

**Table 2J. Federal obligations for basic research, by detailed field of science
& engineering: Environmental Protection Agency,
fiscal years 1970-2003**

[Dollars in thousands]

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Field of science & engineering	1970	1971	1972	1973	1974	1975	1976
Total, all fields	5,450	6,100	6,118	9,030	9,500	17,400	13,700
Life sciences, total	2,254	3,520	3,458	4,605	4,992	10,600	8,220
Biol & agricultural, total	1,471	2,870	2,905	3,855	4,872	9,900	8,220
Biol (excl environmental)	NA	NA	NA	NA	NA	NA	NA
Environmental biology	NA	NA	NA	NA	NA	NA	NA
Agricultural	NA	NA	NA	NA	NA	NA	NA
Medical sciences, total	783	650	553	750	120	700	0
Clinical medical	0	0	0	0	0	0	0
Other medical	783	650	553	750	120	700	0
Life sciences, n.e.c.	0	0	0	0	0	0	0
Psychology, total	0	0	0	0	0	0	0
Biological aspects	0	0	0	0	0	0	0
Social aspects	0	0	0	0	0	0	0
Psychological sciences, n.e.c.	0	0	0	0	0	0	0
Physical sciences, total	2,501	2,075	2,140	3,800	3,858	5,100	4,084
Astronomy	0	0	0	0	0	0	0
Chemistry	1,572	1,400	1,540	3,200	3,458	4,200	3,757
Physics	929	675	600	600	400	900	327
Physical sciences, n.e.c.	0	0	0	0	0	0	0
Environmental sciences, total	561	350	370	325	390	1,300	1,096
Atmospheric sciences	452	350	270	275	320	600	110
Geological sciences	0	0	0	0	0	700	986
Oceanography	0	0	100	50	70	0	0
Environmental sciences, n.e.c.	109	0	0	0	0	0	0
Math & computer sciences, total	0	0	0	0	0	0	0
Mathematics	NA	NA	NA	NA	NA	NA	0
Computer sciences	NA	NA	NA	NA	NA	NA	0
Math & computer sciences, n.e.c.	NA	NA	NA	NA	NA	NA	0
Engineering, total	132	155	150	300	260	400	300
Aeronautical	0	0	0	0	0	0	0
Astronautical	82	75	60	0	0	0	0
Chemical	0	0	35	300	260	400	300
Civil	0	0	0	0	0	0	0
Electrical	0	0	0	0	0	0	0
Mechanical	50	80	55	0	0	0	0
Metallurgy & materials	0	0	0	0	0	0	0
Engineering, n.e.c.	0	0	0	0	0	0	0
Social sciences, total	2	0	0	0	0	0	0
Anthropology	0	0	0	0	0	0	0
Economics	2	0	0	0	0	0	0
Political science	0	0	0	0	0	0	0
Sociology	0	0	0	0	0	0	0
Social sciences, n.e.c.	0	0	0	0	0	0	0
History	0	0	0	0	0	0	NA
Linguistics	0	0	0	0	0	0	NA
Other social sciences	0	0	0	0	0	0	NA
Other sciences, n.e.c.	0	0	0	0	0	0	0

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

**Table 2J. Federal obligations for basic research, by detailed field of science
& engineering: Environmental Protection Agency,
fiscal years 1970-2003**

[Dollars in thousands]

