

Appendix B: Detailed Statistical Tables

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Table B-1. Federal scientists and engineers, by agency: 1989-93

Agency	1989	1990	1991	1992	1993
Total, All Agencies.....	185,623	189,049	194,726	198,853	196,908
Department of Agriculture.....	16,875	17,068	17,475	18,073	17,764
Department of Commerce.....	7,768	8,006	8,312	8,660	8,766
Department of Defense.....	94,194	93,949	94,042	94,213	92,163
Department of the Army.....	34,957	34,271	34,295	34,192	33,300
Department of the Navy.....	39,076	39,264	39,155	38,892	37,650
Department of the Air Force.....	16,502	16,267	16,063	16,273	16,281
Other Defense Agencies.....	3,659	4,147	4,529	4,856	4,932
Department of Energy.....	3,838	4,106	4,809	5,302	5,132
Department of Health & Human Services.....	8,121	8,734	9,244	9,683	9,614
Department of Housing & Urban Development.....	390	395	431	457	440
Department of the Interior.....	11,846	12,046	12,502	13,142	13,450
Department of Justice.....	1,579	1,752	2,026	2,380	2,583
Department of Labor.....	1,891	1,926	2,072	2,167	2,141
Department of State.....	2,877	3,049	3,218	3,424	3,401
Department of Transportation.....	4,580	4,763	5,101	5,403	5,462
Department of the Treasury.....	2,516	2,664	3,103	3,320	3,461
Department of Veterans Affairs.....	4,401	4,614	4,902	5,109	5,355
Environmental Protection Agency.....	6,503	7,223	7,810	7,887	8,061
General Services Administration.....	741	827	924	922	978
National Aeronautics & Space Administration.....	11,920	12,277	12,802	12,665	12,424
National Science Foundation.....	377	389	362	364	328
Nuclear Regulatory Commission.....	1,457	1,466	1,590	1,620	1,593
US International Development Cooperation Agency.....	585	556	520	480	470
All other agencies.....	3,164	3,239	3,481	3,582	3,322

SOURCE: National Science Foundation tabulations from Office of Personnel Management's Central Personnel Data Files

Table B-2. Federal scientists and engineers, by primary work activity: 1989-93

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Primary work activity	1989	1990	1991	1992	1993
Total, All Activities.....	185,623	189,049	194,726	198,853	196,908
Development.....	28,791	29,190	27,502	30,299	29,529
Research.....	21,242	21,381	21,768	22,246	21,670
Design.....	15,171	14,781	14,521	14,681	14,209
Data collection, processing, and analysis.....	14,236	14,325	14,795	14,951	14,675
Natural resources operations.....	11,488	11,904	12,455	13,235	13,461
Management.....	8,407	8,625	8,505	8,682	8,488
Installation, operations, and maintenance.....	11,480	11,429	11,608	11,623	11,353
Test and evaluation.....	9,712	10,095	10,160	10,409	10,495
Planning.....	6,374	6,238	6,223	6,271	6,169
Technical assistance and consulting.....	4,118	4,204	4,338	4,526	4,556
Production.....	5,708	5,703	5,836	5,884	5,659
Regulatory enforcement of licensing.....	4,951	5,332	5,867	6,026	5,910
Construction.....	5,170	4,940	4,746	4,698	4,682
Clinical practice, counseling, and ancillary medical service.....	3,430	3,625	3,981	4,201	4,440
Standards and specifications.....	1,674	1,692	1,620	1,642	1,506
Scientific and technical information.....	1,746	1,905	1,957	2,057	2,146
Research contract and grant administration.....	944	1,042	1,047	1,070	1,039
Teaching and training.....	376	406	442	431	471
Other - not elsewhere classified.....	8,329	8,867	8,682	8,740	8,244
Activity unknown.....	22,276	23,365	28,673	27,181	28,206

SOURCE: National Science Foundation tabulations from Office of Personnel Management's Central Personnel Data Files

Table B-3. Federal scientists and engineers, by occupational group and series and by sex: 1989-93

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Occupational group and series	1989	1990	1991	1992	1993
Total, All Occupations					
Total.....	185,623	189,049	194,726	198,853	196,908
Women.....	29,328	31,733	34,787	36,854	37,431
Men.....	156,294	157,316	159,939	161,997	159,474
No report.....	1	-	-	2	3
All scientists:					
Total.....	89,530	92,467	96,919	101,006	101,348
Women.....	21,086	22,964	25,291	27,145	27,736
Men.....	68,444	69,503	71,628	73,859	73,611
No report.....	-	-	-	2	1
Computer and mathematical sciences:					
Total.....	25,737	26,725	28,210	29,371	29,691
Women.....	7,121	7,661	8,364	8,837	9,103
Men.....	18,616	19,064	19,846	20,534	20,588
No report.....	-	-	-	-	-
Computer and information sciences:					
Total.....	16,818	17,821	19,176	20,510	21,208
Women.....	4,670	5,128	5,703	6,212	6,546
Men.....	12,148	12,693	13,473	14,298	14,662
No report.....	-	-	-	-	-
Computer science:					
Total.....	477	512	540	551	578
Women.....	145	158	159	160	165
Men.....	332	354	381	391	413
No report.....	-	-	-	-	-
Computer systems:					
Total.....	15,086	16,045	17,303	18,629	19,402
Women.....	4,438	4,873	5,432	5,935	6,274
Men.....	10,648	11,172	11,871	12,694	13,128
No report.....	-	-	-	-	-
Other computer sciences:					
Total.....	1,255	1,264	1,333	1,330	1,228
Women.....	87	97	112	117	107
Men.....	1,168	1,167	1,221	1,213	1,121
No report.....	-	-	-	-	-
Mathematical sciences:					
Total.....	8,919	8,904	9,034	8,861	8,483
Women.....	2,451	2,533	2,661	2,625	2,557
Men.....	6,468	6,371	6,373	6,236	5,926
No report.....	-	-	-	-	-

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

Table B-3. Federal scientists and engineers, by occupational group and series and by sex: 1989-93

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Occupational group and series	1989	1990	1991	1992	1993
Mathematics:					
Total.....	2,268	2,219	2,106	2,007	1,845
Women.....	638	633	607	568	537
Men.....	1,630	1,586	1,499	1,439	1,308
No report.....	-	-	-	-	-
Operations research:					
Total.....	3,294	3,295	3,290	3,221	3,129
Women.....	680	717	746	733	741
Men.....	2,614	2,578	2,544	2,488	2,388
No report.....	-	-	-	-	-
Statistics:					
Total.....	3,352	3,388	3,635	3,628	3,504
Women.....	1,128	1,181	1,305	1,319	1,274
Men.....	2,224	2,207	2,330	2,309	2,230
No report.....	-	-	-	-	-
Other mathematical sciences:					
Total.....	5	2	3	5	5
Women.....	5	2	3	5	5
Men.....	-	-	-	-	-
No report.....	-	-	-	-	-
Life sciences:					
Total.....	23,082	24,009	25,280	26,765	26,920
Women.....	5,014	5,637	6,344	6,971	7,122
Men.....	18,068	18,372	18,936	19,792	19,797
No report.....	-	-	-	2	1
Agriculture and forestry sciences					
Total.....	9,561	9,700	9,869	10,195	10,290
Women.....	1,598	1,780	1,988	2,138	2,233
Men.....	7,963	7,920	7,881	8,055	8,056
No report.....	-	-	-	2	1
Environmental protection:					
Total.....	1,964	2,314	2,659	2,914	3,114
Women.....	747	900	1,070	1,168	1,253
Men.....	1,217	1,414	1,589	1,744	1,860
No report.....	-	-	-	2	1
Agricultural extension:					
Total.....	2	2	2	3	3
Women.....	-	-	1	1	1
Men.....	2	2	1	2	2
No report.....	-	-	-	-	-

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

Table B-3. Federal scientists and engineers, by occupational group and series and by sex: 1989-93

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Occupational group and series	1989	1990	1991	1992	1993
Horticulture:					
Total.....	99	96	108	111	110
Women.....	23	26	32	27	28
Men.....	76	70	76	84	82
No report.....	-	-	-	-	-
Range conservation:					
Total.....	1,114	1,111	1,089	1,103	1,091
Women.....	151	164	176	186	179
Men.....	963	947	913	917	912
No report.....	-	-	-	-	-
Soil conservation:					
Total.....	4,340	4,194	4,082	4,143	4,102
Women.....	500	507	523	567	591
Men.....	3,840	3,687	3,559	3,576	3,511
No report.....	-	-	-	-	-
Soil science:					
Total.....	1,618	1,574	1,521	1,511	1,473
Women.....	154	161	157	162	146
Men.....	1,464	1,413	1,364	1,349	1,327
No report.....	-	-	-	-	-
Agronomy:					
Total.....	315	297	297	306	301
Women.....	9	7	10	13	21
Men.....	306	290	287	293	280
No report.....	-	-	-	-	-
Animal sciences:					
Total.....	109	112	111	104	96
Women.....	14	15	19	14	14
Men.....	95	97	92	90	82
No report.....	-	-	-	-	-
Biological and medical sciences:					
Total.....	13,521	14,309	15,411	16,570	16,630
Women.....	3,416	3,857	4,356	4,833	4,889
Men.....	10,105	10,452	11,055	11,737	11,741
No report.....	-	-	-	-	-
General biological sciences:					
Total.....	5,106	5,538	6,142	6,771	7,001
Women.....	1,427	1,605	1,887	2,132	2,212
Men.....	3,679	3,933	4,255	4,639	4,789
No report.....	-	-	-	-	-

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

Table B-3. Federal scientists and engineers, by occupational group and series and by sex: 1989-93

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Occupational group and series	1989	1990	1991	1992	1993
Microbiology:					
Total.....	1,939	1,973	2,060	2,050	1,995
Women.....	795	827	859	866	848
Men.....	1,144	1,146	1,201	1,184	1,147
No report.....	-	-	-	-	-
Ecology:					
Total.....	394	431	507	577	626
Women.....	85	102	139	173	189
Men.....	309	329	368	404	437
No report.....	-	-	-	-	-
Zoology:					
Total.....	103	99	93	98	96
Women.....	14	17	15	19	18
Men.....	89	82	78	79	78
No report.....	-	-	-	-	-
Physiology:					
Total.....	548	552	570	580	539
Women.....	128	136	145	147	128
Men.....	420	416	425	433	411
No report.....	-	-	-	-	-
Entomology:					
Total.....	675	670	655	666	638
Women.....	58	66	71	78	78
Men.....	617	604	584	588	560
No report.....	-	-	-	-	-
Toxicology:					
Total.....	146	171	210	222	227
Women.....	42	57	69	75	79
Men.....	104	114	141	147	148
No report.....	-	-	-	-	-
Botany:					
Total.....	179	220	264	314	322
Women.....	57	91	119	149	160
Men.....	122	129	145	165	162
No report.....	-	-	-	-	-
Plant pathology:					
Total.....	317	304	298	300	274
Women.....	47	43	51	56	50
Men.....	270	261	247	244	224
No report.....	-	-	-	-	-

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

Table B-3. Federal scientists and engineers, by occupational group and series and by sex: 1989-93

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Occupational group and series	1989	1990	1991	1992	1993
Plant physiology:					
Total.....	338	343	346	330	303
Women.....	59	64	70	60	58
Men.....	279	279	276	270	245
No report.....	-	-	-	-	-
Genetics:					
Total.....	343	329	324	351	326
Women.....	65	69	66	72	64
Men.....	278	260	258	279	262
No report.....	-	-	-	-	-
Fishery biology:					
Total.....	1,395	1,452	1,553	1,748	1,750
Women.....	213	248	276	338	338
Men.....	1,182	1,204	1,277	1,410	1,412
No report.....	-	-	-	-	-
Wildlife biology:					
Total.....	1,667	1,841	1,996	2,168	2,153
Women.....	336	437	489	565	567
Men.....	1,331	1,404	1,507	1,603	1,586
No report.....	-	-	-	-	-
Pharmacology:					
Total.....	371	386	393	395	380
Women.....	90	95	100	103	100
Men.....	281	291	293	292	280
No report.....	-	-	-	-	-
Physical sciences:					
Total.....	23,204	23,725	24,140	24,427	24,118
Women.....	3,883	4,244	4,502	4,632	4,662
Men.....	19,321	19,481	19,638	19,795	19,456
No report.....	-	-	-	-	-
Chemistry:					
Total.....	7,024	7,080	7,135	7,074	6,832
Women.....	1,765	1,853	1,940	1,946	1,919
Men.....	5,259	5,227	5,195	5,128	4,913
No report.....	-	-	-	-	-
Earth sciences and physics:					
Total.....	11,815	11,983	11,995	12,162	12,062
Women.....	1,317	1,422	1,466	1,515	1,535
Men.....	10,498	10,561	10,529	10,647	10,527
No report.....	-	-	-	-	-

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

Table B-3. Federal scientists and engineers, by occupational group and series and by sex: 1989-93

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Occupational group and series	1989	1990	1991	1992	1993
Health physics:					
Total.....	537	594	626	664	654
Women.....	104	134	136	141	135
Men.....	433	460	490	523	519
No report.....	-	-	-	-	-
Physics:					
Total.....	3,094	3,013	2,945	2,915	2,784
Women.....	185	185	181	190	189
Men.....	2,909	2,828	2,764	2,725	2,595
No report.....	-	-	-	-	-
Astronomy and space sciences:					
Total.....	423	427	420	430	437
Women.....	25	27	28	31	29
Men.....	398	400	392	399	408
No report.....	-	-	-	-	-
Meteorology:					
Total.....	1,971	2,120	2,194	2,295	2,371
Women.....	133	154	150	159	174
Men.....	1,838	1,966	2,044	2,136	2,197
No report.....	-	-	-	-	-
Geology:					
Total.....	5,184	5,210	5,239	5,299	5,263
Women.....	774	818	881	898	913
Men.....	4,410	4,392	4,358	4,401	4,350
No report.....	-	-	-	-	-
Oceanography:					
Total.....	606	619	571	559	553
Women.....	96	104	90	96	95
Men.....	510	515	481	463	458
No report.....	-	-	-	-	-
Other physical sciences:					
Total.....	4,365	4,662	5,010	5,191	5,224
Women.....	801	969	1,096	1,171	1,208
Men.....	3,564	3,693	3,914	4,020	4,016
No report.....	-	-	-	-	-
Social sciences:					
Total.....	17,507	18,008	19,289	20,443	20,619
Women.....	5,068	5,422	6,081	6,705	6,849
Men.....	12,439	12,586	13,208	13,738	13,770
No report.....	-	-	-	-	-

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

Table B-3. Federal scientists and engineers, by occupational group and series and by sex: 1989-93

Occupational group and series	1989	1990	1991	1992	1993
Economics:					
Total.....	5,602	5,608	5,770	5,875	5,613
Women.....	1,361	1,405	1,499	1,557	1,471
Men.....	4,241	4,203	4,271	4,318	4,142
No report.....	-	-	-	-	-
Economics:					
Total.....	4,549	4,542	4,732	4,800	4,539
Women.....	1,124	1,153	1,255	1,294	1,195
Men.....	3,425	3,389	3,477	3,506	3,344
No report.....	-	-	-	-	-
Foreign agricultural affairs:					
Total.....	192	194	195	203	202
Women.....	25	24	27	31	32
Men.....	167	170	168	172	170
No report.....	-	-	-	-	-
Trade:					
Total.....	352	349	354	381	391
Women.....	103	109	108	121	135
Men.....	249	240	246	260	256
No report.....	-	-	-	-	-
Agricultural markets:					
Total.....	336	346	314	309	303
Women.....	83	90	75	79	80
Men.....	253	256	239	230	223
No report.....	-	-	-	-	-
Agricultural market reporting:					
Total.....	125	127	120	126	125
Women.....	15	17	19	20	20
Men.....	110	110	101	106	105
No report.....	-	-	-	-	-
Transportation industry:					
Total.....	48	50	55	56	53
Women.....	11	12	15	12	9
Men.....	37	38	40	44	44
No report.....	-	-	-	-	-
Political science:					
Total.....	2,202	2,323	2,530	2,757	2,847
Women.....	577	628	723	840	879
Men.....	1,625	1,695	1,807	1,917	1,968
No report.....	-	-	-	-	-

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

Table B-3. Federal scientists and engineers, by occupational group and series and by sex: 1989-93

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Occupational group and series	1989	1990	1991	1992	1993
Foreign affairs:					
Total.....	2,157	2,272	2,477	2,698	2,789
Women.....	561	610	705	820	860
Men.....	1,596	1,662	1,772	1,878	1,929
No report.....	-	-	-	-	-
International relations:					
Total.....	45	51	53	59	58
Women.....	16	18	18	20	19
Men.....	29	33	35	39	39
No report.....	-	-	-	-	-
Psychology:					
Total.....	3,252	3,355	3,555	3,682	3,750
Women.....	906	992	1,135	1,232	1,281
Men.....	2,346	2,363	2,420	2,450	2,469
No report.....	-	-	-	-	-
Sociology and anthropology:					
Total.....	109	110	120	120	121
Women.....	44	49	49	47	45
Men.....	65	61	71	73	76
No report.....	-	-	-	-	-
Sociology:					
Total.....	58	59	59	55	55
Women.....	28	33	31	29	28
Men.....	30	26	28	26	27
No report.....	-	-	-	-	-
Anthropology:					
Total.....	51	51	61	65	66
Women.....	16	16	18	18	17
Men.....	35	35	43	47	49
No report.....	-	-	-	-	-
Other social sciences:					
Total.....	6,342	6,612	7,314	8,009	8,288
Women.....	2,180	2,348	2,675	3,029	3,173
Men.....	4,162	4,264	4,639	4,980	5,115
No report.....	-	-	-	-	-
Unemployment insurance:					
Total.....	117	117	113	110	107
Women.....	35	36	37	36	35
Men.....	82	81	76	74	72
No report.....	-	-	-	-	-

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

Table B-3. Federal scientists and engineers, by occupational group and series and by sex: 1989-93

Occupational group and series	1989	1990	1991	1992	1993
Intelligence:					
Total.....	2,086	2,092	2,289	2,415	2,469
Women.....	469	505	566	594	608
Men.....	1,617	1,587	1,723	1,821	1,861
No report.....	-	-	-	-	-
International cooperation:					
Total.....	32	24	23	17	30
Women.....	12	9	7	7	18
Men.....	20	15	16	10	12
No report.....	-	-	-	-	-
Geography:					
Total.....	258	245	251	260	261
Women.....	71	67	67	69	70
Men.....	187	178	184	191	191
No report.....	-	-	-	-	-
Civil rights:					
Total.....	33	30	31	30	32
Women.....	15	12	12	10	12
Men.....	18	18	19	20	20
No report.....	-	-	-	-	-
Archeology:					
Total.....	679	721	820	885	903
Women.....	218	239	287	312	322
Men.....	461	482	533	573	581
No report.....	-	-	-	-	-
Manpower research:					
Total.....	38	38	39	41	44
Women.....	13	15	14	15	17
Men.....	25	23	25	26	27
No report.....	-	-	-	-	-
Educational research:					
Total.....	29	37	42	39	40
Women.....	7	12	16	14	16
Men.....	22	25	26	25	24
No report.....	-	-	-	-	-
General social science:					
Total.....	3,070	3,308	3,706	4,212	4,402
Women.....	1,340	1,453	1,669	1,972	2,075
Men.....	1,730	1,855	2,037	2,240	2,327
No report.....	-	-	-	-	-

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

Table B-3. Federal scientists and engineers, by occupational group and series and by sex: 1989-93

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Occupational group and series	1989	1990	1991	1992	1993
All engineers:					
Total.....	96,093	96,582	97,807	97,847	95,560
Women.....	8,242	8,769	9,496	9,709	9,695
Men.....	87,850	87,813	88,311	88,138	85,863
No report.....	1	-	-	-	2
Aerospace:					
Total.....	8,433	8,624	8,777	8,584	8,330
Women.....	701	751	818	812	803
Men.....	7,732	7,873	7,959	7,772	7,527
No report.....	-	-	-	-	-
Chemical:					
Total.....	1,503	1,413	1,344	1,311	1,245
Women.....	293	275	267	259	242
Men.....	1,210	1,138	1,077	1,052	1,003
No report.....	-	-	-	-	-
Civil:					
Total.....	13,945	13,621	13,357	13,231	12,874
Women.....	1,162	1,200	1,252	1,295	1,263
Men.....	12,783	12,421	12,105	11,936	11,609
No report.....	-	-	-	-	2
Electrical, electronics, and computer:					
Total.....	31,121	31,899	32,753	32,955	32,374
Women.....	2,452	2,682	2,948	3,025	3,029
Men.....	28,669	29,217	29,805	29,930	29,345
No report.....	-	-	-	-	-
Computer:					
Total.....	1,151	1,480	1,849	2,052	2,191
Women.....	234	294	373	408	423
Men.....	917	1,186	1,476	1,644	1,768
No report.....	-	-	-	-	-
Electrical and electronics:					
Total.....	29,970	30,419	30,904	30,903	30,183
Women.....	2,218	2,388	2,575	2,617	2,606
Men.....	27,752	28,031	28,329	28,286	27,577
No report.....	-	-	-	-	-
Electrical engineering:					
Total.....	4,573	4,510	4,659	4,656	4,506
Women.....	356	383	433	441	440
Men.....	4,217	4,127	4,226	4,215	4,066
No report.....	-	-	-	-	-

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

Table B-3. Federal scientists and engineers, by occupational group and series and by sex: 1989-93

Page 11 of 13

Occupational group and series	1989	1990	1991	1992	1993
Electronics engineering:					
Total.....	25,397	25,909	26,245	26,247	25,677
Women.....	1,862	2,005	2,142	2,176	2,166
Men.....	23,535	23,904	24,103	24,071	23,511
No report.....	-	-	-	-	-
Industrial:					
Total.....	3,463	3,419	3,173	3,016	2,725
Women.....	477	473	461	428	388
Men.....	2,986	2,946	2,712	2,588	2,337
No report.....	-	-	-	-	-
Safety:					
Total.....	471	469	459	459	460
Women.....	39	42	41	38	37
Men.....	432	427	418	421	423
No report.....	-	-	-	-	-
Fire prevention:					
Total.....	122	117	118	120	122
Women.....	7	9	9	13	13
Men.....	115	108	109	107	109
No report.....	-	-	-	-	-
Industrial:					
Total.....	2,870	2,833	2,596	2,437	2,143
Women.....	431	422	411	377	338
Men.....	2,439	2,411	2,185	2,060	1,805
No report.....	-	-	-	-	-
Mechanical:					
Total.....	12,186	11,787	11,763	11,532	11,159
Women.....	822	799	829	822	801
Men.....	11,364	10,988	10,934	10,710	10,358
No report.....	-	-	-	-	-
Other engineering:					
Total.....	25,442	25,819	26,640	27,218	26,853
Women.....	2,335	2,589	2,921	3,068	3,169
Men.....	23,106	23,230	23,719	24,150	23,684
No report.....	1	-	-	-	-
Agricultural:					
Total.....	378	368	362	368	360
Women.....	16	16	19	26	26
Men.....	362	352	343	342	334
No report.....	-	-	-	-	-

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

Table B-3. Federal scientists and engineers, by occupational group and series and by sex: 1989-93

Page 12 of 13

Occupational group and series	1989	1990	1991	1992	1993
Biomedical:					
Total.....	313	337	350	342	333
Women.....	59	70	66	67	68
Men.....	254	267	284	275	265
No report.....	-	-	-	-	-
Environmental:					
Total.....	2,859	3,106	3,668	4,047	4,427
Women.....	618	694	845	934	1,040
Men.....	2,241	2,412	2,823	3,113	3,387
No report.....	-	-	-	-	-
Naval architecture:					
Total.....	812	781	747	744	687
Women.....	51	51	54	52	49
Men.....	761	730	693	692	638
No report.....	-	-	-	-	-
Materials and metallurgical:					
Total.....	1,549	1,521	1,507	1,495	1,448
Women.....	204	216	230	222	219
Men.....	1,345	1,305	1,277	1,273	1,229
No report.....	-	-	-	-	-
Metallurgical engineering:					
Total.....	1,172	1,173	1,174	1,183	1,158
Women.....	180	192	205	194	194
Men.....	992	981	969	989	964
No report.....	-	-	-	-	-
Ceramic engineering:					
Total.....	58	59	67	67	63
Women.....	9	9	10	12	11
Men.....	49	50	57	55	52
No report.....	-	-	-	-	-
Welding engineering:					
Total.....	87	75	73	67	64
Women.....	4	4	4	4	4
Men.....	83	71	69	63	60
No report.....	-	-	-	-	-
Metallurgy:					
Total.....	232	214	193	178	163
Women.....	11	11	11	12	10
Men.....	221	203	182	166	153
No report.....	-	-	-	-	-

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

Table B-3. Federal scientists and engineers, by occupational group and series and by sex: 1989-93

Occupational group and series	1989	1990	1991	1992	1993
Mining:					
Total.....	365	344	340	341	336
Women.....	18	14	15	18	17
Men.....	347	330	325	323	319
No report.....	-	-	-	-	-
Nuclear:					
Total.....	2,930	3,069	3,195	3,194	2,970
Women.....	182	201	211	202	188
Men.....	2,748	2,868	2,984	2,992	2,782
No report.....	-	-	-	-	-
Petroleum:					
Total.....	417	400	392	387	381
Women.....	38	33	30	31	29
Men.....	379	367	362	356	352
No report.....	-	-	-	-	-
General:					
Total.....	15,819	15,893	16,079	16,300	15,911
Women.....	1,149	1,294	1,451	1,516	1,533
Men.....	14,669	14,599	14,628	14,784	14,378
No report.....	1	-	-	-	-

KEY: "-" = Zero

SOURCE: National Science Foundation tabulations from Office of Personnel Management's Central Personnel Data Files

Table B-4. Federal scientists and engineers, by major occupational group and highest degree level: 1989-93

Major occupational group and highest degree level	1989	1990	1991	1992	1993
Total, All Occupations					
All levels.....	185,623	189,049	194,726	198,853	196,908
Ph.D.....	19,273	19,758	20,461	21,100	20,888
MS/MA.....	43,208	44,509	46,620	48,453	49,495
BS/BA.....	121,628	123,194	125,976	127,594	124,862
Professional.....	1,514	1,588	1,669	1,706	1,663
All scientists:					
All levels.....	89,530	92,467	96,919	101,006	101,348
Ph.D.....	16,546	16,952	17,543	18,068	17,810
MS/MA.....	24,699	25,559	26,997	28,193	28,523
BS/BA.....	47,275	48,886	51,232	53,560	53,837
Professional.....	1,010	1,070	1,147	1,185	1,178
Computer and mathematical sciences					
All levels.....	25,737	26,725	28,210	29,371	29,691
Ph.D.....	1,248	1,269	1,309	1,326	1,323
MS/MA.....	6,289	6,521	6,928	7,170	7,261
BS/BA.....	18,058	18,802	19,827	20,709	20,942
Professional.....	142	133	146	166	165
Life sciences:					
All levels.....	23,082	24,009	25,280	26,765	26,920
Ph.D.....	5,140	5,308	5,557	5,861	5,706
MS/MA.....	5,493	5,795	6,167	6,563	6,688
BS/BA.....	12,161	12,578	13,194	13,974	14,159
Professional.....	288	328	362	367	367
Physical sciences:					
All levels.....	23,204	23,725	24,140	24,427	24,118
Ph.D.....	6,450	6,582	6,746	6,824	6,709
MS/MA.....	6,124	6,279	6,443	6,534	6,501
BS/BA.....	10,377	10,608	10,692	10,811	10,667
Professional.....	253	256	259	258	241

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

Table B-4. Federal scientists and engineers, by major occupational group and highest degree level: 1989-93

Page 2 of 3

Major occupational group and highest degree level	1989	1990	1991	1992	1993
Social sciences:					
All levels.....	17,507	18,008	19,289	20,443	20,619
Ph.D.....	3,708	3,793	3,931	4,057	4,072
MS/MA.....	6,793	6,964	7,459	7,926	8,073
BS/BA.....	6,679	6,898	7,519	8,066	8,069
Professional.....	327	353	380	394	405
All engineers:					
All levels.....	96,093	96,582	97,807	97,847	95,560
Ph.D.....	2,727	2,806	2,918	3,032	3,078
MS/MA.....	18,509	18,950	19,623	20,260	20,972
BS/BA.....	74,353	74,308	74,744	74,034	71,025
Professional.....	504	518	522	521	485
Aerospace:					
All levels.....	8,433	8,624	8,777	8,584	8,330
Ph.D.....	516	528	551	557	561
MS/MA.....	2,001	2,101	2,218	2,229	2,257
BS/BA.....	5,890	5,966	5,985	5,776	5,494
Professional.....	26	29	23	22	18
Chemical:					
All levels.....	1,503	1,413	1,344	1,311	1,245
Ph.D.....	161	158	141	152	151
MS/MA.....	298	301	286	291	307
BS/BA.....	1,036	944	908	858	779
Professional.....	8	10	9	10	8
Civil:					
All levels.....	13,945	13,621	13,357	13,231	12,874
Ph.D.....	199	203	210	204	208
MS/MA.....	2,578	2,547	2,542	2,554	2,548
BS/BA.....	11,073	10,779	10,528	10,390	10,040
Professional.....	95	92	77	83	78
Electrical, electronics, and computer:					
All levels.....	31,121	31,899	32,753	32,955	32,374
Ph.D.....	586	619	650	680	705
MS/MA.....	5,232	5,472	5,641	6,041	6,414
BS/BA.....	25,189	25,700	26,338	26,110	25,141
Professional.....	114	108	124	124	114

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

Table B-4. Federal scientists and engineers, by major occupational group and highest degree level: 1989-93

Page 3 of 3

Major occupational group and highest degree level	1989	1990	1991	1992	1993
Industrial:					
All levels.....	3,463	3,419	3,173	3,016	2,725
Ph.D.....	23	20	17	19	18
MS/MA.....	643	653	621	619	609
BS/BA.....	2,780	2,730	2,522	2,365	2,086
Professional.....	17	16	13	13	12
Mechanical:					
All levels.....	12,186	11,787	11,763	11,532	11,159
Ph.D.....	258	262	287	297	298
MS/MA.....	1,631	1,642	1,740	1,766	1,883
BS/BA.....	10,237	9,822	9,673	9,411	8,921
Professional.....	60	61	63	58	57
Other engineering:					
All levels.....	25,442	25,819	26,640	27,218	26,853
Ph.D.....	984	1,016	1,062	1,123	1,137
MS/MA.....	6,126	6,234	6,575	6,760	6,954
BS/BA.....	18,148	18,367	18,790	19,124	18,564
Professional.....	184	202	213	211	198

SOURCE: National Science Foundation tabulations from Office of Personnel Management's Central Personnel Data Files

Table B-5. Federal scientists and engineers, by major occupational group and highest degree field: 1989-93

