	774	815	937	1,115	1,209	1,305	1,397	1,527
Social science .....	341	383	396	474	557	553	596	626	676
Psychology .....	369	391	419	463	558	656	709	771	851
Non-S&E <sup>2</sup> .....	6,908	7,948	8,450	9,279	10,663	11,320	12,664	13,478	14,345
Hispanic recipients from institutions in Puerto Rico									
Total, all fields .....	1,062	1,223	1,224	1,241	1,682	1,523	1,491	1,544	1,693
Science and engineering .....	207	214	140	160	311	289	288	339	371
Engineering .....	32	23	0	1	86	64	75	83	106
Sciences .....	175	191	140	159	225	225	213	256	265
Natural sciences .....	65	83	27	47	68	72	91	105	108
Physical science <sup>1</sup> .....	21	16	9	12	18	17	31	33	37
Mathematical science .....	7	17	7	14	8	9	6	7	6
Computer science .....	0	0	0	4	5	6	5	9	12
Biological science .....	30	39	11	17	18	20	37	28	22
Agricultural science .....	7	11	0	0	19	20	12	28	31
Social sciences .....	110	108	113	112	157	153	122	151	157
Social science .....	25	31	32	30	36	17	28	27	18
Psychology .....	85	77	81	82	121	136	94	124	139
Non-S&E <sup>2</sup> .....	855	1,009	1,084	1,081	1,371	1,234	1,203	1,205	1,322
Percent from institutions in Puerto Rico									
Total, all fields .....	12.5	12.6	11.9	10.9	12.8	11.0	9.7	9.4	9.7
Science and engineering .....	13.0	12.3	7.8	7.6	12.4	11.2	10.5	11.8	12.1
Engineering .....	7.2	4.9	.0	.2	12.0	9.0	10.0	10.8	13.1
Sciences .....	15.3	15.1	10.6	10.5	12.5	12.0	10.7	12.1	11.7
Natural sciences .....	15.1	16.8	5.4	8.2	10.0	10.8	13.4	14.6	14.7
Physical science <sup>1</sup> .....	21.4	16.7	9.7	10.5	15.8	13.2	24.4	23.7	24.8
Mathematical science .....	13.7	20.0	10.6	17.9	10.7	12.0	6.6	9.9	6.6
Computer science .....	.0	.0	.0	2.5	3.0	3.0	2.9	4.6	6.2
Biological science .....	25.0	28.7	7.5	11.3	13.0	12.0	19.4	13.5	11.7
Agricultural science .....	15.9	22.4	.0	.0	10.3	20.8	12.6	26.7	26.7
Social sciences .....	15.5	14.0	13.9	12.0	14.1	12.7	9.3	10.8	10.3
Social science .....	7.3	8.1	8.1	6.3	6.5	3.1	4.7	4.3	2.7
Psychology .....	23.0	19.7	19.3	17.7	21.7	20.7	13.3	16.1	16.3
Non-S&E <sup>2</sup> .....	12.4	12.7	12.8	11.6	12.9	10.9	9.5	8.9	9.2

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and oceanographic sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

**NOTES:** Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

See section C for specific fields included in each category.

**SOURCE:** Tabulated by National Science Foundation/Division of Science Resources Studies; data from Department of Education/National Center for Education Statistics: Integrated Postsecondary Education Data System Completions Survey



**Table 26. Number of earned master's degrees conferred by institutions in Puerto Rico to Hispanic men, by field: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total, all Hispanic recipients									
Total, all fields .....	3,713	4,124	4,381	4,875	5,483	5,725	6,072	6,466	6,848
Science and engineering .....	959	992	1,066	1,255	1,427	1,458	1,478	1,576	1,596
Engineering .....	373	378	408	480	582	578	580	589	629
Sciences .....	586	614	658	775	845	880	898	987	967
Natural sciences .....	275	294	309	341	414	423	402	435	415
Physical science <sup>1</sup> .....	63	73	64	76	80	88	80	86	87
Mathematical science .....	33	52	47	50	44	53	57	50	51
Computer science .....	93	84	98	104	120	151	125	141	123
Biological science .....	61	54	69	76	65	75	85	107	96
Agricultural science .....	25	31	31	35	105	56	55	51	58
Social sciences .....	311	320	349	434	431	457	496	552	552
Social science .....	178	196	218	282	290	283	320	344	333
Psychology .....	133	124	131	152	141	174	176	208	219
Non-S&E <sup>2</sup> .....	2,754	3,132	3,315	3,620	4,056	4,267	4,594	4,890	5,252
Hispanic recipients from institutions in Puerto Rico									
Total, all fields .....	365	386	398	402	586	500	497	531	574
Science and engineering .....	103	80	48	56	154	130	144	148	169
Engineering .....	26	15	0	1	68	51	61	56	76
Sciences .....	77	65	48	55	86	79	83	92	93
Natural sciences .....	33	39	12	23	43	47	49	48	54
Physical science <sup>1</sup> .....	11	9	4	6	15	14	16	19	17
Mathematical science .....	3	9	4	11	5	6	3	4	6
Computer science .....	0	0	0	1	3	3	3	4	6
Biological science .....	14	13	4	5	8	10	19	11	13
Agricultural science .....	5	8	0	0	12	14	8	10	12
Social sciences .....	44	26	36	32	43	32	34	44	39
Social science .....	10	8	14	16	25	9	14	16	10
Psychology .....	34	18	22	16	18	23	20	28	29
Non-S&E <sup>2</sup> .....	262	306	350	346	432	370	353	383	405
Percent from institutions in Puerto Rico									
Total, all fields .....	9.8	9.4	9.1	8.2	10.7	8.7	8.2	8.2	8.4
Science and engineering .....	10.7	8.1	4.5	4.5	10.8	8.9	9.7	9.4	10.6
Engineering .....	7.0	4.0	.0	.2	11.7	8.8	10.5	9.5	12.1
Sciences .....	13.1	10.6	7.3	7.1	10.2	9.0	9.2	9.3	9.6
Natural sciences .....	12.0	13.3	3.9	6.7	10.4	11.1	12.2	11.0	13.0
Physical science <sup>1</sup> .....	17.5	12.3	6.3	7.9	18.8	15.9	20.0	22.1	19.5
Mathematical science .....	9.1	17.3	8.5	22.0	11.4	11.3	5.3	8.0	11.8
Computer science .....	.0	.0	.0	1.0	2.5	2.0	2.4	2.8	4.9
Biological science .....	23.0	24.1	5.8	6.6	12.3	13.3	22.4	10.3	13.5
Agricultural science .....	20.0	25.8	.0	.0	11.4	25.0	14.5	19.6	20.7
Social sciences .....	14.1	8.1	10.3	7.4	10.0	7.0	6.9	8.0	7.1
Social science .....	5.6	4.1	6.4	5.7	8.6	3.2	4.4	4.7	3.0
Psychology .....	25.6	14.5	16.8	10.5	12.8	13.2	11.4	13.5	13.2
Non-S&E <sup>2</sup> .....	9.5	9.8	10.6	9.6	10.7	8.7	7.7	7.8	7.7

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and oceanographic sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

**NOTES:** Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

See section C for specific fields included in each category.