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Field of science & engineering	1977	1978	1979	1980	1981	1982	1983
Total, all fields	8,296	6,010	10,100	13,600	10,500	32,687	22,217
Life sciences, total	6,074	4,022	7,144	9,025	5,063	10,042	7,780
Biol & agricultural, total	6,074	4,022	7,144	9,025	5,063	9,291	7,290
Biol (excl environmental)	NA	0	0	0	0	5,686	4,417
Environmental biology	NA	4,022	7,144	7,283	5,063	3,367	2,648
Agricultural	NA	0	0	1,742	0	238	225
Medical sciences, total	0	0	0	0	0	751	490
Clinical medical	0	NA	NA	NA	NA	NA	NA
Other medical	0	NA	NA	NA	NA	NA	NA
Life sciences, n.e.c.	0	0	0	0	0	0	0
Psychology, total	0	0	0	0	0	61	58
Biological aspects	0	0	0	0	0	0	0
Social aspects	0	0	0	0	0	61	58
Psychological sciences, n.e.c.	0	0	0	0	0	0	0
Physical sciences, total	1,461	1,683	1,784	2,259	2,908	3,778	2,255
Astronomy	0	0	0	0	0	0	0
Chemistry	1,051	1,346	1,784	2,259	2,908	3,535	1,938
Physics	410	337	0	0	0	243	317
Physical sciences, n.e.c.	0	0	0	0	0	0	0
Environmental sciences, total	761	305	1,172	2,316	2,529	5,189	4,092
Atmospheric sciences	350	305	1,172	1,077	1,362	3,922	3,291
Geological sciences	411	0	0	1,039	894	626	309
Oceanography	0	0	0	200	273	641	492
Environmental sciences, n.e.c.	0	0	0	0	0	0	0
Math & computer sciences, total	0	0	0	0	0	361	257
Mathematics	0	0	0	0	0	194	126
Computer sciences	0	0	0	0	0	167	131
Math & computer sciences, n.e.c.	0	0	0	0	0	0	0
Engineering, total	0	0	0	0	0	10,320	5,912
Aeronautical	0	0	0	0	0	0	0
Astronautical	0	0	0	0	0	0	0
Chemical	0	0	0	0	0	4,366	2,631
Civil	0	0	0	0	0	5,035	2,655
Electrical	0	0	0	0	0	141	1
Mechanical	0	0	0	0	0	292	220
Metallurgy & materials	0	0	0	0	0	260	263
Engineering, n.e.c.	0	0	0	0	0	226	142
Social sciences, total	0	0	0	0	0	2,319	1,850
Anthropology	0	0	0	0	0	0	0
Economics	0	0	0	0	0	1,963	1,560
Political science	0	0	0	0	0	178	142
Sociology	0	0	0	0	0	178	148
Social sciences, n.e.c.	0	0	0	0	0	0	0
History	NA	NA	NA	NA	NA	NA	NA
Linguistics	NA	NA	NA	NA	NA	NA	NA
Other social sciences	NA	NA	NA	NA	NA	NA	NA
Other sciences, n.e.c.	0	0	0	0	0	617	13

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

**Table 2J. Federal obligations for basic research, by detailed field of science
& engineering: Environmental Protection Agency,
fiscal years 1970-2003**

[Dollars in thousands]

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Field of science & engineering	1984	1985	1986	1987	1988	1989	1990
Total, all fields	29,625	38,634	38,489	31,075	27,196	50,711	73,632
Life sciences, total	9,346	14,944	15,487	12,058	10,605	21,200	30,132
Biol & agricultural, total	8,897	13,922	14,230	7,628	7,522	17,772	25,260
Biol (excl environmental)	4,387	6,937	7,315	1,108	2,091	7,514	11,967
Environmental biology	4,116	6,519	6,725	4,262	3,820	8,480	9,880
Agricultural	394	466	190	2,258	1,611	1,778	3,413
Medical sciences, total	449	1,022	1,257	4,430	3,083	3,428	4,872
Clinical medical	NA	NA	NA	NA	NA	NA	NA
Other medical	NA	NA	NA	NA	NA	NA	NA
Life sciences, n.e.c.	0	0	0	0	0	0	0
Psychology, total	0	24	0	0	0	0	0
Biological aspects	0	24	0	0	0	0	0
Social aspects	0	0	0	0	0	0	0
Psychological sciences, n.e.c.	0	0	0	0	0	0	0
Physical sciences, total	2,979	3,534	4,668	5,381	3,687	6,453	11,199
Astronomy	0	0	0	0	0	0	0
Chemistry	2,979	2,973	4,312	4,273	2,916	5,596	9,633
Physics	0	561	356	1,108	771	857	1,566
Physical sciences, n.e.c.	0	0	0	0	0	0	0
Environmental sciences, total	10,889	6,444	9,739	3,527	5,977	8,956	15,745
Atmospheric sciences	5,689	4,993	7,090	3,398	5,848	8,736	13,122
Geological sciences	5,200	327	2,540	129	129	220	1,690
Oceanography	0	1,124	109	0	0	0	933
Environmental sciences, n.e.c.	0	0	0	0	0	0	0
Math & computer sciences, total	0	794	0	0	0	0	156
Mathematics	0	374	0	0	0	0	0
Computer sciences	0	420	0	0	0	0	156
Math & computer sciences, n.e.c.	0	0	0	0	0	0	0
Engineering, total	6,411	8,325	8,595	9,409	6,927	14,102	16,181
Aeronautical	0	0	0	0	0	0	0
Astronautical	0	0	0	0	0	0	0
Chemical	2,859	3,882	4,274	4,610	3,064	2,301	3,628
Civil	3,552	3,656	3,757	4,585	3,092	2,242	3,053
Electrical	0	2	0	0	0	0	0
Mechanical	0	332	0	0	0	0	213
Metallurgy & materials	0	104	0	0	0	0	156
Engineering, n.e.c.	0	349	564	214	771	9,559	9,131
Social sciences, total	0	4,541	0	0	0	0	219
Anthropology	0	0	0	0	0	0	0
Economics	0	3,843	0	0	0	0	0
Political science	0	349	0	0	0	0	219
Sociology	0	349	0	0	0	0	0
Social sciences, n.e.c.	0	0	0	0	0	0	0
History	NA	NA	NA	NA	NA	NA	NA
Linguistics	NA	NA	NA	NA	NA	NA	NA
Other social sciences	NA	NA	NA	NA	NA	NA	NA
Other sciences, n.e.c.	0	28	0	700	0	0	0