Major occupational group and highest degree field	1989	1990	1991	1992	1993
Total, All Occupations					
Total.....	185,623	189,049	194,726	198,853	196,908
Physical sciences.....	21,501	21,867	22,053	22,263	21,914
Computer and mathematical sciences.....	13,505	14,218	14,931	15,474	15,591
Life sciences.....	22,108	22,850	23,711	24,738	24,541
Social sciences.....	14,773	15,333	16,403	17,294	17,315
Engineering.....	86,270	87,288	88,325	88,378	86,177
Non-science/non-engineering.....	25,668	27,042	28,713	30,161	30,662
No report.....	1,798	451	590	545	708
All scientists:					
Total.....	89,530	92,467	96,919	101,006	101,348
Physical sciences.....	17,834	18,204	18,427	18,714	18,556
Computer and mathematical sciences.....	11,142	11,756	12,347	12,860	13,036
Life sciences.....	21,794	22,530	23,381	24,413	24,211
Social sciences.....	14,580	15,138	16,216	17,104	17,130
Engineering.....	3,383	3,434	3,538	3,673	3,713
Non-science/non-engineering.....	20,082	21,020	22,546	23,857	24,283
No report.....	715	385	464	385	419
Computer and mathematical sciences:					
Total.....	25,737	26,725	28,210	29,371	29,691
Physical sciences.....	982	975	986	1,014	996
Computer and mathematical sciences.....	10,372	10,971	11,547	12,052	12,244
Life sciences.....	942	1,015	1,080	1,102	1,074
Social sciences.....	2,980	3,071	3,236	3,287	3,272
Engineering.....	1,217	1,265	1,307	1,375	1,447
Non-science/non-engineering.....	8,880	9,358	9,965	10,474	10,577
No report.....	364	70	89	67	81
Life sciences:					
Total.....	23,082	24,009	25,280	26,765	26,920
Physical sciences.....	523	580	637	722	725
Computer and mathematical sciences.....	44	54	57	65	71
Life sciences.....	17,378	17,905	18,603	19,541	19,428
Social sciences.....	771	829	900	971	1,021
Engineering.....	263	284	312	361	385
Non-science/non-engineering.....	3,964	4,216	4,624	4,964	5,147
No report.....	139	141	147	141	143

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

Table B-5. Federal scientists and engineers, by major occupational group and highest degree field: 1989-93

Major occupational group and highest degree field	1989	1990	1991	1992	1993
Physical sciences:					
Total.....	23,204	23,725	24,140	24,427	24,118
Physical sciences.....	16,198	16,509	16,671	16,826	16,685
Computer and mathematical sciences.....	594	594	603	611	582
Life sciences.....	2,914	3,052	3,169	3,211	3,123
Social sciences.....	337	353	391	404	404
Engineering.....	1,793	1,782	1,809	1,819	1,768
Non-science/non-engineering.....	1,181	1,275	1,341	1,395	1,386
No report.....	187	160	156	161	170
Social sciences:					
Total.....	17,507	18,008	19,289	20,443	20,619
Physical sciences.....	131	140	133	152	150
Computer and mathematical sciences.....	132	137	140	132	139
Life sciences.....	560	558	529	559	586
Social sciences.....	10,492	10,885	11,689	12,442	12,433
Engineering.....	110	103	110	118	113
Non-science/non-engineering.....	6,057	6,171	6,616	7,024	7,173
No report.....	25	14	72	16	25
All engineers:					
Total.....	96,093	96,582	97,807	97,847	95,560
Physical sciences.....	3,667	3,663	3,626	3,549	3,358
Computer and mathematical sciences.....	2,363	2,462	2,584	2,614	2,555
Life sciences.....	314	320	330	325	330
Social sciences.....	193	195	187	190	185
Engineering.....	82,887	83,854	84,787	84,705	82,464
Non-science/non-engineering.....	5,586	6,022	6,167	6,304	6,379
No report.....	1,083	66	126	160	289
Aerospace:					
Total.....	8,433	8,624	8,777	8,584	8,330
Physical sciences.....	415	408	398	388	360
Computer and mathematical sciences.....	331	315	318	314	290
Life sciences.....	15	12	11	12	12
Social sciences.....	12	13	12	9	5
Engineering.....	7,270	7,510	7,660	7,491	7,282
Non-science/non-engineering.....	352	365	372	363	363
No report.....	38	1	6	7	18
Chemical:					
Total.....	1,503	1,413	1,344	1,311	1,245
Physical sciences.....	122	108	97	99	94
Computer and mathematical sciences.....	4	3	3	5	6

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

Table B-5. Federal scientists and engineers, by major occupational group and highest degree field: 1989-93

Page 3 of 4

Major occupational group and highest degree field	1989	1990	1991	1992	1993
Chemical (continued):					
Life sciences.....	11	8	9	8	7
Social sciences.....	2	-	-	-	-
Engineering.....	1,327	1,254	1,190	1,157	1,086
Non-science/non-engineering.....	33	39	44	41	50
No report.....	4	1	1	1	2
Civil:					
Total.....	13,945	13,621	13,357	13,231	12,874
Physical sciences.....	109	107	100	104	96
Computer and mathematical sciences.....	34	43	44	44	44
Life sciences.....	44	49	54	57	64
Social sciences.....	33	36	34	36	29
Engineering.....	13,041	12,693	12,425	12,295	11,936
Non-science/non-engineering.....	660	687	691	687	689
No report.....	24	6	9	8	16
Electrical, electronics, and computer:					
Total.....	31,121	31,899	32,753	32,955	32,374
Physical sciences.....	1,511	1,507	1,490	1,446	1,382
Computer and mathematical sciences.....	1,182	1,260	1,387	1,432	1,425
Life sciences.....	69	66	66	66	67
Social sciences.....	48	53	53	57	58
Engineering.....	26,293	27,167	27,875	27,961	27,376
Non-science/non-engineering.....	1,684	1,833	1,857	1,940	1,978
No report.....	334	13	25	53	88
Industrial:					
Total.....	3,463	3,419	3,173	3,016	2,725
Physical sciences.....	50	47	40	34	27
Computer and mathematical sciences.....	42	40	38	44	40
Life sciences.....	11	10	9	7	6
Social sciences.....	10	11	10	12	10
Engineering.....	2,662	2,886	2,653	2,518	2,262
Non-science/non-engineering.....	365	412	394	373	345
No report.....	323	13	29	28	35
Mechanical:					
Total.....	12,186	11,787	11,763	11,532	11,159
Physical sciences.....	185	183	185	180	154
Computer and mathematical sciences.....	66	58	63	64	63
Life sciences.....	29	27	25	24	26
Social sciences.....	11	8	7	8	9
Engineering.....	11,248	10,874	10,840	10,612	10,246
Non-science/non-engineering.....	559	629	631	633	633
No report.....	88	8	12	11	28

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

Table B-5. Federal scientists and engineers, by major occupational group and highest degree field: 1989-93

Major occupational group and highest degree field	1989	1990	1991	1992	1993
Other engineering:					
Total.....	25,442	25,819	26,640	27,218	26,853
Physical sciences.....	1,275	1,303	1,316	1,298	1,245
Computer and mathematical sciences.....	704	743	731	711	687
Life sciences.....	135	148	156	151	148
Social sciences.....	77	74	71	68	74
Engineering.....	21,046	21,470	22,144	22,671	22,276
Non-science/non-engineering.....	1,933	2,057	2,178	2,267	2,321
No report.....	272	24	44	52	102

KEY: "-" = Zero

SOURCE: National Science Foundation tabulations from Office of Personnel Management's Central Personnel Data Files

Table B-6. Federal scientists and engineers, by major occupational group and primary work activity: 1989-93

Major occupational group and primary work activity	1989	1990	1991	1992	1993
Total, All Occupations					
Total.....	185,623	189,049	194,726	198,853	196,908
Development.....	28,791	29,190	27,502	30,299	29,529
Research.....	21,242	21,381	21,768	22,246	21,670
Design.....	15,171	14,781	14,521	14,681	14,209
Data collection, processing, and analysis.....	14,236	14,325	14,795	14,951	14,675
Natural resources operations.....	11,488	11,904	12,455	13,235	13,461
Management.....	8,407	8,625	8,505	8,682	8,488
Installation, operations, and maintenance.....	11,480	11,429	11,608	11,623	11,353
Test and evaluation.....	9,712	10,095	10,160	10,409	10,495
Planning.....	6,374	6,238	6,223	6,271	6,169
Technical assistance and consulting.....	4,118	4,204	4,338	4,526	4,556
Production.....	5,708	5,703	5,836	5,884	5,659
Regulatory enforcement of licensing.....	4,951	5,332	5,867	6,026	5,910
Construction.....	5,170	4,940	4,746	4,698	4,682
Clinical practice, counseling, and ancillary medical service.....	3,430	3,625	3,981	4,201	4,440
Standards and specifications.....	1,674	1,692	1,620	1,642	1,506
Scientific and technical information.....	1,746	1,905	1,957	2,057	2,146
Research contract and grant administration.....	944	1,042	1,047	1,070	1,039
Teaching and training.....	376	406	442	431	471
Other - not elsewhere classified.....	8,329	8,867	8,682	8,740	8,244
Activity unknown.....	22,276	23,365	28,673	27,181	28,206
All scientists:					
Total.....	89,530	92,467	96,919	101,006	101,348
Development.....	6,181	6,184	5,242	6,130	5,953
Research.....	16,850	16,946	17,251	17,742	17,177
Design.....	308	308	289	308	307
Data collection, processing, and analysis.....	12,577	12,666	13,131	13,253	13,016
Natural resources operations.....	10,377	10,762	11,191	11,910	12,115
Management.....	1,965	2,007	2,167	2,308	2,322
Installation, operations, and maintenance.....	311	321	316	325	333
Test and evaluation.....	2,356	2,513	2,546	2,648	2,639
Planning.....	3,399	3,331	3,364	3,425	3,350
Technical assistance and consulting.....	2,384	2,494	2,555	2,709	2,772

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

Table B-6. Federal scientists and engineers, by major occupational group and primary work activity: 1989-93

Major occupational group and primary work activity	1989	1990	1991	1992	1993
All scientists (continued):					
Production.....	170	181	168	160	165
Regulatory enforcement of licensing.....	1,872	2,109	2,389	2,488	2,442
Construction.....	142	141	132	135	136
Clinical practice, counseling, and ancillary medical service.....	3,354	3,548	3,900	4,111	4,349
Standards and specifications.....	417	444	422	450	431
Scientific and technical information.....	1,048	1,131	1,124	1,208	1,247
Research contract and grant administration.....	662	710	700	703	686
Teaching and training.....	236	264	261	267	292
Other - not elsewhere classified.....	2,850	3,131	3,310	3,647	3,457
Activity unknown.....	22,071	23,276	26,461	27,079	28,159
Computer and mathematical sciences:					
Total.....	25,737	26,725	28,210	29,371	29,691
Development.....	3,742	3,780	3,248	3,786	3,682
Research.....	1,091	1,133	1,143	1,148	1,168
Design.....	88	102	90	88	84
Data collection, processing and analysis.....	3,885	3,919	4,052	4,036	3,813
Natural resources operations.....	33	42	42	41	44
Management.....	343	377	381	375	354
Installation, operations, and maintenance.....	128	127	123	123	121
Test and evaluation.....	497	508	463	555	584
Planning.....	370	373	390	393	380
Technical assistance and consulting.....	182	160	149	147	131
Production.....	39	50	53	46	51
Regulatory enforcement of licensing.....	32	34	42	45	42
Construction.....	2	3	2	2	2
Clinical practice, counseling, and ancillary medical service.....	20	15	23	20	17
Standards and specifications.....	17	23	25	36	36
Scientific and technical information.....	97	104	109	129	125
Research contract and grant administration.....	64	67	57	58	61
Teaching and training.....	32	31	28	28	29
Other - not elsewhere classified.....	698	736	662	643	542
Activity unknown.....	14,377	15,141	17,128	17,672	18,425

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

Table B-6. Federal scientists and engineers, by major occupational group and primary work activity: 1989-93

Major occupational group and primary work activity	1989	1990	1991	1992	1993
Life sciences:					
Total.....	23,082	24,009	25,280	26,765	26,920
Development.....	171	174	168	178	183
Research.....	6,389	6,512	6,808	7,103	6,823
Design.....	17	16	13	11	10
Data collection, processing, and analysis.....	936	949	975	1,018	1,047
Natural resources operations.....	9,147	9,418	9,736	10,351	10,542
Management.....	363	377	412	437	427
Installation, operations, and maintenance.....	48	53	48	49	60
Test and evaluation.....	359	393	429	428	422
Planning.....	888	881	912	940	965
Technical assistance and consulting.....	910	963	983	1,038	1,053
Production.....	2	2	2	2	3
Regulatory enforcement of licensing.....	549	635	760	826	813
Construction.....	19	14	21	24	37
Clinical practice, counseling, and ancillary medical service.....	384	388	402	414	404
Standards and specifications.....	157	162	145	150	144
Scientific and technical information.....	163	177	197	231	229
Research contract and grant administration.....	148	170	189	187	179
Teaching and training.....	89	79	75	77	83
Other - not elsewhere classified.....	325	278	320	371	376
Activity unknown.....	2,018	2,368	2,685	2,930	3,120
Physical sciences:					
Total.....	23,204	23,725	24,140	24,427	24,118
Development.....	1,990	1,955	1,581	1,899	1,829
Research.....	7,777	7,718	7,623	7,751	7,484
Design.....	189	177	177	195	198
Data collection, processing, and analysis.....	5,422	5,503	5,656	5,717	5,809
Natural resources operations.....	738	786	808	862	868
Management.....	967	946	1,002	1,053	1,040
Installation, operations, and maintenance.....	128	135	143	151	151
Test and evaluation.....	1,429	1,539	1,583	1,587	1,549
Planning.....	443	408	400	417	392
Technical assistance and consulting.....	640	696	745	769	776

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

Table B-6. Federal scientists and engineers, by major occupational group and primary work activity: 1989-93

Major occupational group and primary work activity	1989	1990	1991	1992	1993
Physical sciences (continued):					
Production.....	128	129	113	111	110
Regulatory enforcement of licensing.....	1,150	1,309	1,455	1,488	1,468
Construction.....	117	117	102	103	93
Clinical practice, counseling, and ancillary medical service.....	233	237	231	227	221
Standards and specifications.....	209	220	213	225	209
Scientific and technical information.....	697	754	718	734	784
Research contract and grant administration.....	322	351	331	339	326
Teaching and training.....	72	94	88	92	107
Other - not elsewhere classified.....	499	629	643	701	701
Activity unknown.....	54	22	528	6	3
Social sciences:					
Total.....	17,507	18,008	19,289	20,443	20,619
Development.....	278	275	245	267	259
Research.....	1,593	1,583	1,677	1,740	1,702
Design.....	14	13	9	14	15
Data collection, processing, and analysis.....	2,334	2,295	2,448	2,482	2,347
Natural resources operations.....	459	516	605	656	661
Management.....	292	307	372	443	501
Installation, operations, and maintenance.....	7	6	2	2	1
Test and evaluation.....	71	73	71	78	84
Planning.....	1,698	1,669	1,662	1,675	1,613
Technical assistance and consulting.....	652	675	678	755	812
Production.....	1	-	-	1	1
Regulatory enforcement of licensing.....	141	131	132	129	119
Construction.....	4	7	7	6	4
Clinical practice, counseling, and ancillary medical service.....	2,717	2,908	3,244	3,450	3,707
Standards and specifications.....	34	39	39	39	42
Scientific and technical information.....	91	96	100	114	109
Research contract and grant administration.....	128	122	123	119	120
Teaching and training.....	43	60	70	70	73
Other - not elsewhere classified.....	1,328	1,488	1,685	1,932	1,838
Activity unknown.....	5,622	5,745	6,120	6,471	6,611

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

Table B-6. Federal scientists and engineers, by major occupational group and primary work activity: 1989-93

Major occupational group and primary work activity	1989	1990	1991	1992	1993
All engineers:					
Total.....	96,093	96,582	97,807	97,847	95,560
Development.....	22,610	23,006	22,260	24,169	23,576
Research.....	4,392	4,435	4,517	4,504	4,493
Design.....	14,863	14,473	14,232	14,373	13,902
Data collection, processing, and analysis.....	1,659	1,659	1,664	1,698	1,659
Natural resources operations.....	1,111	1,142	1,264	1,325	1,346
Management.....	6,442	6,618	6,338	6,374	6,166
Installation, operations, and maintenance.....	11,169	11,108	11,292	11,298	11,020
Test and evaluation.....	7,356	7,582	7,614	7,761	7,856
Planning.....	2,975	2,907	2,859	2,846	2,819
Technical assistance and consulting.....	1,734	1,710	1,783	1,817	1,784
Production.....	5,538	5,522	5,668	5,724	5,494
Regulatory enforcement of licensing.....	3,079	3,223	3,478	3,538	3,468
Construction.....	5,028	4,799	4,614	4,563	4,546
Clinical practice, counseling, and ancillary medical service.....	76	77	81	90	91
Standards and specifications.....	1,257	1,248	1,198	1,192	1,075
Scientific and technical information.....	698	774	833	849	899
Research contract and grant administration.....	282	332	347	367	353
Teaching and training.....	140	142	181	164	179
Other - not elsewhere classified.....	5,479	5,736	5,372	5,093	4,787
Activity unknown.....	205	89	2,212	102	47
Aerospace:					
Total.....	8,433	8,624	8,777	8,584	8,330
Development.....	3,653	3,676	3,745	3,784	3,679
Research.....	1,275	1,294	1,315	1,296	1,258
Design.....	457	469	492	473	468
Data collection, processing, and analysis.....	100	97	87	89	80
Natural resources operations	-	-	-	-	-
Management.....	434	465	388	387	378
Installation, operations, and maintenance.....	460	475	475	470	459
Test and evaluation.....	965	970	1,009	1,015	1,012
Planning.....	64	61	59	59	56
Technical assistance and consulting.....	48	48	43	37	30

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

Table B-6. Federal scientists and engineers, by major occupational group and primary work activity: 1989-93

Major occupational group and primary work activity	1989	1990	1991	1992	1993
Production.....	320	383	367	370	378
Regulatory enforcement of licensing.....	114	124	131	131	123
Construction.....	-	-	-	-	-
Clinical practice, counseling, and ancillary medical service.....	-	-	-	-	-
Standards and specifications.....	97	91	86	76	69
Scientific and technical information.....	129	131	123	118	113
Research contract and grant administration.....	10	9	8	6	6
Teaching and training.....	5	5	7	6	5
Other - not elsewhere classified.....	299	325	332	248	199
Activity unknown.....	3	1	110	19	17
Chemical:					
Total.....	1,503	1,413	1,344	1,311	1,245
Development.....	470	417	400	394	371
Research.....	291	285	257	245	243
Design.....	51	53	56	56	59
Data collection, processing, and analysis.....	58	55	58	65	67
Natural resources operations.....	2	2	5	2	2
Management.....	75	65	64	61	69
Installation, operations, and maintenance.....	35	32	30	29	22
Test and evaluation.....	96	92	97	99	95
Planning.....	7	9	12	16	8
Technical assistance and consulting.....	25	33	31	35	31
Production.....	167	154	146	134	128
Regulatory enforcement of licensing.....	51	43	36	36	34
Construction.....	5	2	7	9	7
Clinical practice, counseling, and ancillary medical service.....	-	-	-	-	-
Standards and specifications.....	40	35	30	30	23
Scientific and technical information.....	21	22	22	23	24
Research contract and grant administration.....	37	36	32	31	26
Teaching and training.....	1	-	-	1	-
Other - not elsewhere classified.....	71	78	45	44	36
Activity unknown.....	-	-	16	1	-

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

Table B-6. Federal scientists and engineers, by major occupational group and primary work activity: 1989-93

Major occupational group and primary work activity	1989	1990	1991	1992	1993
Civil:					
Total.....	13,945	13,621	13,357	13,231	12,874
Development.....	238	220	218	236	213
Research.....	347	349	354	348	355
Design.....	4,865	4,636	4,522	4,506	4,428
Data collection, processing, and analysis.....	306	293	298	278	273
Natural resources operations.....	650	687	747	777	767
Management.....	692	719	762	720	682
Installation, operations, and maintenance.....	747	742	712	714	703
Test and evaluation.....	93	85	80	84	82
Planning.....	1,416	1,370	1,319	1,291	1,260
Technical assistance and consulting.....	359	347	321	338	299
Production.....	22	20	20	24	21
Regulatory enforcement of licensing.....	230	234	250	267	261
Construction.....	3,205	2,980	2,816	2,706	2,633
Clinical practice, counseling, and ancillary medical service.....	2	4	3	4	3
Standards and specifications.....	58	56	57	49	48
Scientific and technical information.....	36	38	38	36	33
Research contract and grant administration.....	12	13	17	17	13
Teaching and training.....	11	12	11	11	10
Other - not elsewhere classified.....	640	775	794	816	784
Activity unknown.....	16	41	18	9	6
Electrical, electronics, and computer:					
Total.....	31,121	31,899	32,753	32,955	32,374
Development.....	11,192	11,680	11,167	12,654	12,475
Research.....	934	976	1,012	1,068	1,074
Design.....	3,756	3,756	3,726	3,809	3,608
Data collection, processing, and analysis.....	523	542	520	541	510
Natural resources operations.....	12	13	15	19	16
Management.....	1,312	1,337	1,147	1,108	1,026
Installation, operations, and maintenance.....	5,061	5,006	5,101	5,184	5,129
Test and evaluation.....	3,419	3,649	3,661	3,736	3,883
Planning.....	258	247	255	244	256
Technical assistance and consulting.....	212	213	247	247	235

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

Table B-6. Federal scientists and engineers, by major occupational group and primary work activity: 1989-93

Major occupational group and primary work activity	1989	1990	1991	1992	1993
Electrical, electronics, and computer (continued):					
Production.....	1,449	1,441	1,563	1,639	1,678
Regulatory enforcement of licensing.....	331	343	372	387	378
Construction.....	393	379	372	381	396
Clinical practice, counseling, and ancillary medical service.....	3	4	5	5	5
Standards and specifications.....	258	273	294	297	285
Scientific and technical information.....	199	212	217	219	216
Research contract and grant administration.....	25	33	35	47	42
Teaching and training.....	42	46	55	48	51
Other - not elsewhere classified.....	1,603	1,723	1,539	1,278	1,094
Activity unknown.....	139	26	1,450	44	17
Industrial:					
Total.....	3,463	3,419	3,173	3,016	2,725
Development.....	205	212	185	186	175
Research.....	57	54	50	54	58
Design.....	243	239	212	208	184
Data collection, processing, and analysis.....	40	37	36	31	24
Natural resources operations.....	1	1	1	2	1
Management.....	279	272	241	243	238
Installation, operations, and maintenance.....	547	551	530	470	415
Test and evaluation.....	44	48	52	60	57
Planning.....	160	168	147	142	128
Technical assistance and consulting.....	97	89	86	83	71
Production.....	1,150	1,107	1,022	973	847
Regulatory enforcement of licensing.....	139	150	160	152	156
Construction.....	31	38	36	38	38
Clinical practice, counseling, and ancillary medical service.....	4	2	3	5	10
Standards and specifications.....	64	62	58	58	48
Scientific and technical information.....	23	21	22	23	21
Research contract and grant administration.....	3	12	10	7	6
Teaching and training.....	7	4	9	5	4
Other - not elsewhere classified.....	361	347	286	271	243
Activity unknown.....	8	5	27	5	1

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

Table B-6. Federal scientists and engineers, by major occupational group and primary work activity: 1989-93

Major occupational group and primary work activity	1989	1990	1991	1992	1993
Mechanical:					
Total.....	12,186	11,787	11,763	11,532	11,159
Development.....	3,205	3,176	2,902	3,241	3,138
Research.....	417	423	458	413	426
Design.....	3,251	3,051	2,907	2,918	2,798
Data collection, processing, and analysis.....	117	125	115	123	127
Natural resources operations.....	2	-	-	3	4
Management.....	338	337	375	392	365
Installation, operations, and maintenance.....	1,324	1,250	1,245	1,212	1,134
Test and evaluation.....	1,252	1,221	1,220	1,227	1,241
Planning.....	89	87	89	91	98
Technical assistance and consulting.....	87	70	66	65	72
Production.....	676	659	679	632	632
Regulatory enforcement of licensing.....	53	62	71	75	74
Construction.....	445	428	410	404	404
Clinical practice, counseling, and ancillary medical service.....	1	1	1	1	1
Standards and specifications.....	214	196	172	202	181
Scientific and technical information.....	63	61	62	63	64
Research contract and grant administration.....	26	28	30	39	41
Teaching and training.....	-	-	-	-	2
Other - not elsewhere classified.....	610	605	517	421	356
Activity unknown.....	16	7	444	10	1
Other engineering:					
Total.....	25,442	25,819	26,640	27,218	26,853
Development.....	3,647	3,625	3,643	3,674	3,525
Research.....	1,071	1,054	1,071	1,080	1,079
Design.....	2,240	2,269	2,317	2,403	2,357
Data collection, processing, and analysis.....	515	510	550	571	578
Natural resources operations.....	444	439	496	522	556
Management.....	3,312	3,423	3,361	3,463	3,408
Installation, operations, and maintenance.....	2,995	3,052	3,199	3,219	3,158
Test and evaluation.....	1,487	1,517	1,495	1,540	1,486
Planning.....	981	965	978	1,003	1,013
Technical assistance and consulting.....	906	910	989	1,012	1,046
Production.....	1,754	1,758	1,871	1,952	1,810
Regulatory enforcement of licensing.....	2,161	2,267	2,458	2,490	2,442
Construction.....	949	972	973	1,025	1,068
Clinical practice, counseling, and ancillary medical service.....	66	66	69	75	72
Standards and specifications.....	526	535	501	480	421

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

Table B-6. Federal scientists and engineers, by major occupational group and primary work activity: 1989-93

Major occupational group and primary work activity	1989	1990	1991	1992	1993
Other engineering (continued):					
Scientific and technical information.....	227	289	349	367	428
Research contract and grant administration.....	169	201	215	220	219
Teaching and training.....	74	75	99	93	107
Other - not elsewhere classified.....	1,895	1,883	1,859	2,015	2,075
Activity unknown.....	23	9	147	14	5

KEY: "-" = Zero

SOURCE: National Science Foundation tabulations from Office of Personnel Management's Central Personnel Data Files

Table B-7. Federal scientists and engineers, by agency and primary work activity: 1989-93

Agency and primary work activity	1989	1990	1991	1992	1993
Total, All Agencies					
Total.....	185,623	189,049	194,726	198,853	196,908
Development.....	28,791	29,190	27,502	30,299	29,529
Research.....	21,242	21,381	21,768	22,246	21,670
Design.....	15,171	14,781	14,521	14,681	14,209
Data collection, processing, and analysis.....	14,236	14,325	14,795	14,951	14,675
Natural resources operations.....	11,488	11,904	12,455	13,235	13,461
Management.....	8,407	8,625	8,505	8,682	8,488
Installation, operations, and maintenance.....	11,480	11,429	11,608	11,623	11,353
Test and evaluation.....	9,712	10,095	10,160	10,409	10,495
Planning.....	6,374	6,238	6,223	6,271	6,169
Technical assistance and consulting.....	4,118	4,204	4,338	4,526	4,556
Production.....	5,708	5,703	5,836	5,884	5,659
Regulatory enforcement of licensing.....	4,951	5,332	5,867	6,026	5,910
Construction.....	5,170	4,940	4,746	4,698	4,682
Clinical practice, counseling, and ancillary medical service.....	3,430	3,625	3,981	4,201	4,440
Standards and specifications.....	1,674	1,692	1,620	1,642	1,506
Scientific and technical information.....	1,746	1,905	1,957	2,057	2,146
Research contract and grant administration.....	944	1,042	1,047	1,070	1,039
Teaching and training.....	376	406	442	431	471
Other - not elsewhere classified.....	8,329	8,867	8,682	8,740	8,244
Activity unknown.....	22,276	23,365	28,673	27,181	28,206
Department of Agriculture:					
Total.....	16,875	17,068	17,475	18,073	17,764
Development.....	95	88	82	93	99
Research.....	3,362	3,286	3,359	3,448	3,239
Design.....	498	470	455	438	397
Data collection, processing, and analysis.....	1,131	1,109	1,165	1,143	1,124
Natural resources operations.....	8,344	8,618	8,847	9,233	9,199
Management.....	337	349	383	386	387
Installation, operations, and maintenance.....	34	37	39	39	42
Test and evaluation.....	236	243	263	262	262
Planning.....	531	518	504	515	520
Technical assistance and consulting.....	608	566	549	576	558
Production.....	3	3	3	5	6
Regulatory enforcement of licensing.....	45	39	43	43	49
Construction.....	275	262	252	232	216
Clinical practice, counseling, and ancillary medical service.....	3	4	5	6	5
Standards and specifications.....	10	18	20	20	16

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

Table B-7. Federal scientists and engineers, by agency and primary work activity: 1989-93

Agency and primary work activity	1989	1990	1991	1992	1993
Department of Agriculture (continued):					
Scientific and technical information.....	113	113	131	154	151
Research contract and grant administration.....	24	31	22	23	24
Teaching and training.....	3	1	5	7	11
Other - not elsewhere classified.....	45	52	66	74	70
Activity unknown.....	1,178	1,261	1,282	1,376	1,389
Department of Commerce:					
Total.....	7,768	8,006	8,312	8,660	8,766
Development.....	465	431	415	436	444
Research.....	2,086	2,158	2,207	2,315	2,298
Design.....	52	51	56	51	52
Data collection, processing, and analysis.....	3,303	3,428	3,592	3,650	3,607
Natural resources operations.....	42	47	56	58	51
Management.....	190	187	199	211	229
Installation, operations, and maintenance.....	90	94	98	106	113
Test and evaluation.....	53	53	59	57	56
Planning.....	120	117	130	126	130
Technical assistance and consulting.....	92	88	70	89	90
Production.....	-	1	1	1	1
Regulatory enforcement of licensing.....	31	37	32	33	32
Construction.....	24	22	27	26	30
Clinical practice, counseling, and ancillary medical service.....	-	-	-	-	-
Standards and specifications.....	23	31	29	36	36
Scientific and technical information.....	99	108	109	105	101
Research contract and grant administration.....	23	24	21	16	22
Teaching and training.....	24	23	19	32	43
Other - not elsewhere classified.....	62	63	67	71	87
Activity unknown.....	989	1,043	1,125	1,241	1,344
Department of Defense:					
Total.....	94,194	93,949	94,042	94,213	92,163
Development.....	21,499	21,857	19,861	22,638	22,008
Research.....	5,305	5,226	5,003	5,028	4,895
Design.....	12,127	11,731	11,281	11,396	10,995
Data collection, processing, and analysis.....	3,303	3,236	3,087	3,174	3,034
Natural resources operations.....	452	433	528	606	659
Management.....	5,029	5,084	4,745	4,670	4,476
Installation, operations, and maintenance.....	8,800	8,675	8,685	8,653	8,419
Test and evaluation.....	7,133	7,294	7,220	7,487	7,609
Planning.....	2,941	2,850	2,864	2,893	2,813
Technical assistance and consulting.....	883	883	877	863	829

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

Table B-7. Federal scientists and engineers, by agency and primary work activity: 1989-93