**SOURCE:** Tabulated by National Science Foundation/Division of Science Resources Studies; data from Department of Education/National Center for Education Statistics: Integrated Postsecondary Education Data System Completions Survey

**Table 27. Number of earned master's degrees conferred by institutions in Puerto Rico to Hispanic women, by field: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total, all Hispanic recipients									
Total, all fields .....	4,782	5,560	5,875	6,496	7,694	8,180	9,322	9,894	10,568
Science and engineering .....	628	744	740	837	1,087	1,127	1,252	1,306	1,475
Engineering .....	73	90	80	101	137	133	168	176	178
Sciences .....	555	654	660	736	950	994	1,084	1,130	1,297
Natural sciences .....	156	200	194	233	266	242	275	285	322
Physical science <sup>1</sup> .....	35	23	29	38	34	41	47	53	62
Mathematical science .....	18	33	19	28	31	22	34	21	40
Computer science .....	25	44	51	58	49	47	48	56	70
Biological science .....	59	82	77	75	73	92	106	101	92
Agricultural science .....	19	18	18	34	79	40	40	54	58
Social sciences .....	399	454	466	503	684	752	809	845	975
Social science .....	163	187	178	192	267	270	276	282	343
Psychology .....	236	267	288	311	417	482	533	563	632
Non-S&E <sup>2</sup> .....	4,154	4,816	5,135	5,659	6,607	7,053	8,070	8,588	9,093
Hispanic recipients from institutions in Puerto Rico									
Total, all fields .....	697	837	826	839	1,096	1,023	994	1,013	1,119
Science and engineering .....	104	134	92	104	157	159	144	191	202
Engineering .....	6	8	0	0	18	13	14	27	30
Sciences .....	98	126	92	104	139	146	130	164	172
Natural sciences .....	32	44	15	24	25	25	42	57	54
Physical science <sup>1</sup> .....	10	7	5	6	3	3	15	14	20
Mathematical science .....	4	8	3	3	3	3	3	3	0
Computer science .....	0	0	0	3	2	3	2	5	6
Biological science .....	16	26	7	12	10	10	18	17	9
Agricultural science .....	2	3	0	0	7	6	4	18	19
Social sciences .....	66	82	77	80	114	121	88	107	118
Social science .....	15	23	18	14	11	8	14	11	8
Psychology .....	51	59	59	66	103	113	74	96	110
Non-S&E <sup>2</sup> .....	593	703	734	735	939	864	850	822	917
Percent from institutions in Puerto Rico									
Total, all fields .....	14.6	15.1	14.1	12.9	14.2	12.5	10.7	10.2	10.6
Science and engineering .....	16.6	18.0	12.4	12.4	14.4	14.1	11.5	14.6	13.7
Engineering .....	8.2	8.9	.0	.0	13.1	9.8	8.3	15.3	16.9
Sciences .....	17.7	19.3	13.9	14.1	14.6	14.7	12.0	14.5	13.3
Natural sciences .....	20.5	22.0	7.7	10.3	9.4	10.3	15.3	20.0	16.8
Physical science <sup>1</sup> .....	28.6	30.4	17.2	15.8	8.8	7.3	31.9	26.4	32.3
Mathematical science .....	22.2	24.2	15.8	10.7	9.7	13.6	8.8	14.3	.0
Computer science .....	.0	.0	.0	5.2	4.1	6.4	4.2	8.9	8.6
Biological science .....	27.1	31.7	9.1	16.0	13.7	10.9	17.0	16.8	9.8
Agricultural science .....	10.5	16.7	.0	.0	8.9	15.0	10.0	33.3	32.8
Social sciences .....	16.5	18.1	16.5	15.9	16.7	16.1	10.9	12.7	12.1
Social science .....	9.2	12.3	10.1	7.3	4.1	3.0	5.1	3.9	2.3
Psychology .....	21.6	22.1	20.5	21.2	24.7	23.4	13.9	17.1	17.4
Non-S&E <sup>2</sup> .....	14.3	14.6	14.3	13.0	14.2	12.3	10.5	9.6	10.1

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and oceanographic sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

**NOTES:** Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

See section C for specific fields included in each category.

**SOURCE:** Tabulated by National Science Foundation/Division of Science Resources Studies; data from Department of Education/National Center for Education Statistics: Integrated Postsecondary Education Data System Completions Survey

**Table 28. Number of earned doctoral degrees conferred by institutions in Puerto Rico to Hispanics, by field: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total, all Hispanic recipients									
Total, all fields .....	837	868	909	973	1,030	1,054	1,103	1,191	1,319
Science and engineering .....	468	493	513	542	548	563	618	656	753
Engineering .....	54	61	71	66	66	76	97	95	110
Sciences .....	414	432	442	476	482	487	521	561	643
Natural sciences .....	212	212	228	249	274	253	251	294	315
Physical science <sup>1</sup> .....	85	81	88	92	98	86	85	84	70
Mathematical science .....	10	9	12	16	13	15	10	20	27
Computer science .....	5	12	8	7	7	6	16	17	14
Biological science .....	89	95	102	114	131	125	128	146	169
Agricultural science .....	23	15	18	20	25	21	12	27	35
Social sciences .....	202	220	214	227	208	234	270	267	328
Social science .....	93	98	81	96	75	89	97	96	121
Psychology .....	109	122	133	131	133	145	173	171	207
Non-S&E <sup>2</sup> .....	369	375	396	431	482	491	485	535	566
Hispanic recipients from institutions in Puerto Rico									
Total, all fields .....	33	25	50	31	57	51	43	89	98
Science and engineering .....	18	12	26	14	30	36	29	50	71
Engineering .....	0	0	0	0	0	0	0	0	0
Sciences .....	18	12	26	14	30	36	29	50	71
Natural sciences .....	8	5	5	6	12	5	3	6	9
Physical science <sup>1</sup> .....	6	3	4	4	7	5	3	5	4
Mathematical science .....	0	0	0	0	0	0	0	0	0
Computer science .....	0	0	0	0	0	0	0	0	0
Biological science .....	2	2	1	2	5	0	0	1	5
Agricultural science .....	0	0	0	0	0	0	0	0	0
Social sciences .....	10	7	21	8	18	31	26	44	62
Social science .....	0	1	5	0	1	0	0	1	0
Psychology .....	10	6	16	8	17	31	26	43	62
Non-S&E <sup>2</sup> .....	15	13	24	17	27	15	14	39	27
Percent from institutions in Puerto Rico									
Total, all fields .....	3.9	2.9	5.5	3.2	5.5	4.8	3.9	7.5	7.4
Science and engineering .....	3.8	2.4	5.1	2.6	5.5	6.4	4.7	7.6	9.4
Engineering .....	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sciences .....	4.3	2.8	5.9	2.9	6.2	7.4	5.6	8.9	11.0
Natural sciences .....	3.8	2.4	2.2	2.4	4.4	2.0	1.2	2.0	2.9
Physical science <sup>1</sup> .....	7.1	3.7	4.5	4.3	7.1	5.8	3.5	6.0	5.7
Mathematical science .....	.0	.0	.0	.0	.0	.0	.0	.0	.0
Computer science .....	.0	.0	.0	.0	.0	.0	.0	.0	.0
Biological science .....	2.2	2.1	1.0	1.8	3.8	.0	.0	.7	3.0
Agricultural science .....	.0	.0	.0	.0	.0	.0	.0	.0	.0
Social sciences .....	5.0	3.2	9.8	3.5	8.7	13.2	9.6	16.5	18.9
Social science .....	.0	1.0	6.2	.0	1.3	.0	.0	1.0	.0
Psychology .....	9.2	4.9	12.0	6.1	12.8	21.4	15.0	25.1	30.0
Non-S&E <sup>2</sup> .....	4.1	3.5	6.1	3.9	5.6	3.1	2.9	7.3	4.8

