

TABLE 7. Doctorates awarded to female U.S. citizens or permanent residents, by race/ethnicity and major field of study of recipients: 1995–2004

Race/ethnicity and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
All fields	14,185	14,337	14,168	14,592	14,401	14,634	14,236	13,935	14,223	14,221
Science and engineering	6,914	6,965	6,988	7,172	7,072	7,132	6,913	6,701	6,823	6,842
Science	6,394	6,439	6,476	6,720	6,581	6,641	6,434	6,259	6,383	6,372
Agricultural sciences	160	185	175	204	185	195	194	181	200	226
Biological sciences	1,859	1,941	1,920	1,921	1,864	1,987	1,971	1,918	1,916	1,997
Computer sciences	143	91	100	123	106	86	98	97	97	102
Earth, atmospheric, and ocean sciences	119	119	144	150	129	139	135	158	145	166
Mathematics	183	145	177	198	192	164	154	134	152	154
Physical sciences	708	610	587	604	553	546	527	541	569	510
Astronomy	25	35	26	27	26	35	29	22	31	33
Chemistry	537	439	431	463	426	422	408	421	417	382
Physics	143	134	124	107	95	83	87	92	113	86
Other physical sciences	3	2	6	7	6	6	3	6	8	9
Psychology	2,057	2,185	2,106	2,212	2,229	2,178	2,050	1,879	1,963	1,893
Social sciences	1,165	1,163	1,267	1,308	1,323	1,346	1,305	1,351	1,341	1,324
Engineering	520	526	512	452	491	491	479	442	440	470
Chemical engineering	88	98	77	76	75	100	93	88	72	80
Civil engineering	52	47	58	58	61	48	66	57	69	65
Electrical engineering	120	106	106	91	81	93	67	66	65	68
Mechanical engineering	49	60	55	50	60	56	38	44	40	44
Other engineering	211	215	216	177	214	194	215	187	194	213
Non-science and engineering	7,271	7,372	7,180	7,420	7,329	7,502	7,323	7,234	7,400	7,379
Education	3,752	3,832	3,687	3,690	3,801	3,755	3,561	3,602	3,783	3,625
Health	719	723	740	844	720	854	818	854	875	925
Humanities	1,980	2,046	2,033	2,106	2,083	2,175	2,226	2,042	2,052	2,059
Professional/other/unknown	820	771	720	780	725	718	718	736	690	770
American Indian/Alaska Native, all fields	68	85	88	85	118	93	82	81	84	72
Science and engineering	26	35	34	42	55	45	32	33	39	27
Science	26	33	31	38	53	41	30	33	36	25
Agricultural sciences	0	4	0	2	0	1	0	0	1	2
Biological sciences	5	9	3	6	10	7	7	6	8	4
Computer sciences	0	2	1	0	1	0	0	0	0	0
Earth, atmospheric, and ocean sciences	0	0	1	1	3	1	0	0	1	0
Mathematics	1	0	0	2	0	1	1	1	1	0
Physical sciences	3	1	0	1	3	2	2	0	1	1
Astronomy	0	0	0	0	1	1	0	0	0	0
Chemistry	3	1	0	1	2	1	2	0	1	0
Physics	0	0	0	0	0	0	0	0	0	1
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	8	9	12	18	23	19	12	8	14	9
Social sciences	9	8	14	8	13	10	8	18	10	9
Engineering	0	2	3	4	2	4	2	0	3	2
Chemical engineering	0	0	1	3	1	1	0	0	1	1
Civil engineering	0	1	1	0	1	1	0	0	0	1
Electrical engineering	0	1	0	0	0	0	0	0	0	0
Mechanical engineering	0	0	1	0	0	1	0	0	1	0
Other engineering	0	0	0	1	0	1	2	0	1	0
Non-science and engineering	42	50	54	43	63	48	50	48	45	45
Education	24	38	33	24	39	34	30	30	31	32
Health	7	3	4	3	6	3	4	3	1	3
Humanities	8	8	11	7	10	9	12	8	8	5
Professional/other/unknown	3	1	6	9	8	2	4	7	5	5
Asian, all fields <sup>a</sup>	1,437	1,284	1,224	1,073	1,020	1,031	1,002	988	958	1,054
Science and engineering	1,111	974	889	760	715	679	681	677	639	675
Science	941	840	770	663	631	570	583	579	559	592
Agricultural sciences	18	29	20	24	19	12	12	15	16	23