Agency and primary work activity	1989	1990	1991	1992	1993
Department of Defense (continued):					
Production.....	446	477	586	654	647
Regulatory enforcement of licensing.....	3,420	3,227	2,998	2,963	2,969
Construction.....					
Clinical practice, counseling, and ancillary medical service.....	797 852	778 800	840 708	872 720	874 629
Standards and specifications.....	805	847	854	856	852
Scientific and technical information.....	146	170	179	189	194
Research contract and grant administration.....	256	276	300	278	301
Teaching and training.....	5,210	5,234	4,644	4,337	3,966
Other - not elsewhere classified.....	9,421	9,535	13,319	10,436	10,719
Activity unknown.....					
Department of the Army:					
Total.....	34,957	34,271	34,295	34,192	33,300
Development.....	6,512	6,599	7,272	7,450	7,375
Research.....	2,375	2,382	2,436	2,114	2,081
Design.....	4,625	4,398	4,404	4,526	4,493
Data collection, processing, and analysis.....	1,135	1,134	1,099	1,114	1,057
Natural resources operations.....	299	284	341	406	436
Management.....	3,307	3,388	3,052	2,966	2,852
Installation, operations, and maintenance.....	1,429	1,377	1,396	1,327	1,302
Test and evaluation.....	1,396	1,372	1,425	1,420	1,354
Planning.....	2,137	2,021	2,026	2,053	1,943
Technical assistance and consulting.....	366	358	344	347	321
Production.....	1,238	1,190	1,351	1,388	1,314
Regulatory enforcement of licensing.....	392	411	515	580	558
Construction.....	2,378	2,216	1,980	1,966	1,967
Clinical practice, counseling, and ancillary medical service.....	514 260	507 239	550 159	531 165	512 111
Standards and specifications.....	234	255	253	251	229
Scientific and technical information.....	72	68	61	59	56
Research contract and grant administration.....	85	101	110	102	112
Teaching and training.....	2,758	2,693	2,168	2,018	1,872
Other - not elsewhere classified.....	3,445	3,278	3,353	3,409	3,355
Activity unknown.....					
Department of the Navy:					
Total.....	39,076	39,264	39,155	38,892	37,650
Development.....	10,122	10,322	7,650	10,425	10,088
Research.....	1,912	1,835	1,535	1,848	1,818
Design.....	5,932	5,755	5,396	5,467	5,142
Data collection, processing, and analysis.....	1,174	1,183	1,078	1,126	1,060
Natural resources operations.....	90	88	107	122	129

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

Table B-7. Federal scientists and engineers, by agency and primary work activity: 1989-93

Agency and primary work activity	1989	1990	1991	1992	1993
Department of the Navy (continued):					
Management.....	1,224	1,186	1,148	1,119	984
Installation, operations, and maintenance.....	4,578	4,606	4,686	4,640	4,420
Test and evaluation.....	4,747	4,893	4,765	4,993	5,163
Planning.....	378	406	406	393	416
Technical assistance and consulting.....	301	295	285	258	255
Production.....	2,176	2,084	2,081	2,049	1,900
Regulatory enforcement of licensing.....	28	28	29	35	35
Construction.....	693	669	692	678	685
Clinical practice, counseling, and ancillary medical service.....	159	163	188	223	248
Standards and specifications.....	300	269	253	239	231
Scientific and technical information.....	253	267	270	277	276
Research contract and grant administration.....	65	77	94	110	119
Teaching and training.....	38	50	64	59	62
Other - not elsewhere classified.....	1,969	2,033	1,964	1,736	1,507
Activity unknown.....	2,937	3,055	6,464	3,095	3,112
Department of the Air Force:					
Total.....	16,502	16,267	16,063	16,273	16,281
Development.....	4,492	4,474	4,508	4,359	4,134
Research.....	822	837	858	927	914
Design.....	1,484	1,480	1,393	1,317	1,272
Data collection, processing, and analysis.....	669	681	672	682	683
Natural resources operations.....	63	61	80	75	92
Management.....	397	386	417	470	525
Installation, operations, and maintenance.....	2,744	2,638	2,547	2,621	2,628
Test and evaluation.....	923	963	947	953	974
Planning.....	390	384	390	392	406
Technical assistance and consulting.....	170	188	203	211	226
Production.....	1,171	877	806	735	753
Regulatory enforcement of licensing.....	26	36	40	37	53
Construction.....	329	320	305	292	287
Clinical practice, counseling, and ancillary medical service.....	118	105	93	109	104
Standards and specifications.....	37	38	39	37	27
Scientific and technical information.....	300	306	302	297	296
Research contract and grant administration.....	9	9	8	5	4
Teaching and training.....	43	43	46	46	52
Other - not elsewhere classified.....	329	361	379	447	459
Activity unknown.....	1,986	2,080	2,030	2,261	2,392

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

Table B-7. Federal scientists and engineers, by agency and primary work activity: 1989-93

Agency and primary work activity	1989	1990	1991	1992	1993
Other Defense Agencies:					
Total.....	3,659	4,147	4,529	4,856	4,932
Development.....	373	462	431	404	411
Research.....	196	172	174	139	82
Design.....	86	98	88	86	88
Data collection, processing, and analysis.....	325	238	238	252	234
Natural resources operations.....	-	-	-	3	2
Management.....	101	124	128	115	115
Installation, operations, and maintenance.....	49	54	56	65	69
Test and evaluation.....	67	66	83	121	118
Planning.....	36	39	42	55	48
Technical assistance and consulting.....	46	42	45	47	27
Production.....	784	1,185	1,225	1,328	1,328
Regulatory enforcement of licensing.....	-	2	2	2	1
Construction.....	20	22	21	27	30
Clinical practice, counseling, and ancillary medical service.....	6	3	9	9	10
Standards and specifications.....	255	254	257	279	260
Scientific and technical information.....	18	19	29	31	31
Research contract and grant administration.....	-	16	16	15	15
Teaching and training.....	90	82	80	71	75
Other - not elsewhere classified.....	154	147	133	136	128
Activity unknown.....	1,053	1,122	1,472	1,671	1,860
Department of Energy:					
Total.....	3,838	4,106	4,809	5,302	5,132
Development.....	442	422	535	517	453
Research.....	155	168	173	169	150
Design.....	244	235	270	300	261
Data collection, processing, and analysis.....	236	230	251	259	258
Natural resources operations.....	48	53	66	79	92
Management.....	510	567	689	837	837
Installation, operations, and maintenance.....	340	362	406	401	383
Test and evaluation.....	56	56	61	68	66
Planning.....	190	185	196	203	198
Technical assistance and consulting.....	114	136	236	309	343
Production.....	241	267	257	274	257
Regulatory enforcement of licensing.....	367	394	431	469	432
Construction.....	148	141	179	168	145
Clinical practice, counseling, and ancillary medical service.....	2	1	1	-	-
Standards and specifications.....	29	48	52	53	46

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

Table B-7. Federal scientists and engineers, by agency and primary work activity: 1989-93

Agency and primary work activity	1989	1990	1991	1992	1993
Department of Energy (continued):					
Scientific and technical information.....	56	50	61	74	69
Research contract and grant administration.....	164	174	191	203	206
Teaching and training.....	1	3	8	7	6
Other - not elsewhere classified.....	164	236	293	385	389
Activity unknown.....	331	378	453	527	541
Department of Health & Human Services:					
Total.....	8,121	8,734	9,244	9,683	9,614
Development.....	122	120	110	110	110
Research.....	3,770	3,950	4,209	4,364	4,195
Design.....	67	74	87	111	109
Data collection, processing, and analysis.....	592	620	658	662	633
Natural resources operations.....	2	2	2	1	1
Management.....	77	80	86	76	71
Installation, operations, and maintenance.....	28	28	30	35	39
Test and evaluation.....	815	949	1,004	1,018	1,002
Planning.....	103	102	93	109	101
Technical assistance and consulting.....	491	486	483	567	603
Production.....	1	1	1	1	1
Regulatory enforcement of licensing.....	328	425	474	465	451
Construction.....	27	32	33	38	44
Clinical practice, counseling, and ancillary medical service.....	110	123	132	142	148
Standards and specifications.....	89	109	95	89	90
Scientific and technical information.....	56	53	49	54	57
Research contract and grant administration.....	163	178	187	186	173
Teaching and training.....	10	11	12	11	10
Other - not elsewhere classified.....	58	62	55	60	67
Activity unknown.....	1,212	1,329	1,444	1,584	1,709
Department of Housing & Urban Development:					
Total.....	390	395	431	457	440
Development.....	4	3	3	2	2
Research.....	15	12	9	9	8
Design.....	4	10	11	10	9
Data collection, processing, and analysis.....	21	22	23	20	19
Natural resources operations.....	-	-	-	-	-
Management.....	7	9	9	11	13
Installation, operations, and maintenance.....	27	28	29	26	22
Test and evaluation.....	-	-	-	-	-
Planning.....	32	28	28	26	24
Technical assistance and consulting.....	14	14	11	13	15

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

Table B-7. Federal scientists and engineers, by agency and primary work activity: 1989-93

Agency and primary work activity	1989	1990	1991	1992	1993
Department of Housing & Urban Development (continued):					
Production.....	-	-	-	-	-
Regulatory enforcement of licensing.....	1	1	2	2	2
Construction.....	41	38	38	37	34
Clinical practice, counseling, and ancillary medical service.....	-	-	-	1	1
Standards and specifications.....	4	4	4	4	4
Scientific and technical information.....	2	4	2	1	-
Research contract and grant administration.....	-	1	1	1	-
Teaching and training.....	-	-	-	-	-
Other - not elsewhere classified.....	91	93	115	121	116
Activity unknown.....	127	128	146	173	171
Department of the Interior:					
Total.....	11,846	12,046	12,502	13,142	13,450
Development.....	240	236	250	268	285
Research.....	2,280	2,257	2,306	2,462	2,457
Design.....	733	750	727	740	736
Data collection, processing, and analysis.....	2,029	2,042	2,179	2,136	2,200
Natural resources operations.....	2,588	2,743	2,949	3,253	3,454
Management.....	376	357	364	376	339
Installation, operations, and maintenance.....	251	259	255	262	258
Test and evaluation.....	49	52	45	38	42
Planning.....	880	857	854	842	831
Technical assistance and consulting.....	508	517	540	571	605
Production.....	8	7	6	7	5
Regulatory enforcement of licensing.....	121	105	99	115	110
Construction.....	448	421	389	373	393
Clinical practice, counseling, and ancillary medical service.....	-	1	7	5	4
Standards and specifications.....	208	204	184	181	180
Scientific and technical information.....	218	229	217	212	191
Research contract and grant administration.....	13	13	18	18	17
Teaching and training.....	14	12	14	17	17
Other - not elsewhere classified.....	224	278	341	414	428
Activity unknown.....	658	706	758	852	898
Department of Justice:					
Total.....	1,579	1,752	2,026	2,380	2,583
Development.....	15	16	16	17	26
Research.....	114	116	139	174	188
Design.....	3	3	1	1	4
Data collection, processing, and analysis.....	105	102	91	81	85
Natural resources operations.....	-	-	-	-	-

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

Table B-7. Federal scientists and engineers, by agency and primary work activity: 1989-93

Agency and primary work activity	1989	1990	1991	1992	1993
Department of Justice (continued):					
Management.....	16	15	14	20	25
Installation, operations, and maintenance.....	4	3	4	3	4
Test and evaluation.....	3	4	5	7	12
Planning.....	1	1	-	2	-
Technical assistance and consulting.....	12	8	13	14	13
Production.....	-	-	-	-	1
Regulatory enforcement of licensing.....	-	-	-	-	-
Construction.....	2	2	2	3	-
Clinical practice, counseling, and ancillary medical service.....	152	163	214	244	303
Standards and specifications.....	-	-	-	-	1
Scientific and technical information.....	15	16	14	21	19
Research contract and grant administration.....	14	14	13	13	19
Teaching and training.....	-	-	-	-	1
Other - not elsewhere classified.....	546	773	856	995	999
Activity unknown.....	577	516	644	785	883
Department of Labor:					
Total.....	1,891	1,926	2,072	2,167	2,141
Development.....	8	6	5	6	4
Research.....	55	80	106	113	129
Design.....	-	-	-	-	-
Data collection, processing, and analysis.....	1,066	1,087	1,218	1,309	1,265
Natural resources operations.....	3	3	2	1	1
Management.....	11	10	10	10	10
Installation, operations, and maintenance.....	2	2	2	2	2
Test and evaluation.....	59	61	60	58	56
Planning.....	40	42	36	35	35
Technical assistance and consulting.....	104	102	104	96	89
Production.....	-	-	-	-	-
Regulatory enforcement of licensing.....	121	124	120	120	121
Construction.....	-	-	-	-	-
Clinical practice, counseling, and ancillary medical service.....	1	1	1	1	1
Standards and specifications.....	22	23	21	26	24
Scientific and technical information.....	1	-	-	-	-
Research contract and grant administration.....	1	1	1	1	1
Teaching and training.....	3	3	3	3	5
Other - not elsewhere classified.....	92	83	78	69	65
Activity unknown.....	302	298	305	317	333

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

Table B-7. Federal scientists and engineers, by agency and primary work activity: 1989-93

Agency and primary work activity	1989	1990	1991	1992	1993
Department of State:					
Total.....	2,877	3,049	3,218	3,424	3,401
Development.....	7	3	4	3	3
Research.....	5	2	1	3	3
Design.....	23	17	19	18	17
Data collection, processing, and analysis.....	264	246	213	209	181
Natural resources operations.....	1	-	-	-	-
Management.....	41	43	34	34	36
Installation, operations, and maintenance.....	143	157	157	165	164
Test and evaluation.....	-	-	-	-	-
Planning.....	661	670	667	652	647
Technical assistance and consulting.....	11	10	8	9	6
Production.....	-	-	-	-	-
Regulatory enforcement of licensing.....	-	-	-	-	-
Construction.....	11	11	10	10	10
Clinical practice, counseling, and ancillary medical service.....	-	-	-	1	1
Standards and specifications.....	-	1	-	-	-
Scientific and technical information.....	18	18	18	14	15
Research contract and grant administration.....	-	-	-	-	-
Teaching and training.....	1	1	1	1	1
Other - not elsewhere classified.....	5	9	12	17	13
Activity unknown.....	1,686	1,861	2,074	2,288	2,304
Department of Transportation:					
Total.....	4,580	4,763	5,101	5,403	5,462
Development.....	459	416	397	384	365
Research.....	134	150	183	193	208
Design.....	627	613	632	655	660
Data collection, processing, and analysis.....	67	77	69	68	64
Natural resources operations.....	1	1	1	1	1
Management.....	347	387	391	392	419
Installation, operations, and maintenance.....	703	705	777	828	832
Test and evaluation.....	367	401	406	424	434
Planning.....	162	171	176	183	178
Technical assistance and consulting.....	191	182	184	206	188
Production.....	2	2	3	3	5
Regulatory enforcement of licensing.....	175	184	199	207	207
Construction.....	384	367	399	434	422
Clinical practice, counseling, and ancillary medical service.....	1	1	2	5	7
Standards and specifications.....	94	97	115	117	111

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

Table B-7. Federal scientists and engineers, by agency and primary work activity: 1989-93

Agency and primary work activity	1989	1990	1991	1992	1993
Department of Transportation (continued):					
Scientific and technical information.....	5	8	9	8	11
Research contract and grant administration.....	9	6	6	8	7
Teaching and training.....	44	52	57	53	50
Other - not elsewhere classified.....	397	493	571	617	643
Activity unknown.....	411	450	524	617	650
Department of the Treasury:					
Total.....	2,516	2,664	3,103	3,320	3,461
Development.....	35	48	65	71	81
Research.....	77	67	72	73	69
Design.....	24	27	39	37	37
Data collection, processing, and analysis.....	201	217	264	280	263
Natural resources operations.....	-	-	-	-	-
Management.....	9	7	6	7	5
Installation, operations, and maintenance.....	22	21	22	19	18
Test and evaluation.....	76	77	84	60	54
Planning.....	96	85	87	95	100
Technical assistance and consulting.....	7	8	12	12	12
Production.....	6	8	9	10	8
Regulatory enforcement of licensing.....	287	285	298	298	291
Construction.....	-	-	2	2	3
Clinical practice, counseling, and ancillary medical service.....	-	-	-	-	-
Standards and specifications.....	9	9	9	14	14
Scientific and technical information.....	35	18	18	17	22
Research contract and grant administration.....	1	-	5	6	8
Teaching and training.....	-	-	-	-	-
Other - not elsewhere classified.....	98	112	139	155	144
Activity unknown.....	1,533	1,675	1,972	2,164	2,332
Department of Veterans Affairs:					
Total.....	4,401	4,614	4,902	5,109	5,355
Development.....	2	2	2	2	1
Research.....	753	725	734	696	676
Design.....	39	35	29	29	25
Data collection, processing, and analysis.....	5	7	8	9	13
Natural resources operations.....	1	1	1	-	-
Management.....	115	109	117	134	138
Installation, operations, and maintenance.....	448	459	461	453	474
Test and evaluation.....	16	15	14	16	15
Planning.....	40	51	53	56	57
Technical assistance and consulting.....	7	8	9	10	6

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

Table B-7. Federal scientists and engineers, by agency and primary work activity: 1989-93

Agency and primary work activity	1989	1990	1991	1992	1993
Department of Veterans Affairs (continued):					
Production.....	2	2	7	4	3
Regulatory enforcement of licensing.....	5	6	5	7	4
Construction.....	60	54	59	69	81
Clinical practice, counseling, and ancillary medical service.....	2,358	2,546	2,769	2,919	3,090
Standards and specifications.....	5	5	5	4	4
Scientific and technical information.....	7	7	7	10	13
Research contract and grant administration.....	4	3	3	4	4
Teaching and training.....	14	16	16	14	17
Other - not elsewhere classified.....	18	18	18	31	47
Activity unknown.....	502	545	585	642	687
Environmental Protection Agency:					
Total.....	6,503	7,223	7,810	7,887	8,061
Development.....	181	203	223	224	211
Research.....	438	427	476	437	440
Design.....	7	7	5	3	3
Data collection, processing, and analysis.....	1,277	1,272	1,350	1,336	1,345
Natural resources operations.....	3	1	1	1	1
Management.....	76	89	88	88	87
Installation, operations, and maintenance.....	6	5	5	7	7
Test and evaluation.....	86	111	124	131	128
Planning.....	208	216	216	220	231
Technical assistance and consulting.....	670	726	784	776	805
Production.....	-	-	1	1	1
Regulatory enforcement of licensing.....	1,325	1,524	1,702	1,702	1,689
Construction.....	55	44	39	34	33
Clinical practice, counseling, and ancillary medical service.....	-	1	1	-	-
Standards and specifications.....	199	204	234	230	211
Scientific and technical information.....	279	405	431	495	624
Research contract and grant administration.....	108	132	127	126	118
Teaching and training.....	-	-	-	1	2
Other - not elsewhere classified.....	175	203	197	206	202
Activity unknown.....	1,410	1,653	1,806	1,869	1,923
General Services Administration:					
Total.....	741	827	924	922	978
Development.....	15	11	10	10	6
Research.....	10	10	10	7	7
Design.....	114	134	173	171	186
Data collection, processing, and analysis.....	-	-	-	-	-
Natural resources operations.....	-	-	-	-	-

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

Table B-7. Federal scientists and engineers, by agency and primary work activity: 1989-93

Agency and primary work activity	1989	1990	1991	1992	1993
General Services Administration (continued):					
Management.....	18	22	19	18	19
Installation, operations, and maintenance.....	18	17	18	17	14
Test and evaluation.....	29	29	31	20	26
Planning.....	7	7	6	5	5
Technical assistance and consulting.....	8	6	8	7	5
Production.....	-	-	-	-	-
Regulatory enforcement of licensing.....	11	12	14	15	12
Construction.....	190	226	222	205	205
Clinical practice, counseling, and ancillary medical service.....	-	-	-	-	-
Standards and specifications.....	10	12	11	26	20
Scientific and technical information.....	1	1	1	1	1
Research contract and grant administration.....	-	-	-	-	-
Teaching and training.....	-	-	-	-	-
Other - not elsewhere classified.....	74	77	97	102	112
Activity unknown.....	236	263	304	318	360
National Aeronautics & Space Administration:					
Total.....	11,920	12,277	12,802	12,665	12,424
Development.....	5,133	5,267	5,464	5,456	5,378
Research.....	2,306	2,362	2,413	2,370	2,324
Design.....	568	588	687	661	656
Data collection, processing, and analysis.....	397	388	376	372	357
Natural resources operations.....	-	-	-	-	-
Management.....	1,185	1,247	1,289	1,356	1,338
Installation, operations, and maintenance.....	522	518	569	552	513
Test and evaluation.....	681	701	735	711	685
Planning.....	212	198	187	173	167
Technical assistance and consulting.....	95	86	74	66	60
Production.....	74	75	84	77	75
Regulatory enforcement of licensing.....	5	10	14	14	16
Construction.....	53	60	58	60	53
Clinical practice, counseling, and ancillary medical service.....	2	2	5	2	2
Standards and specifications.....	61	65	68	60	60
Scientific and technical information.....	25	16	17	16	22
Research contract and grant administration.....	10	10	9	9	8
Teaching and training.....	1	2	2	2	1
Other - not elsewhere classified.....	500	583	639	586	592
Activity unknown.....	90	99	112	122	117

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

Table B-7. Federal scientists and engineers, by agency and primary work activity: 1989-93

Agency and primary work activity	1989	1990	1991	1992	1993
National Science Foundation:					
Total.....	377	389	362	364	328
Development.....	1	1	1	1	1
Research.....	-	-	-	-	-
Design.....	-	-	-	-	-
Data collection, processing, and analysis.....	39	38	36	34	28
Natural resources operations.....	-	-	-	-	-
Management.....	10	9	11	10	11
Installation, operations, and maintenance.....	5	5	3	4	3
Test and evaluation.....	-	-	-	-	-
Planning.....	17	14	14	14	15
Technical assistance and consulting.....	1	1	1	2	2
Production.....	-	-	-	-	-
Regulatory enforcement of licensing.....	-	-	1	2	3
Construction.....	1	-	-	-	-
Clinical practice, counseling, and ancillary medical service.....	-	-	-	-	-
Standards and specifications.....	-	-	-	-	-
Scientific and technical information.....	-	-	-	-	-
Research contract and grant administration.....	259	277	254	256	227
Teaching and training.....	-	-	-	-	-
Other - not elsewhere classified.....	7	7	6	4	3
Activity unknown.....	37	37	35	37	35
Nuclear Regulatory Commission:					
Total.....	1,457	1,466	1,590	1,620	1,593
Development.....	-	-	-	-	-
Research.....	1	1	1	1	-
Design.....	-	-	-	-	-
Data collection, processing, and analysis.....	-	-	-	-	-
Natural resources operations.....	-	-	-	-	-
Management.....	-	-	-	-	-
Installation, operations, and maintenance.....	-	-	-	-	-
Test and evaluation.....	1	2	1	-	1
Planning.....	-	-	-	-	-
Technical assistance and consulting.....	-	-	-	-	-
Production.....	-	-	-	-	-
Regulatory enforcement of licensing.....	1,409	1,424	1,547	1,574	1,547
Construction.....	-	-	-	-	-
Clinical practice, counseling, and ancillary medical service.....	-	-	-	-	-
Standards and specifications.....	-	-	-	-	1

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

Table B-7. Federal scientists and engineers, by agency and primary work activity: 1989-93

Agency and primary work activity	1989	1990	1991	1992	1993
Nuclear Regulatory Commission (continued):					
Research contract and grant administration.....	-	-	-	-	-
Teaching and training.....	-	-	-	-	-
Other - not elsewhere classified.....	1	1	1	1	1
Activity unknown.....	45	38	40	44	42
US International Development Cooperation Agency:					
Total.....	585	556	520	480	470
Development.....	-	-	-	-	-
Research.....	2	2	1	1	1
Design.....	-	-	-	-	-
Data collection, processing, and analysis.....	-	-	-	-	-
Natural resources operations.....	-	-	-	-	-
Management.....	1	1	-	-	-
Installation, operations, and maintenance.....	-	-	-	-	-
Test and evaluation.....	1	-	-	-	-
Planning.....	2	1	-	-	-
Technical assistance and consulting.....	217	292	296	263	262
Production.....	-	-	-	-	-
Regulatory enforcement of licensing.....	-	-	-	-	-
Construction.....	-	-	-	-	-
Clinical practice, counseling, and ancillary medical service.....	-	-	-	-	-
Standards and specifications.....	-	-	-	-	-
Scientific and technical information.....	-	-	-	-	-
Research contract and grant administration.....	-	-	-	-	-
Teaching and training.....	-	-	-	-	-
Other - not elsewhere classified.....	160	67	60	49	37
Activity unknown.....	202	193	163	167	170
All other agencies:					
Total.....	3,164	3,239	3,481	3,582	3,322
Development.....	68	60	59	61	52
Research.....	374	382	366	383	383
Design.....	41	36	49	60	62
Data collection, processing, and analysis.....	200	204	215	209	199
Natural resources operations.....	3	2	2	2	2
Management.....	52	53	51	46	48
Installation, operations, and maintenance.....	37	54	48	51	46
Test and evaluation.....	51	47	48	52	47
Planning.....	131	125	112	122	117
Technical assistance and consulting.....	85	85	79	77	65

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

Table B-7. Federal scientists and engineers, by agency and primary work activity: 1989-93

Agency and primary work activity	1989	1990	1991	1992	1993
All other agencies (continued):					
Production.....	2	1	1	1	1
Regulatory enforcement of licensing.....	274	285	300	306	297
Construction.....	31	33	39	44	44
Clinical practice, counseling, and ancillary medical service.....	4	4	4	3	4
Standards and specifications.....	59	62	65	62	59
Scientific and technical information.....	11	12	19	19	17
Research contract and grant administration.....	5	8	10	11	11
Teaching and training.....	5	6	5	5	6
Other - not elsewhere classified.....	402	423	427	446	263
Activity unknown.....	1,329	1,357	1,582	1,622	1,599

KEY: "-" = Zero

SOURCE: National Science Foundation tabulations from Office of Personnel Management's Central Personnel Data Files

Table B-8. Federal scientists and engineers, by major occupational group and race/ethnicity: 1989-93

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Major occupational group and race/ethnicity	1989	1990	1991	1992	1993
Total, All Occupations					
All races.....	185,623	189,049	194,726	198,853	196,908
White.....	159,401	161,431	165,564	168,316	166,084
Black.....	8,409	8,712	9,216	9,579	9,682
Asian.....	9,866	10,565	11,192	11,764	11,930
Hispanic.....	5,331	5,687	6,071	6,354	6,394
Native American.....	929	1,002	1,106	1,198	1,249
All other.....	1,517	1,576	1,523	1,516	1,555
No report.....	170	76	54	126	14
All scientists:					
All races.....	89,530	92,467	96,919	101,006	101,348
White.....	78,454	80,642	84,237	87,340	87,492
Black.....	5,040	5,253	5,569	5,900	6,036
Asian.....	3,124	3,449	3,707	4,051	4,143
Hispanic.....	2,012	2,166	2,370	2,537	2,580
Native American.....	528	581	662	712	748
All other.....	270	327	327	347	343
No report.....	102	49	47	119	6
Computer and mathematical sciences:					
All races.....	25,737	26,725	28,210	29,371	29,691
White.....	21,860	22,578	23,655	24,440	24,564
Black.....	2,047	2,159	2,346	2,503	2,606
Asian.....	998	1,155	1,295	1,441	1,528
Hispanic.....	557	590	656	716	722
Native American.....	103	110	130	144	149
All other.....	107	124	122	121	120
No report.....	65	9	6	6	2
Life sciences:					
All races.....	23,082	24,009	25,280	26,765	26,920
White.....	20,667	21,438	22,547	23,850	23,985
Black.....	942	958	985	1,018	1,035
Asian.....	660	726	803	876	876
Hispanic.....	507	546	595	634	631
Native American.....	243	266	271	294	307
All other.....	57	70	71	85	85
No report.....	6	5	8	8	1

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

Table B-8. Federal scientists and engineers, by major occupational group and race/ethnicity: 1989-93

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Major occupational group and race/ethnicity	1989	1990	1991	1992	1993
Physical sciences:					
All races.....	23,204	23,725	24,140	24,427	24,118
White.....	20,628	20,968	21,327	21,513	21,216
Black.....	877	885	884	892	883
Asian.....	1,135	1,238	1,242	1,313	1,318
Hispanic.....	430	468	507	524	528
Native American.....	49	60	74	70	76
All other.....	79	100	100	102	97
No report.....	6	6	6	13	-
Social sciences:					
All races.....	17,507	18,008	19,289	20,443	20,619
White.....	15,299	15,658	16,708	17,537	17,727
Black.....	1,174	1,251	1,354	1,487	1,512
Asian.....	331	330	367	421	421
Hispanic.....	518	562	612	663	699
Native American.....	133	145	187	204	216
All other.....	27	33	34	39	41
No report.....	25	29	27	92	3
All engineers:					
All races.....	96,093	96,582	97,807	97,847	95,560
White.....	80,947	80,789	81,327	80,976	78,592
Black.....	3,369	3,459	3,647	3,679	3,646
Asian.....	6,742	7,116	7,485	7,713	7,787
Hispanic.....	3,319	3,521	3,701	3,817	3,814
Native American.....	401	421	444	486	501
All other.....	1,247	1,249	1,196	1,169	1,212
No report.....	68	27	7	7	8
Aerospace:					
All races.....	8,433	8,624	8,777	8,584	8,330
White.....	7,537	7,664	7,778	7,577	7,294
Black.....	234	241	259	260	264
Asian.....	394	426	441	439	453
Hispanic.....	250	271	273	276	288
Native American.....	17	22	26	32	31
All other.....	-	-	-	-	-
No report.....	1	-	-	-	-

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

Table B-8. Federal scientists and engineers, by major occupational group and race/ethnicity: 1989-93

Major occupational group and race/ethnicity	1989	1990	1991	1992	1993
Chemical:					
All races.....	1,503	1,413	1,344	1,311	1,245
White.....	1,247	1,161	1,098	1,071	1,008
Black.....	47	44	50	47	45
Asian.....	140	146	143	137	136
Hispanic.....	67	58	47	50	49
Native American.....	2	4	5	6	6
All other.....	-	-	-	-	1
No report.....	-	-	1	-	-
Civil:					
All races.....	13,945	13,621	13,357	13,231	12,874
White.....	11,922	11,639	11,386	11,239	10,882
Black.....	370	360	375	379	369
Asian.....	790	775	776	781	781
Hispanic.....	537	535	534	539	536
Native American.....	113	110	106	114	122
All other.....	201	195	180	176	183
No report.....	12	7	-	3	1
Electrical, electronics, and computer:					
All races.....	31,121	31,899	32,753	32,955	32,374
White.....	25,256	25,609	26,045	26,059	25,413
Black.....	1,317	1,364	1,435	1,441	1,437
Asian.....	2,850	3,155	3,386	3,521	3,582
Hispanic.....	1,200	1,317	1,434	1,474	1,469
Native American.....	95	96	113	128	135
All other.....	364	353	339	330	334
No report.....	39	5	1	2	4
Industrial:					
All races.....	3,463	3,419	3,173	3,016	2,725
White.....	2,928	2,869	2,649	2,497	2,236
Black.....	158	156	166	162	157
Asian.....	191	190	175	184	174
Hispanic.....	146	158	143	134	120
Native American.....	17	21	17	19	18
All other.....	22	25	22	20	20
No report.....	1	-	1	-	-

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

Table B-8. Federal scientists and engineers, by major occupational group and race/ethnicity: 1989-93

Major occupational group and race/ethnicity	1989	1990	1991	1992	1993
Mechanical:					
All races.....	12,186	11,787	11,763	11,532	11,159
White.....	10,165	9,810	9,757	9,535	9,197
Black.....	402	392	403	388	360
Asian.....	1,018	1,010	1,014	1,019	1,009
Hispanic.....	370	364	380	387	378
Native American.....	51	45	48	44	45
All other.....	177	162	161	158	168
No report.....	3	4	-	1	2
Other engineering:					
All races.....	25,442	25,819	26,640	27,218	26,853
White.....	21,892	22,037	22,614	22,998	22,562
Black.....	841	902	959	1,002	1,014
Asian.....	1,359	1,414	1,550	1,632	1,652
Hispanic.....	749	818	890	957	974
Native American.....	106	123	129	143	144
All other.....	483	514	494	485	506
No report.....	12	11	4	1	1

KEY: "-" = Zero

SOURCE: National Science Foundation tabulations from Office of Personnel Management's Central Personnel Data Files

Table B-9. Federal scientists and engineers, by geographical division and State: 1989-93