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and oceanographic sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

**NOTES:** Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

See section C for specific fields included in each category.

**SOURCE:** Tabulated by National Science Foundation/Division of Science Resources Studies; data from NSF/SRS: Survey of Earned Doctorates

**Table 29. Number of earned doctoral degrees conferred by institutions in Puerto Rico to Hispanic men, by field: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total, all Hispanic recipients									
Total, all fields .....	449	459	482	517	518	537	560	624	678
Science and engineering .....	290	307	308	320	318	336	346	392	426
Engineering .....	45	51	56	54	60	65	82	72	97
Sciences .....	245	256	252	266	258	271	264	320	329
Natural sciences .....	138	152	151	162	174	167	157	198	197
Physical science <sup>1</sup> .....	55	68	62	70	75	59	67	65	53
Mathematical science .....	6	5	9	14	10	11	10	14	20
Computer science .....	4	11	7	6	7	2	9	15	13
Biological science .....	56	56	59	57	69	79	62	84	89
Agricultural science .....	17	12	14	15	13	16	9	20	22
Social sciences .....	107	104	101	104	84	104	107	122	132
Social science .....	55	52	46	59	41	56	54	59	77
Psychology .....	52	52	55	45	43	48	53	63	55
Non-S&E <sup>2</sup> .....	159	152	174	197	200	201	214	232	252
Hispanic recipients from institutions in Puerto Rico									
Total, all fields .....	9	7	14	10	18	16	15	30	20
Science and engineering .....	6	3	11	7	11	13	11	18	14
Engineering .....	0	0	0	0	0	0	0	0	0
Sciences .....	6	3	11	7	11	13	11	18	14
Natural sciences .....	2	2	4	4	6	4	2	3	4
Physical science <sup>1</sup> .....	1	2	3	2	5	4	2	3	0
Mathematical science .....	0	0	0	0	0	0	0	0	0
Computer science .....	0	0	0	0	0	0	0	0	0
Biological science .....	1	0	1	2	1	0	0	0	4
Agricultural science .....	0	0	0	0	0	0	0	0	0
Social sciences .....	4	1	7	3	5	9	9	15	10
Social science .....	0	0	0	0	0	0	0	0	0
Psychology .....	4	1	7	3	5	9	9	15	10
Non-S&E <sup>2</sup> .....	3	4	3	3	7	3	4	12	6
Percent from institutions in Puerto Rico									
Total, all fields .....	2.0	1.5	2.9	1.9	3.5	3.0	2.7	4.8	2.9
Science and engineering .....	2.1	1.0	3.6	2.2	3.5	3.9	3.2	4.6	3.3
Engineering .....	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sciences .....	2.4	1.2	4.4	2.6	4.3	4.8	4.2	5.6	4.3
Natural sciences .....	1.4	1.3	2.6	2.5	3.4	2.4	1.3	1.5	2.0
Physical science <sup>1</sup> .....	1.8	2.9	4.8	2.9	6.7	6.8	3.0	4.6	.0
Mathematical science .....	.0	.0	.0	.0	.0	.0	.0	.0	.0
Computer science .....	.0	.0	.0	.0	.0	.0	.0	.0	.0
Biological science .....	1.8	.0	1.7	3.5	1.4	.0	.0	.0	4.5
Agricultural science .....	.0	.0	.0	.0	.0	.0	.0	.0	.0
Social sciences .....	3.7	1.0	6.9	2.9	6.0	8.7	8.4	12.3	7.6
Social science .....	.0	.0	.0	.0	.0	.0	.0	.0	.0
Psychology .....	7.7	1.9	12.7	6.7	11.6	18.8	17.0	23.8	18.2
Non-S&E <sup>2</sup> .....	1.9	2.6	1.7	1.5	3.5	1.5	1.9	5.2	2.4

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and oceanographic sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

**NOTES:** Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

See section C for specific fields included in each category.

**SOURCE:** Tabulated by National Science Foundation/Division of Science Resources Studies; data from NSF/SRS: Survey of Earned Doctorates

**Table 30. Number of earned doctoral degrees conferred by institutions in Puerto Rico to Hispanic women, by field: 1990-1998**