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

**Table 2J. Federal obligations for basic research, by detailed field of science
& engineering: Environmental Protection Agency,
fiscal years 1970-2003**

[Dollars in thousands]

Field of science & engineering	1991	1992	1993	1994	1995	1996	1997
Total, all fields	91,224	110,400	89,149	101,360	70,297	51,700	51,133
Life sciences, total	38,741	43,600	23,384	25,646	19,434	14,293	14,136
Biol & agricultural, total	33,621	36,800	19,160	21,014	15,748	11,582	11,455
Biol (excl environmental)	26,783	28,000	0	0	0	0	0
Environmental biology	4,278	6,000	19,160	21,014	15,748	11,582	11,455
Agricultural	2,560	2,800	0	0	0	0	0
Medical sciences, total	5,120	6,800	4,224	4,632	3,686	2,711	2,681
Clinical medical	NA	NA	NA	NA	NA	NA	NA
Other medical	NA	NA	NA	NA	NA	NA	NA
Life sciences, n.e.c.	0	0	0	0	0	0	0
Psychology, total	144	215	0	0	0	0	0
Biological aspects	0	0	0	0	0	0	0
Social aspects	144	0	0	0	0	0	0
Psychological sciences, n.e.c.	0	215	0	0	0	0	0
Physical sciences, total	14,815	19,958	0	0	0	0	0
Astronomy	0	0	0	0	0	0	0
Chemistry	13,531	18,560	0	0	0	0	0
Physics	1,284	1,398	0	0	0	0	0
Physical sciences, n.e.c.	0	0	0	0	0	0	0
Environmental sciences, total	14,094	16,632	56,090	61,608	30,083	22,124	21,881
Atmospheric sciences	14,094	16,632	25,014	27,437	14,029	10,317	10,204
Geological sciences	0	0	3,457	3,792	1,958	1,440	1,424
Oceanography	0	0	114	126	0	0	0
Environmental sciences, n.e.c.	0	0	27,505	30,253	14,096	10,367	10,253
Math & computer sciences, total	3,707	4,935	0	0	0	0	0
Mathematics	0	0	0	0	0	0	0
Computer sciences	3,707	4,935	0	0	0	0	0
Math & computer sciences, n.e.c.	0	0	0	0	0	0	0
Engineering, total	19,723	25,060	9,668	14,106	20,780	15,283	15,116
Aeronautical	0	0	0	0	0	0	0
Astronautical	0	0	0	0	0	0	0
Chemical	9,771	12,500	606	665	458	337	333
Civil	8,668	11,060	0	0	0	0	0
Electrical	0	0	0	0	0	0	0
Mechanical	0	0	0	0	0	0	0
Metallurgy & materials	0	0	0	0	0	0	0
Engineering, n.e.c.	1,284	1,500	9,062	13,441	20,322	14,946	14,783
Social sciences, total	0	0	0	0	0	0	0
Anthropology	0	0	0	0	0	0	0
Economics	0	0	0	0	0	0	0
Political science	0	0	0	0	0	0	0
Sociology	0	0	0	0	0	0	0
Social sciences, n.e.c.	0	0	0	0	0	0	0
History	NA	NA	NA	NA	NA	NA	NA
Linguistics	NA	NA	NA	NA	NA	NA	NA
Other social sciences	NA	NA	NA	NA	NA	NA	NA
Other sciences, n.e.c.	0	0	7	0	0	0	0