Division and State	1989	1990	1991	1992	1993
All States.....	185,623	189,049	194,726	198,853	196,908
New England.....	7,182	7,310	7,368	7,512	7,491
Connecticut.....	1,262	1,310	1,317	1,350	1,305
Maine.....	936	915	889	875	816
Massachusetts.....	3,144	3,179	3,216	3,266	3,311
New Hampshire.....	432	423	429	437	441
Rhode Island.....	1,297	1,372	1,398	1,456	1,475
Vermont.....	111	111	119	128	143
Middle Atlantic.....	15,860	15,954	15,999	16,254	16,018
New Jersey.....	6,429	6,399	6,379	6,474	6,347
New York.....	3,368	3,453	3,515	3,634	3,585
Pennsylvania.....	6,063	6,102	6,105	6,146	6,086
East North Central.....	15,940	16,085	16,835	17,043	16,552
Illinois.....	3,580	3,610	3,788	3,896	3,869
Indiana.....	2,490	2,530	2,653	2,688	2,593
Michigan.....	1,956	1,951	2,202	2,248	2,188
Ohio.....	7,223	7,290	7,450	7,419	7,105
Wisconsin.....	691	704	742	792	797
West North Central.....	7,586	7,731	7,867	8,043	8,072
Iowa.....	493	489	514	538	540
Kansas.....	1,009	1,026	1,071	1,139	1,162
Minnesota.....	1,112	1,121	1,143	1,163	1,180
Missouri.....	2,961	3,016	3,032	3,064	3,034
Nebraska.....	1,136	1,186	1,177	1,186	1,191
North Dakota.....	467	484	497	491	483
South Dakota.....	408	409	433	462	482
South Atlantic.....	65,431	67,536	70,614	72,016	70,947
Delaware.....	72	65	69	70	72
District of Columbia.....	16,055	16,747	17,748	18,057	17,487
Florida.....	5,990	6,126	6,232	6,260	6,247
Georgia.....	4,390	4,443	4,624	4,738	4,760
Maryland.....	20,585	21,200	22,295	22,651	22,375
North Carolina.....	2,108	2,193	2,355	2,449	2,449
South Carolina.....	1,869	1,855	1,863	1,871	1,790
Virginia.....	13,572	14,113	14,534	14,990	14,824
West Virginia.....	790	794	894	930	943

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

Table B-9. Federal scientists and engineers, by geographical division and State: 1989-93

Division and State	1989	1990	1991	1992	1993
East South Central.....	10,673	10,814	11,135	11,238	11,206
Alabama.....	5,961	6,074	6,376	6,333	6,319
Kentucky.....	1,148	1,084	1,081	1,107	1,134
Mississippi.....	2,412	2,482	2,429	2,503	2,488
Tennessee.....	1,152	1,174	1,249	1,295	1,265
West South Central.....	12,457	12,562	12,673	13,163	13,375
Arkansas.....	788	789	782	809	791
Louisiana.....	1,467	1,487	1,520	1,594	1,618
Oklahoma.....	2,478	2,460	2,458	2,526	2,636
Texas.....	7,724	7,826	7,913	8,234	8,330
Mountain.....	15,132	15,411	16,020	16,836	17,067
Arizona.....	1,841	1,877	1,912	2,007	1,992
Colorado.....	5,029	5,238	5,466	5,736	5,918
Idaho.....	933	980	1,115	1,212	1,211
Montana.....	1,022	1,054	1,093	1,152	1,157
Nevada.....	879	893	955	1,047	1,070
New Mexico.....	2,803	2,736	2,788	2,815	2,813
Utah.....	1,993	1,989	2,028	2,148	2,175
Wyoming.....	632	644	663	719	731
Pacific.....	30,056	30,642	31,395	31,955	31,420
Alaska.....	1,235	1,252	1,293	1,408	1,412
California.....	19,366	19,636	20,002	20,076	19,707
Hawaii.....	2,112	2,147	2,088	2,073	2,076
Oregon.....	2,379	2,523	2,669	2,796	2,752
Washington.....	4,964	5,084	5,343	5,602	5,473
Other or unknown.....	5,306	5,004	4,820	4,793	4,760

SOURCE: National Science Foundation tabulations from Office of Personnel Management's Central Personnel Data Files

Table B-10. Federal scientists and engineers, by major occupational group and age: 1989-93

Major occupational group and age	1989	1990	1991	1992	1993
Total, All Occupations					
All ages.....	185,623	189,049	194,726	198,853	196,908
Under 35 years.....	62,861	63,507	64,854	63,792	59,474
35-39 years.....	27,990	28,171	29,056	29,919	30,440
40-49 years.....	53,868	55,492	57,524	59,272	59,697
50-54 years.....	19,935	20,626	21,372	22,394	23,401
55-56 years.....	5,730	5,724	6,141	6,609	6,750
57-59 years.....	6,852	6,900	6,909	7,218	7,367
60-61 years.....	3,050	3,078	3,238	3,554	3,534
62 years and over.....	5,335	5,551	5,632	6,091	6,240
No report.....	2	-	-	4	5
All scientists:					
All ages.....	89,530	92,467	96,919	101,006	101,348
Under 35 years.....	22,440	22,913	23,848	24,368	22,868
35-39 years.....	16,886	16,937	17,295	17,420	17,034
40-49 years.....	31,002	32,570	34,505	36,124	36,772
50-54 years.....	9,702	10,261	11,051	12,007	13,067
55-56 years.....	2,664	2,747	2,950	3,217	3,409
57-59 years.....	3,187	3,227	3,262	3,474	3,678
60-61 years.....	1,395	1,417	1,523	1,684	1,655
62 years and over.....	2,252	2,395	2,485	2,708	2,862
No report.....	2	-	-	4	3
Computer and mathematical sciences:					
All ages.....	25,737	26,725	28,210	29,371	29,691
Under 35 years.....	6,437	6,594	6,905	7,007	6,687
35-39 years.....	4,464	4,399	4,493	4,498	4,486
40-49 years.....	9,647	10,211	10,826	11,188	11,327
50-54 years.....	3,008	3,195	3,483	3,841	4,204
55-56 years.....	724	748	865	965	1,030
57-59 years.....	770	813	825	940	979
60-61 years.....	309	342	343	382	420
62 years and over.....	376	423	470	550	558
No report.....	2	-	-	-	-
Life sciences:					
All ages.....	23,082	24,009	25,280	26,765	26,920
Under 35 years.....	6,245	6,305	6,502	6,695	6,229
35-39 years.....	5,198	5,296	5,517	5,554	5,341
40-49 years.....	7,590	8,233	8,848	9,713	10,129
50-54 years.....	2,072	2,166	2,348	2,570	2,851

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

Table B-10. Federal scientists and engineers, by major occupational group and age: 1989-93

Major occupational group and age	1989	1990	1991	1992	1993
Life sciences (continued):					
55-56 years.....	591	606	614	671	722
57-59 years.....	670	674	693	737	778
60-61 years.....	268	266	290	316	327
62 years and over.....	448	463	468	507	542
No report.....	-	-	-	2	1
Physical sciences:					
All ages.....	23,204	23,725	24,140	24,427	24,118
Under 35 years.....	5,137	5,304	5,324	5,146	4,798
35-39 years.....	3,831	3,911	3,973	4,016	3,876
40-49 years.....	7,584	7,677	7,787	7,849	7,818
50-54 years.....	3,040	3,157	3,305	3,433	3,540
55-56 years.....	879	907	949	1,026	1,067
57-59 years.....	1,153	1,148	1,116	1,147	1,211
60-61 years.....	559	549	592	636	575
62 years and over.....	1,021	1,072	1,094	1,174	1,233
No report.....	-	-	-	-	-
Social sciences:					
All ages.....	17,507	18,008	19,289	20,443	20,619
Under 35 years.....	4,621	4,710	5,117	5,520	5,154
35-39 years.....	3,393	3,331	3,312	3,352	3,331
40-49 years.....	6,181	6,449	7,044	7,374	7,498
50-54 years.....	1,582	1,743	1,915	2,163	2,472
55-56 years.....	470	486	522	555	590
57-59 years.....	594	592	628	650	710
60-61 years.....	259	260	298	350	333
62 years and over.....	407	437	453	477	529
No report.....	-	-	-	2	2
All engineers:					
All ages.....	96,093	96,582	97,807	97,847	95,560
Under 35 years.....	40,421	40,594	41,006	39,424	36,606
35-39 years.....	11,104	11,234	11,761	12,499	13,406
40-49 years.....	22,866	22,922	23,019	23,148	22,925
50-54 years.....	10,233	10,365	10,321	10,387	10,334
55-56 years.....	3,066	2,977	3,191	3,392	3,341
57-59 years.....	3,665	3,673	3,647	3,744	3,689
60-61 years.....	1,655	1,661	1,715	1,870	1,879
62 years and over.....	3,083	3,156	3,147	3,383	3,378
No report.....	-	-	-	-	2

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

Table B-10. Federal scientists and engineers, by major occupational group and age: 1989-93

Major occupational group and age	1989	1990	1991	1992	1993
Aerospace:					
All ages.....	8,433	8,624	8,777	8,584	8,330
Under 35 years.....	3,764	3,953	4,055	3,823	3,555
35-39 years.....	629	705	778	893	1,034
40-49 years.....	1,721	1,626	1,583	1,463	1,409
50-54 years.....	1,173	1,157	1,117	1,083	985
55-56 years.....	346	338	373	373	376
57-59 years.....	381	403	412	428	431
60-61 years.....	146	149	168	212	223
62 years and over.....	273	293	291	309	317
No report.....	-	-	-	-	-
Chemical:					
All ages.....	1,503	1,413	1,344	1,311	1,245
Under 35 years.....	793	727	663	579	498
35-39 years.....	131	138	150	181	214
40-49 years.....	264	247	242	247	242
50-54 years.....	124	114	112	120	119
55-56 years.....	46	45	34	37	35
57-59 years.....	36	41	55	60	50
60-61 years.....	32	27	15	18	27
62 years and over.....	77	74	73	69	60
No report.....	-	-	-	-	-
Civil:					
All ages.....	13,945	13,621	13,357	13,231	12,874
Under 35 years.....	4,525	4,238	3,963	3,717	3,295
35-39 years.....	2,246	2,230	2,255	2,243	2,222
40-49 years.....	3,922	3,902	3,911	3,991	4,030
50-54 years.....	1,787	1,809	1,748	1,696	1,656
55-56 years.....	461	462	513	538	522
57-59 years.....	448	414	464	505	564
60-61 years.....	215	206	158	185	213
62 years and over.....	341	360	345	356	370
No report.....	-	-	-	-	2
Electrical, electronics, and computer:					
All ages.....	31,121	31,899	32,753	32,955	32,374
Under 35 years.....	14,911	15,492	16,057	15,590	14,707
35-39 years.....	3,375	3,413	3,585	3,879	4,250
40-49 years.....	6,893	6,971	6,950	7,013	6,892
50-54 years.....	2,730	2,816	2,867	2,983	3,083

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

Table B-10. Federal scientists and engineers, by major occupational group and age: 1989-93

Major occupational group and age	1989	1990	1991	1992	1993
Electrical, electronics, and computer (continued):					
55-56 years.....	879	799	854	935	921
57-59 years.....	1,080	1,125	1,065	1,057	1,012
60-61 years.....	471	458	527	567	538
62 years and over.....	782	825	848	931	971
No report.....	-	-	-	-	-
Industrial:					
All ages.....	3,463	3,419	3,173	3,016	2,725
Under 35 years.....	1,607	1,584	1,458	1,335	1,136
35-39 years.....	364	344	316	333	368
40-49 years.....	739	767	730	696	645
50-54 years.....	294	266	241	245	223
55-56 years.....	100	97	86	91	83
57-59 years.....	132	131	123	113	93
60-61 years.....	57	58	67	59	64
62 years and over.....	170	172	152	144	113
No report.....	-	-	-	-	-
Mechanical:					
All ages.....	12,186	11,787	11,763	11,532	11,159
Under 35 years.....	6,224	5,912	5,794	5,416	4,986
35-39 years.....	1,267	1,260	1,346	1,453	1,538
40-49 years.....	2,421	2,380	2,392	2,382	2,375
50-54 years.....	972	972	979	971	984
55-56 years.....	277	281	299	330	318
57-59 years.....	391	365	355	344	350
60-61 years.....	185	185	181	195	187
62 years and over.....	449	432	417	441	421
No report.....	-	-	-	-	-
Other engineering:					
All ages.....	25,442	25,819	26,640	27,218	26,853
Under 35 years.....	8,597	8,688	9,016	8,964	8,429
35-39 years.....	3,092	3,144	3,331	3,517	3,780
40-49 years.....	6,906	7,029	7,211	7,356	7,332
50-54 years.....	3,153	3,231	3,257	3,289	3,284
55-56 years.....	957	955	1,032	1,088	1,086
57-59 years.....	1,197	1,194	1,173	1,237	1,189
60-61 years.....	549	578	599	634	627
62 years and over.....	991	1,000	1,021	1,133	1,126
No report.....	-	-	-	-	-

KEY: "-" = Zero

SOURCE: National Science Foundation tabulations from Office of Personnel Management's Central Personnel Data Files

Table B-11a. Federal scientists and engineers, by primary work activity and age: 1989-93

Page 1 of 6

Primary work activity and age	1989	1990	1991	1992	1993
Total, All Activities					
All ages.....	185,623	189,049	194,726	198,853	196,908
Under 35 years.....	62,861	63,507	64,854	63,792	59,474
35-39 years.....	27,990	28,171	29,056	29,919	30,440
40-49 years.....	53,868	55,492	57,524	59,272	59,697
50-54 years.....	19,935	20,626	21,372	22,394	23,401
55-56 years.....	5,730	5,724	6,141	6,609	6,750
57-59 years.....	6,852	6,900	6,909	7,218	7,367
60-61 years.....	3,050	3,078	3,238	3,554	3,534
62 years and over.....	5,335	5,551	5,632	6,091	6,240
No report.....	2	-	-	4	5
Development:					
All ages.....	28,791	29,190	27,502	30,299	29,529
Under 35 years.....	12,257	12,631	12,299	12,718	11,859
35-39 years.....	3,154	3,211	3,092	3,715	4,021
40-49 years.....	6,925	6,774	5,902	6,636	6,506
50-54 years.....	3,177	3,205	3,014	3,409	3,402
55-56 years.....	922	917	912	1,066	1,056
57-59 years.....	1,095	1,135	1,010	1,191	1,143
60-61 years.....	464	480	460	583	580
62 years and over.....	795	837	813	981	962
No report.....	2	-	-	-	-
Research:					
All ages.....	21,242	21,381	21,768	22,246	21,670
Under 35 years.....	5,211	5,170	5,322	5,228	4,637
35-39 years.....	3,398	3,472	3,573	3,667	3,551
40-49 years.....	6,620	6,576	6,650	6,858	6,753
50-54 years.....	2,771	2,851	2,858	2,951	3,043
55-56 years.....	807	835	854	917	971
57-59 years.....	1,067	1,060	1,031	1,037	1,103
60-61 years.....	471	469	521	551	528
62 years and over.....	897	948	959	1,037	1,084
No report.....	-	-	-	-	-
Design:					
All ages.....	15,171	14,781	14,521	14,681	14,209
Under 35 years.....	6,277	5,965	5,716	5,523	5,016
35-39 years.....	2,045	2,006	2,066	2,072	2,162
40-49 years.....	3,685	3,684	3,621	3,843	3,809
50-54 years.....	1,531	1,518	1,468	1,489	1,461

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

Table B-11a. Federal scientists and engineers, by primary work activity and age: 1989-93

Primary work activity and age	1989	1990	1991	1992	1993
Design (continued):					
55-56 years.....	434	419	490	487	460
57-59 years.....	509	477	486	541	583
60-61 years.....	232	246	229	243	249
62 years and over.....	458	466	445	483	469
No report.....	-	-	-	-	-
Data collection, processing, and analysis:					
All ages.....	14,236	14,325	14,795	14,951	14,675
Under 35 years.....	4,902	4,887	5,155	5,101	4,768
35-39 years.....	2,562	2,505	2,497	2,411	2,326
40-49 years.....	4,211	4,327	4,433	4,546	4,567
50-54 years.....	1,329	1,369	1,477	1,551	1,627
55-56 years.....	359	353	367	378	410
57-59 years.....	411	421	402	447	442
60-61 years.....	189	175	178	201	202
62 years and over.....	273	288	286	316	333
No report.....	-	-	-	-	-
Natural resources operations:					
All ages.....	11,488	11,904	12,455	13,235	13,461
Under 35 years.....	3,842	3,707	3,648	3,736	3,498
35-39 years.....	2,885	2,944	3,035	3,025	2,944
40-49 years.....	3,424	3,842	4,273	4,794	5,156
50-54 years.....	784	840	911	1,011	1,132
55-56 years.....	192	222	223	245	257
57-59 years.....	200	199	211	233	256
60-61 years.....	73	66	75	100	99
62 years and over.....	88	84	79	91	119
No report.....	-	-	-	-	-
Management:					
All ages.....	8,407	8,625	8,505	8,682	8,488
Under 35 years.....	1,076	1,172	1,162	1,194	1,113
35-39 years.....	906	921	930	959	976
40-49 years.....	3,172	3,191	3,169	3,128	2,998
50-54 years.....	1,681	1,694	1,678	1,655	1,634
55-56 years.....	475	510	487	554	536
57-59 years.....	525	544	524	579	574
60-61 years.....	216	224	214	257	267
62 years and over.....	356	369	341	356	390
No report.....	-	-	-	-	-

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

Table B-11a. Federal scientists and engineers, by primary work activity and age: 1989-93

Primary work activity and age	1989	1990	1991	1992	1993
Installation, operations, and maintenance:					
All ages.....	11,480	11,429	11,608	11,623	11,353
Under 35 years.....	5,283	5,248	5,286	5,089	4,771
35-39 years.....	1,395	1,400	1,447	1,550	1,673
40-49 years.....	2,625	2,641	2,686	2,692	2,683
50-54 years.....	955	993	1,017	1,044	1,045
55-56 years.....	328	275	280	321	327
57-59 years.....	388	387	402	383	338
60-61 years.....	190	168	178	200	200
62 years and over.....	316	317	312	344	315
No report.....	-	-	-	-	1
Test and evaluation:					
All ages.....	9,712	10,095	10,160	10,409	10,495
Under 35 years.....	4,629	4,917	4,986	4,916	4,669
35-39 years.....	1,065	1,092	1,189	1,257	1,426
40-49 years.....	2,196	2,252	2,182	2,272	2,310
50-54 years.....	872	881	875	927	1,025
55-56 years.....	299	273	236	274	298
57-59 years.....	299	323	323	356	326
60-61 years.....	139	134	142	150	173
62 years and over.....	213	223	227	257	268
No report.....	-	-	-	-	-
Planning:					
All ages.....	6,374	6,238	6,223	6,271	6,169
Under 35 years.....	1,558	1,502	1,481	1,453	1,366
35-39 years.....	1,121	1,027	1,044	1,041	1,031
40-49 years.....	2,210	2,216	2,218	2,233	2,176
50-54 years.....	799	824	802	824	847
55-56 years.....	216	202	207	247	239
57-59 years.....	216	217	231	221	247
60-61 years.....	105	92	84	99	100
62 years and over.....	149	158	156	153	163
No report.....	-	-	-	-	-
Technical assistance and consulting:					
All ages.....	4,118	4,204	4,338	4,526	4,556
Under 35 years.....	827	889	963	1,047	998
35-39 years.....	664	646	642	634	631
40-49 years.....	1,434	1,479	1,530	1,524	1,584
50-54 years.....	531	563	566	618	650

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

Table B-11a. Federal scientists and engineers, by primary work activity and age: 1989-93

Primary work activity and age	1989	1990	1991	1992	1993
Technical assistance and consulting (continued):					
55-56 years.....	154	137	166	198	183
57-59 years.....	208	189	187	193	205
60-61 years.....	111	105	103	104	101
62 years and over.....	189	196	181	208	204
No report.....	-	-	-	-	-
Production:					
All ages.....	5,708	5,703	5,836	5,884	5,659
Under 35 years.....	2,551	2,520	2,519	2,368	2,187
35-39 years.....	619	615	628	710	766
40-49 years.....	1,162	1,190	1,268	1,322	1,336
50-54 years.....	478	466	479	507	486
55-56 years.....	158	159	169	184	160
57-59 years.....	283	264	255	241	214
60-61 years.....	143	153	161	176	149
62 years and over.....	314	336	357	376	361
No report.....	-	-	-	-	-
Regulatory enforcement of licensing:					
All ages.....	4,951	5,332	5,867	6,026	5,910
Under 35 years.....	1,546	1,704	1,925	1,862	1,686
35-39 years.....	836	850	955	998	970
40-49 years.....	1,415	1,561	1,683	1,774	1,766
50-54 years.....	457	505	533	580	637
55-56 years.....	153	141	182	194	180
57-59 years.....	193	208	198	209	241
60-61 years.....	109	104	119	113	113
62 years and over.....	242	259	272	296	317
No report.....	-	-	-	-	-
Construction:					
All ages.....	5,170	4,940	4,746	4,698	4,682
Under 35 years.....	1,694	1,483	1,403	1,331	1,270
35-39 years.....	781	762	719	752	778
40-49 years.....	1,494	1,517	1,459	1,467	1,437
50-54 years.....	584	558	563	557	567
55-56 years.....	166	185	176	169	179
57-59 years.....	194	188	188	181	190
60-61 years.....	78	81	74	91	96
62 years and over.....	179	166	164	150	165
No report.....	-	-	-	-	-

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

Table B-11a. Federal scientists and engineers, by primary work activity and age: 1989-93

Primary work activity and age	1989	1990	1991	1992	1993
Clinical practice, counseling, and ancillary medical service:					
All ages.....	3,430	3,625	3,981	4,201	4,440
Under 35 years.....	515	537	610	649	657
35-39 years.....	615	652	647	645	666
40-49 years.....	1,453	1,538	1,701	1,764	1,843
50-54 years.....	355	396	473	555	657
55-56 years.....	101	125	130	136	147
57-59 years.....	177	159	164	175	195
60-61 years.....	79	86	109	116	90
62 years and over.....	135	132	147	161	184
No report.....	-	-	-	-	1
Standards and specifications:					
All ages.....	1,674	1,692	1,620	1,642	1,506
Under 35 years.....	497	483	460	453	399
35-39 years.....	206	212	202	203	184
40-49 years.....	471	487	492	497	439
50-54 years.....	204	220	198	213	205
55-56 years.....	70	59	59	68	70
57-59 years.....	91	88	80	71	70
60-61 years.....	36	44	37	39	43
62 years and over.....	99	99	92	98	96
No report.....	-	-	-	-	-
Scientific and technical information:					
All ages.....	1,746	1,905	1,957	2,057	2,146
Under 35 years.....	584	644	683	708	718
35-39 years.....	274	303	298	338	356
40-49 years.....	516	561	555	577	618
50-54 years.....	168	185	196	194	223
55-56 years.....	45	54	66	67	57
57-59 years.....	74	72	65	77	75
60-61 years.....	33	29	39	34	34
62 years and over.....	52	57	55	62	65
No report.....	-	-	-	-	-
Research contract and grant administration:					
All ages.....	944	1,042	1,047	1,070	1,039
Under 35 years.....	139	162	157	175	172
35-39 years.....	107	120	120	120	116
40-49 years.....	372	370	367	360	339
50-54 years.....	156	189	197	213	207

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

Table B-11a. Federal scientists and engineers, by primary work activity and age: 1989-93

Primary work activity and age	1989	1990	1991	1992	1993
Research contract and grant administration :					
(continued)					
55-56 years.....	46	56	49	50	52
57-59 years.....	42	53	64	62	61
60-61 years.....	24	31	26	22	27
62 years and over.....	58	61	67	68	65
No report.....	-	-	-	-	-
Teaching and training:					
All ages.....	376	406	442	431	471
Under 35 years.....	67	62	80	69	82
35-39 years.....	50	64	58	60	60
40-49 years.....	146	159	176	173	177
50-54 years.....	48	54	55	63	73
55-56 years.....	12	12	12	15	21
57-59 years.....	26	17	18	14	17
60-61 years.....	8	16	21	12	12
62 years and over.....	19	22	22	25	29
No report.....	-	-	-	-	-
Other - not elsewhere classified:					
All ages.....	8,329	8,867	8,682	8,740	8,244
Under 35 years.....	4,487	4,689	4,298	3,995	3,385
35-39 years.....	988	1,093	1,093	1,217	1,258
40-49 years.....	1,701	1,851	2,033	2,155	2,164
50-54 years.....	536	609	621	683	755
55-56 years.....	175	155	193	204	225
57-59 years.....	190	207	198	208	196
60-61 years.....	82	83	77	110	109
62 years and over.....	170	180	169	168	151
No report.....	-	-	-	-	1
Activity unknown:					
All ages.....	22,276	23,365	28,673	27,181	28,206
Under 35 years.....	4,919	5,135	6,701	6,177	6,223
35-39 years.....	4,319	4,276	4,821	4,545	4,545
40-49 years.....	8,636	9,276	11,126	10,657	11,036
50-54 years.....	2,519	2,706	3,391	3,350	3,725
55-56 years.....	618	635	883	835	922
57-59 years.....	664	692	872	799	891
60-61 years.....	268	292	391	353	362
62 years and over.....	333	353	488	461	500
No report.....	-	-	-	4	2

KEY: "-" = Zero

SOURCE: National Science Foundation tabulations from Office of Personnel Management's Central Personnel Data Files

Table B-11b. Female Federal scientists and engineers, by primary work activity and age: 1989-93

Page 1 of 6

Primary work activity and age	1989	1990	1991	1992	1993
Total, All Activities					
All ages.....	29,328	31,733	34,787	36,854	37,431
Under 35 years.....	15,587	16,333	17,393	17,557	16,570
35-39 years.....	5,123	5,664	6,297	6,959	7,325
40-49 years.....	6,118	6,969	7,967	8,805	9,540
50-54 years.....	1,294	1,510	1,742	2,019	2,347
55-56 years.....	300	346	396	432	500
57-59 years.....	359	358	411	448	515
60-61 years.....	192	183	182	213	209
62 years and over.....	354	370	399	421	425
No report.....	1	-	-	-	-
Development:					
All ages.....	3,440	3,648	3,570	3,932	3,930
Under 35 years.....	2,414	2,498	2,468	2,556	2,403
35-39 years.....	398	440	426	547	614
40-49 years.....	464	526	491	589	638
50-54 years.....	94	105	98	139	166
55-56 years.....	13	24	33	31	33
57-59 years.....	21	19	21	28	37
60-61 years.....	14	12	8	15	12
62 years and over.....	21	24	25	27	27
No report.....	1	-	-	-	-
Research:					
All ages.....	4,230	4,409	4,660	4,885	4,773
Under 35 years.....	1,732	1,756	1,835	1,829	1,605
35-39 years.....	813	862	932	1,014	997
40-49 years.....	1,095	1,171	1,228	1,321	1,377
50-54 years.....	297	323	356	390	435
55-56 years.....	67	71	84	93	104
57-59 years.....	83	81	86	88	109
60-61 years.....	43	34	33	42	45
62 years and over.....	100	111	106	108	101
No report.....	-	-	-	-	-
Design:					
All ages.....	1,217	1,226	1,271	1,341	1,306
Under 35 years.....	974	954	962	973	892
35-39 years.....	127	137	172	197	225
40-49 years.....	86	99	105	128	148
50-54 years.....	23	24	18	22	22

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

Table B-11b. Female Federal scientists and engineers, by primary work activity and age: 1989-93

Page 2 of 6

Primary work activity and age	1989	1990	1991	1992	1993
Design (continued):					
55-56 years.....	3	7	9	7	7
57-59 years.....	1	-	2	9	9
60-61 years.....	-	-	-	2	-
62 years and over.....	3	5	3	3	3
No report.....	-	-	-	-	-
Data collection, processing, and analysis:					
All ages.....	3,326	3,421	3,699	3,718	3,640
Under 35 years.....	1,688	1,671	1,796	1,744	1,611
35-39 years.....	603	649	692	687	679
40-49 years.....	710	763	849	903	939
50-54 years.....	165	172	197	212	238
55-56 years.....	37	47	39	40	40
57-59 years.....	47	41	48	46	55
60-61 years.....	27	27	25	24	20
62 years and over.....	49	51	53	62	58
No report.....	-	-	-	-	-
Natural resources operations:					
All ages.....	1,792	2,089	2,384	2,705	2,824
Under 35 years.....	1,251	1,340	1,418	1,510	1,441
35-39 years.....	391	529	642	749	827
40-49 years.....	124	188	282	395	495
50-54 years.....	13	16	24	28	35
55-56 years.....	4	6	4	5	9
57-59 years.....	4	7	9	9	6
60-61 years.....	1	2	4	7	7
62 years and over.....	4	1	1	2	4
No report.....	-	-	-	-	-
Management:					
All ages.....	504	604	719	832	908
Under 35 years.....	227	264	294	318	323
35-39 years.....	92	110	136	177	196
40-49 years.....	123	157	215	242	277
50-54 years.....	31	42	40	53	58
55-56 years.....	9	7	8	10	14
57-59 years.....	6	8	9	14	17
60-61 years.....	7	7	4	6	7
62 years and over.....	9	9	13	12	16
No report.....	-	-	-	-	-

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

Table B-11b. Female Federal scientists and engineers, by primary work activity and age: 1989-93

Primary work activity and age	1989	1990	1991	1992	1993
Installation, operations, and maintenance:					
All ages.....	791	864	955	975	986
Under 35 years.....	665	713	762	734	709
35-39 years.....	65	77	106	141	159
40-49 years.....	40	56	67	78	94
50-54 years.....	13	9	13	12	13
55-56 years.....	3	5	2	3	4
57-59 years.....	3	3	3	6	4
60-61 years.....	2	-	-	-	2
62 years and over.....	-	1	2	1	1
No report.....	-	-	-	-	-
Test and evaluation:					
All ages.....	1,138	1,297	1,403	1,429	1,441
Under 35 years.....	741	849	899	896	838
35-39 years.....	135	153	168	170	197
40-49 years.....	175	194	207	224	248
50-54 years.....	42	57	75	75	89
55-56 years.....	13	12	16	25	22
57-59 years.....	16	18	16	16	21
60-61 years.....	9	4	10	11	8
62 years and over.....	7	10	12	12	18
No report.....	-	-	-	-	-
Planning:					
All ages.....	974	1,008	1,088	1,163	1,145
Under 35 years.....	500	515	541	564	500
35-39 years.....	207	190	223	246	267
40-49 years.....	204	231	241	258	274
50-54 years.....	31	44	48	60	71
55-56 years.....	7	7	15	12	8
57-59 years.....	14	15	12	9	12
60-61 years.....	3	2	3	7	5
62 years and over.....	8	4	5	7	8
No report.....	-	-	-	-	-
Technical assistance and consulting:					
All ages.....	685	759	827	942	1,018
Under 35 years.....	294	329	347	393	401
35-39 years.....	120	145	157	159	166
40-49 years.....	180	191	226	273	312
50-54 years.....	33	33	36	50	70

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

Table B-11b. Female Federal scientists and engineers, by primary work activity and age: 1989-93

