

**Table 2I. Federal obligations for basic research, by detailed field of science  
& engineering: Department of the Interior,  
fiscal years 1970-2003**

[Dollars in thousands]

Page 1 of 5

Field of science & engineering	1970	1971	1972	1973	1974	1975	1976
Total, all fields .....	39,485	41,711	43,052	48,741	48,681	54,944	54,330
Life sciences, total .....	8,886	9,585	8,852	9,805	11,508	10,974	9,709
Biol & agricultural, total .....	8,882	9,581	8,836	9,789	11,493	10,955	9,693
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 .....	0	0	0	11	10	13	10
Clinical medical .....	0	0	0	0	0	0	0
Other medical .....	0	0	0	11	10	13	10
Life sciences, n.e.c. ....	4	4	16	5	5	6	6
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 .....	8,218	8,032	10,601	9,493	7,851	3,893	3,869
Astronomy .....	0	0	0	0	0	0	0
Chemistry .....	7,417	7,204	7,613	6,646	4,975	3,012	3,310
Physics .....	801	828	2,988	2,847	2,876	881	559
Physical sciences, n.e.c. ....	0	0	0	0	0	0	0
Environmental sciences, total .....	19,305	19,843	20,430	26,546	25,724	37,703	37,762
Atmospheric sciences .....	40	46	96	118	113	146	116
Geological sciences .....	17,562	18,060	18,311	23,861	22,977	31,422	30,899
Oceanography .....	1,689	1,723	1,789	2,310	2,388	5,801	6,399
Environmental sciences, n.e.c. ....	14	14	234	257	246	334	348
Math & computer sciences, total .....	372	284	327	285	322	382	401
Mathematics .....	NA	NA	NA	NA	NA	NA	58
Computer sciences .....	NA	NA	NA	NA	NA	NA	329
Math & computer sciences, n.e.c. ....	NA	NA	NA	NA	NA	NA	14
Engineering, total .....	2,313	2,848	1,035	1,249	1,780	1,285	1,810
Aeronautical .....	0	0	0	0	0	0	0
Astronautical .....	0	0	0	0	0	0	0
Chemical .....	82	93	61	143	225	10	8
Civil .....	248	283	363	358	351	376	834
Electrical .....	30	30	48	36	59	46	71
Mechanical .....	20	21	5	0	0	0	695
Metallurgy & materials .....	1,783	2,248	500	584	1,071	757	125
Engineering, n.e.c. ....	150	173	58	128	74	96	77
Social sciences, total .....	350	1,075	1,444	1,227	1,365	611	532
Anthropology .....	0	704	892	803	957	54	57
Economics .....	225	226	248	163	157	203	160
Political science .....	45	51	88	147	142	182	145
Sociology .....	45	51	81	64	61	109	120
Social sciences, n.e.c. ....	35	43	135	50	48	63	50
History .....	0	0	13	0	0	0	NA
Linguistics .....	0	0	0	0	0	0	NA
Other social sciences .....	35	43	122	50	48	63	NA
Other sciences, n.e.c. ....	41	44	363	136	131	96	247

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

**Table 2I. Federal obligations for basic research, by detailed field of science  
& engineering: Department of the Interior,  
fiscal years 1970-2003**

[Dollars in thousands]