Field	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total, all Hispanic recipients									
Total, all fields .....	388	409	427	456	512	517	543	567	640
Science and engineering .....	178	186	205	222	230	227	272	264	327
Engineering .....	9	10	15	12	6	11	15	23	13
Sciences .....	169	176	190	210	224	216	257	241	314
Natural sciences .....	74	60	77	87	100	86	94	96	118
Physical science <sup>1</sup> .....	30	13	26	22	23	27	18	19	17
Mathematical science .....	4	4	3	2	3	4	0	6	7
Computer science .....	1	1	1	1	0	4	7	2	1
Biological science .....	33	39	43	57	62	46	66	62	80
Agricultural science .....	6	3	4	5	12	5	3	7	13
Social sciences .....	95	116	113	123	124	130	163	145	196
Social science .....	38	46	35	37	34	33	43	37	44
Psychology .....	57	70	78	86	90	97	120	108	152
Non-S&E <sup>2</sup> .....	210	223	222	234	282	290	271	303	313
Hispanic recipients from institutions in Puerto Rico									
Total, all fields .....	24	18	36	21	39	35	28	59	78
Science and engineering .....	12	9	15	7	19	23	18	32	57
Engineering .....	0	0	0	0	0	0	0	0	0
Sciences .....	12	9	15	7	19	23	18	32	57
Natural sciences .....	6	3	1	2	6	1	1	3	5
Physical science <sup>1</sup> .....	5	1	1	2	2	1	1	2	4
Mathematical science .....	0	0	0	0	0	0	0	0	0
Computer science .....	0	0	0	0	0	0	0	0	0
Biological science .....	1	2	0	0	4	0	0	1	1
Agricultural science .....	0	0	0	0	0	0	0	0	0
Social sciences .....	6	6	14	5	13	22	17	29	52
Social science .....	0	1	5	0	1	0	0	1	0
Psychology .....	6	5	9	5	12	22	17	28	52
Non-S&E <sup>2</sup> .....	12	9	21	14	20	12	10	27	21
Percent from institutions in Puerto Rico									
Total, all fields .....	6.2	4.4	8.4	4.6	7.6	6.8	5.2	10.4	12.2
Science and engineering .....	6.7	4.8	7.3	3.2	8.3	10.1	6.6	12.1	17.4
Engineering .....	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sciences .....	7.1	5.1	7.9	3.3	8.5	10.6	7.0	13.3	18.2
Natural sciences .....	8.1	5.0	1.3	2.3	6.0	1.2	1.1	3.1	4.2
Physical science <sup>1</sup> .....	16.7	7.7	3.8	9.1	8.7	3.7	5.6	10.5	23.5
Mathematical science .....	.0	.0	.0	.0	.0	.0	.0	.0	.0
Computer science .....	.0	.0	.0	.0	0	.0	.0	.0	.0
Biological science .....	3.0	5.1	.0	.0	6.5	.0	.0	1.6	1.2
Agricultural science .....	.0	.0	.0	.0	.0	.0	.0	.0	.0
Social sciences .....	6.3	5.2	12.4	4.1	10.5	16.9	10.4	20.0	26.5
Social science .....	.0	2.2	14.3	.0	2.9	.0	.0	2.7	.0
Psychology .....	10.5	7.1	11.5	5.8	13.3	22.7	14.2	25.9	34.2
Non-S&E <sup>2</sup> .....	5.7	4.0	9.5	6.0	7.1	4.1	3.7	8.9	6.7

<sup>1</sup> In this report, "Physical science" includes earth, atmospheric, and oceanographic sciences, as well as physics, astronomy, and chemistry.

<sup>2</sup> Non-S&E refers to non-science and non-engineering.

**NOTES:** Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

See section C for specific fields included in each category.

**SOURCE:** Tabulated by National Science Foundation/Division of Science Resources Studies; data from NSF/SRS: Survey of Earned Doctorates

**Table 31. Number of earned bachelor's degrees awarded in engineering technologies, by citizenship, race/ethnicity and sex of recipient: 1990-1998**

Citizenship and race/ethnicity	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total									
Total .....	19,150	18,294	17,113	16,987	16,654	16,542	16,156	14,584	14,747
U.S. citizens and permanent residents, total <sup>1</sup> .....	18,423	17,582	16,597	16,546	16,161	15,992	15,571	14,027	14,157
White, non-Hispanics .....	15,251	14,279	13,286	13,245	12,909	12,616	12,032	10,946	10,977
Asians .....	755	768	778	768	720	727	730	473	471
Underrepresented minorities, total .....	2,053	2,033	2,074	2,096	2,160	2,317	2,470	2,244	2,210
Black, non-Hispanics .....	1,200	1,227	1,239	1,132	1,249	1,319	1,370	1,423	1,369
Hispanics .....	784	731	747	853	813	883	988	722	738
American Indians or Alaskan Natives .....	69	75	88	111	98	115	112	99	103
U.S. citizens and permanent residents, unknown race/ethnicity .....	364	502	459	437	372	332	339	364	499
Nonresident aliens <sup>2</sup> .....	727	712	516	441	493	550	585	557	590
Men									
Total .....	17,113	16,329	15,309	15,089	14,835	14,649	14,325	12,889	12,931
U.S. citizens and permanent residents, total <sup>1</sup> .....	16,431	15,660	14,841	14,687	14,401	14,141	13,794	12,379	12,407
White, non-Hispanics .....	13,679	12,819	12,069	11,908	11,694	11,332	10,882	9,836	9,796
Asians .....	679	700	690	678	641	637	656	421	418
Underrepresented minorities, total .....	1,733	1,692	1,659	1,694	1,729	1,881	1,956	1,781	1,756
Black, non-Hispanics .....	953	968	949	892	959	1,042	1,041	1,095	1,072
Hispanics .....	722	655	629	710	687	741	828	604	599
American Indians or Alaskan Natives .....	58	69	81	92	83	98	87	82	85
U.S. citizens and permanent residents, unknown race/ethnicity .....	340	449	423	407	337	291	300	341	437
Nonresident aliens <sup>2</sup> .....	682	669	468	402	434	508	531	510	524
Women									
Total .....	2,037	1,965	1,804	1,898	1,819	1,893	1,831	1,695	1,816
U.S. citizens and permanent residents, total <sup>1</sup> .....	1,992	1,922	1,756	1,859	1,760	1,851	1,777	1,648	1,750
White, non-Hispanics .....	1,572	1,460	1,217	1,337	1,215	1,284	1,150	1,110	1,181
Asians .....	76	68	88	90	79	90	74	52	53
Underrepresented minorities, total .....	320	341	415	402	431	436	514	463	454
Black, non-Hispanics .....	247	259	290	240	290	277	329	328	297
Hispanics .....	62	76	118	143	126	142	160	118	139
American Indians or Alaskan Natives .....	11	6	7	19	15	17	25	17	18
U.S. citizens and permanent residents, unknown race/ethnicity .....	24	53	36	30	35	41	39	23	62
Nonresident aliens <sup>2</sup> .....	45	43	48	39	59	42	54	47	66

<sup>1</sup> Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

<sup>2</sup> Nonresident aliens include foreign citizens on temporary visas only.

**NOTES:** Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

Engineering technologies are instructional programs that prepare individuals to support and assist engineering and related professionals or to independently provide such services. Programs stress specialized, practical knowledge related to the mathematical, scientific, or technical aspects of engineering and related sciences.