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Race/ethnicity and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Biological sciences	409	403	348	291	276	263	266	290	250	258
Computer sciences	30	16	26	23	19	15	20	26	17	19
Earth, atmospheric, and ocean sciences	26	12	17	13	10	8	7	10	7	4
Mathematics	49	36	28	27	20	21	16	5	24	17
Physical sciences	210	145	132	101	93	71	73	62	72	53
Astronomy	4	4	1	3	0	4	0	1	3	3
Chemistry	146	108	92	72	80	54	61	50	50	42
Physics	60	33	38	26	13	12	12	11	18	8
Other physical sciences	0	0	1	0	0	1	0	0	1	0
Psychology	78	90	95	84	98	99	91	80	81	127
Social sciences	121	109	104	100	96	81	98	91	92	91
Engineering	170	134	119	97	84	109	98	98	80	83
Chemical engineering	25	18	12	19	14	21	19	21	10	18
Civil engineering	14	14	14	6	5	10	9	7	3	11
Electrical engineering	46	30	39	31	26	33	28	26	30	20
Mechanical engineering	23	17	16	10	11	16	8	15	9	6
Other engineering	62	55	38	31	28	29	34	29	28	28
Non-science and engineering	326	310	335	313	305	352	321	311	319	379
Education	120	111	128	106	103	120	103	99	109	119
Health	41	40	50	48	48	63	69	71	49	64
Humanities	109	104	107	113	111	113	104	100	115	129
Professional/other/unknown	56	55	50	46	43	56	45	41	46	67
Black/African American, all fields	849	808	838	993	1,063	1,106	1,056	1,077	1,144	1,257
Science and engineering	263	251	286	351	368	391	375	370	378	419
Science	248	232	263	329	344	367	350	342	359	386
Agricultural sciences	6	1	6	5	9	11	6	5	8	11
Biological sciences	43	40	60	70	66	74	84	67	64	89
Computer sciences	4	3	1	8	10	5	10	7	5	5
Earth, atmospheric, and ocean sciences	0	1	1	1	4	1	2	0	5	1
Mathematics	1	2	2	7	6	7	7	8	5	3
Physical sciences	18	13	11	31	29	21	20	28	21	25
Astronomy	0	0	1	0	2	1	0	1	0	0
Chemistry	17	10	9	28	23	19	19	22	14	20
Physics	1	3	1	3	4	1	1	5	5	5
Other physical sciences	0	0	0	0	0	0	0	0	2	0
Psychology	110	114	111	115	135	144	124	129	126	154
Social sciences	66	58	71	92	85	104	97	98	125	98
Engineering	15	19	23	22	24	24	25	28	19	33
Chemical engineering	1	5	6	1	4	5	10	6	3	7
Civil engineering	3	1	0	2	2	1	0	4	2	3
Electrical engineering	4	5	4	4	5	2	1	4	4	9
Mechanical engineering	1	3	1	0	1	5	1	4	1	3
Other engineering	6	5	12	15	12	11	13	10	9	11
Non-science and engineering	586	557	552	642	695	715	681	707	766	838
Education	420	405	382	462	487	507	460	482	523	554
Health	42	35	40	51	45	61	52	56	62	81
Humanities	61	63	73	72	94	88	103	87	93	98
Professional/other/unknown	63	54	57	57	69	59	66	82	88	105
Hispanic, all fields <sup>b</sup>	522	546	574	644	745	698	703	768	762	700
Science and engineering	232	273	266	326	362	349	338	379	365	361
Science	221	258	243	313	339	336	315	354	342	340
Agricultural sciences	8	4	7	13	7	11	14	8	11	11
Biological sciences	47	66	63	79	76	91	77	114	80	107
Computer sciences	4	7	2	1	3	3	4	2	4	3
Earth, atmospheric, and ocean sciences	3	6	5	6	4	3	5	2	6	5
Mathematics	4	0	6	7	5	7	5	4	7	7