Page 2 of 5

Field of science & engineering	1977	1978	1979	1980	1981	1982	1983
Total, all fields .....	63,579	65,876	72,522	71,634	80,663	76,454	103,033
Life sciences, total .....	13,472	5,100	4,300	4,651	5,868	4,697	6,900
Biol & agricultural, total .....	13,456	5,070	4,270	4,599	5,868	4,697	6,900
Biol (excl environmental) .....	NA	5,070	4,270	4,599	3,958	4,122	6,900
Environmental biology .....	NA	0	0	0	800	190	0
Agricultural .....	NA	0	0	0	1,110	385	0
Medical sciences, total .....	8	15	15	26	0	0	0
Clinical medical .....	0	NA	NA	NA	NA	NA	NA
Other medical .....	8	NA	NA	NA	NA	NA	NA
Life sciences, n.e.c. ....	8	15	15	26	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 .....	5,831	7,882	9,131	7,524	10,080	8,080	2,920
Astronomy .....	0	0	0	0	0	0	0
Chemistry .....	4,407	5,869	6,496	5,323	6,750	2,490	1,760
Physics .....	624	613	935	1,001	1,130	1,090	880
Physical sciences, n.e.c. ....	800	1,400	1,700	1,200	2,200	4,500	280
Environmental sciences, total .....	38,620	45,113	48,596	48,800	53,666	49,928	68,339
Atmospheric sciences .....	88	150	150	214	30	0	0
Geological sciences .....	32,023	38,861	45,837	44,558	49,803	47,151	50,536
Oceanography .....	5,689	4,814	1,651	2,285	2,640	2,364	10,840
Environmental sciences, n.e.c. ....	820	1,288	958	1,743	1,193	413	6,963
Math & computer sciences, total .....	878	1,417	2,115	1,865	2,507	1,249	1,018
Mathematics .....	470	800	986	686	1,200	93	88
Computer sciences .....	397	577	1,089	1,120	1,007	946	930
Math & computer sciences, n.e.c. ....	11	40	40	59	300	210	0
Engineering, total .....	4,282	5,536	6,965	6,892	7,488	12,162	23,578
Aeronautical .....	0	0	0	0	0	0	0
Astronautical .....	0	0	0	0	0	0	0
Chemical .....	72	200	100	287	0	120	0
Civil .....	474	539	500	596	1,365	602	66
Electrical .....	341	493	500	401	973	58	33
Mechanical .....	2,493	1,004	400	300	500	160	0
Metallurgy & materials .....	308	2,405	4,520	4,229	4,150	4,894	9,225
Engineering, n.e.c. ....	594	895	945	1,079	500	6,328	14,254
Social sciences, total .....	328	500	1,130	1,417	1,054	338	278
Anthropology .....	4	0	0	0	0	0	0
Economics .....	124	200	830	986	424	338	278
Political science .....	108	200	200	287	0	0	0
Sociology .....	44	50	50	72	0	0	0
Social sciences, n.e.c. ....	48	50	50	72	630	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. ....	168	328	285	485	0	0	0

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

**Table 2I. Federal obligations for basic research, by detailed field of science  
& engineering: Department of the Interior,  
fiscal years 1970-2003**

[Dollars in thousands]

Page 3 of 5

Field of science & engineering	1984	1985	1986	1987	1988	1989	1990
Total, all fields .....	125,921	138,274	132,986	134,874	126,464	188,907	205,431
Life sciences, total .....	6,113	5,700	3,600	4,300	4,800	4,800	5,600
Biol & agricultural, total .....	6,113	5,700	3,600	4,300	4,800	4,800	5,600
Biol (excl environmental) .....	3,741	3,500	2,189	2,900	3,396	3,744	3,900
Environmental biology .....	2,372	2,200	1,411	1,400	1,404	1,056	1,700
Agricultural .....	0	0	0	0	0	0	0
Medical sciences, total .....	0	0	0	0	0	0	0
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	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 .....	7,059	7,584	7,946	7,648	8,132	9,467	10,239
Astronomy .....	0	0	0	0	0	0	0
Chemistry .....	5,611	6,028	6,316	6,079	6,464	7,525	8,139
Physics .....	1,448	1,556	1,630	1,569	1,668	1,942	2,100
Physical sciences, n.e.c. ....	0	0	0	0	0	0	0
Environmental sciences, total .....	70,479	73,074	74,562	77,486	82,227	131,442	151,605
Atmospheric sciences .....	0	0	0	0	0	0	0
Geological sciences .....	53,585	57,973	60,679	62,919	67,019	113,532	132,296
Oceanography .....	16,803	13,231	12,921	13,054	13,732	15,887	15,870
Environmental sciences, n.e.c. ....	91	1,870	962	1,513	1,476	2,023	3,439
Math & computer sciences, total .....	1,629	1,750	1,833	1,765	1,877	2,185	2,363
Mathematics .....	362	389	407	392	417	485	525
Computer sciences .....	1,267	1,361	1,426	1,373	1,460	1,700	1,838
Math & computer sciences, n.e.c. ....	0	0	0	0	0	0	0
Engineering, total .....	40,641	50,166	45,045	43,675	29,428	41,013	35,624
Aeronautical .....	0	0	0	0	0	0	0
Astronautical .....	0	0	0	0	0	0	0
Chemical .....	0	0	0	0	0	0	0
Civil .....	110	170	100	100	100	0	100
Electrical .....	35	130	0	0	0	0	0
Mechanical .....	0	0	0	0	0	0	0
Metallurgy & materials .....	18,766	24,113	21,488	17,658	13,249	12,036	13,519
Engineering, n.e.c. ....	21,730	25,753	23,457	25,917	16,079	28,977	22,005
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	0	0	0	0	0

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

**Table 2I. Federal obligations for basic research, by detailed field of science  
& engineering: Department of the Interior,  
fiscal years 1970-2003**

[Dollars in thousands]