**SOURCE:** Tabulated by National Science Foundation/Division of Science Resources Studies; data from Department of Education/National Center for Education Statistics: Integrated Postsecondary Education Data System Completions Survey

**Table 32. Number of earned master's degrees awarded in engineering technologies, by citizenship, race/ethnicity and sex of recipient: 1990-1998**

Citizenship and race/ethnicity	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total									
Total .....	1,194	1,188	1,278	1,555	1,547	1,577	1,651	1,414	1,700
U.S. citizens and permanent residents, total <sup>1</sup> .....	1,032	1,016	1,063	1,276	1,256	1,268	1,353	1,153	1,432
White, non-Hispanics .....	823	830	817	1,041	994	982	1,053	950	1,115
Asians .....	79	60	58	40	46	55	61	49	62
Underrepresented minorities, total .....	58	69	92	94	112	131	135	115	205
Black, non-Hispanics .....	44	47	64	61	72	85	81	86	150
Hispanics .....	9	19	23	25	37	40	47	26	49
American Indians or Alaskan Natives .....	5	3	5	8	3	6	7	3	6
U.S. citizens and permanent residents, unknown race/ethnicity .....	72	57	96	101	104	100	104	39	50
Nonresident aliens <sup>2</sup> .....	162	172	215	279	291	309	298	261	268
Men									
Total .....	888	888	971	1,172	1,164	1,136	1,179	1,012	1,158
U.S. citizens and permanent residents, total <sup>1</sup> .....	757	757	815	961	949	940	990	842	1,002
White, non-Hispanics .....	607	619	619	783	753	726	777	704	801
Asians .....	40	39	45	28	33	41	41	34	40
Underrepresented minorities, total .....	43	47	66	57	75	89	87	76	130
Black, non-Hispanics .....	32	29	46	32	48	53	51	56	95
Hispanics .....	7	17	16	18	27	32	32	17	31
American Indians or Alaskan Natives .....	4	1	4	7	0	4	4	3	4
U.S. citizens and permanent residents, unknown race/ethnicity .....	67	52	85	93	88	84	85	28	31
Nonresident aliens <sup>2</sup> .....	131	131	156	211	215	196	189	170	156
Women									
Total .....	306	300	307	383	383	441	472	402	542
U.S. citizens and permanent residents, total <sup>1</sup> .....	275	259	248	315	307	328	363	311	430
White, non-Hispanics .....	216	211	198	258	241	256	276	246	314
Asians .....	39	21	13	12	13	14	20	15	22
Underrepresented minorities, total .....	15	22	26	37	37	42	48	39	75
Black, non-Hispanics .....	12	18	18	29	24	32	30	30	55
Hispanics .....	2	2	7	7	10	8	15	9	18
American Indians or Alaskan Natives .....	1	2	1	1	3	2	3	0	2
U.S. citizens and permanent residents, unknown race/ethnicity .....	5	5	11	8	16	16	19	11	19
Nonresident aliens <sup>2</sup> .....	31	41	59	68	76	113	109	91	112

<sup>1</sup> Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

<sup>2</sup> Nonresident aliens include foreign citizens on temporary visas only.

**NOTES:** Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

Engineering technologies are instructional programs that prepare individuals to support and assist engineering and related professionals or to independently provide such services. Programs stress specialized, practical knowledge related to the mathematical, scientific, or technical aspects of engineering and related sciences.

**SOURCE:** Tabulated by National Science Foundation/Division of Science Resources Studies; data from Department of Education/National Center for Education Statistics: Integrated Postsecondary Education Data System Completions Survey

**Table 33. Number of earned bachelor's degrees awarded in health fields, by citizenship, race/ethnicity and sex of recipient: 1990-1998**

Citizenship and race/ethnicity	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total									
Total .....	59,852	60,228	62,655	67,942	75,229	80,629	84,759	86,243	85,334
U.S. citizens and permanent residents, total <sup>1</sup> .....	59,056	59,250	61,792	66,929	74,200	79,608	83,641	85,135	84,427
White, non-Hispanics .....	48,405	48,798	51,328	55,482	61,624	64,992	67,509	67,823	65,778
Asians .....	1,823	1,981	2,229	2,469	3,024	3,488	3,952	4,428	4,696
Underrepresented minorities, total .....	6,890	6,881	7,048	7,758	8,225	9,453	10,417	10,915	11,867
Black, non-Hispanics .....	4,056	4,122	4,151	4,670	4,817	5,691	6,186	6,438	7,059
Hispanics .....	2,580	2,481	2,571	2,747	3,018	3,305	3,722	3,939	4,221
American Indians or Alaskan Natives .....	254	278	326	341	390	457	509	538	587
U.S. citizens and permanent residents, unknown race/ethnicity .....	1,938	1,590	1,187	1,220	1,327	1,675	1,763	1,969	2,086
Nonresident aliens <sup>2</sup> .....	796	978	863	1,013	1,029	1,021	1,118	1,108	907
Men									
Total .....	9,418	9,855	10,305	11,467	13,180	14,564	15,561	16,008	15,252
U.S. citizens and permanent residents, total <sup>1</sup> .....	9,176	9,572	10,057	11,189	12,912	14,295	15,309	15,717	15,003
White, non-Hispanics .....	7,521	7,717	8,230	9,081	10,627	11,503	12,249	12,367	11,361
Asians .....	392	468	541	561	694	891	968	1,108	1,163
Underrepresented minorities, total .....	1,030	1,094	1,032	1,285	1,315	1,595	1,781	1,876	2,098
Black, non-Hispanics .....	502	525	530	673	659	850	920	940	1,055
Hispanics .....	491	519	441	545	576	652	768	823	902
American Indians or Alaskan Natives .....	37	50	61	67	80	93	93	113	141
U.S. citizens and permanent residents, unknown race/ethnicity .....	233	293	254	262	276	306	311	366	381
Nonresident aliens <sup>2</sup> .....	242	283	248	278	268	269	252	291	249
Women									
Total .....	50,434	50,373	52,350	56,475	62,049	66,065	69,198	70,235	70,082
U.S. citizens and permanent residents, total <sup>1</sup> .....	49,880	49,678	51,735	55,740	61,288	65,313	68,332	69,418	69,424
White, non-Hispanics .....	40,884	41,081	43,098	46,401	50,997	53,489	55,260	55,456	54,417
Asians .....	1,431	1,513	1,688	1,908	2,330	2,597	2,984	3,320	3,533
Underrepresented minorities, total .....	5,860	5,787	6,016	6,473	6,910	7,858	8,636	9,039	9,769
Black, non-Hispanics .....	3,554	3,597	3,621	3,997	4,158	4,841	5,266	5,498	6,004
Hispanics .....	2,089	1,962	2,130	2,202	2,442	2,653	2,954	3,116	3,319
American Indians or Alaskan Natives .....	217	228	265	274	310	364	416	425	446
U.S. citizens and permanent residents, unknown race/ethnicity .....	1,705	1,297	933	958	1,051	1,369	1,452	1,603	1,705
Nonresident aliens <sup>2</sup> .....	554	695	615	735	761	752	866	817	658

<sup>1</sup> Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

<sup>2</sup> Nonresident aliens include foreign citizens on temporary visas only.

