

**Table 1F. Federal obligations for total research, by detailed field of science
& engineering: Department of Health & Human Services,
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	1,007,861	1,169,146	1,395,980	1,421,433	1,830,711	1,914,946	2,117,470
Life sciences, total	833,856	968,663	1,159,573	1,181,278	1,521,078	1,618,442	1,775,180
Biol & agricultural, total	391,951	455,158	544,396	568,008	747,537	778,739	864,765
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	422,978	491,518	588,893	585,754	738,152	790,638	861,609
Clinical medical	266,946	303,477	365,576	365,986	433,355	439,464	476,217
Other medical	156,032	188,041	223,317	219,768	304,797	351,174	385,392
Life sciences, n.e.c.	18,927	21,987	26,284	27,516	35,389	49,065	48,806
Psychology, total	44,637	53,927	60,320	53,253	77,434	61,240	70,604
Biological aspects	15,727	17,769	19,894	17,353	34,565	21,818	27,140
Social aspects	20,119	23,945	27,018	23,022	25,897	19,834	23,325
Psychological sciences, n.e.c.	8,791	12,213	13,408	12,878	16,972	19,588	20,139
Physical sciences, total	27,120	29,508	29,501	30,156	46,696	41,490	45,160
Astronomy	0	0	0	0	0	0	0
Chemistry	25,091	6,089	26,522	27,212	42,824	37,319	40,564
Physics	2,029	21,044	2,979	2,944	3,872	4,171	4,596
Physical sciences, n.e.c.	0	2,375	0	0	0	0	0
Environmental sciences, total	0	0	0	0	0	0	0
Atmospheric sciences	0	0	0	0	0	0	0
Geological sciences	0	0	0	0	0	0	0
Oceanography	0	0	0	0	0	0	0
Environmental sciences, n.e.c.	0	0	0	0	0	0	0
Math & computer sciences, total	3,441	5,148	5,853	5,594	7,903	8,114	8,350
Mathematics	NA	NA	NA	NA	NA	NA	8,350
Computer sciences	NA	NA	NA	NA	NA	NA	0
Math & computer sciences, n.e.c.	NA	NA	NA	NA	NA	NA	0
Engineering, total	12,431	14,891	19,911	22,195	27,474	26,384	28,959
Aeronautical	0	0	0	0	0	0	0
Astronautical	0	0	0	0	0	0	0
Chemical	0	0	29	989	1,441	0	0
Civil	0	31	0	0	0	0	0
Electrical	87	0	303	5	122	0	0
Mechanical	0	0	1,305	183	490	0	0
Metallurgy & materials	0	0	0	105	0	0	0
Engineering, n.e.c.	12,344	14,860	18,274	20,913	25,421	26,384	28,959
Social sciences, total	61,540	67,851	84,676	89,504	98,900	99,192	127,620
Anthropology	2,244	3,649	4,642	2,611	4,520	4,299	3,811
Economics	5,098	4,933	5,700	3,600	24,502	23,368	17,931
Political science	511	525	806	650	645	1,368	551
Sociology	18,979	26,779	45,463	53,117	38,534	28,449	29,579
Social sciences, n.e.c.	34,708	31,965	28,065	29,526	30,699	41,708	75,748
History	0	21	47	35	220	572	NA
Linguistics	0	1,871	2,831	2,477	1,475	1,143	NA
Other social sciences	34,708	30,073	25,187	27,014	29,004	39,993	NA
Other sciences, n.e.c.	24,836	29,158	36,146	39,453	51,226	60,084	61,597