Primary work activity and age	1989	1990	1991	1992	1993
Technical assistance and consulting (continued):					
55-56 years.....	13	11	13	13	11
57-59 years.....	10	16	19	21	20
60-61 years.....	14	11	6	9	14
62 years and over.....	21	23	23	24	24
No report.....	-	-	-	-	-
Production:					
All ages.....	491	504	538	516	509
Under 35 years.....	421	416	430	385	359
35-39 years.....	35	46	55	75	90
40-49 years.....	22	27	36	41	46
50-54 years.....	7	10	9	9	5
55-56 years.....	2	2	2	1	2
57-59 years.....	1	-	2	2	3
60-61 years.....	-	1	2	-	-
62 years and over.....	3	2	2	3	4
No report.....	-	-	-	-	-
Regulatory enforcement of licensing:					
All ages.....	852	1,019	1,184	1,212	1,175
Under 35 years.....	531	617	715	662	599
35-39 years.....	145	171	208	248	237
40-49 years.....	120	162	184	224	248
50-54 years.....	28	37	38	42	53
55-56 years.....	6	5	11	9	9
57-59 years.....	7	11	11	9	10
60-61 years.....	3	2	5	5	6
62 years and over.....	12	14	12	13	13
No report.....	-	-	-	-	-
Construction:					
All ages.....	349	345	367	386	394
Under 35 years.....	288	262	268	267	261
35-39 years.....	30	43	52	71	82
40-49 years.....	25	34	40	36	35
50-54 years.....	3	4	2	6	9
55-56 years.....	1	1	2	2	1
57-59 years.....	1	-	1	1	4
60-61 years.....	1	1	1	-	-
62 years and over.....	-	-	1	3	2
No report.....	-	-	-	-	-

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

Table B-11b. Female Federal scientists and engineers, by primary work activity and age: 1989-93

Primary work activity and age	1989	1990	1991	1992	1993
Clinical practice, counseling, and ancillary medical service:					
All ages.....	1,046	1,142	1,338	1,499	1,632
Under 35 years.....	263	287	348	381	393
35-39 years.....	221	253	273	305	321
40-49 years.....	357	384	454	512	580
50-54 years.....	90	102	132	154	186
55-56 years.....	24	31	31	41	38
57-59 years.....	38	32	39	44	50
60-61 years.....	16	17	25	25	22
62 years and over.....	37	36	36	37	42
No report.....	-	-	-	-	-
Standards and specifications:					
All ages.....	206	217	228	242	228
Under 35 years.....	125	124	123	135	115
35-39 years.....	21	25	30	30	38
40-49 years.....	35	39	49	49	46
50-54 years.....	13	17	16	15	18
55-56 years.....	1	1	1	4	3
57-59 years.....	3	3	2	2	2
60-61 years.....	2	3	2	1	1
62 years and over.....	6	5	5	6	5
No report.....	-	-	-	-	-
Scientific and technical information:					
All ages.....	328	397	424	463	520
Under 35 years.....	179	209	225	243	261
35-39 years.....	55	74	69	91	101
40-49 years.....	63	75	88	98	122
50-54 years.....	12	17	14	11	16
55-56 years.....	1	5	8	6	5
57-59 years.....	7	5	8	5	7
60-61 years.....	4	5	4	4	3
62 years and over.....	7	7	8	5	5
No report.....	-	-	-	-	-
Research contract and grant administration:					
All ages.....	186	230	242	240	237
Under 35 years.....	53	60	53	51	51
35-39 years.....	23	34	34	35	37
40-49 years.....	66	77	98	95	90
50-54 years.....	21	32	31	30	32

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

Table B-11b. Female Federal scientists and engineers, by primary work activity and age: 1989-93

Primary work activity and age	1989	1990	1991	1992	1993
Research contract and grant administration:					
(continued)					
55-56 years.....	6	9	5	10	7
57-59 years.....	7	3	8	6	8
60-61 years.....	2	6	4	1	2
62 years and over.....	8	9	9	12	10
No report.....	-	-	-	-	-
Teaching and training:					
All ages.....	67	66	81	78	84
Under 35 years.....	24	17	24	19	21
35-39 years.....	11	18	18	22	21
40-49 years.....	25	24	27	26	26
50-54 years.....	3	4	9	9	12
55-56 years.....	-	-	-	-	2
57-59 years.....	2	1	-	-	-
60-61 years.....	-	-	1	1	-
62 years and over.....	2	2	2	1	2
No report.....	-	-	-	-	-
Other - not elsewhere classified:					
All ages.....	1,653	1,848	1,931	2,056	1,935
Under 35 years.....	1,085	1,203	1,161	1,140	1,002
35-39 years.....	233	263	297	337	356
40-49 years.....	246	287	363	435	423
50-54 years.....	47	57	62	93	96
55-56 years.....	14	7	17	19	21
57-59 years.....	11	13	14	15	19
60-61 years.....	6	7	5	9	9
62 years and over.....	11	11	12	8	9
No report.....	-	-	-	-	-
Activity unknown:					
All ages.....	6,053	6,640	7,878	8,240	8,746
Under 35 years.....	2,132	2,249	2,724	2,757	2,785
35-39 years.....	1,398	1,445	1,607	1,658	1,715
40-49 years.....	1,958	2,284	2,717	2,878	3,122
50-54 years.....	328	405	524	609	723
55-56 years.....	76	88	96	101	160
57-59 years.....	77	82	101	118	122
60-61 years.....	38	42	40	44	46
62 years and over.....	46	45	69	75	73
No report.....	-	-	-	-	-

KEY: "-" = Zero

SOURCE: National Science Foundation tabulations from Office of Personnel Management's Central Personnel Data Files

Table B-11c. Male Federal scientists and engineers, by primary work activity and age: 1989-93

Primary work activity and age	1989	1990	1991	1992	1993
Total, All Activities					
All ages.....	156,294	157,316	159,939	161,997	159,474
Under 35 years.....	47,274	47,174	47,461	46,235	42,904
35-39 years.....	22,867	22,507	22,759	22,960	23,115
40-49 years.....	47,749	48,523	49,557	50,467	50,157
50-54 years.....	18,641	19,116	19,630	20,375	21,054
55-56 years.....	5,430	5,378	5,745	6,177	6,250
57-59 years.....	6,493	6,542	6,498	6,770	6,852
60-61 years.....	2,858	2,895	3,056	3,341	3,325
62 years and over.....	4,981	5,181	5,233	5,670	5,815
No report.....	1	-	-	2	2
Development:					
All ages.....	25,351	25,542	23,932	26,367	25,599
Under 35 years.....	9,843	10,133	9,831	10,162	9,456
35-39 years.....	2,756	2,771	2,666	3,168	3,407
40-49 years.....	6,461	6,248	5,411	6,047	5,868
50-54 years.....	3,083	3,100	2,916	3,270	3,236
55-56 years.....	909	893	879	1,035	1,023
57-59 years.....	1,074	1,116	989	1,163	1,106
60-61 years.....	450	468	452	568	568
62 years and over.....	774	813	788	954	935
No report.....	1	-	-	-	-
Research:					
All ages.....	17,012	16,972	17,108	17,361	16,897
Under 35 years.....	3,479	3,414	3,487	3,399	3,032
35-39 years.....	2,585	2,610	2,641	2,653	2,554
40-49 years.....	5,525	5,405	5,422	5,537	5,376
50-54 years.....	2,474	2,528	2,502	2,561	2,608
55-56 years.....	740	764	770	824	867
57-59 years.....	984	979	945	949	994
60-61 years.....	428	435	488	509	483
62 years and over.....	797	837	853	929	983
No report.....	-	-	-	-	-
Design:					
All ages.....	13,953	13,555	13,250	13,340	12,903
Under 35 years.....	5,303	5,011	4,754	4,550	4,124
35-39 years.....	1,918	1,869	1,894	1,875	1,937
40-49 years.....	3,598	3,585	3,516	3,715	3,661
50-54 years.....	1,508	1,494	1,450	1,467	1,439

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

Table B-11c. Male Federal scientists and engineers, by primary work activity and age: 1989-93

Page 2 of 6

Primary work activity and age	1989	1990	1991	1992	1993
Design (continued):					
55-56 years.....	431	412	481	480	453
57-59 years.....	508	477	484	532	574
60-61 years.....	232	246	229	241	249
62 years and over.....	455	461	442	480	466
No report.....	-	-	-	-	-
Data collection, processing, and analysis:					
All ages.....	10,910	10,904	11,096	11,233	11,035
Under 35 years.....	3,214	3,216	3,359	3,357	3,157
35-39 years.....	1,959	1,856	1,805	1,724	1,647
40-49 years.....	3,501	3,564	3,584	3,643	3,628
50-54 years.....	1,164	1,197	1,280	1,339	1,389
55-56 years.....	322	306	328	338	370
57-59 years.....	364	380	354	401	387
60-61 years.....	162	148	153	177	182
62 years and over.....	224	237	233	254	275
No report.....	-	-	-	-	-
Natural resources operations:					
All ages.....	9,696	9,815	10,071	10,530	10,637
Under 35 years.....	2,591	2,367	2,230	2,226	2,057
35-39 years.....	2,494	2,415	2,393	2,276	2,117
40-49 years.....	3,300	3,654	3,991	4,399	4,661
50-54 years.....	771	824	887	983	1,097
55-56 years.....	188	216	219	240	248
57-59 years.....	196	192	202	224	250
60-61 years.....	72	64	71	93	92
62 years and over.....	84	83	78	89	115
No report.....	-	-	-	-	-
Management:					
All ages.....	7,903	8,021	7,786	7,850	7,580
Under 35 years.....	849	908	868	876	790
35-39 years.....	814	811	794	782	780
40-49 years.....	3,049	3,034	2,954	2,886	2,721
50-54 years.....	1,650	1,652	1,638	1,602	1,576
55-56 years.....	466	503	479	544	522
57-59 years.....	519	536	515	565	557
60-61 years.....	209	217	210	251	260
62 years and over.....	347	360	328	344	374
No report.....	-	-	-	-	-

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

Table B-11c. Male Federal scientists and engineers, by primary work activity and age: 1989-93

Primary work activity and age	1989	1990	1991	1992	1993
Installation, operations, and maintenance:					
All ages.....	10,689	10,565	10,653	10,648	10,366
Under 35 years.....	4,618	4,535	4,524	4,355	4,062
35-39 years.....	1,330	1,323	1,341	1,409	1,514
40-49 years.....	2,585	2,585	2,619	2,614	2,589
50-54 years.....	942	984	1,004	1,032	1,032
55-56 years.....	325	270	278	318	323
57-59 years.....	385	384	399	377	334
60-61 years.....	188	168	178	200	198
62 years and over.....	316	316	310	343	314
No report.....	-	-	-	-	-
Test and evaluation:					
All ages.....	8,574	8,798	8,757	8,980	9,054
Under 35 years.....	3,888	4,068	4,087	4,020	3,831
35-39 years.....	930	939	1,021	1,087	1,229
40-49 years.....	2,021	2,058	1,975	2,048	2,062
50-54 years.....	830	824	800	852	936
55-56 years.....	286	261	220	249	276
57-59 years.....	283	305	307	340	305
60-61 years.....	130	130	132	139	165
62 years and over.....	206	213	215	245	250
No report.....	-	-	-	-	-
Planning:					
All ages.....	5,400	5,230	5,135	5,108	5,024
Under 35 years.....	1,058	987	940	889	866
35-39 years.....	914	837	821	795	764
40-49 years.....	2,006	1,985	1,977	1,975	1,902
50-54 years.....	768	780	754	764	776
55-56 years.....	209	195	192	235	231
57-59 years.....	202	202	219	212	235
60-61 years.....	102	90	81	92	95
62 years and over.....	141	154	151	146	155
No report.....	-	-	-	-	-
Technical assistance and consulting:					
All ages.....	3,433	3,445	3,511	3,584	3,538
Under 35 years.....	533	560	616	654	597
35-39 years.....	544	501	485	475	465
40-49 years.....	1,254	1,288	1,304	1,251	1,272
50-54 years.....	498	530	530	568	580
55-56 years.....	141	126	153	185	172
57-59 years.....	198	173	168	172	185
60-61 years.....	97	94	97	95	87
62 years and over.....	168	173	158	184	180
No report.....	-	-	-	-	-

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

Table B-11c. Male Federal scientists and engineers, by primary work activity and age: 1989-93

Primary work activity and age	1989	1990	1991	1992	1993
Production:					
All ages.....	5,217	5,199	5,298	5,368	5,150
Under 35 years.....	2,130	2,104	2,089	1,983	1,828
35-39 years.....	584	569	573	635	676
40-49 years.....	1,140	1,163	1,232	1,281	1,290
50-54 years.....	471	456	470	498	481
55-56 years.....	156	157	167	183	158
57-59 years.....	282	264	253	239	211
60-61 years.....	143	152	159	176	149
62 years and over.....	311	334	355	373	357
No report.....	-	-	-	-	-
Regulatory enforcement of licensing:					
All ages.....	4,099	4,313	4,683	4,814	4,735
Under 35 years.....	1,015	1,087	1,210	1,200	1,087
35-39 years.....	691	679	747	750	733
40-49 years.....	1,295	1,399	1,499	1,550	1,518
50-54 years.....	429	468	495	538	584
55-56 years.....	147	136	171	185	171
57-59 years.....	186	197	187	200	231
60-61 years.....	106	102	114	108	107
62 years and over.....	230	245	260	283	304
No report.....	-	-	-	-	-
Construction:					
All ages.....	4,821	4,595	4,379	4,312	4,288
Under 35 years.....	1,406	1,221	1,135	1,064	1,009
35-39 years.....	751	719	667	681	696
40-49 years.....	1,469	1,483	1,419	1,431	1,402
50-54 years.....	581	554	561	551	558
55-56 years.....	165	184	174	167	178
57-59 years.....	193	188	187	180	186
60-61 years.....	77	80	73	91	96
62 years and over.....	179	166	163	147	163
No report.....	-	-	-	-	-
Clinical practice, counseling, and ancillary medical service:					
All ages.....	2,384	2,483	2,643	2,702	2,808
Under 35 years.....	252	250	262	268	264
35-39 years.....	394	399	374	340	345
40-49 years.....	1,096	1,154	1,247	1,252	1,263
50-54 years.....	265	294	341	401	471

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

Table B-11c. Male Federal scientists and engineers, by primary work activity and age: 1989-93

Primary work activity and age	1989	1990	1991	1992	1993
Clinical practice, counseling, and ancillary medical service (continued):					
55-56 years.....	77	94	99	95	109
57-59 years.....	139	127	125	131	145
60-61 years.....	63	69	84	91	68
62 years and over.....	98	96	111	124	142
No report.....	-	-	-	-	1
Standards and specifications:					
All ages.....	1,468	1,475	1,392	1,400	1,278
Under 35 years.....	372	359	337	318	284
35-39 years.....	185	187	172	173	146
40-49 years.....	436	448	443	448	393
50-54 years.....	191	203	182	198	187
55-56 years.....	69	58	58	64	67
57-59 years.....	88	85	78	69	68
60-61 years.....	34	41	35	38	42
62 years and over.....	93	94	87	92	91
No report.....	-	-	-	-	-
Scientific and technical information:					
All ages.....	1,418	1,508	1,533	1,594	1,626
Under 35 years.....	405	435	458	465	457
35-39 years.....	219	229	229	247	255
40-49 years.....	453	486	467	479	496
50-54 years.....	156	168	182	183	207
55-56 years.....	44	49	58	61	52
57-59 years.....	67	67	57	72	68
60-61 years.....	29	24	35	30	31
62 years and over.....	45	50	47	57	60
No report.....	-	-	-	-	-
Research contract and grant administration:					
All ages.....	758	812	805	830	802
Under 35 years.....	86	102	104	124	121
35-39 years.....	84	86	86	85	79
40-49 years.....	306	293	269	265	249
50-54 years.....	135	157	166	183	175
55-56 years.....	40	47	44	40	45
57-59 years.....	35	50	56	56	53
60-61 years.....	22	25	22	21	25
62 years and over.....	50	52	58	56	55
No report.....	-	-	-	-	-

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

Table B-11c. Male Federal scientists and engineers, by primary work activity and age: 1989-93

Primary work activity and age	1989	1990	1991	1992	1993
Teaching and training:					
All ages.....	309	340	361	353	387
Under 35 years.....	43	45	56	50	61
35-39 years.....	39	46	40	38	39
40-49 years.....	121	135	149	147	151
50-54 years.....	45	50	46	54	61
55-56 years.....	12	12	12	15	19
57-59 years.....	24	16	18	14	17
60-61 years.....	8	16	20	11	12
62 years and over.....	17	20	20	24	27
No report.....	-	-	-	-	-
Other - not elsewhere classified:					
All ages.....	6,676	7,019	6,751	6,684	6,308
Under 35 years.....	3,402	3,486	3,137	2,855	2,383
35-39 years.....	755	830	796	880	902
40-49 years.....	1,455	1,564	1,670	1,720	1,741
50-54 years.....	489	552	559	590	659
55-56 years.....	161	148	176	185	204
57-59 years.....	179	194	184	193	177
60-61 years.....	76	76	72	101	100
62 years and over.....	159	169	157	160	142
No report.....	-	-	-	-	-
Activity unknown:					
All ages.....	16,223	16,725	20,795	18,939	19,459
Under 35 years.....	2,787	2,886	3,977	3,420	3,438
35-39 years.....	2,921	2,831	3,214	2,887	2,830
40-49 years.....	6,678	6,992	8,409	7,779	7,914
50-54 years.....	2,191	2,301	2,867	2,741	3,002
55-56 years.....	542	547	787	734	762
57-59 years.....	587	610	771	681	769
60-61 years.....	230	250	351	309	316
62 years and over.....	287	308	419	386	427
No report.....	-	-	-	2	1

KEY: "-" = Zero

SOURCE: National Science Foundation tabulations from Office of Personnel Management's Central Personnel Data Files

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
All Races:					
Total, all activities:					
All ages.....	185,623	189,049	194,726	198,853	196,908
Under 35 years.....	62,861	63,507	64,854	63,792	59,474
35-39 years.....	27,990	28,171	29,056	29,919	30,440
40-49 years.....	53,868	55,492	57,524	59,272	59,697
50-54 years.....	19,935	20,626	21,372	22,394	23,401
55-56 years.....	5,730	5,724	6,141	6,609	6,750
57-59 years.....	6,852	6,900	6,909	7,218	7,367
60-61 years.....	3,050	3,078	3,238	3,554	3,534
62 years and over.....	5,335	5,551	5,632	6,091	6,240
No report.....	2	-	-	4	5
Development:					
All ages.....	28,791	29,190	27,502	30,299	29,529
Under 35 years.....	12,257	12,631	12,299	12,718	11,859
35-39 years.....	3,154	3,211	3,092	3,715	4,021
40-49 years.....	6,925	6,774	5,902	6,636	6,506
50-54 years.....	3,177	3,205	3,014	3,409	3,402
55-56 years.....	922	917	912	1,066	1,056
57-59 years.....	1,095	1,135	1,010	1,191	1,143
60-61 years.....	464	480	460	583	580
62 years and over.....	795	837	813	981	962
No report.....	2	-	-	-	-
Research:					
All ages.....	21,242	21,381	21,768	22,246	21,670
Under 35 years.....	5,211	5,170	5,322	5,228	4,637
35-39 years.....	3,398	3,472	3,573	3,667	3,551
40-49 years.....	6,620	6,576	6,650	6,858	6,753
50-54 years.....	2,771	2,851	2,858	2,951	3,043
55-56 years.....	807	835	854	917	971
57-59 years.....	1,067	1,060	1,031	1,037	1,103
60-61 years.....	471	469	521	551	528
62 years and over.....	897	948	959	1,037	1,084
No report.....	-	-	-	-	-
Design:					
All ages.....	15,171	14,781	14,521	14,681	14,209
Under 35 years.....	6,277	5,965	5,716	5,523	5,016
35-39 years.....	2,045	2,006	2,066	2,072	2,162
40-49 years.....	3,685	3,684	3,621	3,843	3,809
50-54 years.....	1,531	1,518	1,468	1,489	1,461

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Design (continued):					
55-56 years.....	434	419	490	487	460
57-59 years.....	509	477	486	541	583
60-61 years.....	232	246	229	243	249
62 years and over.....	458	466	445	483	469
No report.....	-	-	-	-	-
Data collection, processing, and analysis:					
All ages.....	14,236	14,325	14,795	14,951	14,675
Under 35 years.....	4,902	4,887	5,155	5,101	4,768
35-39 years.....	2,562	2,505	2,497	2,411	2,326
40-49 years.....	4,211	4,327	4,433	4,546	4,567
50-54 years.....	1,329	1,369	1,477	1,551	1,627
55-56 years.....	359	353	367	378	410
57-59 years.....	411	421	402	447	442
60-61 years.....	189	175	178	201	202
62 years and over.....	273	288	286	316	333
No report.....	-	-	-	-	-
Natural resources operations:					
All ages.....	11,488	11,904	12,455	13,235	13,461
Under 35 years.....	3,842	3,707	3,648	3,736	3,498
35-39 years.....	2,885	2,944	3,035	3,025	2,944
40-49 years.....	3,424	3,842	4,273	4,794	5,156
50-54 years.....	784	840	911	1,011	1,132
55-56 years.....	192	222	223	245	257
57-59 years.....	200	199	211	233	256
60-61 years.....	73	66	75	100	99
62 years and over.....	88	84	79	91	119
No report.....	-	-	-	-	-
Management:					
All ages.....	8,407	8,625	8,505	8,682	8,488
Under 35 years.....	1,076	1,172	1,162	1,194	1,113
35-39 years.....	906	921	930	959	976
40-49 years.....	3,172	3,191	3,169	3,128	2,998
50-54 years.....	1,681	1,694	1,678	1,655	1,634
55-56 years.....	475	510	487	554	536
57-59 years.....	525	544	524	579	574
60-61 years.....	216	224	214	257	267
62 years and over.....	356	369	341	356	390
No report.....	-	-	-	-	-

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Installation, operations, and maintenance:					
All ages.....	11,480	11,429	11,608	11,623	11,353
Under 35 years.....	5,283	5,248	5,286	5,089	4,771
35-39 years.....	1,395	1,400	1,447	1,550	1,673
40-49 years.....	2,625	2,641	2,686	2,692	2,683
50-54 years.....	955	993	1,017	1,044	1,045
55-56 years.....	328	275	280	321	327
57-59 years.....	388	387	402	383	338
60-61 years.....	190	168	178	200	200
62 years and over.....	316	317	312	344	315
No report.....	-	-	-	-	1
Test and evaluation:					
All ages.....	9,712	10,095	10,160	10,409	10,495
Under 35 years.....	4,629	4,917	4,986	4,916	4,669
35-39 years.....	1,065	1,092	1,189	1,257	1,426
40-49 years.....	2,196	2,252	2,182	2,272	2,310
50-54 years.....	872	881	875	927	1,025
55-56 years.....	299	273	236	274	298
57-59 years.....	299	323	323	356	326
60-61 years.....	139	134	142	150	173
62 years and over.....	213	223	227	257	268
No report.....	-	-	-	-	-
Planning:					
All ages.....	6,374	6,238	6,223	6,271	6,169
Under 35 years.....	1,558	1,502	1,481	1,453	1,366
35-39 years.....	1,121	1,027	1,044	1,041	1,031
40-49 years.....	2,210	2,216	2,218	2,233	2,176
50-54 years.....	799	824	802	824	847
55-56 years.....	216	202	207	247	239
57-59 years.....	216	217	231	221	247
60-61 years.....	105	92	84	99	100
62 years and over.....	149	158	156	153	163
No report.....	-	-	-	-	-
Technical assistance and consulting:					
All ages.....	4,118	4,204	4,338	4,526	4,556
Under 35 years.....	827	889	963	1,047	998
35-39 years.....	664	646	642	634	631
40-49 years.....	1,434	1,479	1,530	1,524	1,584
50-54 years.....	531	563	566	618	650

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Technical assistance and consulting (continued):					
55-56 years.....	154	137	166	198	183
57-59 years.....	208	189	187	193	205
60-61 years.....	111	105	103	104	101
62 years and over.....	189	196	181	208	204
No report.....	-	-	-	-	-
Production:					
All ages.....	5,708	5,703	5,836	5,884	5,659
Under 35 years.....	2,551	2,520	2,519	2,368	2,187
35-39 years.....	619	615	628	710	766
40-49 years.....	1,162	1,190	1,268	1,322	1,336
50-54 years.....	478	466	479	507	486
55-56 years.....	158	159	169	184	160
57-59 years.....	283	264	255	241	214
60-61 years.....	143	153	161	176	149
62 years and over.....	314	336	357	376	361
No report.....	-	-	-	-	-
Regulatory enforcement of licensing:					
All ages.....	4,951	5,332	5,867	6,026	5,910
Under 35 years.....	1,546	1,704	1,925	1,862	1,686
35-39 years.....	836	850	955	998	970
40-49 years.....	1,415	1,561	1,683	1,774	1,766
50-54 years.....	457	505	533	580	637
55-56 years.....	153	141	182	194	180
57-59 years.....	193	208	198	209	241
60-61 years.....	109	104	119	113	113
62 years and over.....	242	259	272	296	317
No report.....	-	-	-	-	-
Construction:					
All ages.....	5,170	4,940	4,746	4,698	4,682
Under 35 years.....	1,694	1,483	1,403	1,331	1,270
35-39 years.....	781	762	719	752	778
40-49 years.....	1,494	1,517	1,459	1,467	1,437
50-54 years.....	584	558	563	557	567
55-56 years.....	166	185	176	169	179
57-59 years.....	194	188	188	181	190
60-61 years.....	78	81	74	91	96
62 years and over.....	179	166	164	150	165
No report.....	-	-	-	-	-

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Clinical practice, counseling, and ancillary medical service:					
All ages.....	3,430	3,625	3,981	4,201	4,440
Under 35 years.....	515	537	610	649	657
35-39 years.....	615	652	647	645	666
40-49 years.....	1,453	1,538	1,701	1,764	1,843
50-54 years.....	355	396	473	555	657
55-56 years.....	101	125	130	136	147
57-59 years.....	177	159	164	175	195
60-61 years.....	79	86	109	116	90
62 years and over.....	135	132	147	161	184
No report.....	-	-	-	-	1
Standards and specifications:					
All ages.....	1,674	1,692	1,620	1,642	1,506
Under 35 years.....	497	483	460	453	399
35-39 years.....	206	212	202	203	184
40-49 years.....	471	487	492	497	439
50-54 years.....	204	220	198	213	205
55-56 years.....	70	59	59	68	70
57-59 years.....	91	88	80	71	70
60-61 years.....	36	44	37	39	43
62 years and over.....	99	99	92	98	96
No report.....	-	-	-	-	-
Scientific and technical information:					
All ages.....	1,746	1,905	1,957	2,057	2,146
Under 35 years.....	584	644	683	708	718
35-39 years.....	274	303	298	338	356
40-49 years.....	516	561	555	577	618
50-54 years.....	168	185	196	194	223
55-56 years.....	45	54	66	67	57
57-59 years.....	74	72	65	77	75
60-61 years.....	33	29	39	34	34
62 years and over.....	52	57	55	62	65
No report.....	-	-	-	-	-
Research contract and grant administration:					
All ages.....	944	1,042	1,047	1,070	1,039
Under 35 years.....	139	162	157	175	172
35-39 years.....	107	120	120	120	116
40-49 years.....	372	370	367	360	339
50-54 years.....	156	189	197	213	207

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Research contract and grant administration (continued):					
55-56 years.....	46	56	49	50	52
57-59 years.....	42	53	64	62	61
60-61 years.....	24	31	26	22	27
62 years and over.....	58	61	67	68	65
No report.....	-	-	-	-	-
Teaching and training:					
All ages.....	376	406	442	431	471
Under 35 years.....	67	62	80	69	82
35-39 years.....	50	64	58	60	60
40-49 years.....	146	159	176	173	177
50-54 years.....	48	54	55	63	73
55-56 years.....	12	12	12	15	21
57-59 years.....	26	17	18	14	17
60-61 years.....	8	16	21	12	12
62 years and over.....	19	22	22	25	29
No report.....	-	-	-	-	-
Other - not elsewhere classified:					
All ages.....	8,329	8,867	8,682	8,740	8,244
Under 35 years.....	4,487	4,689	4,298	3,995	3,385
35-39 years.....	988	1,093	1,093	1,217	1,258
40-49 years.....	1,701	1,851	2,033	2,155	2,164
50-54 years.....	536	609	621	683	755
55-56 years.....	175	155	193	204	225
57-59 years.....	190	207	198	208	196
60-61 years.....	82	83	77	110	109
62 years and over.....	170	180	169	168	151
No report.....	-	-	-	-	1
Activity unknown:					
All ages.....	22,276	23,365	28,673	27,181	28,206
Under 35 years.....	4,919	5,135	6,701	6,177	6,223
35-39 years.....	4,319	4,276	4,821	4,545	4,545
40-49 years.....	8,636	9,276	11,126	10,657	11,036
50-54 years.....	2,519	2,706	3,391	3,350	3,725
55-56 years.....	618	635	883	835	922
57-59 years.....	664	692	872	799	891
60-61 years.....	268	292	391	353	362
62 years and over.....	333	353	488	461	500
No report.....	-	-	-	4	2

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
White:					
Total, all activities:					
All ages.....	159,401	161,431	165,564	168,316	166,084
Under 35 years.....	51,747	51,786	52,612	51,549	47,914
35-39 years.....	24,127	24,188	24,774	25,162	25,318
40-49 years.....	47,264	48,497	50,151	51,487	51,612
50-54 years.....	17,522	18,071	18,625	19,469	20,363
55-56 years.....	5,083	5,008	5,368	5,751	5,888
57-59 years.....	6,110	6,141	6,093	6,337	6,381
60-61 years.....	2,763	2,769	2,885	3,109	3,088
62 years and over.....	4,784	4,971	5,056	5,450	5,515
No report.....	1	-	-	2	5
Development:					
All ages.....	25,021	25,210	23,500	25,828	25,045
Under 35 years.....	10,186	10,376	10,010	10,303	9,578
35-39 years.....	2,670	2,714	2,573	3,080	3,292
40-49 years.....	6,254	6,087	5,254	5,864	5,658
50-54 years.....	2,901	2,934	2,744	3,091	3,107
55-56 years.....	843	840	821	969	968
57-59 years.....	1,000	1,042	923	1,088	1,032
60-61 years.....	436	449	419	530	530
62 years and over.....	730	768	756	903	880
No report.....	1	-	-	-	-
Research:					
All ages.....	18,756	18,821	19,098	19,449	18,934
Under 35 years.....	4,492	4,451	4,548	4,453	3,937
35-39 years.....	3,031	3,086	3,141	3,179	3,068
40-49 years.....	5,875	5,820	5,896	6,095	6,006
50-54 years.....	2,456	2,526	2,520	2,594	2,694
55-56 years.....	716	738	753	796	851
57-59 years.....	955	929	916	917	965
60-61 years.....	427	422	464	482	461
62 years and over.....	804	849	860	933	952
No report.....	-	-	-	-	-
Design:					
All ages.....	12,381	12,001	11,742	11,909	11,473
Under 35 years.....	5,030	4,764	4,558	4,431	4,014
35-39 years.....	1,673	1,644	1,680	1,686	1,729
40-49 years.....	3,016	2,996	2,947	3,123	3,111
50-54 years.....	1,283	1,261	1,176	1,200	1,175