**NOTE:** Health fields include the medical and other health sciences shown in section C.

**SOURCE:** Tabulated by National Science Foundation/Division of Science Resources Studies; data from Department of Education/National Center for Education Statistics: Integrated Postsecondary Education Data System Completions Survey



**Table 34. Number of earned master's degrees awarded in health fields, by citizenship, race/ethnicity and sex of recipient: 1990-1998**

Citizenship and race/ethnicity	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total									
Total .....	20,482	21,398	23,213	25,823	28,314	31,481	33,475	36,014	39,274
U.S. citizens and permanent residents, total <sup>1</sup> .....	19,400	20,160	21,903	24,357	26,814	29,734	31,960	34,335	37,696
White, non-Hispanics .....	16,284	17,002	18,464	20,509	22,154	24,141	25,894	27,968	29,754
Asians .....	600	600	709	830	962	1,519	1,727	1,594	2,330
Underrepresented minorities, total .....	1,523	1,667	1,867	2,084	2,528	2,784	3,159	3,226	4,065
Black, non-Hispanics .....	886	1,004	1,092	1,251	1,431	1,609	1,804	1,910	2,384
Hispanics .....	558	572	685	718	967	1,049	1,205	1,150	1,488
American Indians or Alaskan Natives .....	79	91	90	115	130	126	150	166	193
U.S. citizens and permanent residents, unknown race/ethnicity .....	993	891	863	934	1,170	1,290	1,180	1,547	1,547
Nonresident aliens <sup>2</sup> .....	1,082	1,238	1,310	1,466	1,500	1,747	1,515	1,679	1,578
Men									
Total .....	4,554	4,499	4,714	5,248	5,874	6,793	6,980	7,697	8,692
U.S. citizens and permanent residents, total <sup>1</sup> .....	4,080	3,956	4,175	4,638	5,274	6,078	6,352	7,011	8,101
White, non-Hispanics .....	3,309	3,215	3,399	3,807	4,216	4,658	4,870	5,557	6,084
Asians .....	181	170	215	222	295	578	615	501	780
Underrepresented minorities, total .....	313	362	352	399	495	568	608	621	876
Black, non-Hispanics .....	158	194	171	207	220	280	298	325	433
Hispanics .....	135	146	158	172	250	261	271	264	393
American Indians or Alaskan Natives .....	20	22	23	20	25	27	39	32	50
U.S. citizens and permanent residents, unknown race/ethnicity .....	277	209	209	210	268	274	259	332	361
Nonresident aliens <sup>2</sup> .....	474	543	539	610	600	715	628	686	591
Women									
Total .....	15,928	16,899	18,499	20,575	22,440	24,688	26,495	28,317	30,582
U.S. citizens and permanent residents, total <sup>1</sup> .....	15,320	16,204	17,728	19,719	21,540	23,656	25,608	27,324	29,595
White, non-Hispanics .....	12,975	13,787	15,065	16,702	17,938	19,483	21,024	22,411	23,670
Asians .....	419	430	494	608	667	941	1,112	1,093	1,550
Underrepresented minorities, total .....	1,210	1,305	1,515	1,685	2,033	2,216	2,551	2,605	3,189
Black, non-Hispanics .....	728	810	921	1,044	1,211	1,329	1,506	1,585	1,951
Hispanics .....	423	426	527	546	717	788	934	886	1,095
American Indians or Alaskan Natives .....	59	69	67	95	105	99	111	134	143
U.S. citizens and permanent residents, unknown race/ethnicity .....	716	682	654	724	902	1,016	921	1,215	1,186
Nonresident aliens <sup>2</sup> .....	608	695	771	856	900	1,032	887	993	987

<sup>1</sup> Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

<sup>2</sup> Nonresident aliens include foreign citizens on temporary visas only.

**NOTE:** Health fields include the medical and other health sciences shown in section C.

**SOURCE:** Tabulated by National Science Foundation/Division of Science Resources Studies; data from Department of Education/National Center for Education Statistics: Integrated Postsecondary Education Data System Completions Survey

**Table 35. Number of earned doctoral degrees awarded in health fields, by citizenship, race/ethnicity and sex of recipient: 1990-1998**

Citizenship and race/ethnicity	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total									
Total .....	956	1,041	1,112	1,197	1,296	1,330	1,324	1,423	1,503
U.S. citizens and permanent residents, total <sup>1</sup> .....	756	839	855	939	1,050	1,044	1,016	1,028	1,155
White, non-Hispanics .....	662	720	735	800	867	836	823	827	932
Asians .....	39	44	52	45	94	93	87	87	85
Underrepresented minorities, total .....	50	61	56	89	77	99	91	94	106
Black, non-Hispanics .....	32	40	38	59	46	60	49	56	65
Hispanics .....	17	16	13	24	25	30	38	32	37
American Indians or Alaskan Natives .....	1	5	5	6	6	9	4	6	4
U.S. citizens and permanent residents, unknown race/ethnicity .....	5	14	12	5	12	16	15	20	32
Nonresident aliens <sup>2</sup> .....	166	171	226	214	230	246	267	273	287
Citizenship unknown .....	34	31	31	44	16	40	41	122	61
Men									
Total .....	364	369	394	408	444	478	456	470	489
U.S. citizens and permanent residents, total <sup>1</sup> .....	239	252	226	260	328	325	293	287	310
White, non-Hispanics .....	203	199	177	208	258	234	212	219	235
Asians .....	17	21	22	22	48	52	47	37	35
Underrepresented minorities, total .....	17	27	21	26	19	35	30	25	27
Black, non-Hispanics .....	14	17	14	18	11	18	13	15	14
Hispanics .....	2	7	4	8	7	15	16	8	12
American Indians or Alaskan Natives .....	1	3	3	0	1	2	1	2	1
U.S. citizens and permanent residents, unknown race/ethnicity .....	2	5	6	4	3	4	4	6	13
Nonresident aliens <sup>2</sup> .....	101	101	158	138	109	140	147	135	156
Citizenship unknown .....	24	16	10	10	7	13	16	48	23
Women									
Total .....	592	668	710	777	843	843	860	937	1,008
U.S. citizens and permanent residents, total <sup>1</sup> .....	517	587	629	679	722	719	723	740	845
White, non-Hispanics .....	459	521	558	592	609	602	611	608	697
Asians .....	22	23	30	23	46	41	40	50	50
Underrepresented minorities, total .....	33	34	35	63	58	64	61	69	79
Black, non-Hispanics .....	18	23	24	41	35	42	36	41	51
Hispanics .....	15	9	9	16	18	15	22	24	25
American Indians or Alaskan Natives .....	0	2	2	6	5	7	3	4	3
U.S. citizens and permanent residents, unknown race/ethnicity .....	3	9	6	1	9	12	11	13	19
Nonresident aliens <sup>2</sup> .....	65	70	67	76	115	104	116	138	130
Citizenship unknown .....	10	11	14	22	6	20	21	59	33

<sup>1</sup> Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

<sup>2</sup> Nonresident aliens include foreign citizens on temporary visas only.