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Race/ethnicity and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Physical sciences	21	12	15	11	22	25	22	22	23	24
Astronomy	2	1	1	0	0	1	1	1	1	2
Chemistry	14	7	12	9	21	21	17	18	18	21
Physics	5	4	2	2	1	3	4	3	4	1
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	97	120	107	152	158	151	129	129	116	115
Social sciences	37	43	38	44	64	45	59	73	95	68
Engineering	11	15	23	13	23	13	23	25	23	21
Chemical engineering	2	6	3	0	4	4	5	7	4	4
Civil engineering	1	0	1	3	6	1	2	0	5	4
Electrical engineering	1	4	6	2	4	1	3	4	4	2
Mechanical engineering	0	0	3	1	1	1	0	5	1	2
Other engineering	7	5	10	7	8	6	13	9	9	9
Non-science and engineering	290	273	308	318	383	349	365	389	397	339
Education	167	131	164	178	212	185	184	216	219	174
Health	15	22	24	25	31	24	21	24	33	37
Humanities	82	93	101	95	107	110	132	124	115	103
Professional/other/unknown	26	27	19	20	33	30	28	25	30	25
Mexican American, all fields	131	127	145	204	187	206	205	234	268	235
Science and engineering	61	54	70	87	73	87	84	104	113	117
Science	60	51	63	84	69	84	79	98	108	112
Agricultural sciences	2	1	0	3	0	2	2	4	2	4
Biological sciences	11	12	22	22	16	19	17	31	22	28
Computer sciences	2	0	0	0	0	1	0	0	2	0
Earth, atmospheric, and ocean sciences	0	2	1	1	1	1	3	0	0	1
Mathematics	2	0	1	3	2	4	3	1	3	1
Physical sciences	4	3	2	3	5	3	2	6	10	10
Astronomy	1	0	0	0	0	0	0	1	0	1
Chemistry	2	2	2	3	4	3	2	3	9	8
Physics	1	1	0	0	1	0	0	2	1	1
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	33	20	29	35	27	39	36	36	35	39
Social sciences	6	13	8	17	18	15	16	20	34	29
Engineering	1	3	7	3	4	3	5	6	5	5
Chemical engineering	1	1	1	0	0	1	0	2	1	0
Civil engineering	0	0	1	1	2	0	1	0	0	1
Electrical engineering	0	1	3	0	1	0	2	0	1	1
Mechanical engineering	0	0	0	0	0	0	0	2	0	0
Other engineering	0	1	2	2	1	2	2	2	3	3
Non-science and engineering	70	73	75	117	114	119	121	130	155	118
Education	51	41	48	71	68	69	66	89	101	74
Health	5	4	7	14	11	9	5	5	11	6
Humanities	13	20	16	26	22	35	40	30	30	31
Professional/other/unknown	1	8	4	6	13	6	10	6	13	7
Puerto Rican, all fields	149	138	160	180	194	198	181	196	135	151
Science and engineering	63	68	73	104	96	106	87	104	73	74
Science	61	63	69	103	88	102	83	93	71	72
Agricultural sciences	1	1	1	1	1	3	4	3	3	4
Biological sciences	9	18	16	23	23	22	30	38	14	29
Computer sciences	0	1	0	1	1	0	0	0	0	2
Earth, atmospheric, and ocean sciences	0	0	2	3	1	0	0	0	0	3
Mathematics	1	0	1	3	0	1	0	0	2	1
Physical sciences	9	4	2	5	9	10	4	4	6	9
Astronomy	1	0	0	0	0	0	0	0	1	0
Chemistry	8	3	2	5	9	10	3	4	5	9

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Race/ethnicity and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Physics	0	1	0	0	0	0	1	0	0	0
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	31	33	36	59	41	59	36	36	37	15
Social sciences	10	6	11	8	12	7	9	12	9	9
Engineering	2	5	4	1	8	4	4	11	2	2
Chemical engineering	1	2	0	0	1	2	2	5	0	1
Civil engineering	0	0	0	0	1	0	0	0	1	0
Electrical engineering	0	0	1	0	2	0	0	1	0	1
Mechanical engineering	0	0	0	0	0	0	0	2	1	0
Other engineering	1	3	3	1	4	2	2	3	0	0
Non-science and engineering	86	70	87	76	98	92	94	92	62	77
Education	50	35	51	49	66	51	62	53	35	39
Health	5	5	7	4	6	6	3	7	4	14
Humanities	16	22	23	17	17	25	23	25	13	18
Professional/other/unknown	15	8	6	6	9	10	6	7	10	6
Other Hispanic, all fields	242	281	269	260	364	294	317	338	359	314
Science and engineering	108	151	123	135	193	156	167	171	179	170
Science	100	144	111	126	182	150	153	163	163	156
Agricultural sciences	5	2	6	9	6	6	8	1	6	3
Biological sciences	27	36	25	34	37	50	30	45	44	50
Computer sciences	2	6	2	0	2	2	4	2	2	1
Earth, atmospheric, and ocean sciences	3	4	2	2	2	2	2	2	6	1
Mathematics	1	0	4	1	3	2	2	3	2	5
Physical sciences	8	5	11	3	8	12	16	12	7	5
Astronomy	0	1	1	0	0	1	1	0	0	1
Chemistry	4	2	8	1	8	8	12	11	4	4
Physics	4	2	2	2	0	3	3	1	3	0
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Psychology	33	67	42	58	90	53	57	57	44	61
Social sciences	21	24	19	19	34	23	34	41	52	30
Engineering	8	7	12	9	11	6	14	8	16	14
Chemical engineering	0	3	2	0	3	1	3	0	3	3
Civil engineering	1	0	0	2	3	1	1	0	4	3
Electrical engineering	1	3	2	2	1	1	1	3	3	0
Mechanical engineering	0	0	3	1	1	1	0	1	0	2
Other engineering	6	1	5	4	3	2	9	4	6	6
Non-science and engineering	134	130	146	125	171	138	150	167	180	144
Education	66	55	65	58	78	65	56	74	83	61
Health	5	13	10	7	14	9	13	12	18	17
Humanities	53	51	62	52	68	50	69	69	72	54
Professional/other/unknown	10	11	9	8	11	14	12	12	7	12
White, all fields	11,170	11,446	10,963	11,389	11,216	11,402	11,002	10,602	10,722	10,631
Science and engineering	5,214	5,349	5,266	5,494	5,457	5,511	5,284	5,039	5,130	5,099
Science	4,893	5,001	4,934	5,187	5,106	5,177	4,966	4,763	4,829	4,782
Agricultural sciences	123	145	134	154	147	158	157	150	157	170
Biological sciences	1,345	1,399	1,398	1,436	1,402	1,510	1,487	1,392	1,450	1,464
Computer sciences	103	61	66	84	71	62	60	59	64	71
Earth, atmospheric, and ocean sciences	89	99	113	126	105	119	119	135	119	143
Mathematics	126	105	135	150	159	126	120	111	110	125
Physical sciences	447	430	412	449	396	419	395	419	426	390
Astronomy	19	30	22	24	23	26	27	18	25	26
Chemistry	351	308	305	344	293	323	297	323	315	286
Physics	74	90	80	74	75	65	68	72	82	69
Other physical sciences	3	2	5	7	5	5	3	6	4	9
Psychology	1,742	1,835	1,690	1,764	1,789	1,725	1,628	1,481	1,549	1,411
Social sciences	918	927	986	1,024	1,037	1,058	1,000	1,016	954	1,008