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Design (continued):					
55-56 years.....	365	338	421	419	366
57-59 years.....	441	413	405	451	488
60-61 years.....	193	204	192	203	214
62 years and over.....	380	381	363	396	376
No report.....	-	-	-	-	-
Data collection, processing, and analysis:					
All ages.....	12,305	12,289	12,687	12,784	12,591
Under 35 years.....	4,135	4,078	4,298	4,262	4,029
35-39 years.....	2,243	2,157	2,170	2,066	1,975
40-49 years.....	3,722	3,811	3,897	3,981	3,999
50-54 years.....	1,126	1,175	1,257	1,332	1,409
55-56 years.....	312	293	305	315	351
57-59 years.....	352	363	343	377	369
60-61 years.....	174	155	155	171	169
62 years and over.....	241	257	262	280	290
No report.....	-	-	-	-	-
Natural resources operations:					
All ages.....	10,488	10,835	11,333	12,046	12,234
Under 35 years.....	3,428	3,262	3,207	3,297	3,075
35-39 years.....	2,640	2,711	2,784	2,757	2,663
40-49 years.....	3,161	3,540	3,936	4,418	4,759
50-54 years.....	734	786	856	946	1,055
55-56 years.....	183	208	207	226	241
57-59 years.....	189	187	197	222	238
60-61 years.....	71	65	71	94	93
62 years and over.....	82	76	75	86	110
No report.....	-	-	-	-	-
Management:					
All ages.....	7,657	7,799	7,650	7,765	7,538
Under 35 years.....	922	990	988	1,023	943
35-39 years.....	804	808	810	832	847
40-49 years.....	2,919	2,917	2,868	2,798	2,655
50-54 years.....	1,561	1,566	1,538	1,500	1,477
55-56 years.....	438	458	452	514	493
57-59 years.....	479	508	485	534	525
60-61 years.....	201	213	197	233	244
62 years and over.....	333	339	312	331	354
No report.....	-	-	-	-	-

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Installation, operations, and maintenance:					
All ages.....	9,382	9,245	9,334	9,251	8,956
Under 35 years.....	4,105	4,027	4,035	3,825	3,571
35-39 years.....	1,123	1,127	1,151	1,197	1,252
40-49 years.....	2,215	2,212	2,238	2,240	2,214
50-54 years.....	821	840	861	885	886
55-56 years.....	297	243	246	271	274
57-59 years.....	356	356	361	344	299
60-61 years.....	175	150	160	179	178
62 years and over.....	290	290	282	310	281
No report.....	-	-	-	-	1
Test and evaluation:					
All ages.....	8,004	8,150	8,157	8,359	8,379
Under 35 years.....	3,638	3,757	3,813	3,774	3,561
35-39 years.....	871	882	942	991	1,110
40-49 years.....	1,903	1,911	1,848	1,906	1,917
50-54 years.....	767	771	746	788	875
55-56 years.....	261	232	206	234	259
57-59 years.....	260	287	282	311	276
60-61 years.....	123	118	123	130	150
62 years and over.....	181	192	197	225	231
No report.....	-	-	-	-	-
Planning:					
All ages.....	5,666	5,513	5,463	5,475	5,371
Under 35 years.....	1,342	1,266	1,231	1,188	1,132
35-39 years.....	1,011	930	940	924	897
40-49 years.....	1,974	1,979	1,979	1,997	1,922
50-54 years.....	724	735	715	734	761
55-56 years.....	198	186	181	217	213
57-59 years.....	188	190	199	194	210
60-61 years.....	95	84	75	85	87
62 years and over.....	134	143	143	136	149
No report.....	-	-	-	-	-
Technical assistance and consulting:					
All ages.....	3,494	3,547	3,625	3,752	3,730
Under 35 years.....	682	729	759	824	771
35-39 years.....	584	568	558	543	531
40-49 years.....	1,210	1,245	1,282	1,271	1,317
50-54 years.....	449	473	493	531	546

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Technical assistance and consulting (continued):					
55-56 years.....	127	117	138	163	156
57-59 years.....	177	154	151	158	167
60-61 years.....	95	88	84	84	73
62 years and over.....	170	173	160	178	169
No report.....	-	-	-	-	-
Production:					
All ages.....	4,755	4,768	4,852	4,877	4,636
Under 35 years.....	2,032	2,010	2,008	1,893	1,734
35-39 years.....	495	497	490	545	572
40-49 years.....	972	993	1,068	1,120	1,125
50-54 years.....	418	416	411	424	404
55-56 years.....	147	148	153	162	139
57-59 years.....	260	244	237	219	197
60-61 years.....	138	145	149	161	133
62 years and over.....	293	315	336	353	332
No report.....	-	-	-	-	-
Regulatory enforcement of licensing:					
All ages.....	4,227	4,492	4,914	5,016	4,887
Under 35 years.....	1,305	1,412	1,580	1,500	1,334
35-39 years.....	738	743	827	867	840
40-49 years.....	1,204	1,333	1,438	1,520	1,511
50-54 years.....	370	394	418	453	500
55-56 years.....	127	110	147	161	147
57-59 years.....	164	172	161	161	188
60-61 years.....	100	92	100	92	90
62 years and over.....	219	236	243	262	277
No report.....	-	-	-	-	-
Construction:					
All ages.....	4,271	4,058	3,876	3,808	3,749
Under 35 years.....	1,374	1,192	1,110	1,045	979
35-39 years.....	661	636	598	605	622
40-49 years.....	1,232	1,259	1,205	1,217	1,180
50-54 years.....	471	443	459	454	450
55-56 years.....	147	156	139	125	148
57-59 years.....	162	161	158	153	144
60-61 years.....	67	69	65	74	80
62 years and over.....	157	142	142	135	146
No report.....	-	-	-	-	-

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Clinical practice, counseling, and ancillary medical service:					
All ages.....	2,893	3,068	3,344	3,519	3,707
Under 35 years.....	426	446	505	544	534
35-39 years.....	507	549	528	530	551
40-49 years.....	1,246	1,314	1,454	1,490	1,558
50-54 years.....	291	328	393	462	551
55-56 years.....	83	99	100	109	118
57-59 years.....	151	136	140	140	156
60-61 years.....	70	78	91	98	76
62 years and over.....	119	118	133	146	162
No report.....	-	-	-	-	1
Standards and specifications:					
All ages.....	1,417	1,424	1,368	1,363	1,240
Under 35 years.....	399	388	368	359	314
35-39 years.....	167	168	162	160	151
40-49 years.....	397	417	423	421	360
50-54 years.....	174	182	169	180	171
55-56 years.....	66	53	51	55	59
57-59 years.....	84	81	74	62	56
60-61 years.....	35	39	33	34	40
62 years and over.....	95	96	88	92	89
No report.....	-	-	-	-	-
Scientific and technical information:					
All ages.....	1,546	1,675	1,718	1,801	1,872
Under 35 years.....	516	542	583	599	600
35-39 years.....	247	273	269	300	321
40-49 years.....	442	496	488	505	541
50-54 years.....	154	169	174	175	196
55-56 years.....	42	51	62	64	53
57-59 years.....	70	68	59	70	69
60-61 years.....	30	26	34	32	34
62 years and over.....	45	50	49	56	58
No report.....	-	-	-	-	-
Research contract and grant administration:					
All ages.....	826	915	919	943	913
Under 35 years.....	107	132	126	140	140
35-39 years.....	99	109	108	108	99
40-49 years.....	331	330	324	321	307
50-54 years.....	134	162	173	190	183

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Research contract and grant administration (continued):					
55-56 years.....	42	46	42	46	43
57-59 years.....	36	49	58	55	56
60-61 years.....	22	29	24	19	24
62 years and over.....	55	58	64	64	61
No report.....	-	-	-	-	-
Teaching and training:					
All ages.....	333	349	369	362	400
Under 35 years.....	53	45	54	54	70
35-39 years.....	47	57	49	45	46
40-49 years.....	131	141	157	152	156
50-54 years.....	44	46	46	56	62
55-56 years.....	11	11	10	11	18
57-59 years.....	21	14	14	12	12
60-61 years.....	8	14	18	9	8
62 years and over.....	18	21	21	23	28
No report.....	-	-	-	-	-
Other - not elsewhere classified:					
All ages.....	6,865	7,300	7,166	7,127	6,746
Under 35 years.....	3,544	3,710	3,404	3,119	2,666
35-39 years.....	798	897	906	986	1,016
40-49 years.....	1,483	1,604	1,753	1,824	1,827
50-54 years.....	476	530	539	593	645
55-56 years.....	162	136	163	176	192
57-59 years.....	175	188	180	184	170
60-61 years.....	75	74	70	97	95
62 years and over.....	152	161	151	148	134
No report.....	-	-	-	-	1
Activity unknown:					
All ages.....	19,114	19,972	24,449	22,882	23,683
Under 35 years.....	4,031	4,209	5,427	4,916	4,932
35-39 years.....	3,718	3,632	4,088	3,761	3,736
40-49 years.....	7,577	8,092	9,696	9,224	9,489
50-54 years.....	2,168	2,334	2,937	2,881	3,216
55-56 years.....	516	545	771	718	799
57-59 years.....	590	599	750	685	764
60-61 years.....	228	255	361	302	309
62 years and over.....	286	306	419	393	436
No report.....	-	-	-	2	2

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Black:					
Total, all activities:					
All ages.....	8,409	8,712	9,216	9,579	9,682
Under 35 years.....	3,645	3,780	4,009	3,974	3,806
35-39 years.....	1,295	1,308	1,345	1,521	1,639
40-49 years.....	2,044	2,178	2,314	2,438	2,532
50-54 years.....	726	739	828	861	890
55-56 years.....	211	216	234	236	238
57-59 years.....	240	250	244	257	262
60-61 years.....	96	89	101	145	137
62 years and over.....	152	152	141	147	178
No report.....	-	-	-	-	-
Development:					
All ages.....	1,124	1,160	1,193	1,233	1,220
Under 35 years.....	632	669	708	677	651
35-39 years.....	123	123	136	170	200
40-49 years.....	193	193	175	194	201
50-54 years.....	76	72	79	92	81
55-56 years.....	29	31	28	25	20
57-59 years.....	38	40	36	34	35
60-61 years.....	10	8	13	21	16
62 years and over.....	23	24	18	20	16
No report.....	-	-	-	-	-
Research:					
All ages.....	660	639	643	649	619
Under 35 years.....	227	240	252	244	215
35-39 years.....	95	76	90	89	89
40-49 years.....	174	160	152	164	154
50-54 years.....	76	69	68	66	71
55-56 years.....	25	28	24	23	22
57-59 years.....	26	30	29	30	27
60-61 years.....	17	14	9	17	17
62 years and over.....	20	22	19	16	24
No report.....	-	-	-	-	-
Design:					
All ages.....	519	514	532	525	494
Under 35 years.....	307	305	301	285	242
35-39 years.....	63	56	68	79	98
40-49 years.....	86	89	94	95	95
50-54 years.....	30	36	41	37	31

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Design (continued):					
55-56 years.....	8	8	8	10	14
57-59 years.....	8	9	9	8	5
60-61 years.....	4	2	6	7	2
62 years and over.....	13	9	5	4	7
No report.....	-	-	-	-	-
Data collection, processing, and analysis:					
All ages.....	839	867	892	900	878
Under 35 years.....	383	388	389	368	326
35-39 years.....	136	153	152	159	165
40-49 years.....	190	204	223	241	250
50-54 years.....	71	69	72	73	77
55-56 years.....	19	14	20	20	17
57-59 years.....	24	24	23	21	19
60-61 years.....	6	6	5	8	13
62 years and over.....	10	9	8	10	11
No report.....	-	-	-	-	-
Natural resources operations:					
All ages.....	370	378	382	389	398
Under 35 years.....	145	148	140	136	134
35-39 years.....	90	73	75	73	74
40-49 years.....	115	132	137	146	146
50-54 years.....	12	17	24	25	30
55-56 years.....	2	1	2	5	8
57-59 years.....	3	5	3	2	2
60-61 years.....	1	-	-	1	3
62 years and over.....	2	2	1	1	1
No report.....	-	-	-	-	-
Management:					
All ages.....	254	278	278	299	323
Under 35 years.....	60	72	69	74	79
35-39 years.....	27	33	34	43	47
40-49 years.....	83	76	83	79	91
50-54 years.....	35	43	49	60	56
55-56 years.....	17	21	10	11	15
57-59 years.....	14	15	13	14	15
60-61 years.....	6	3	7	6	5
62 years and over.....	12	15	13	12	15
No report.....	-	-	-	-	-

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Installation, operations, and maintenance:					
All ages.....	422	433	461	484	466
Under 35 years.....	264	268	280	289	258
35-39 years.....	55	53	53	70	78
40-49 years.....	61	68	71	73	83
50-54 years.....	22	23	29	31	27
55-56 years.....	3	6	7	5	4
57-59 years.....	8	5	8	4	4
60-61 years.....	2	3	4	5	4
62 years and over.....	7	7	9	7	8
No report.....	-	-	-	-	-
Test and evaluation:					
All ages.....	412	432	463	463	468
Under 35 years.....	230	239	257	255	254
35-39 years.....	47	54	54	46	57
40-49 years.....	63	70	76	85	74
50-54 years.....	36	33	39	34	38
55-56 years.....	7	11	9	12	11
57-59 years.....	11	11	13	16	16
60-61 years.....	6	2	6	9	9
62 years and over.....	12	12	9	6	9
No report.....	-	-	-	-	-
Planning:					
All ages.....	232	244	241	259	246
Under 35 years.....	77	86	90	93	85
35-39 years.....	44	38	29	38	36
40-49 years.....	63	75	79	78	73
50-54 years.....	24	25	26	26	23
55-56 years.....	6	4	7	9	9
57-59 years.....	9	8	5	9	11
60-61 years.....	6	5	3	3	5
62 years and over.....	3	3	2	3	4
No report.....	-	-	-	-	-
Technical assistance and consulting:					
All ages.....	266	281	293	323	353
Under 35 years.....	67	67	82	83	97
35-39 years.....	28	33	32	36	42
40-49 years.....	99	109	101	117	115
50-54 years.....	39	40	33	36	46

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Technical assistance and consulting (continued):					
55-56 years.....	10	6	15	16	10
57-59 years.....	12	13	14	13	15
60-61 years.....	5	7	8	8	11
62 years and over.....	6	6	8	14	17
No report.....	-	-	-	-	-
Production:					
All ages.....	243	227	226	229	233
Under 35 years.....	164	148	140	133	124
35-39 years.....	25	32	36	40	45
40-49 years.....	23	21	25	28	35
50-54 years.....	18	12	15	15	16
55-56 years.....	2	2	2	3	4
57-59 years.....	5	5	2	3	1
60-61 years.....	2	2	3	4	3
62 years and over.....	4	5	3	3	5
No report.....	-	-	-	-	-
Regulatory enforcement of licensing:					
All ages.....	195	242	270	304	307
Under 35 years.....	81	113	132	153	151
35-39 years.....	27	35	43	50	53
40-49 years.....	54	59	56	62	60
50-54 years.....	19	20	23	21	25
55-56 years.....	4	6	8	6	6
57-59 years.....	3	5	3	6	6
60-61 years.....	2	1	2	4	3
62 years and over.....	5	3	3	2	3
No report.....	-	-	-	-	-
Construction:					
All ages.....	179	161	164	167	180
Under 35 years.....	92	79	84	80	88
35-39 years.....	24	21	13	21	26
40-49 years.....	35	38	43	38	36
50-54 years.....	19	16	16	15	19
55-56 years.....	3	2	4	8	4
57-59 years.....	3	2	2	1	5
60-61 years.....	1	1	-	2	1
62 years and over.....	2	2	2	2	1
No report.....	-	-	-	-	-

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Clinical practice, counseling, and ancillary medical service:					
All ages.....	238	246	295	331	355
Under 35 years.....	39	39	52	52	60
35-39 years.....	56	51	56	68	61
40-49 years.....	88	101	118	128	135
50-54 years.....	28	23	30	38	46
55-56 years.....	8	12	13	9	17
57-59 years.....	12	11	12	20	17
60-61 years.....	2	3	8	8	8
62 years and over.....	5	6	6	8	11
No report.....	-	-	-	-	-
Standards and specifications:					
All ages.....	74	80	82	89	86
Under 35 years.....	28	32	34	31	28
35-39 years.....	8	9	12	10	8
40-49 years.....	21	19	15	23	23
50-54 years.....	9	10	10	13	14
55-56 years.....	-	2	5	4	1
57-59 years.....	4	1	-	2	7
60-61 years.....	1	5	3	2	-
62 years and over.....	3	2	3	4	5
No report.....	-	-	-	-	-
Scientific and technical information:					
All ages.....	73	83	81	79	77
Under 35 years.....	26	36	35	34	33
35-39 years.....	7	10	11	14	15
40-49 years.....	32	25	23	23	22
50-54 years.....	3	6	6	4	4
55-56 years.....	1	1	2	-	-
57-59 years.....	1	3	1	1	-
60-61 years.....	2	1	2	2	-
62 years and over.....	1	1	1	1	3
No report.....	-	-	-	-	-
Research contract and grant administration:					
All ages.....	43	43	47	44	44
Under 35 years.....	15	11	14	17	15
35-39 years.....	3	5	5	3	6
40-49 years.....	13	14	18	17	15
50-54 years.....	6	6	5	1	2

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Research contract and grant administration (continued):					
55-56 years.....	2	2	-	2	3
57-59 years.....	3	3	3	2	1
60-61 years.....	1	1	1	1	2
62 years and over.....	-	1	1	1	-
No report.....	-	-	-	-	-
Teaching and training:					
All ages.....	13	18	27	22	23
Under 35 years.....	5	6	11	4	4
35-39 years.....	1	2	2	6	4
40-49 years.....	4	5	7	6	7
50-54 years.....	1	2	3	2	3
55-56 years.....	-	1	1	1	1
57-59 years.....	2	-	1	2	2
60-61 years.....	-	2	2	-	1
62 years and over.....	-	-	-	1	1
No report.....	-	-	-	-	-
Other - not elsewhere classified:					
All ages.....	519	573	587	617	579
Under 35 years.....	309	333	332	319	260
35-39 years.....	80	92	89	109	116
40-49 years.....	83	92	107	133	138
50-54 years.....	26	29	31	29	33
55-56 years.....	8	8	12	9	13
57-59 years.....	6	10	7	8	8
60-61 years.....	3	3	3	4	4
62 years and over.....	4	6	6	6	7
No report.....	-	-	-	-	-
Activity unknown:					
All ages.....	1,734	1,813	2,059	2,173	2,333
Under 35 years.....	494	501	607	647	702
35-39 years.....	356	359	355	397	419
40-49 years.....	564	628	711	708	779
50-54 years.....	176	188	229	243	248
55-56 years.....	57	50	57	58	59
57-59 years.....	48	50	60	61	66
60-61 years.....	19	20	16	33	30
62 years and over.....	20	17	24	26	30
No report.....	-	-	-	-	-

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Asian:					
Total, all activities:					
All ages.....	9,866	10,565	11,192	11,764	11,930
Under 35 years.....	3,908	4,236	4,418	4,442	4,228
35-39 years.....	1,381	1,394	1,506	1,660	1,762
40-49 years.....	2,626	2,781	2,903	3,033	3,105
50-54 years.....	1,026	1,133	1,208	1,302	1,368
55-56 years.....	251	302	353	399	415
57-59 years.....	284	303	354	400	478
60-61 years.....	115	130	148	192	203
62 years and over.....	274	286	302	336	371
No report.....	1	-	-	-	-
Development:					
All ages.....	1,719	1,863	1,884	2,186	2,190
Under 35 years.....	894	1,003	1,018	1,129	1,043
35-39 years.....	246	256	253	315	335
40-49 years.....	337	349	349	417	473
50-54 years.....	139	146	138	164	152
55-56 years.....	28	30	47	54	56
57-59 years.....	34	33	31	46	60
60-61 years.....	9	13	19	20	22
62 years and over.....	31	33	29	41	49
No report.....	1	-	-	-	-
Research:					
All ages.....	1,380	1,465	1,534	1,636	1,621
Under 35 years.....	322	323	354	365	333
35-39 years.....	193	218	242	282	284
40-49 years.....	456	483	474	474	457
50-54 years.....	204	210	223	239	238
55-56 years.....	56	62	70	85	83
57-59 years.....	72	85	73	81	99
60-61 years.....	18	26	39	45	43
62 years and over.....	59	58	59	65	84
No report.....	-	-	-	-	-
Design:					
All ages.....	1,262	1,298	1,290	1,288	1,268
Under 35 years.....	458	466	438	422	398
35-39 years.....	166	164	166	148	157
40-49 years.....	354	370	368	387	357
50-54 years.....	138	137	152	155	160

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Design (continued):					
55-56 years.....	38	46	39	36	51
57-59 years.....	37	35	47	53	57
60-61 years.....	22	26	20	21	21
62 years and over.....	49	54	60	66	67
No report.....	-	-	-	-	-
Data collection, processing, and analysis:					
All ages.....	570	628	654	682	635
Under 35 years.....	177	216	237	236	191
35-39 years.....	95	94	81	90	82
40-49 years.....	180	182	185	185	180
50-54 years.....	69	72	87	90	90
55-56 years.....	15	27	26	25	27
57-59 years.....	13	15	18	30	35
60-61 years.....	6	7	8	9	11
62 years and over.....	15	15	12	17	19
No report.....	-	-	-	-	-
Natural resources operations:					
All ages.....	103	113	125	148	155
Under 35 years.....	47	47	49	61	59
35-39 years.....	19	22	25	33	41
40-49 years.....	27	30	33	36	31
50-54 years.....	8	10	11	10	15
55-56 years.....	1	2	4	4	2
57-59 years.....	1	1	2	2	5
60-61 years.....	-	-	1	2	1
62 years and over.....	-	1	-	-	1
No report.....	-	-	-	-	-
Management:					
All ages.....	242	278	306	326	330
Under 35 years.....	33	47	49	46	46
35-39 years.....	40	34	42	39	38
40-49 years.....	85	107	116	132	132
50-54 years.....	47	50	51	55	54
55-56 years.....	6	17	15	16	19
57-59 years.....	17	9	15	16	20
60-61 years.....	6	3	7	14	9
62 years and over.....	8	11	11	8	12
No report.....	-	-	-	-	-

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Installation, operations, and maintenance:					
All ages.....	881	910	971	1,009	1,042
Under 35 years.....	493	514	541	546	558
35-39 years.....	116	116	131	143	166
40-49 years.....	182	178	184	188	183
50-54 years.....	51	66	68	74	80
55-56 years.....	7	6	13	20	21
57-59 years.....	14	11	14	14	13
60-61 years.....	8	8	8	9	8
62 years and over.....	10	11	12	15	13
No report.....	-	-	-	-	-
Test and evaluation:					
All ages.....	679	808	805	842	901
Under 35 years.....	397	497	490	479	470
35-39 years.....	71	67	80	94	121
40-49 years.....	121	149	135	153	171
50-54 years.....	35	39	50	61	73
55-56 years.....	18	19	14	15	17
57-59 years.....	16	13	15	17	22
60-61 years.....	8	9	7	6	8
62 years and over.....	13	15	14	17	19
No report.....	-	-	-	-	-
Planning:					
All ages.....	197	196	204	215	236
Under 35 years.....	48	52	64	71	66
35-39 years.....	28	23	20	21	36
40-49 years.....	73	66	58	58	69
50-54 years.....	26	32	30	29	27
55-56 years.....	8	9	9	12	12
57-59 years.....	9	9	17	12	17
60-61 years.....	1	1	4	8	5
62 years and over.....	4	4	2	4	4
No report.....	-	-	-	-	-
Technical assistance and consulting:					
All ages.....	177	180	187	178	198
Under 35 years.....	28	38	41	39	41
35-39 years.....	29	20	21	21	20
40-49 years.....	68	64	69	59	68
50-54 years.....	25	30	28	25	31

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Technical assistance and consulting (continued):					
55-56 years.....	9	8	8	12	12
57-59 years.....	5	9	9	11	12
60-61 years.....	5	2	3	4	6
62 years and over.....	8	9	8	7	8
No report.....	-	-	-	-	-
Production:					
All ages.....	421	431	470	492	491
Under 35 years.....	194	192	204	193	183
35-39 years.....	68	62	67	78	89
40-49 years.....	108	120	122	122	122
50-54 years.....	24	26	34	45	47
55-56 years.....	7	5	10	16	12
57-59 years.....	8	9	13	14	11
60-61 years.....	2	5	6	7	10
62 years and over.....	10	12	14	17	17
No report.....	-	-	-	-	-
Regulatory enforcement of licensing:					
All ages.....	359	405	460	478	490
Under 35 years.....	76	88	103	97	99
35-39 years.....	44	38	50	49	44
40-49 years.....	126	134	144	143	143
50-54 years.....	55	76	78	91	93
55-56 years.....	19	20	22	25	25
57-59 years.....	18	22	31	33	39
60-61 years.....	6	10	10	13	18
62 years and over.....	15	17	22	27	29
No report.....	-	-	-	-	-
Construction:					
All ages.....	343	348	345	354	370
Under 35 years.....	90	79	79	82	84
35-39 years.....	45	52	42	54	52
40-49 years.....	125	116	117	105	108
50-54 years.....	54	59	54	54	61
55-56 years.....	6	14	23	26	16
57-59 years.....	10	15	16	16	27
60-61 years.....	6	4	2	11	13
62 years and over.....	7	9	12	6	9
No report.....	-	-	-	-	-

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Clinical practice, counseling, and ancillary medical service:					
All ages.....	102	99	102	114	117
Under 35 years.....	20	20	14	21	25
35-39 years.....	6	6	13	10	11
40-49 years.....	40	39	39	42	40
50-54 years.....	18	22	20	22	22
55-56 years.....	5	3	6	9	5
57-59 years.....	2	2	4	4	8
60-61 years.....	3	2	1	3	2
62 years and over.....	8	5	5	3	4
No report.....	-	-	-	-	-
Standards and specifications:					
All ages.....	103	110	102	112	95
Under 35 years.....	35	34	31	34	25
35-39 years.....	18	17	14	17	12
40-49 years.....	28	30	33	27	24
50-54 years.....	15	20	15	16	16
55-56 years.....	3	3	2	8	8
57-59 years.....	3	5	5	5	6
60-61 years.....	-	-	1	3	2
62 years and over.....	1	1	1	2	2
No report.....	-	-	-	-	-
Scientific and technical information:					
All ages.....	72	80	94	95	113
Under 35 years.....	29	35	36	40	46
35-39 years.....	9	10	8	8	8
40-49 years.....	20	21	28	29	34
50-54 years.....	8	9	13	10	15
55-56 years.....	1	1	-	2	3
57-59 years.....	1	1	5	4	5
60-61 years.....	-	-	1	-	-
62 years and over.....	4	3	3	2	2
No report.....	-	-	-	-	-
Research contract and grant administration:					
All ages.....	48	58	58	59	60
Under 35 years.....	9	12	11	10	10
35-39 years.....	1	4	4	3	5
40-49 years.....	19	17	19	18	13
50-54 years.....	13	18	16	19	21

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Research contract and grant administration (continued)					
55-56 years.....	1	5	5	1	4
57-59 years.....	1	-	1	5	4
60-61 years.....	1	-	-	1	-
62 years and over.....	3	2	2	2	3
No report.....	-	-	-	-	-
Teaching and training:					
All ages.....	15	12	14	15	19
Under 35 years.....	3	1	3	2	3
35-39 years.....	2	1	1	1	-
40-49 years.....	7	6	5	6	6
50-54 years.....	2	4	4	3	6
55-56 years.....	1	-	1	3	1
57-59 years.....	-	-	-	-	3
60-61 years.....	-	-	-	-	-
62 years and over.....	-	-	-	-	-
No report.....	-	-	-	-	-
Other - not elsewhere classified:					
All ages.....	555	557	478	522	474
Under 35 years.....	385	365	275	273	227
35-39 years.....	61	60	58	70	61
40-49 years.....	69	81	87	107	106
50-54 years.....	18	26	30	40	48
55-56 years.....	4	8	10	8	11
57-59 years.....	7	6	9	10	8
60-61 years.....	2	4	2	6	8
62 years and over.....	9	7	7	8	5
No report.....	-	-	-	-	-
Activity unknown:					
All ages.....	638	726	1,109	1,013	1,125
Under 35 years.....	170	207	381	296	321
35-39 years.....	124	130	188	184	200
40-49 years.....	201	239	338	345	388
50-54 years.....	77	81	106	100	119
55-56 years.....	18	17	29	22	30
57-59 years.....	16	23	29	27	27
60-61 years.....	12	10	9	10	16
62 years and over.....	20	19	29	29	24
No report.....	-	-	-	-	-

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Hispanic:					
Total, all activities:					
All ages.....	5,331	5,687	6,071	6,354	6,394
Under 35 years.....	2,657	2,803	2,943	2,962	2,786
35-39 years.....	798	880	1,004	1,108	1,214
40-49 years.....	1,131	1,210	1,301	1,389	1,474
50-54 years.....	367	389	417	443	458
55-56 years.....	108	116	104	126	117
57-59 years.....	136	134	136	136	148
60-61 years.....	48	54	65	77	71
62 years and over.....	86	101	101	113	126
No report.....	-	-	-	-	-
Development:					
All ages.....	763	840	845	936	952
Under 35 years.....	475	533	530	566	548
35-39 years.....	92	104	119	137	175
40-49 years.....	106	116	107	129	134
50-54 years.....	46	43	44	49	50
55-56 years.....	14	12	14	16	8
57-59 years.....	16	14	14	14	14
60-61 years.....	6	7	8	11	9
62 years and over.....	8	11	9	14	14
No report.....	-	-	-	-	-
Research:					
All ages.....	355	355	388	401	392
Under 35 years.....	150	133	142	143	129
35-39 years.....	61	70	79	93	88
40-49 years.....	80	80	91	84	100
50-54 years.....	27	33	33	34	26
55-56 years.....	7	5	7	13	11
57-59 years.....	12	14	11	9	11
60-61 years.....	7	5	7	6	7
62 years and over.....	11	15	18	19	20
No report.....	-	-	-	-	-
Design:					
All ages.....	567	557	558	563	546
Under 35 years.....	300	279	280	261	245
35-39 years.....	81	79	90	93	95
40-49 years.....	115	114	98	118	114
50-54 years.....	32	36	46	45	42

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Design (continued):					
55-56 years.....	10	14	12	11	13
57-59 years.....	12	15	15	17	20
60-61 years.....	9	6	5	9	6
62 years and over.....	8	14	12	9	11
No report.....	-	-	-	-	-
Data collection, processing, and analysis:					
All ages.....	412	424	445	458	447
Under 35 years.....	181	176	197	193	180
35-39 years.....	75	83	77	81	86
40-49 years.....	85	98	97	104	105
50-54 years.....	43	34	43	40	36
55-56 years.....	10	13	9	12	12
57-59 years.....	13	12	13	13	11
60-61 years.....	-	3	6	9	7
62 years and over.....	5	5	3	6	10
No report.....	-	-	-	-	-
Natural resources operations:					
All ages.....	284	302	326	350	363
Under 35 years.....	145	151	152	153	150
35-39 years.....	75	77	88	94	97
40-49 years.....	51	59	73	89	97
50-54 years.....	5	5	7	11	14
55-56 years.....	4	5	1	-	-
57-59 years.....	2	3	4	1	1
60-61 years.....	1	-	-	1	1
62 years and over.....	1	2	1	1	3
No report.....	-	-	-	-	-
Management:					
All ages.....	156	188	187	196	198
Under 35 years.....	46	53	47	39	32
35-39 years.....	27	36	33	34	33
40-49 years.....	53	61	68	79	81
50-54 years.....	11	16	23	26	31
55-56 years.....	8	9	5	5	3
57-59 years.....	7	6	7	9	8
60-61 years.....	2	4	1	2	6
62 years and over.....	2	3	3	2	4
No report.....	-	-	-	-	-