**NOTE:** Health fields include the medical and other health sciences shown in section C.

**SOURCE:** Tabulated by National Science Foundation/Division of Science Resources Studies; data from NSF/SRS: Survey of Earned Doctorates

**Table 36. First-professional degrees awarded, by citizenship, race/ethnicity and sex of recipient: 1990-1998**

Citizenship and race/ethnicity	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total									
Total .....	71,551	72,636	74,801	76,068	76,000	76,457	77,505	79,169	78,945
U.S. citizens and permanent residents, total <sup>1</sup> .....	70,515	71,550	73,459	74,520	74,563	74,846	75,873	77,515	77,162
White, non-Hispanics .....	59,376	59,692	59,869	60,338	58,476	58,239	58,179	58,769	57,551
Asians .....	3,299	3,772	4,757	5,107	5,759	6,277	6,513	7,234	7,547
Underrepresented minorities, total .....	6,549	6,984	7,334	8,075	8,314	8,877	9,501	9,846	10,001
Black, non-Hispanics .....	3,337	3,535	3,568	4,078	4,329	4,657	4,905	5,153	5,310
Hispanics .....	2,959	3,191	3,472	3,632	3,623	3,816	4,143	4,192	4,147
American Indians or Alaskan Natives .....	253	258	294	365	362	404	453	501	544
U.S. citizens and permanent residents, unknown race/ethnicity .....	1,291	1,102	1,499	1,000	2,014	1,453	1,680	1,666	2,063
Nonresident aliens <sup>2</sup> .....	1,036	1,086	1,342	1,548	1,437	1,611	1,632	1,654	1,783
Men									
Total .....	44,309	44,226	45,459	45,565	45,068	45,193	45,182	45,747	45,033
U.S. citizens and permanent residents, total <sup>1</sup> .....	43,607	43,464	44,511	44,462	44,053	44,112	44,064	44,619	43,886
White, non-Hispanics .....	37,367	36,926	37,089	36,896	35,526	35,409	34,972	35,077	34,007
Asians .....	1,946	2,171	2,728	2,831	3,139	3,423	3,483	3,887	3,903
Underrepresented minorities, total .....	3,501	3,663	3,831	4,122	4,155	4,388	4,589	4,679	4,762
Black, non-Hispanics .....	1,627	1,653	1,620	1,777	1,851	2,036	2,058	2,139	2,229
Hispanics .....	1,738	1,868	2,054	2,156	2,088	2,134	2,281	2,258	2,251
American Indians or Alaskan Natives .....	136	142	157	189	216	218	250	282	282
U.S. citizens and permanent residents, unknown race/ethnicity .....	793	704	863	613	1,233	892	1,020	976	1,214
Nonresident aliens <sup>2</sup> .....	702	762	948	1,103	1,015	1,081	1,118	1,128	1,147
Women									
Total .....	27,242	28,410	29,342	30,503	30,932	31,264	32,323	33,422	33,912
U.S. citizens and permanent residents, total <sup>1</sup> .....	26,908	28,086	28,948	30,058	30,510	30,734	31,809	32,896	33,276
White, non-Hispanics .....	22,009	22,766	22,780	23,442	22,950	22,830	23,207	23,692	23,544
Asians .....	1,353	1,601	2,029	2,276	2,620	2,854	3,030	3,347	3,644
Underrepresented minorities, total .....	3,048	3,321	3,503	3,953	4,159	4,489	4,912	5,167	5,239
Black, non-Hispanics .....	1,710	1,882	1,948	2,301	2,478	2,621	2,847	3,014	3,081
Hispanics .....	1,221	1,323	1,418	1,476	1,535	1,682	1,862	1,934	1,896
American Indians or Alaskan Natives .....	117	116	137	176	146	186	203	219	262
U.S. citizens and permanent residents, unknown race/ethnicity .....	498	398	636	387	781	561	660	690	849
Nonresident aliens <sup>2</sup> .....	334	324	394	445	422	530	514	526	636

<sup>1</sup> Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

<sup>2</sup> Nonresident aliens include foreign citizens on temporary visas only.

**NOTE:** First-professional degrees are defined as those that require at least 6 years of college work for completion and 2 years of pre-professional training. First-professional degrees include: Chiropractic, Dentistry, Medicine, Optometry, Osteopathic Medicine, Pharmacy, Podiatry, Veterinary Medicine, Law, Divinity/Ministry, and Rabbinical and Talmudic Studies.

**SOURCE:** Tabulated by National Science Foundation/Division of Science Resources Studies; data from Department of Education/National Center for Education Statistics: Integrated Postsecondary Education Data System Completions Survey

**Table 37. First-professional degrees awarded in health fields, by citizenship, race/ethnicity and sex of recipient: 1990-1998**