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

**Table 1F. Federal obligations for total research, by detailed field of science
& engineering: Department of Health & Human Services,
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	2,374,231	2,691,474	3,015,669	3,332,777	3,492,241	3,605,584	4,020,846
Life sciences, total	1,980,810	2,262,801	2,517,063	2,786,996	2,949,142	3,107,039	3,479,120
Biol & agricultural, total	965,402	1,116,522	1,305,557	1,422,930	1,539,188	1,589,132	1,816,475
Biol (excl environmental)	NA	1,116,522	1,305,557	1,422,835	1,539,070	1,588,894	1,816,122
Environmental biology	NA	0	0	95	118	238	353
Agricultural	NA	0	0	0	0	0	0
Medical sciences, total	953,629	1,078,523	1,124,142	1,266,290	1,324,290	1,427,458	1,546,910
Clinical medical	518,540	NA	NA	NA	NA	NA	NA
Other medical	435,089	NA	NA	NA	NA	NA	NA
Life sciences, n.e.c.	61,779	67,756	87,364	97,776	85,664	90,449	115,735
Psychology, total	70,405	85,328	104,699	101,566	110,163	111,776	125,802
Biological aspects	27,594	34,409	35,427	41,186	41,986	46,536	47,065
Social aspects	19,960	25,331	28,157	28,454	23,417	23,112	25,677
Psychological sciences, n.e.c.	22,851	25,588	41,115	31,926	44,760	42,128	53,060
Physical sciences, total	51,165	58,311	69,797	79,781	78,306	70,757	84,372
Astronomy	0	0	0	0	0	0	0
Chemistry	46,047	52,472	62,760	69,908	70,070	63,291	74,243
Physics	5,118	5,839	7,037	9,873	8,236	7,466	10,129
Physical sciences, n.e.c.	0	0	0	0	0	0	0
Environmental sciences, total	0	0	0	0	0	0	0
Atmospheric sciences	0	0	0	0	0	0	0
Geological sciences	0	0	0	0	0	0	0
Oceanography	0	0	0	0	0	0	0
Environmental sciences, n.e.c.	0	0	0	0	0	0	0
Math & computer sciences, total	10,158	10,190	7,607	8,989	9,850	9,370	11,811
Mathematics	9,675	10,034	6,758	8,438	9,850	9,270	11,549
Computer sciences	483	156	92	85	0	100	262
Math & computer sciences, n.e.c.	0	0	757	466	0	0	0
Engineering, total	38,620	42,832	42,100	43,179	48,791	41,369	39,730
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	0	0	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.	38,620	42,832	42,100	43,179	48,791	41,369	39,730
Social sciences, total	152,563	159,155	168,740	181,438	166,904	126,210	130,010
Anthropology	2,040	3,409	2,860	980	663	937	550
Economics	15,324	22,824	19,002	20,172	16,143	11,554	12,348
Political science	263	320	849	1,043	1,662	830	1,628
Sociology	24,391	31,753	33,563	40,036	37,776	30,464	44,198
Social sciences, n.e.c.	110,545	100,849	112,466	119,207	110,660	82,425	71,286
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.	70,510	72,857	105,663	130,828	129,085	139,063	150,001

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

**Table 1F. Federal obligations for total research, by detailed field of science
& engineering: Department of Health & Human Services,
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	4,466,023	5,028,334	5,189,558	6,021,944	6,496,963	7,088,434	7,467,093
Life sciences, total	3,866,589	4,369,941	4,511,606	5,294,100	5,604,153	6,097,316	6,408,890
Biol & agricultural, total	2,055,386	2,342,129	2,436,563	2,881,407	3,012,348	3,253,683	3,401,654
Biol (excl environmental)	2,054,176	2,340,906	2,435,571	2,879,734	3,010,833	3,252,202	3,400,701
Environmental biology	238	516	296	715	1,050	808	789
Agricultural	972	707	696	958	465	673	164
Medical sciences, total	1,690,430	1,869,279	1,923,560	2,203,221	2,489,857	2,706,272	2,868,252
Clinical medical	NA	NA	NA	NA	NA	NA	NA
Other medical	NA	NA	NA	NA	NA	NA	NA
Life sciences, n.e.c.	120,773	158,533	151,483	209,472	101,948	137,361	138,984
Psychology, total	146,999	171,384	182,884	220,475	232,539	263,148	297,845
Biological aspects	55,888	61,145	64,250	69,431	75,988	87,069	98,256
Social aspects	29,549	36,033	37,156	42,606	45,677	59,768	79,647
Psychological sciences, n.e.c.	61,562	74,206	81,478	108,438	110,874	116,311	119,942
Physical sciences, total	96,771	112,647	114,239	127,295	135,455	120,934	129,193
Astronomy	0	0	0	0	0	0	0
Chemistry	86,304	104,858	104,212	115,480	123,810	107,780	112,170
Physics	10,467	7,789	9,960	11,746	11,573	12,949	16,874
Physical sciences, n.e.c.	0	0	67	69	72	205	149
Environmental sciences, total	0	0	0	0	0	0	0
Atmospheric sciences	0	0	0	0	0	0	0
Geological sciences	0	0	0	0	0	0	0
Oceanography	0	0	0	0	0	0	0
Environmental sciences, n.e.c.	0	0	0	0	0	0	0
Math & computer sciences, total	15,385	14,232	12,962	14,432	18,164	16,063	18,875
Mathematics	14,612	12,551	11,466	12,593	16,204	14,448	17,576
Computer sciences	773	1,681	1,496	1,839	1,960	1,615	1,299
Math & computer sciences, n.e.c.	0	0	0	0	0	0	0
Engineering, total	50,864	42,831	56,480	66,467	78,055	70,086	68,918
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	0	0	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.	50,864	42,831	56,480	66,467	78,055	70,086	68,918
Social sciences, total	138,298	137,811	122,188	145,277	157,506	198,727	215,286
Anthropology	635	668	1,451	2,444	1,981	942	1,539
Economics	11,461	9,624	7,570	9,885	11,221	16,605	13,147
Political science	2,545	3,188	3,218	1,902	2,464	2,722	2,690
Sociology	42,600	42,738	38,950	45,991	55,117	66,461	91,148
Social sciences, n.e.c.	81,057	81,593	70,999	85,055	86,723	111,997	106,762
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.	151,117	179,488	189,199	153,898	271,091	322,160	328,086

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

**Table 1F. Federal obligations for total research, by detailed field of science
& engineering: Department of Health & Human Services,
fiscal years 1970-2003**

[Dollars in thousands]