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Race/ethnicity and field	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Engineering	321	348	332	307	351	334	318	276	301	317
Chemical engineering	60	69	52	52	50	67	59	52	50	48
Civil engineering	34	31	40	45	47	34	51	41	58	45
Electrical engineering	67	66	54	53	44	55	34	30	24	36
Mechanical engineering	25	39	33	37	45	33	27	20	27	31
Other engineering	135	143	153	120	165	145	147	133	142	157
Non-science and engineering	5,956	6,097	5,697	5,895	5,759	5,891	5,718	5,563	5,592	5,532
Education	2,993	3,110	2,836	2,822	2,903	2,838	2,707	2,675	2,774	2,640
Health	600	610	609	695	580	690	651	683	699	709
Humanities	1,697	1,748	1,677	1,749	1,712	1,805	1,804	1,650	1,623	1,639
Professional/other/unknown	666	629	575	629	564	558	556	555	496	544
Other/unknown, all fields <sup>c</sup>	139	168	481	408	239	304	391	419	553	507
Science and engineering	68	83	247	199	115	157	203	203	272	261
Science	65	75	235	190	108	150	190	188	258	247
Agricultural sciences	5	2	8	6	3	2	5	3	7	9
Biological sciences	10	24	48	39	34	42	50	49	64	75
Computer sciences	2	2	4	7	2	1	4	3	7	4
Earth, atmospheric, and ocean sciences	1	1	7	3	3	7	2	11	7	13
Mathematics	2	2	6	5	2	2	5	5	5	2
Physical sciences	9	9	17	11	10	8	15	10	26	17
Astronomy	0	0	1	0	0	2	1	1	2	2
Chemistry	6	5	13	9	7	4	12	8	19	13
Physics	3	4	3	2	2	2	2	1	4	2
Other physical sciences	0	0	0	0	1	0	0	0	1	0
Psychology	22	17	91	79	26	40	66	52	77	77
Social sciences	14	18	54	40	28	48	43	55	65	50
Engineering	3	8	12	9	7	7	13	15	14	14
Chemical engineering	0	0	3	1	2	2	0	2	4	2
Civil engineering	0	0	2	2	0	1	4	5	1	1
Electrical engineering	2	0	3	1	2	2	1	2	3	1
Mechanical engineering	0	1	1	2	2	0	2	0	1	2
Other engineering	1	7	3	3	1	2	6	6	5	8
Non-science and engineering	71	85	234	209	124	147	188	216	281	246
Education	28	37	144	98	57	71	77	100	127	106
Health	14	13	13	22	10	13	21	17	31	31
Humanities	23	30	64	70	49	50	71	73	98	85
Professional/other/unknown	6	5	13	19	8	13	19	26	25	24

<sup>a</sup> Includes Pacific Islanders from 1995 to 2000.

<sup>b</sup> Includes Mexican American, Puerto Rican, and other Hispanic.

<sup>c</sup> Includes Native Hawaiian and other Pacific Islanders and multiple race/ethnicity from 2001 to 2004.

NOTE: Categories are grouped differently from questionnaire and summary reports in that linguistics, history of science, American studies, and archaeology are included in social science and not in humanities, and public administration is included in social science and not in professional fields.

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