Citizenship and race/ethnicity	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total									
Total .....	28,787	28,183	28,303	29,475	29,680	30,757	31,250	32,114	33,566
U.S. citizens and permanent residents, total <sup>1</sup> .....	28,252	27,677	27,600	28,693	28,861	29,867	30,329	31,226	32,536
White, non-Hispanics .....	23,027	21,958	21,333	22,076	21,730	22,242	22,314	23,187	23,351
Asians .....	2,290	2,472	2,909	3,317	3,637	3,996	4,075	4,127	4,901
Underrepresented minorities, total .....	2,724	2,777	2,840	2,915	3,000	3,110	3,412	3,469	3,714
Black, non-Hispanics .....	1,251	1,285	1,288	1,350	1,437	1,525	1,646	1,800	1,859
Hispanics .....	1,373	1,381	1,417	1,426	1,432	1,461	1,600	1,472	1,646
American Indians or Alaskan Natives .....	100	111	135	139	131	124	166	197	209
U.S. citizens and permanent residents, unknown race/ethnicity .....	211	470	518	385	494	519	528	443	570
Nonresident aliens <sup>2</sup> .....	535	506	703	782	819	890	921	888	1,030
Men									
Total .....	18,562	17,777	17,694	17,704	17,565	17,975	17,927	18,308	18,784
U.S. citizens and permanent residents, total <sup>1</sup> .....	18,235	17,449	17,220	17,194	17,034	17,424	17,335	17,719	18,164
White, non-Hispanics .....	15,232	14,207	13,607	13,608	13,243	13,352	13,215	13,702	13,548
Asians .....	1,363	1,440	1,718	1,859	1,972	2,190	2,217	2,198	2,525
Underrepresented minorities, total .....	1,510	1,479	1,587	1,490	1,504	1,572	1,589	1,583	1,765
Black, non-Hispanics .....	606	573	604	556	582	649	621	672	735
Hispanics .....	847	841	907	858	840	858	874	790	916
American Indians or Alaskan Natives .....	57	65	76	76	82	65	94	121	114
U.S. citizens and permanent residents, unknown race/ethnicity .....	130	323	308	237	315	310	314	236	326
Nonresident aliens <sup>2</sup> .....	327	328	474	510	531	551	592	589	620
Women									
Total .....	10,225	10,406	10,609	11,771	12,115	12,782	13,323	13,806	14,782
U.S. citizens and permanent residents, total <sup>1</sup> .....	10,017	10,228	10,380	11,499	11,827	12,443	12,994	13,507	14,372
White, non-Hispanics .....	7,795	7,751	7,726	8,468	8,487	8,890	9,099	9,485	9,803
Asians .....	927	1,032	1,191	1,458	1,665	1,806	1,858	1,929	2,376
Underrepresented minorities, total .....	1,214	1,298	1,253	1,425	1,496	1,538	1,823	1,886	1,949
Black, non-Hispanics .....	645	712	684	794	855	876	1,025	1,128	1,124
Hispanics .....	526	540	510	568	592	603	726	682	730
American Indians or Alaskan Natives .....	43	46	59	63	49	59	72	76	95
U.S. citizens and permanent residents, unknown race/ethnicity .....	81	147	210	148	179	209	214	207	244
Nonresident aliens <sup>2</sup> .....	208	178	229	272	288	339	329	299	410

<sup>1</sup> Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

<sup>2</sup> Nonresident aliens include foreign citizens on temporary visas only.

**NOTES:** First-professional degrees are defined as those that require at least 6 years of college work for completion and 2 years of pre-professional training.

Health fields include: Chiropractic, Dentistry, Medicine, Optometry, Osteopathic Medicine, Pharmacy, Podiatry, and Veterinary Medicine.

**SOURCE:** Tabulated by National Science Foundation/Division of Science Resources Studies; data from Department of Education/National Center for Education Statistics: Integrated Postsecondary Education Data System Completions Survey

**Table 38. First-professional degrees awarded in non-health fields, by citizenship, race/ethnicity and sex of recipient: 1990-1998**

Citizenship and race/ethnicity	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total									
Total .....	42,764	44,453	46,498	46,593	46,320	45,700	46,255	47,055	45,379
U.S. citizens and permanent residents, total <sup>1</sup> .....	42,263	43,873	45,859	45,827	45,702	44,979	45,544	46,289	44,626
White, non-Hispanics .....	36,349	37,734	38,536	38,262	36,746	35,997	35,865	35,582	34,200
Asians .....	1,009	1,300	1,848	1,790	2,122	2,281	2,438	3,107	2,646
Underrepresented minorities, total .....	3,825	4,207	4,494	5,160	5,314	5,767	6,089	6,377	6,287
Black, non-Hispanics .....	2,086	2,250	2,280	2,728	2,892	3,132	3,259	3,353	3,451
Hispanics .....	1,586	1,810	2,055	2,206	2,191	2,355	2,543	2,720	2,501
American Indians or Alaskan Natives .....	153	147	159	226	231	280	287	304	335
U.S. citizens and permanent residents, unknown race/ethnicity .....	1,080	632	981	615	1,520	934	1,152	1,223	1,493
Nonresident aliens <sup>2</sup> .....	501	580	639	766	618	721	711	766	753
Men									
Total .....	25,747	26,449	27,765	27,861	27,503	27,218	27,255	27,439	26,249
U.S. citizens and permanent residents, total <sup>1</sup> .....	25,372	26,015	27,291	27,268	27,019	26,688	26,729	26,900	25,722
White, non-Hispanics .....	22,135	22,719	23,482	23,288	22,283	22,057	21,757	21,375	20,459
Asians .....	583	731	1,010	972	1,167	1,233	1,266	1,689	1,378
Underrepresented minorities, total .....	1,991	2,184	2,244	2,632	2,651	2,816	3,000	3,096	2,997
Black, non-Hispanics .....	1,021	1,080	1,016	1,221	1,269	1,387	1,437	1,467	1,494
Hispanics .....	891	1,027	1,147	1,298	1,248	1,276	1,407	1,468	1,335
American Indians or Alaskan Natives .....	79	77	81	113	134	153	156	161	168
U.S. citizens and permanent residents, unknown race/ethnicity .....	663	381	555	376	918	582	706	740	888
Nonresident aliens <sup>2</sup> .....	375	434	474	593	484	530	526	539	527
Women									
Total .....	17,017	18,004	18,733	18,732	18,817	18,482	19,000	19,616	19,130
U.S. citizens and permanent residents, total <sup>1</sup> .....	16,891	17,858	18,568	18,559	18,683	18,291	18,815	19,389	18,904
White, non-Hispanics .....	14,214	15,015	15,054	14,974	14,463	13,940	14,108	14,207	13,741
Asians .....	426	569	838	818	955	1,048	1,172	1,418	1,268
Underrepresented minorities, total .....	1,834	2,023	2,250	2,528	2,663	2,951	3,089	3,281	3,290
Black, non-Hispanics .....	1,065	1,170	1,264	1,507	1,623	1,745	1,822	1,886	1,957
Hispanics .....	695	783	908	908	943	1,079	1,136	1,252	1,166
American Indians or Alaskan Natives .....	74	70	78	113	97	127	131	143	167
U.S. citizens and permanent residents, unknown race/ethnicity .....	417	251	426	239	602	352	446	483	605
Nonresident aliens <sup>2</sup> .....	126	146	165	173	134	191	185	227	226

<sup>1</sup> Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

<sup>2</sup> Nonresident aliens include foreign citizens on temporary visas only.

**NOTES:** First-professional degrees are defined as those that require at least 6 years of college work for completion and 2 years of pre-professional training.

Non-health fields include: Law, Divinity/Ministry, and Rabbinical and Talmudic Studies.

**SOURCE:** Tabulated by National Science Foundation/Division of Science Resources Studies; data from Department of Education/National Center for Education Statistics: Integrated Postsecondary Education Data System Completions Survey