Page 4 of 5

Field of science & engineering	1991	1992	1993	1994	1995	1996	1997
Total, all fields .....	229,294	230,920	230,259	83,222	55,179	56,038	56,442
Life sciences, total .....	6,400	6,600	6,578	13,666	13,000	10,947	10,999
Biol & agricultural, total .....	6,400	6,600	6,578	13,666	13,000	10,947	10,999
Biol (excl environmental) .....	4,340	3,968	3,954	7,243	6,890	5,802	5,829
Environmental biology .....	1,960	2,532	2,524	6,423	6,110	5,145	5,170
Agricultural .....	100	100	100	0	0	0	0
Medical sciences, total .....	0	0	0	0	0	0	0
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	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 .....	12,817	5,453	5,803	670	530	500	500
Astronomy .....	0	0	0	0	0	0	0
Chemistry .....	10,187	5,453	5,803	670	530	500	500
Physics .....	2,630	0	0	0	0	0	0
Physical sciences, n.e.c. ....	0	0	0	0	0	0	0
Environmental sciences, total .....	169,182	176,800	174,754	45,498	41,649	44,591	44,943
Atmospheric sciences .....	1,029	700	700	0	0	0	0
Geological sciences .....	145,530	149,285	153,641	45,396	41,649	44,591	44,943
Oceanography .....	16,381	24,956	19,600	0	0	0	0
Environmental sciences, n.e.c. ....	6,242	1,859	813	102	0	0	0
Math & computer sciences, total .....	3,857	1,862	1,738	0	0	0	0
Mathematics .....	957	1,262	1,213	0	0	0	0
Computer sciences .....	2,900	600	525	0	0	0	0
Math & computer sciences, n.e.c. ....	0	0	0	0	0	0	0
Engineering, total .....	36,738	39,905	41,086	23,388	0	0	0
Aeronautical .....	0	0	0	0	0	0	0
Astronautical .....	0	0	0	0	0	0	0
Chemical .....	0	0	0	0	0	0	0
Civil .....	100	0	0	0	0	0	0
Electrical .....	0	0	0	0	0	0	0
Mechanical .....	0	0	0	0	0	0	0
Metallurgy & materials .....	10,022	13,105	6,549	23,388	0	0	0
Engineering, n.e.c. ....	26,616	26,800	34,537	0	0	0	0
Social sciences, total .....	300	300	300	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. ....	300	300	300	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	0	0

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

**Table 21. Federal obligations for basic research, by detailed field of science & engineering: Department of the Interior, fiscal years 1970-2003**

[Dollars in thousands]

Field of science & engineering	1998	1999	2000	2001	Preliminary	
					2002	2003
Total, all fields .....	48,733	59,136	51,822	61,808	63,894	57,761
Life sciences, total .....	9,415	13,021	10,952	14,089	14,559	10,406
Biol & agricultural, total .....	9,415	13,021	10,952	14,074	NA	NA
Biol (excl environmental) .....	4,990	6,901	5,804	7,613	NA	NA
Environmental biology .....	4,425	6,120	5,148	6,375	NA	NA
Agricultural .....	0	0	0	86	NA	NA
Medical sciences, total .....	0	0	0	0	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	15	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 .....	546	500	0	0	0	0
Astronomy .....	0	0	0	0	NA	NA
Chemistry .....	0	500	0	0	NA	NA
Physics .....	0	0	0	0	NA	NA
Physical sciences, n.e.c. ....	546	0	0	0	NA	NA
Environmental sciences, total .....	38,772	45,615	40,870	44,395	45,895	43,915
Atmospheric sciences .....	0	0	500	0	NA	NA
Geological sciences .....	38,772	45,615	40,370	44,162	NA	NA
Oceanography .....	0	0	0	0	NA	NA
Environmental sciences, n.e.c. ....	0	0	0	233	NA	NA
Math & computer sciences, total .....	0	0	0	1,885	1,958	1,958
Mathematics .....	0	0	0	385	NA	NA
Computer sciences .....	0	0	0	1,500	NA	NA
Math & computer sciences, n.e.c. ....	0	0	0	0	NA	NA
Engineering, total .....	0	0	0	510	533	533
Aeronautical .....	0	0	0	0	NA	NA
Astronautical .....	0	0	0	0	NA	NA
Chemical .....	0	0	0	0	NA	NA
Civil .....	0	0	0	424	NA	NA
Electrical .....	0	0	0	86	NA	NA
Mechanical .....	0	0	0	0	NA	NA
Metallurgy & materials .....	0	0	0	0	NA	NA
Engineering, n.e.c. ....	0	0	0	0	NA	NA
Social sciences, total .....	0	0	0	929	949	949
Anthropology .....	0	0	0	0	NA	NA
Economics .....	0	0	0	80	NA	NA
Political science .....	0	0	0	0	NA	NA
Sociology .....	0	0	0	310	NA	NA
Social sciences, n.e.c. ....	0	0	0	539	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	0	0	0	0

**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