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Installation, operations, and maintenance:					
All ages.....	427	439	454	478	481
Under 35 years.....	267	268	272	277	249
35-39 years.....	49	56	63	74	96
40-49 years.....	67	69	77	78	86
50-54 years.....	24	25	20	18	19
55-56 years.....	7	7	7	11	9
57-59 years.....	4	4	8	10	12
60-61 years.....	2	3	1	3	5
62 years and over.....	7	7	6	7	5
No report.....	-	-	-	-	-
Test and evaluation:					
All ages.....	390	462	516	533	547
Under 35 years.....	245	291	318	316	304
35-39 years.....	41	57	77	88	100
40-49 years.....	56	66	71	70	86
50-54 years.....	24	27	29	31	27
55-56 years.....	10	8	3	8	11
57-59 years.....	6	8	10	9	8
60-61 years.....	2	2	2	4	4
62 years and over.....	6	3	6	7	7
No report.....	-	-	-	-	-
Planning:					
All ages.....	165	171	195	200	193
Under 35 years.....	61	70	66	74	63
35-39 years.....	25	18	34	34	38
40-49 years.....	48	52	60	56	58
50-54 years.....	14	17	18	20	19
55-56 years.....	2	1	5	5	2
57-59 years.....	7	7	6	3	7
60-61 years.....	1	2	2	2	2
62 years and over.....	7	4	4	6	4
No report.....	-	-	-	-	-
Technical assistance and consulting:					
All ages.....	140	150	176	209	215
Under 35 years.....	44	46	69	85	77
35-39 years.....	16	18	21	23	31
40-49 years.....	43	47	57	59	61
50-54 years.....	10	11	5	15	18

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Technical assistance and consulting (continued):					
55-56 years.....	8	6	2	3	4
57-59 years.....	12	11	12	10	7
60-61 years.....	5	6	5	6	9
62 years and over.....	2	5	5	8	8
No report.....	-	-	-	-	-
Production:					
All ages.....	242	231	244	244	259
Under 35 years.....	140	149	144	134	135
35-39 years.....	26	18	30	41	51
40-49 years.....	45	41	42	41	42
50-54 years.....	17	11	16	17	16
55-56 years.....	2	3	3	2	4
57-59 years.....	5	4	3	3	3
60-61 years.....	-	1	2	3	2
62 years and over.....	7	4	4	3	6
No report.....	-	-	-	-	-
Regulatory enforcement of licensing:					
All ages.....	153	174	198	204	207
Under 35 years.....	80	86	105	108	99
35-39 years.....	25	32	30	29	32
40-49 years.....	25	28	35	38	43
50-54 years.....	11	13	13	14	19
55-56 years.....	1	3	3	1	1
57-59 years.....	8	8	1	5	4
60-61 years.....	-	1	7	4	1
62 years and over.....	3	3	4	5	8
No report.....	-	-	-	-	-
Construction:					
All ages.....	238	232	231	239	240
Under 35 years.....	100	91	90	85	83
35-39 years.....	33	33	48	54	55
40-49 years.....	59	63	54	62	63
50-54 years.....	18	17	16	16	16
55-56 years.....	3	8	7	5	5
57-59 years.....	12	6	5	9	9
60-61 years.....	3	4	5	3	1
62 years and over.....	10	10	6	5	8
No report.....	-	-	-	-	-

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Clinical practice, counseling, and ancillary medical service:					
All ages.....	105	115	129	131	145
Under 35 years.....	23	22	25	25	30
35-39 years.....	24	25	27	25	27
40-49 years.....	41	44	48	49	55
50-54 years.....	7	12	15	19	19
55-56 years.....	1	4	5	4	3
57-59 years.....	6	4	1	3	6
60-61 years.....	2	1	6	3	1
62 years and over.....	1	3	2	3	4
No report.....	-	-	-	-	-
Standards and specifications:					
All ages.....	38	36	32	39	43
Under 35 years.....	17	11	13	17	17
35-39 years.....	7	11	5	5	6
40-49 years.....	10	10	12	15	17
50-54 years.....	4	4	2	1	1
55-56 years.....	-	-	-	1	2
57-59 years.....	-	-	-	-	-
60-61 years.....	-	-	-	-	-
62 years and over.....	-	-	-	-	-
No report.....	-	-	-	-	-
Scientific and technical information:					
All ages.....	43	52	48	62	64
Under 35 years.....	12	29	26	30	33
35-39 years.....	9	6	7	12	10
40-49 years.....	15	11	8	12	13
50-54 years.....	2	1	2	4	5
55-56 years.....	1	1	1	-	-
57-59 years.....	2	-	-	1	1
60-61 years.....	1	2	2	-	-
62 years and over.....	1	2	2	3	2
No report.....	-	-	-	-	-
Research contract and grant administration:					
All ages.....	22	23	20	18	16
Under 35 years.....	6	7	6	7	6
35-39 years.....	4	2	2	2	2
40-49 years.....	7	7	4	3	3
50-54 years.....	2	3	3	3	1

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Research contract and grant administration (continued):					
55-56 years.....	1	2	2	1	2
57-59 years.....	2	1	2	-	-
60-61 years.....	-	1	1	1	1
62 years and over.....	-	-	-	1	1
No report.....	-	-	-	-	-
Teaching and training:					
All ages.....	6	9	10	12	10
Under 35 years.....	-	2	3	3	2
35-39 years.....	-	-	1	2	2
40-49 years.....	3	3	2	3	3
50-54 years.....	-	1	1	1	1
55-56 years.....	-	-	-	-	-
57-59 years.....	2	2	2	-	-
60-61 years.....	-	-	-	2	2
62 years and over.....	1	1	1	1	-
No report.....	-	-	-	-	-
Other - not elsewhere classified:					
All ages.....	285	323	339	347	313
Under 35 years.....	195	231	236	234	181
35-39 years.....	37	34	32	38	46
40-49 years.....	41	37	50	50	57
50-54 years.....	9	16	13	11	16
55-56 years.....	1	1	4	7	6
57-59 years.....	-	2	1	3	5
60-61 years.....	1	1	1	2	1
62 years and over.....	1	1	2	2	1
No report.....	-	-	-	-	-
Activity unknown:					
All ages.....	540	604	730	734	763
Under 35 years.....	170	175	222	212	223
35-39 years.....	91	121	141	149	144
40-49 years.....	181	204	247	250	256
50-54 years.....	61	64	68	68	82
55-56 years.....	18	14	14	21	21
57-59 years.....	8	13	21	17	21
60-61 years.....	6	5	4	6	6
62 years and over.....	5	8	13	11	10
No report.....	-	-	-	-	-

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Native American:					
Total, all activities:					
All ages.....	929	1,002	1,106	1,198	1,249
Under 35 years.....	273	303	338	327	308
35-39 years.....	160	163	181	196	222
40-49 years.....	286	317	360	408	448
50-54 years.....	114	112	113	139	140
55-56 years.....	30	36	35	40	36
57-59 years.....	32	32	39	47	47
60-61 years.....	17	19	22	18	20
62 years and over.....	17	20	18	22	28
No report.....	-	-	-	1	-
Development:					
All ages.....	80	81	68	92	99
Under 35 years.....	32	35	31	38	35
35-39 years.....	11	7	8	8	14
40-49 years.....	15	18	13	21	29
50-54 years.....	8	8	7	12	11
55-56 years.....	5	4	2	1	3
57-59 years.....	4	5	5	8	2
60-61 years.....	3	3	1	1	2
62 years and over.....	2	1	1	3	3
No report.....	-	-	-	-	-
Research:					
All ages.....	46	54	61	62	63
Under 35 years.....	14	14	17	14	17
35-39 years.....	9	10	11	14	16
40-49 years.....	13	15	21	21	17
50-54 years.....	3	7	7	9	8
55-56 years.....	3	2	-	-	1
57-59 years.....	-	1	1	-	1
60-61 years.....	1	2	2	1	-
62 years and over.....	3	3	2	3	3
No report.....	-	-	-	-	-
Design:					
All ages.....	78	76	77	82	89
Under 35 years.....	25	26	23	21	28
35-39 years.....	16	15	14	18	17
40-49 years.....	20	19	21	22	25
50-54 years.....	11	10	12	16	12

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Design (continued):					
55-56 years.....	2	1	2	2	2
57-59 years.....	-	-	-	-	2
60-61 years.....	2	1	-	-	1
62 years and over.....	2	4	5	3	2
No report.....	-	-	-	-	-
Data collection, processing, and analysis:					
All ages.....	34	32	38	47	40
Under 35 years.....	14	10	14	19	14
35-39 years.....	5	7	4	5	5
40-49 years.....	7	7	12	16	15
50-54 years.....	4	4	4	3	2
55-56 years.....	1	1	2	2	-
57-59 years.....	2	1	2	2	4
60-61 years.....	1	1	-	-	-
62 years and over.....	-	1	-	-	-
No report.....	-	-	-	-	-
Natural resources operations:					
All ages.....	223	252	262	272	282
Under 35 years.....	74	93	97	84	76
35-39 years.....	57	58	58	62	64
40-49 years.....	62	70	80	92	109
50-54 years.....	21	18	9	15	16
55-56 years.....	2	6	8	8	3
57-59 years.....	4	3	5	6	9
60-61 years.....	-	1	3	2	1
62 years and over.....	3	3	2	3	4
No report.....	-	-	-	-	-
Management:					
All ages.....	34	34	38	44	43
Under 35 years.....	6	5	5	5	4
35-39 years.....	1	5	6	4	7
40-49 years.....	13	12	15	20	16
50-54 years.....	11	8	7	5	9
55-56 years.....	1	1	1	4	3
57-59 years.....	1	1	1	3	-
60-61 years.....	1	1	1	1	2
62 years and over.....	-	1	2	2	2
No report.....	-	-	-	-	-

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Installation, operations, and maintenance:					
All ages.....	54	67	70	75	80
Under 35 years.....	17	23	25	23	21
35-39 years.....	8	7	8	12	13
40-49 years.....	11	17	19	21	26
50-54 years.....	10	9	9	6	3
55-56 years.....	3	3	-	4	6
57-59 years.....	1	4	4	3	3
60-61 years.....	3	3	2	3	4
62 years and over.....	1	1	3	3	4
No report.....	-	-	-	-	-
Test and evaluation:					
All ages.....	28	30	36	31	31
Under 35 years.....	10	11	15	14	13
35-39 years.....	4	3	6	4	5
40-49 years.....	8	10	10	9	8
50-54 years.....	1	1	1	3	3
55-56 years.....	1	1	-	-	-
57-59 years.....	4	1	-	-	-
60-61 years.....	-	3	4	-	-
62 years and over.....	-	-	-	1	2
No report.....	-	-	-	-	-
Planning:					
All ages.....	21	30	33	42	44
Under 35 years.....	3	5	6	8	5
35-39 years.....	3	5	6	9	9
40-49 years.....	13	11	11	16	21
50-54 years.....	2	5	6	6	7
55-56 years.....	-	2	1	-	1
57-59 years.....	-	1	2	2	-
60-61 years.....	-	-	-	-	-
62 years and over.....	-	1	1	1	1
No report.....	-	-	-	-	-
Technical assistance and consulting:					
All ages.....	31	32	43	50	49
Under 35 years.....	5	7	11	15	12
35-39 years.....	3	2	5	6	5
40-49 years.....	11	12	17	14	18
50-54 years.....	6	5	5	9	8

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Technical assistance and consulting (continued):					
55-56 years.....	-	-	2	3	-
57-59 years.....	2	2	1	1	3
60-61 years.....	1	1	2	2	2
62 years and over.....	3	3	-	-	1
No report.....	-	-	-	-	-
Production:					
All ages.....	29	25	26	26	23
Under 35 years.....	11	11	13	7	4
35-39 years.....	3	4	4	6	7
40-49 years.....	9	8	6	6	6
50-54 years.....	-	-	2	4	2
55-56 years.....	-	-	-	1	1
57-59 years.....	5	2	-	1	1
60-61 years.....	1	-	1	1	1
62 years and over.....	-	-	-	-	1
No report.....	-	-	-	-	-
Regulatory enforcement of licensing:					
All ages.....	13	15	15	15	15
Under 35 years.....	3	2	2	2	3
35-39 years.....	2	2	3	1	-
40-49 years.....	4	6	5	6	6
50-54 years.....	2	2	1	1	-
55-56 years.....	2	2	2	1	1
57-59 years.....	-	1	2	4	4
60-61 years.....	-	-	-	-	1
62 years and over.....	-	-	-	-	-
No report.....	-	-	-	-	-
Construction:					
All ages.....	36	36	33	35	41
Under 35 years.....	10	12	11	14	11
35-39 years.....	4	3	3	1	4
40-49 years.....	13	12	10	13	16
50-54 years.....	4	6	6	5	8
55-56 years.....	3	1	-	1	2
57-59 years.....	2	2	3	1	-
60-61 years.....	-	-	-	-	-
62 years and over.....	-	-	-	-	-
No report.....	-	-	-	-	-

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Clinical practice, counseling, and ancillary medical service:					
All ages.....	67	73	91	91	99
Under 35 years.....	5	7	11	5	5
35-39 years.....	15	17	19	11	16
40-49 years.....	28	28	35	46	45
50-54 years.....	8	8	11	12	17
55-56 years.....	3	6	5	5	3
57-59 years.....	5	5	6	7	7
60-61 years.....	2	2	3	4	3
62 years and over.....	1	-	1	1	3
No report.....	-	-	-	-	-
Standards and specifications:					
All ages.....	7	9	7	11	11
Under 35 years.....	4	5	6	4	4
35-39 years.....	-	-	-	3	1
40-49 years.....	2	2	-	2	3
50-54 years.....	1	1	-	-	1
55-56 years.....	-	1	1	-	-
57-59 years.....	-	-	-	2	1
60-61 years.....	-	-	-	-	1
62 years and over.....	-	-	-	-	-
No report.....	-	-	-	-	-
Scientific and technical information:					
All ages.....	4	4	7	9	10
Under 35 years.....	-	-	2	3	4
35-39 years.....	1	1	1	2	1
40-49 years.....	3	3	3	3	4
50-54 years.....	-	-	-	-	1
55-56 years.....	-	-	1	-	-
57-59 years.....	-	-	-	1	-
60-61 years.....	-	-	-	-	-
62 years and over.....	-	-	-	-	-
No report.....	-	-	-	-	-
Research contract and grant administration:					
All ages.....	3	2	2	3	3
Under 35 years.....	1	-	-	-	-
35-39 years.....	-	-	-	2	2
40-49 years.....	2	2	2	1	1
50-54 years.....	-	-	-	-	-

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Research contract and grant administration (continued):					
55-56 years.....	-	-	-	-	-
57-59 years.....	-	-	-	-	-
60-61 years.....	-	-	-	-	-
62 years and over.....	-	-	-	-	-
No report.....	-	-	-	-	-
Teaching and training:					
All ages.....	4	4	5	4	5
Under 35 years.....	1	1	1	-	-
35-39 years.....	-	-	-	1	2
40-49 years.....	1	1	1	1	-
50-54 years.....	1	1	1	1	1
55-56 years.....	-	-	-	-	1
57-59 years.....	1	1	1	-	-
60-61 years.....	-	-	1	1	1
62 years and over.....	-	-	-	-	-
No report.....	-	-	-	-	-
Other - not elsewhere classified:					
All ages.....	38	47	45	61	66
Under 35 years.....	16	17	15	18	20
35-39 years.....	6	5	3	8	10
40-49 years.....	9	17	18	22	19
50-54 years.....	3	3	3	5	8
55-56 years.....	-	1	3	3	1
57-59 years.....	1	1	1	2	5
60-61 years.....	1	1	1	1	1
62 years and over.....	2	2	1	2	2
No report.....	-	-	-	-	-
Activity unknown:					
All ages.....	99	99	149	146	156
Under 35 years.....	22	19	33	33	32
35-39 years.....	12	12	22	19	24
40-49 years.....	42	47	61	56	64
50-54 years.....	18	16	22	27	23
55-56 years.....	4	4	5	5	8
57-59 years.....	-	1	5	4	5
60-61 years.....	1	-	1	1	-
62 years and over.....	-	-	-	-	-
No report.....	-	-	-	1	-

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
All other races:					
Total, all activities:					
All ages.....	1,517	1,576	1,523	1,516	1,555
Under 35 years.....	564	560	511	466	429
35-39 years.....	208	233	235	250	284
40-49 years.....	471	493	485	499	519
50-54 years.....	164	175	178	173	180
55-56 years.....	40	42	45	53	56
57-59 years.....	41	35	38	40	50
60-61 years.....	10	17	17	12	15
62 years and over.....	19	21	14	23	22
No report.....	-	-	-	-	-
Development:					
All ages.....	35	34	12	23	19
Under 35 years.....	15	14	2	5	2
35-39 years.....	7	7	3	5	5
40-49 years.....	10	10	4	10	9
50-54 years.....	2	2	2	1	1
55-56 years.....	1	-	-	1	1
57-59 years.....	-	1	1	1	-
60-61 years.....	-	-	-	-	1
62 years and over.....	-	-	-	-	-
No report.....	-	-	-	-	-
Research:					
All ages.....	35	42	38	43	40
Under 35 years.....	4	8	6	9	5
35-39 years.....	8	12	10	7	6
40-49 years.....	16	14	13	18	19
50-54 years.....	4	6	7	8	6
55-56 years.....	-	-	-	-	3
57-59 years.....	2	1	1	-	-
60-61 years.....	1	-	-	-	-
62 years and over.....	-	1	1	1	1
No report.....	-	-	-	-	-
Design:					
All ages.....	356	333	322	314	339
Under 35 years.....	154	125	116	103	89
35-39 years.....	44	48	48	48	66
40-49 years.....	93	96	93	98	107
50-54 years.....	37	37	41	36	41

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Design (continued):					
55-56 years.....	10	12	8	9	14
57-59 years.....	10	4	10	12	11
60-61 years.....	2	7	6	3	5
62 years and over.....	6	4	-	5	6
No report.....	-	-	-	-	-
Data collection, processing, and analysis:					
All ages.....	73	83	78	79	84
Under 35 years.....	10	17	20	22	28
35-39 years.....	8	11	12	10	13
40-49 years.....	26	25	19	19	18
50-54 years.....	16	15	14	13	13
55-56 years.....	2	5	5	4	3
57-59 years.....	7	6	3	4	4
60-61 years.....	2	3	4	4	2
62 years and over.....	2	1	1	3	3
No report.....	-	-	-	-	-
Natural resources operations:					
All ages.....	20	24	27	30	29
Under 35 years.....	3	6	3	5	4
35-39 years.....	4	3	5	6	5
40-49 years.....	8	11	14	13	14
50-54 years.....	4	4	4	4	2
55-56 years.....	-	-	1	2	3
57-59 years.....	1	-	-	-	1
60-61 years.....	-	-	-	-	-
62 years and over.....	-	-	-	-	-
No report.....	-	-	-	-	-
Management:					
All ages.....	53	48	46	49	55
Under 35 years.....	6	5	4	6	9
35-39 years.....	5	5	5	7	4
40-49 years.....	17	18	19	18	22
50-54 years.....	15	11	10	9	7
55-56 years.....	5	4	4	4	3
57-59 years.....	4	5	3	3	6
60-61 years.....	-	-	1	1	1
62 years and over.....	1	-	-	1	3
No report.....	-	-	-	-	-

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Installation, operations, and maintenance:					
All ages.....	307	324	315	324	327
Under 35 years.....	133	140	132	129	114
35-39 years.....	44	41	40	53	68
40-49 years.....	89	97	97	91	90
50-54 years.....	27	30	30	30	30
55-56 years.....	8	9	7	10	13
57-59 years.....	5	5	6	8	7
60-61 years.....	-	1	3	1	1
62 years and over.....	1	1	-	2	4
No report.....	-	-	-	-	-
Test and evaluation:					
All ages.....	198	210	181	174	169
Under 35 years.....	109	120	93	78	67
35-39 years.....	31	29	29	31	33
40-49 years.....	45	45	41	47	54
50-54 years.....	9	10	10	9	9
55-56 years.....	2	2	4	4	-
57-59 years.....	1	3	3	3	4
60-61 years.....	-	-	-	1	2
62 years and over.....	1	1	1	1	-
No report.....	-	-	-	-	-
Planning:					
All ages.....	88	81	84	79	79
Under 35 years.....	24	20	21	18	15
35-39 years.....	10	13	15	15	15
40-49 years.....	37	33	31	28	33
50-54 years.....	9	10	7	9	10
55-56 years.....	2	-	4	4	2
57-59 years.....	3	2	2	1	2
60-61 years.....	2	-	-	1	1
62 years and over.....	1	3	4	3	1
No report.....	-	-	-	-	-
Technical assistance and consulting:					
All ages.....	10	13	14	14	11
Under 35 years.....	1	2	1	1	-
35-39 years.....	4	5	5	5	2
40-49 years.....	3	1	4	4	5
50-54 years.....	2	4	2	2	1

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Technical assistance and consulting (continued):					
55-56 years.....	-	-	1	1	1
57-59 years.....	-	-	-	-	1
60-61 years.....	-	1	1	-	-
62 years and over.....	-	-	-	1	1
No report.....	-	-	-	-	-
Production:					
All ages.....	18	21	18	16	17
Under 35 years.....	10	10	10	8	7
35-39 years.....	2	2	1	-	2
40-49 years.....	5	7	5	5	6
50-54 years.....	1	1	1	2	1
55-56 years.....	-	1	1	-	-
57-59 years.....	-	-	-	1	1
60-61 years.....	-	-	-	-	-
62 years and over.....	-	-	-	-	-
No report.....	-	-	-	-	-
Regulatory enforcement of licensing:					
All ages.....	3	2	3	4	4
Under 35 years.....	1	1	1	-	-
35-39 years.....	-	-	-	2	1
40-49 years.....	1	1	2	2	3
50-54 years.....	-	-	-	-	-
55-56 years.....	-	-	-	-	-
57-59 years.....	-	-	-	-	-
60-61 years.....	1	-	-	-	-
62 years and over.....	-	-	-	-	-
No report.....	-	-	-	-	-
Construction:					
All ages.....	94	100	96	94	101
Under 35 years.....	24	27	29	25	25
35-39 years.....	13	17	15	17	19
40-49 years.....	29	29	30	32	34
50-54 years.....	16	15	12	13	13
55-56 years.....	4	4	2	3	4
57-59 years.....	5	2	4	1	4
60-61 years.....	1	3	2	1	1
62 years and over.....	2	3	2	2	1
No report.....	-	-	-	-	-

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Clinical practice, counseling, and ancillary medical service:					
All ages.....	13	13	11	14	15
Under 35 years.....	-	-	-	2	3
35-39 years.....	4	3	3	-	-
40-49 years.....	5	7	5	9	9
50-54 years.....	2	2	2	2	1
55-56 years.....	1	1	1	-	1
57-59 years.....	-	-	-	1	1
60-61 years.....	-	-	-	-	-
62 years and over.....	1	-	-	-	-
No report.....	-	-	-	-	-
Standards and specifications:					
All ages.....	35	32	29	28	31
Under 35 years.....	14	13	8	8	11
35-39 years.....	6	7	9	8	6
40-49 years.....	13	9	9	9	12
50-54 years.....	1	2	2	3	2
55-56 years.....	1	-	-	-	-
57-59 years.....	-	1	1	-	-
60-61 years.....	-	-	-	-	-
62 years and over.....	-	-	-	-	-
No report.....	-	-	-	-	-
Scientific and technical information:					
All ages.....	7	11	9	10	10
Under 35 years.....	1	2	1	2	2
35-39 years.....	-	3	2	2	1
40-49 years.....	4	5	5	5	4
50-54 years.....	1	-	1	-	2
55-56 years.....	-	-	-	1	1
57-59 years.....	-	-	-	-	-
60-61 years.....	-	-	-	-	-
62 years and over.....	1	1	-	-	-
No report.....	-	-	-	-	-
Research contract and grant administration:					
All ages.....	1	1	1	3	3
Under 35 years.....	-	-	-	1	1
35-39 years.....	-	-	1	2	2
40-49 years.....	-	-	-	-	-
50-54 years.....	1	-	-	-	-

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Research contract and grant administration (continued):					
55-56 years.....	-	1	-	-	-
57-59 years.....	-	-	-	-	-
60-61 years.....	-	-	-	-	-
62 years and over.....	-	-	-	-	-
No report.....	-	-	-	-	-
Teaching and training:					
All ages.....	5	14	17	16	14
Under 35 years.....	5	7	8	6	3
35-39 years.....	-	4	5	5	6
40-49 years.....	-	3	4	5	5
50-54 years.....	-	-	-	-	-
55-56 years.....	-	-	-	-	-
57-59 years.....	-	-	-	-	-
60-61 years.....	-	-	-	-	-
62 years and over.....	-	-	-	-	-
No report.....	-	-	-	-	-
Other - not elsewhere classified:					
All ages.....	61	65	66	65	66
Under 35 years.....	33	31	35	31	31
35-39 years.....	5	5	5	6	9
40-49 years.....	16	20	18	19	17
50-54 years.....	4	5	5	5	5
55-56 years.....	-	1	1	1	2
57-59 years.....	1	-	-	1	-
60-61 years.....	-	-	-	-	-
62 years and over.....	2	3	2	2	2
No report.....	-	-	-	-	-
Activity unknown:					
All ages.....	105	125	156	137	142
Under 35 years.....	17	12	21	7	13
35-39 years.....	13	18	22	21	21
40-49 years.....	54	62	72	67	58
50-54 years.....	13	21	28	27	36
55-56 years.....	4	2	6	9	5
57-59 years.....	2	5	4	4	8
60-61 years.....	1	2	-	-	1
62 years and over.....	1	3	3	2	-
No report.....	-	-	-	-	-

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
No race reported:					
Total, all activities:					
All ages.....	170	76	54	126	14
Under 35 years.....	67	39	23	72	3
35-39 years.....	21	5	11	22	1
40-49 years.....	46	16	10	18	7
50-54 years.....	16	7	3	7	2
55-56 years.....	7	4	2	4	-
57-59 years.....	9	5	5	1	1
60-61 years.....	1	-	-	1	-
62 years and over.....	3	-	-	-	-
No report.....	-	-	-	1	-
Development:					
All ages.....	49	2	-	1	4
Under 35 years.....	23	1	-	-	2
35-39 years.....	5	-	-	-	-
40-49 years.....	10	1	-	1	2
50-54 years.....	5	-	-	-	-
55-56 years.....	2	-	-	-	-
57-59 years.....	3	-	-	-	-
60-61 years.....	-	-	-	-	-
62 years and over.....	1	-	-	-	-
No report.....	-	-	-	-	-
Research:					
All ages.....	10	5	6	6	1
Under 35 years.....	2	1	3	-	1
35-39 years.....	1	-	-	3	-
40-49 years.....	6	4	3	2	-
50-54 years.....	1	-	-	1	-
55-56 years.....	-	-	-	-	-
57-59 years.....	-	-	-	-	-
60-61 years.....	-	-	-	-	-
62 years and over.....	-	-	-	-	-
No report.....	-	-	-	-	-
Design:					
All ages.....	8	2	-	-	-
Under 35 years.....	3	-	-	-	-
35-39 years.....	2	-	-	-	-
40-49 years.....	1	-	-	-	-
50-54 years.....	-	1	-	-	-

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Design (continued):					
55-56 years.....	1	-	-	-	-
57-59 years.....	1	1	-	-	-
60-61 years.....	-	-	-	-	-
62 years and over.....	-	-	-	-	-
No report.....	-	-	-	-	-
Data collection, processing, and analysis:					
All ages.....	3	2	1	1	-
Under 35 years.....	2	2	-	1	-
35-39 years.....	-	-	1	-	-
40-49 years.....	1	-	-	-	-
50-54 years.....	-	-	-	-	-
55-56 years.....	-	-	-	-	-
57-59 years.....	-	-	-	-	-
60-61 years.....	-	-	-	-	-
62 years and over.....	-	-	-	-	-
No report.....	-	-	-	-	-
Natural resources operations:					
All ages.....	-	-	-	-	-
Under 35 years.....	-	-	-	-	-
35-39 years.....	-	-	-	-	-
40-49 years.....	-	-	-	-	-
50-54 years.....	-	-	-	-	-
55-56 years.....	-	-	-	-	-
57-59 years.....	-	-	-	-	-
60-61 years.....	-	-	-	-	-
62 years and over.....	-	-	-	-	-
No report.....	-	-	-	-	-
Management:					
All ages.....	11	-	-	3	1
Under 35 years.....	3	-	-	1	-
35-39 years.....	2	-	-	-	-
40-49 years.....	2	-	-	2	1
50-54 years.....	1	-	-	-	-
55-56 years.....	-	-	-	-	-
57-59 years.....	3	-	-	-	-
60-61 years.....	-	-	-	-	-
62 years and over.....	-	-	-	-	-
No report.....	-	-	-	-	-

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Installation, operations, and maintenance:					
All ages.....	7	11	3	2	1
Under 35 years.....	4	8	1	-	-
35-39 years.....	-	-	1	1	-
40-49 years.....	-	-	-	1	1
50-54 years.....	-	-	-	-	-
55-56 years.....	3	1	-	-	-
57-59 years.....	-	2	1	-	-
60-61 years.....	-	-	-	-	-
62 years and over.....	-	-	-	-	-
No report.....	-	-	-	-	-
Test and evaluation:					
All ages.....	1	3	2	7	-
Under 35 years.....	-	2	-	-	-
35-39 years.....	-	-	1	3	-
40-49 years.....	-	1	1	2	-
50-54 years.....	-	-	-	1	-
55-56 years.....	-	-	-	1	-
57-59 years.....	1	-	-	-	-
60-61 years.....	-	-	-	-	-
62 years and over.....	-	-	-	-	-
No report.....	-	-	-	-	-
Planning:					
All ages.....	5	3	3	1	-
Under 35 years.....	3	3	3	1	-
35-39 years.....	-	-	-	-	-
40-49 years.....	2	-	-	-	-
50-54 years.....	-	-	-	-	-
55-56 years.....	-	-	-	-	-
57-59 years.....	-	-	-	-	-
60-61 years.....	-	-	-	-	-
62 years and over.....	-	-	-	-	-
No report.....	-	-	-	-	-
Technical assistance and consulting:					
All ages.....	-	1	-	-	-
Under 35 years.....	-	-	-	-	-
35-39 years.....	-	-	-	-	-
40-49 years.....	-	1	-	-	-
50-54 years.....	-	-	-	-	-

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Technical assistance and consulting (continued):					
55-56 years.....	-	-	-	-	-
57-59 years.....	-	-	-	-	-
60-61 years.....	-	-	-	-	-
62 years and over.....	-	-	-	-	-
No report.....	-	-	-	-	-
Production:					
All ages.....	-	-	-	-	-
Under 35 years.....	-	-	-	-	-
35-39 years.....	-	-	-	-	-
40-49 years.....	-	-	-	-	-
50-54 years.....	-	-	-	-	-
55-56 years.....	-	-	-	-	-
57-59 years.....	-	-	-	-	-
60-61 years.....	-	-	-	-	-
62 years and over.....	-	-	-	-	-
No report.....	-	-	-	-	-
Regulatory enforcement of licensing:					
All ages.....	1	2	7	5	-
Under 35 years.....	-	2	2	2	-
35-39 years.....	-	-	2	-	-
40-49 years.....	1	-	3	3	-
50-54 years.....	-	-	-	-	-
55-56 years.....	-	-	-	-	-
57-59 years.....	-	-	-	-	-
60-61 years.....	-	-	-	-	-
62 years and over.....	-	-	-	-	-
No report.....	-	-	-	-	-
Construction:					
All ages.....	9	5	1	1	1
Under 35 years.....	4	3	-	-	-
35-39 years.....	1	-	-	-	-
40-49 years.....	1	-	-	-	-
50-54 years.....	2	2	-	-	-
55-56 years.....	-	-	1	1	-
57-59 years.....	-	-	-	-	1
60-61 years.....	-	-	-	-	-
62 years and over.....	1	-	-	-	-
No report.....	-	-	-	-	-