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

Table 2J. Federal obligations for basic research, by detailed field of science & engineering: Environmental Protection Agency, fiscal years 1970-2003

[Dollars in thousands]

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Field of science & engineering	1998	1999	2000	2001	Preliminary	
					2002	2003
Total, all fields	57,400	56,988	58,590	74,525	106,800	116,255
Life sciences, total	15,869	38,547	36,996	46,883	69,871	75,193
Biol & agricultural, total	12,859	38,453	36,900	41,333	NA	NA
Biol (excl environmental)	0	19,151	19,257	25,667	NA	NA
Environmental biology	12,859	19,255	17,643	15,666	NA	NA
Agricultural	0	47	0	0	NA	NA
Medical sciences, total	3,010	94	96	121	NA	NA
Clinical medical	NA	NA	NA	NA	NA	NA
Other medical	NA	NA	NA	NA	NA	NA
Life sciences, n.e.c.	0	0	0	5,429	NA	NA
Psychology, total	0	0	0	0	0	0
Biological aspects	0	0	0	0	NA	NA
Social aspects	0	0	0	0	NA	NA
Psychological sciences, n.e.c.	0	0	0	0	NA	NA
Physical sciences, total	0	2,645	2,351	3,211	3,723	3,793
Astronomy	0	0	0	0	NA	NA
Chemistry	0	2,645	2,351	3,211	NA	NA
Physics	0	0	0	0	NA	NA
Physical sciences, n.e.c.	0	0	0	0	NA	NA
Environmental sciences, total	24,564	12,710	12,458	16,620	24,187	25,562
Atmospheric sciences	11,455	0	0	0	NA	NA
Geological sciences	1,599	1,659	1,755	1,930	NA	NA
Oceanography	0	7,370	7,563	8,697	NA	NA
Environmental sciences, n.e.c.	11,510	3,681	3,140	5,993	NA	NA
Math & computer sciences, total	0	993	1,019	2,281	1,167	1,377
Mathematics	0	890	913	836	NA	NA
Computer sciences	0	0	0	1,331	NA	NA
Math & computer sciences, n.e.c.	0	103	106	114	NA	NA
Engineering, total	16,967	2,093	2,450	2,679	2,869	4,622
Aeronautical	0	0	0	0	NA	NA
Astronautical	0	0	0	0	NA	NA
Chemical	374	572	1,422	1,678	NA	NA
Civil	0	0	0	0	NA	NA
Electrical	0	0	0	0	NA	NA
Mechanical	0	0	0	0	NA	NA
Metallurgy & materials	0	0	0	0	NA	NA
Engineering, n.e.c.	16,593	1,521	1,028	1,001	NA	NA
Social sciences, total	0	0	0	653	0	0
Anthropology	0	0	0	0	NA	NA
Economics	0	0	0	0	NA	NA
Political science	0	0	0	0	NA	NA
Sociology	0	0	0	0	NA	NA
Social sciences, n.e.c.	0	0	0	653	NA	NA
History	NA	NA	NA	NA	NA	NA
Linguistics	NA	NA	NA	NA	NA	NA
Other social sciences	NA	NA	NA	NA	NA	NA
Other sciences, n.e.c.	0	0	3,316	2,198	4,983	5,708

KEY: NA = Not applicable (indicates that the data collected for this table were not recorded at that level in that particular fiscal year, or that the agency or subagency did not exist as such or in that organization in that year)
n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: Fiscal Years 2001, 2002, and 2003