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Clinical practice, counseling, and ancillary medical service:					
All ages.....	12	11	9	1	2
Under 35 years.....	2	3	3	-	-
35-39 years.....	3	1	1	1	-
40-49 years.....	5	5	2	-	1
50-54 years.....	1	1	2	-	1
55-56 years.....	-	-	-	-	-
57-59 years.....	1	1	1	-	-
60-61 years.....	-	-	-	-	-
62 years and over.....	-	-	-	-	-
No report.....	-	-	-	-	-
Standards and specifications:					
All ages.....	-	1	-	-	-
Under 35 years.....	-	-	-	-	-
35-39 years.....	-	-	-	-	-
40-49 years.....	-	-	-	-	-
50-54 years.....	-	1	-	-	-
55-56 years.....	-	-	-	-	-
57-59 years.....	-	-	-	-	-
60-61 years.....	-	-	-	-	-
62 years and over.....	-	-	-	-	-
No report.....	-	-	-	-	-
Scientific and technical information:					
All ages.....	1	-	-	1	-
Under 35 years.....	-	-	-	-	-
35-39 years.....	1	-	-	-	-
40-49 years.....	-	-	-	-	-
50-54 years.....	-	-	-	1	-
55-56 years.....	-	-	-	-	-
57-59 years.....	-	-	-	-	-
60-61 years.....	-	-	-	-	-
62 years and over.....	-	-	-	-	-
No report.....	-	-	-	-	-
Research contract and grant administration:					
All ages.....	1	-	-	-	-
Under 35 years.....	1	-	-	-	-
35-39 years.....	-	-	-	-	-
40-49 years.....	-	-	-	-	-
50-54 years.....	-	-	-	-	-

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

Table B-12. Federal scientists and engineers, by race/ethnicity, primary work activity, and age: 1989-93

Race/ethnicity, primary work activity, and age	1989	1990	1991	1992	1993
Research contract and grant administration (continued):					
55-56 years.....	-	-	-	-	-
57-59 years.....	-	-	-	-	-
60-61 years.....	-	-	-	-	-
62 years and over.....	-	-	-	-	-
No report.....	-	-	-	-	-
Teaching and training:					
All ages.....	-	-	-	-	-
Under 35 years.....	-	-	-	-	-
35-39 years.....	-	-	-	-	-
40-49 years.....	-	-	-	-	-
50-54 years.....	-	-	-	-	-
55-56 years.....	-	-	-	-	-
57-59 years.....	-	-	-	-	-
60-61 years.....	-	-	-	-	-
62 years and over.....	-	-	-	-	-
No report.....	-	-	-	-	-
Other - not elsewhere classified:					
All ages.....	6	2	1	1	-
Under 35 years.....	5	2	1	1	-
35-39 years.....	1	-	-	-	-
40-49 years.....	-	-	-	-	-
50-54 years.....	-	-	-	-	-
55-56 years.....	-	-	-	-	-
57-59 years.....	-	-	-	-	-
60-61 years.....	-	-	-	-	-
62 years and over.....	-	-	-	-	-
No report.....	-	-	-	-	-
Activity unknown:					
All ages.....	46	26	21	96	4
Under 35 years.....	15	12	10	66	-
35-39 years.....	5	4	5	14	1
40-49 years.....	17	4	1	7	2
50-54 years.....	6	2	1	4	1
55-56 years.....	1	3	1	2	-
57-59 years.....	-	1	3	1	-
60-61 years.....	1	-	-	1	-
62 years and over.....	1	-	-	-	-
No report.....	-	-	-	1	-

KEY: "-" = Zero

SOURCE: National Science Foundation tabulations from Office of Personnel Management's Central Personnel Data Files

Table B-13. Median annual salaries of Federal scientists and engineers, by major occupational group and highest degree level: 1989-93

Page 1 of 3

Major occupational group and highest degree level	1989	1990	1991	1992	1993
Total, All Occupations					
All levels.....	\$41,100	\$42,800	\$45,900	\$47,900	\$50,100
Ph.D.....	50,100	52,300	54,700	57,100	60,400
MS/MA.....	44,000	45,800	48,500	50,600	52,500
BS/BA.....	39,300	41,200	44,300	46,600	48,300
Professional.....	42,700	44,100	47,200	50,000	52,300
All scientists:					
All levels.....	40,400	42,000	44,400	46,200	48,100
Ph.D.....	49,200	51,100	54,100	56,500	59,100
MS/MA.....	41,200	42,800	44,700	46,800	49,400
BS/BA.....	37,500	38,900	41,000	42,600	44,500
Professional.....	42,300	43,500	45,400	47,800	51,000
Computer and mathematical sciences:					
All levels.....	42,100	43,900	45,900	48,000	49,900
Ph.D.....	50,200	52,700	56,200	59,600	62,300
MS/MA.....	44,900	46,500	48,700	50,800	52,600
BS/BA.....	41,000	42,600	44,600	46,700	48,300
Professional.....	44,000	45,500	48,400	50,500	52,200
Life sciences:					
All levels.....	35,300	36,700	38,400	40,100	42,600
Ph.D.....	45,300	47,100	48,800	50,900	54,400
MS/MA.....	35,800	37,000	39,300	41,200	42,900
BS/BA.....	32,700	33,900	35,200	36,800	39,200
Professional.....	39,200	40,300	41,300	45,400	48,000
Physical sciences:					
All levels.....	43,800	45,300	47,300	49,800	52,300
Ph.D.....	53,300	55,400	57,700	60,100	62,500
MS/MA.....	42,500	44,100	47,200	49,300	52,300
BS/BA.....	39,200	39,400	42,300	44,200	46,000
Professional.....	47,200	46,500	48,600	50,900	54,500
Social sciences:					
All levels.....	41,000	42,600	44,400	46,100	48,000
Ph.D.....	48,500	51,000	53,200	55,500	58,400
MS/MA.....	40,200	41,900	43,400	45,400	47,100
BS/BA.....	35,800	37,500	38,600	40,000	41,700
Professional.....	41,200	42,600	45,400	47,700	50,900
All engineers:					
All levels.....	42,000	43,600	47,100	49,300	52,300
Ph.D.....	53,500	56,900	59,600	63,500	66,200
MS/MA.....	46,800	49,000	51,900	54,500	56,500
BS/BA.....	40,300	42,400	45,700	48,000	50,800
Professional.....	43,400	45,700	48,900	51,800	54,400

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

Table B-13. Median annual salaries of Federal scientists and engineers, by major occupational group and highest degree level: 1989-93

Major occupational group and highest degree level	1989	1990	1991	1992	1993
Aerospace:					
All levels.....	45,200	47,000	48,900	51,900	54,400
Ph.D.....	55,100	57,100	61,100	64,800	67,900
MS/MA.....	50,200	52,100	54,700	57,100	59,000
BS/BA.....	41,200	43,600	46,000	49,300	52,500
Professional.....	43,900	46,000	48,700	55,200	C
Chemical:					
All levels.....	39,800	42,000	45,800	48,100	51,000
Ph.D.....	48,000	51,000	54,400	56,900	59,800
MS/MA.....	42,300	43,700	47,100	50,700	52,500
BS/BA.....	38,700	40,600	43,500	46,700	49,400
Professional.....	C	C	C	C	C
Civil:					
All levels.....	41,100	42,700	45,900	48,000	49,900
Ph.D.....	53,400	55,400	57,800	60,100	62,100
MS/MA.....	43,300	45,000	48,600	50,700	52,700
BS/BA.....	41,000	42,600	44,800	46,800	49,700
Professional.....	41,100	42,500	45,900	48,600	51,200
Electrical, electronics, and computer:					
All levels.....	41,100	43,200	46,100	49,300	52,200
Ph.D.....	53,300	55,500	57,800	60,800	62,400
MS/MA.....	47,800	49,600	52,100	54,600	56,500
BS/BA.....	39,600	42,300	44,800	47,900	49,900
Professional.....	44,500	47,100	49,800	52,200	54,500
Industrial:					
All levels.....	38,800	41,200	43,500	46,600	48,300
Ph.D.....	48,000	51,800	C	C	C
MS/MA.....	42,200	44,900	48,300	50,500	52,500
BS/BA.....	37,900	40,000	42,700	45,400	47,100
Professional.....	C	C	C	C	C
Mechanical:					
All levels.....	38,800	40,700	44,300	46,700	49,200
Ph.D.....	52,600	53,900	57,500	59,900	62,300
MS/MA.....	43,500	45,400	48,600	50,700	52,600
BS/BA.....	38,300	40,100	43,300	46,200	48,200
Professional.....	39,800	41,200	45,900	48,100	51,000

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

Table B-13. Median annual salaries of Federal scientists and engineers, by major occupational group and highest degree level: 1989-93

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Major occupational group and highest degree level	1989	1990	1991	1992	1993
Other engineering:					
All levels.....	45,100	47,100	49,800	51,900	54,300
Ph.D.....	56,700	59,600	62,700	65,400	68,000
MS/MA.....	49,200	51,100	54,300	56,900	59,100
BS/BA.....	42,500	44,900	48,000	50,600	52,600
Professional.....	45,400	49,700	52,600	55,500	57,500

NOTES: Salaries rounded to the nearest hundred
 Figures are based on payable salaries for 1989-91 and on adjusted basic pay for 1992-93

KEY: "C" = Data suppressed to preserve confidentiality

SOURCE: National Science Foundation tabulations from Office of Personnel Management's Central Personnel Data Files

Table B-14. Federal personnel with bachelor's degrees or higher, by highest degree field and science and engineering (S&E) employment status: 1989-93

Highest degree field	1989			1990			1991		
	Total employed	Employed in S&E occupations	Employed outside S&E occupations	Total employed	Employed in S&E occupations	Employed outside S&E occupations	Total employed	Employed in S&E occupations	Employed outside S&E occupations
Total, All Fields.....	687,550	185,623	501,927	704,195	189,049	515,146	733,169	194,726	538,443
Science and engineering.....	312,599	158,157	154,442	320,518	161,556	158,962	330,870	165,423	165,447
Physical sciences.....	31,810	21,501	10,309	32,339	21,867	10,472	32,770	22,053	10,717
Computer and mathematical sciences.....	24,779	13,505	11,274	25,984	14,218	11,766	27,231	14,931	12,300
Life sciences.....	65,194	22,108	43,086	66,668	22,850	43,818	69,172	23,711	45,461
Social sciences.....	84,558	14,773	69,785	87,107	15,333	71,774	91,573	16,403	75,170
Engineering.....	106,258	86,270	19,988	108,420	87,288	21,132	110,124	88,325	21,799
Non-S&E.....	370,514	25,668	344,846	381,822	27,042	354,780	396,962	28,713	368,249
No report.....	4,437	1,798	2,639	1,855	451	1,404	5,337	590	4,747

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

Table B-14. Federal personnel with bachelor's degrees or higher, by highest degree field and science and engineering (S&E) employment status: 1989-93

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Highest degree field	1992			1993		
	Total employed	Employed in S&E occupations	Employed outside S&E occupations	Total employed	Employed in S&E occupations	Employed outside S&E occupations
Total, All Fields.....	745,600	198,853	546,747	737,928	196,908	541,020
Science and engineering.....	336,858	168,147	168,711	332,494	165,538	166,956
Physical sciences.....	33,101	22,263	10,838	32,613	21,914	10,699
Computer and mathematical sciences.....	28,074	15,474	12,600	28,031	15,591	12,440
Life sciences.....	71,354	24,738	46,616	70,650	24,541	46,109
Social sciences.....	93,553	17,294	76,259	92,701	17,315	75,386
Engineering.....	110,776	88,378	22,398	108,499	86,177	22,322
Non-S&E.....	406,982	30,161	376,821	403,279	30,662	372,617
No report.....	1,760	545	1,215	2,155	708	1,447

KEY: S&E = Science and engineering

SOURCE: National Science Foundation tabulations from Office of Personnel Management's Central Personnel Data Files

Table B-15. Federal scientists and engineers, by agency and major occupational group: 1989-93

Agency and major occupational group	1989	1990	1991	1992	1993
Total, All Agencies.....	185,623	189,049	194,726	198,853	196,908
Department of Agriculture:					
Total.....	16,875	17,068	17,475	18,073	17,764
All scientists.....	14,576	14,782	15,179	15,761	15,535
Computer and mathematical sciences.....	1,088	1,158	1,300	1,346	1,347
Life sciences.....	10,456	10,554	10,739	11,213	11,076
Physical sciences.....	1,443	1,434	1,429	1,432	1,385
Social sciences.....	1,589	1,636	1,711	1,770	1,727
All engineers.....	2,299	2,286	2,296	2,312	2,229
Aerospace.....	-	-	-	-	-
Chemical.....	38	39	35	37	40
Civil.....	1,659	1,648	1,661	1,641	1,561
Electrical, electronics, and computer.....	80	87	84	92	99
Industrial.....	12	13	10	8	6
Mechanical.....	39	37	37	37	38
Other engineering.....	471	462	469	497	485
Department of Commerce:					
Total.....	7,768	8,006	8,312	8,660	8,766
All scientists.....	7,035	7,250	7,563	7,874	7,930
Computer and mathematical sciences.....	2,302	2,344	2,500	2,622	2,617
Life sciences.....	673	718	774	862	844
Physical sciences.....	3,252	3,411	3,507	3,604	3,694
Social sciences.....	808	777	782	786	775
All engineers.....	733	756	749	786	836
Aerospace.....	2	3	3	4	3
Chemical.....	51	49	34	34	37
Civil.....	47	50	53	55	56
Electrical, electronics, and computer.....	353	374	376	401	416
Industrial.....	9	9	8	10	11
Mechanical.....	107	112	111	107	115
Other engineering.....	164	159	164	175	198
Department of Defense:					
Total.....	94,194	93,949	94,042	94,213	92,163
All scientists.....	26,877	27,051	27,621	28,373	28,264
Computer and mathematical sciences.....	14,042	14,329	14,475	14,752	14,718
Life sciences.....	2,118	2,169	2,425	2,666	2,772
Physical sciences.....	6,614	6,514	6,392	6,411	6,210
Social sciences.....	4,103	4,039	4,329	4,544	4,564

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

Table B-15. Federal scientists and engineers, by agency and major occupational group: 1989-93

Agency and major occupational group	1989	1990	1991	1992	1993
Department of Defense (continued):					
All engineers.....	67,317	66,898	66,421	65,840	63,899
Aerospace.....	3,929	4,004	3,980	3,836	3,709
Chemical.....	894	836	789	754	710
Civil.....	8,974	8,592	8,202	8,033	7,831
Electrical, electronics, and computer.....	24,812	25,400	25,773	25,841	25,346
Industrial.....	3,142	3,087	2,825	2,653	2,371
Mechanical.....	11,006	10,555	10,395	10,134	9,778
Other engineering.....	14,560	14,424	14,457	14,589	14,154
Department of the Army:					
Total.....	34,957	34,271	34,295	34,192	33,300
All scientists.....	11,285	11,169	11,559	11,606	11,363
Computer and mathematical sciences.....	4,821	4,792	4,815	4,766	4,625
Life sciences.....	1,416	1,461	1,669	1,839	1,886
Physical sciences.....	2,658	2,640	2,646	2,641	2,554
Social sciences.....	2,390	2,276	2,429	2,360	2,298
All engineers.....	23,672	23,102	22,736	22,586	21,937
Aerospace.....	730	723	700	648	611
Chemical.....	444	420	384	377	367
Civil.....	7,200	6,932	6,664	6,639	6,522
Electrical, electronics, and computer.....	5,494	5,553	5,667	5,639	5,558
Industrial.....	988	922	809	775	717
Mechanical.....	3,284	3,144	3,105	3,051	2,939
Other engineering.....	5,532	5,408	5,407	5,457	5,223
Department of the Navy:					
Total.....	39,076	39,264	39,155	38,892	37,650
All scientists.....	9,082	9,303	9,126	9,274	9,140
Computer and mathematical sciences.....	5,338	5,545	5,438	5,463	5,334
Life sciences.....	225	242	264	306	346
Physical sciences.....	2,669	2,661	2,528	2,499	2,420
Social sciences.....	850	855	896	1,006	1,040
All engineers.....	29,994	29,961	30,029	29,618	28,510
Aerospace.....	1,499	1,523	1,530	1,500	1,466
Chemical.....	359	333	329	295	267
Civil.....	1,187	1,089	1,000	921	871
Electrical, electronics, and computer.....	13,067	13,384	13,606	13,595	13,118
Industrial.....	1,078	1,062	1,022	948	816
Mechanical.....	6,375	6,115	6,028	5,886	5,706
Other engineering.....	6,429	6,455	6,514	6,473	6,266

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

Table B-15. Federal scientists and engineers, by agency and major occupational group: 1989-93

Agency and major occupational group	1989	1990	1991	1992	1993
Department of the Air Force:					
Total.....	16,502	16,267	16,063	16,273	16,281
All scientists.....	4,516	4,605	4,579	4,935	5,068
Computer and mathematical sciences.....	2,686	2,700	2,578	2,682	2,720
Life sciences.....	196	201	221	257	310
Physical sciences.....	883	883	880	922	905
Social sciences.....	751	821	900	1,074	1,133
All engineers.....	11,986	11,662	11,484	11,338	11,213
Aerospace.....	1,675	1,595	1,602	1,550	1,487
Chemical.....	80	72	64	70	65
Civil.....	557	536	503	438	408
Electrical, electronics, and computer.....	5,564	5,642	5,617	5,646	5,713
Industrial.....	795	671	613	563	507
Mechanical.....	1,166	1,111	1,075	1,006	938
Other engineering.....	2,149	2,035	2,010	2,065	2,095
Other Defense Agencies:					
Total.....	3,659	4,147	4,529	4,856	4,932
All scientists.....	1,994	1,974	2,357	2,558	2,693
Computer and mathematical sciences.....	1,197	1,292	1,644	1,841	2,039
Life sciences.....	281	265	271	264	230
Physical sciences.....	404	330	338	349	331
Social sciences.....	112	87	104	104	93
All engineers.....	1,665	2,173	2,172	2,298	2,239
Aerospace.....	25	163	148	138	145
Chemical.....	11	11	12	12	11
Civil.....	30	35	35	35	30
Electrical, electronics, and computer.....	687	821	883	961	957
Industrial.....	281	432	381	367	331
Mechanical.....	181	185	187	191	195
Other engineering.....	450	526	526	594	570
Department of Energy:					
Total.....	3,838	4,106	4,809	5,302	5,132
All scientists.....	1,426	1,545	1,788	1,955	1,926
Computer and mathematical sciences.....	362	364	394	428	440
Life sciences.....	168	207	292	337	352
Physical sciences.....	653	736	848	925	885
Social sciences.....	243	238	254	265	249
All engineers.....	2,412	2,561	3,021	3,347	3,206
Aerospace.....	-	-	-	-	1
Chemical.....	124	101	102	100	89
Civil.....	272	272	296	319	302
Electrical, electronics, and computer.....	684	676	732	753	723
Industrial.....	29	36	38	60	59
Mechanical.....	139	134	187	200	172
Other engineering.....	1,164	1,342	1,666	1,915	1,860

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

Table B-15. Federal scientists and engineers, by agency and major occupational group: 1989-93

Agency and major occupational group	1989	1990	1991	1992	1993
Department of Health & Human Services:					
Total.....	8,121	8,734	9,244	9,683	9,614
All scientists.....	7,782	8,335	8,797	9,180	9,116
Computer and mathematical sciences.....	1,895	2,055	2,204	2,367	2,498
Life sciences.....	2,722	2,958	3,163	3,286	3,181
Physical sciences.....	2,087	2,202	2,272	2,285	2,187
Social sciences.....	1,078	1,120	1,158	1,242	1,250
All engineers.....	339	399	447	503	498
Aerospace.....	-	1	1	1	1
Chemical.....	15	17	19	19	17
Civil.....	11	12	12	15	19
Electrical, electronics, and computer.....	92	107	125	139	135
Industrial.....	15	15	20	22	24
Mechanical.....	57	62	66	76	82
Other engineering.....	149	185	204	231	220
Department of Housing & Urban Development:					
Total.....	390	395	431	457	440
All scientists.....	223	230	256	289	283
Computer and mathematical sciences.....	88	94	107	136	136
Life sciences.....	39	36	41	39	37
Physical sciences.....	-	-	-	-	-
Social sciences.....	96	100	108	114	110
All engineers.....	167	165	175	168	157
Aerospace.....	-	-	-	-	-
Chemical.....	-	-	-	-	-
Civil.....	20	20	19	19	19
Electrical, electronics, and computer.....	-	-	-	-	-
Industrial.....	-	-	2	2	1
Mechanical.....	5	5	6	5	5
Other engineering.....	142	140	148	142	132
Department of the Interior:					
Total.....	11846	12046	12502	13142	13450
All scientists.....	9152	9335	9775	10384	10681
Computer and mathematical sciences.....	601	628	672	744	780
Life sciences.....	3668	3848	4133	4577	4835
Physical sciences.....	4400	4369	4438	4498	4487
Social sciences.....	483	490	532	565	579
All engineers.....	2,694	2,711	2,727	2,758	2,769
Aerospace.....	1	1	1	1	1
Chemical.....	110	102	102	100	101
Civil.....	1,246	1,283	1,284	1,292	1,291
Electrical, electronics, and computer.....	292	309	310	318	314
Industrial.....	15	15	19	20	17
Mechanical.....	179	190	201	200	202
Other engineering.....	851	811	810	827	843

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

Table B-15. Federal scientists and engineers, by agency and major occupational group: 1989-93

Agency and major occupational group	1989	1990	1991	1992	1993
Department of Justice:					
Total.....	1,579	1,752	2,026	2,380	2,583
All scientists.....	1,513	1,682	1,946	2,292	2,494
Computer and mathematical sciences.....	332	363	437	465	506
Life sciences.....	3	2	3	5	4
Physical sciences.....	189	190	195	217	221
Social sciences.....	989	1,127	1,311	1,605	1,763
All engineers.....	66	70	80	88	89
Aerospace.....	-	-	-	-	-
Chemical.....	-	-	-	-	-
Civil.....	4	2	5	4	5
Electrical, electronics, and computer.....	41	44	48	53	54
Industrial.....	1	2	3	4	2
Mechanical.....	15	16	18	19	19
Other engineering.....	5	6	6	8	9
Department of Labor:					
Total.....	1,891	1,926	2,072	2,167	2,141
All scientists.....	1,617	1,648	1,801	1,898	1,879
Computer and mathematical sciences.....	342	343	371	386	410
Life sciences.....	-	-	-	-	-
Physical sciences.....	85	82	81	76	75
Social sciences.....	1,190	1,223	1,349	1,436	1,394
All engineers.....	274	278	271	269	262
Aerospace.....	-	-	-	-	-
Chemical.....	6	6	6	5	5
Civil.....	24	26	27	23	26
Electrical, electronics, and computer.....	50	50	48	48	44
Industrial.....	82	90	82	79	75
Mechanical.....	14	15	16	17	15
Other engineering.....	98	91	92	97	97
Department of State:					
Total.....	2,877	3,049	3,218	3,424	3,401
All scientists.....	2,682	2,849	3,015	3,211	3,192
Computer and mathematical sciences.....	119	145	156	160	103
Life sciences.....	1	-	-	-	-
Physical sciences.....	39	45	38	40	43
Social sciences.....	2,523	2,659	2,821	3,011	3,046
All engineers.....	195	200	203	213	209
Aerospace.....	-	-	-	-	-
Chemical.....	-	-	-	-	-
Civil.....	54	53	56	59	60
Electrical, electronics, and computer.....	132	137	134	138	134
Industrial.....	-	-	-	-	-
Mechanical.....	5	7	9	12	11
Other engineering.....	4	3	4	4	4

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

Table B-15. Federal scientists and engineers, by agency and major occupational group: 1989-93

Agency and major occupational group	1989	1990	1991	1992	1993
Department of Transportation:					
Total.....	4,580	4,763	5,101	5,403	5,462
All scientists.....	829	914	1,002	1,113	1,177
Computer and mathematical sciences.....	556	611	679	743	780
Life sciences.....	45	44	47	69	74
Physical sciences.....	62	63	60	66	65
Social sciences.....	166	196	216	235	258
All engineers.....	3,751	3,849	4,099	4,290	4,285
Aerospace.....	362	379	397	385	382
Chemical.....	12	8	6	5	5
Civil.....	1,422	1,427	1,486	1,511	1,449
Electrical, electronics, and computer.....	1,090	1,120	1,257	1,326	1,345
Industrial.....	27	26	30	26	25
Mechanical.....	145	153	170	185	181
Other engineering.....	693	736	753	852	898
Department of the Treasury:					
Total.....	2,516	2,664	3,103	3,320	3,461
All scientists.....	2,108	2,242	2,636	2,847	3,000
Computer and mathematical sciences.....	1,420	1,552	1,837	2,026	2,188
Life sciences.....	-	-	-	-	1
Physical sciences.....	180	183	209	202	199
Social sciences.....	508	507	590	619	612
All engineers.....	408	422	467	473	461
Aerospace.....	1	1	-	-	1
Chemical.....	2	6	6	7	7
Civil.....	4	4	3	4	3
Electrical, electronics, and computer.....	41	37	43	45	46
Industrial.....	37	40	40	37	35
Mechanical.....	42	44	44	42	44
Other engineering.....	281	290	331	338	325
Department of Veterans Affairs:					
Total.....	4,401	4,614	4,902	5,109	5,355
All scientists.....	3,615	3,830	4,096	4,291	4,508
Computer and mathematical sciences.....	570	621	668	725	769
Life sciences.....	587	596	614	630	632
Physical sciences.....	562	554	539	515	492
Social sciences.....	1,896	2,059	2,275	2,421	2,615

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

Table B-15. Federal scientists and engineers, by agency and major occupational group: 1989-93

Agency and major occupational group	1989	1990	1991	1992	1993
Department of Veterans Affairs (continued):					
All engineers.....	786	784	806	818	847
Aerospace.....	-	-	-	-	-
Chemical.....	-	-	-	-	-
Civil.....	20	18	15	18	16
Electrical, electronics, and computer.....	41	37	42	47	40
Industrial.....	32	23	28	28	33
Mechanical.....	34	31	34	31	36
Other engineering.....	659	675	687	694	722
Environmental Protection Agency:					
Total.....	6,503	7,223	7,810	7,887	8,061
All scientists.....	4,469	5,041	5,454	5,521	5,633
Computer and mathematical sciences.....	236	273	306	337	338
Life sciences.....	2,129	2,413	2,595	2,620	2,676
Physical sciences.....	2,029	2,278	2,468	2,475	2,530
Social sciences.....	75	77	85	89	89
All engineers.....	2,034	2,182	2,356	2,366	2,428
Aerospace.....	-	-	-	-	-
Chemical.....	178	182	173	181	169
Civil.....	6	7	7	9	6
Electrical, electronics, and computer.....	14	14	16	14	15
Industrial.....	4	2	2	2	3
Mechanical.....	80	89	108	108	105
Other engineering.....	1,752	1,888	2,050	2,052	2,130
General Services Administration:					
Total.....	741	827	924	922	978
All scientists.....	299	320	362	372	408
Computer and mathematical sciences.....	262	285	325	338	376
Life sciences.....	1	1	2	-	1
Physical sciences.....	34	33	32	31	28
Social sciences.....	2	1	3	3	3
All engineers.....	442	507	562	550	570
Aerospace.....	-	-	-	-	-
Chemical.....	2	1	2	1	2
Civil.....	73	103	123	114	125
Electrical, electronics, and computer.....	97	101	108	107	113
Industrial.....	24	27	30	32	31
Mechanical.....	119	137	149	143	138
Other engineering.....	127	138	150	153	161

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

Table B-15. Federal scientists and engineers, by agency and major occupational group: 1989-93

Agency and major occupational group	1989	1990	1991	1992	1993
National Aeronautics & Space Administration:					
Total.....	11,920	12,277	12,802	12,665	12,424
All scientists.....	1,508	1,521	1,560	1,542	1,490
Computer and mathematical sciences.....	490	481	481	460	420
Life sciences.....	53	56	62	65	66
Physical sciences.....	930	952	981	981	968
Social sciences.....	35	32	36	36	36
All engineers.....	10,412	10,756	11,242	11,123	10,934
Aerospace.....	4,128	4,222	4,382	4,341	4,215
Chemical.....	53	50	52	54	51
Civil.....	8	8	8	5	5
Electrical, electronics, and computer.....	2,918	3,021	3,233	3,207	3,141
Industrial.....	13	13	15	14	17
Mechanical.....	135	134	139	136	137
Other engineering.....	3,157	3,308	3,413	3,366	3,368
National Science Foundation:					
Total.....	377	389	362	364	328
All scientists.....	330	338	315	320	293
Computer and mathematical sciences.....	78	83	75	76	69
Life sciences.....	49	54	53	59	52
Physical sciences.....	119	132	119	118	105
Social sciences.....	84	69	68	67	67
All engineers.....	47	51	47	44	35
Aerospace.....	-	-	-	-	-
Chemical.....	3	4	5	4	3
Civil.....	6	5	6	6	5
Electrical, electronics, and computer.....	3	4	3	2	2
Industrial.....	1	1	1	1	-
Mechanical.....	5	3	2	3	3
Other engineering.....	29	34	30	28	22
Nuclear Regulatory Commission:					
Total.....	1,457	1,466	1,590	1,620	1,593
All scientists.....	405	422	439	457	446
Computer and mathematical sciences.....	43	43	48	49	46
Life sciences.....	1	1	1	1	-
Physical sciences.....	330	349	359	378	372
Social sciences.....	31	29	31	29	28
All engineers.....	1,052	1,044	1,151	1,163	1,147
Aerospace.....	-	-	-	-	-
Chemical.....	12	9	11	8	7
Civil.....	26	23	26	25	24
Electrical, electronics, and computer.....	36	35	51	49	50
Industrial.....	5	5	5	4	3
Mechanical.....	35	38	46	47	45
Other engineering.....	938	934	1,012	1,030	1,018

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

Table B-15. Federal scientists and engineers, by agency and major occupational group: 1989-93

Agency and major occupational group	1989	1990	1991	1992	1993
US International Development Cooperation Agency:					
Total.....	585	556	520	480	470
All scientists.....	532	517	484	446	443
Computer and mathematical sciences.....	40	42	40	38	40
Life sciences.....	223	203	188	175	162
Physical sciences.....	15	15	13	12	11
Social sciences.....	254	257	243	221	230
All engineers.....	53	39	36	34	27
Aerospace.....	-	-	-	-	-
Chemical.....	-	-	-	-	-
Civil.....	6	4	3	3	1
Electrical, electronics, and computer.....	1	1	1	1	-
Industrial.....	1	1	1	1	-
Mechanical.....	-	-	1	-	-
Other engineering.....	45	33	30	29	26
All other agencies:					
Total.....	3,164	3,239	3,481	3,582	3,322
All scientists.....	2,552	2,615	2,830	2,880	2,650
Computer and mathematical sciences.....	871	911	1,135	1,173	1,110
Life sciences.....	146	149	148	161	155
Physical sciences.....	181	183	160	161	161
Social sciences.....	1,354	1,372	1,387	1,385	1,224
All engineers.....	612	624	651	702	672
Aerospace.....	10	13	13	16	17
Chemical.....	3	3	2	2	2
Civil.....	63	64	65	76	70
Electrical, electronics, and computer.....	344	345	369	374	357
Industrial.....	14	14	14	13	12
Mechanical.....	25	25	24	30	33
Other engineering.....	153	160	164	191	181

KEY: "-" = Zero

SOURCE: National Science Foundation tabulations from Office of Personnel Management's Central Personnel Data Files