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Field of science & engineering	1991	1992	1993	1994	1995	1996	1997
Total, all fields	8,162,487	7,945,519	9,192,613	9,736,441	10,075,950	10,545,882	11,228,088
Life sciences, total	6,805,987	7,024,312	7,842,589	8,279,475	8,651,148	9,172,481	9,721,330
Biol & agricultural, total	3,647,162	3,564,993	3,955,120	3,885,333	4,006,581	4,412,474	4,429,730
Biol (excl environmental)	3,644,272	3,564,857	3,945,514	3,885,215	4,006,518	4,412,404	4,429,649
Environmental biology	1,189	136	9,606	118	63	70	81
Agricultural	1,701	0	0	0	0	0	0
Medical sciences, total	2,869,859	3,201,482	3,677,548	4,146,297	4,353,848	4,403,395	4,936,670
Clinical medical	NA	NA	NA	NA	NA	NA	NA
Other medical	NA	NA	NA	NA	NA	NA	NA
Life sciences, n.e.c.	288,966	257,837	209,921	247,845	290,719	356,612	354,930
Psychology, total	344,105	125,469	361,942	383,386	410,659	369,176	392,026
Biological aspects	111,218	0	0	16,678	21,895	14,226	11,989
Social aspects	99,467	79	0	3,926	8,000	6,711	6,121
Psychological sciences, n.e.c.	133,420	125,390	361,942	362,782	380,764	348,239	373,916
Physical sciences, total	142,276	154,370	163,216	156,351	155,685	154,401	166,615
Astronomy	0	0	0	0	0	0	0
Chemistry	119,896	136,682	142,818	137,420	137,447	137,197	147,911
Physics	22,380	17,679	20,398	18,931	18,238	17,204	18,704
Physical sciences, n.e.c.	0	9	0	0	0	0	0
Environmental sciences, total	0	0	0	0	23,853	29,986	32,165
Atmospheric sciences	0	0	0	0	0	0	0
Geological sciences	0	0	0	0	0	0	0
Oceanography	0	0	0	0	0	0	0
Environmental sciences, n.e.c.	0	0	0	0	23,853	29,986	32,165
Math & computer sciences, total	18,225	20,254	43,720	62,210	68,945	94,634	103,322
Mathematics	7,623	18,123	22,378	48,727	34,102	40,629	44,484
Computer sciences	902	1,616	21,175	13,309	34,843	53,684	58,495
Math & computer sciences, n.e.c.	9,700	515	167	174	0	321	343
Engineering, total	76,330	83,683	98,274	107,022	135,683	141,948	152,259
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	0	0	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.	76,330	83,683	98,274	107,022	135,683	141,948	152,259
Social sciences, total	318,881	235,945	186,128	173,889	171,728	134,717	165,779
Anthropology	2,621	0	0	0	0	0	32
Economics	9,502	8,785	1,652	11,123	14,344	17,365	28,987
Political science	2,570	249	40	2,840	2,502	143	0
Sociology	154,681	43,850	34,024	17,820	2,159	1,629	1,078
Social sciences, n.e.c.	149,507	183,061	150,412	142,106	152,723	115,580	135,682
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.	456,683	301,486	496,744	574,108	458,249	448,539	494,592

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

Table 1F. Federal obligations for total research, by detailed field of science & engineering: Department of Health & Human Services, fiscal years 1970-2003

[Dollars in thousands]

Field of science & engineering	1998	1999	2000	2001	Preliminary	
					2002	2003
Total, all fields	12,018,474	13,714,640	17,913,064	20,648,671	23,407,425	26,788,878
Life sciences, total	10,394,174	11,877,057	14,137,499	18,519,590	20,996,408	24,036,813
Biol & agricultural, total	4,726,466	5,358,375	9,543,108	11,072,397	NA	NA
Biol (excl environmental)	4,726,379	5,358,276	9,543,108	11,072,397	NA	NA
Environmental biology	87	99	0	0	NA	NA
Agricultural	0	0	0	0	NA	NA
Medical sciences, total	5,284,521	6,091,357	3,742,826	5,449,309	NA	NA
Clinical medical	NA	NA	NA	NA	NA	NA
Other medical	NA	NA	NA	NA	NA	NA
Life sciences, n.e.c.	383,187	427,325	851,565	1,997,884	NA	NA
Psychology, total	422,294	479,828	1,463,861	565,058	643,187	759,941
Biological aspects	12,866	14,674	0	0	NA	NA
Social aspects	6,618	7,567	143	179	NA	NA
Psychological sciences, n.e.c.	402,810	457,587	1,463,718	564,879	NA	NA
Physical sciences, total	178,803	203,928	610,772	336,225	382,370	432,672
Astronomy	0	0	0	0	NA	NA
Chemistry	158,732	181,037	594,330	301,295	NA	NA
Physics	20,071	22,891	0	0	NA	NA
Physical sciences, n.e.c.	0	0	16,442	34,930	NA	NA
Environmental sciences, total	34,518	39,369	376,544	306,257	348,633	412,321
Atmospheric sciences	0	0	0	0	NA	NA
Geological sciences	0	0	0	463	NA	NA
Oceanography	0	0	0	0	NA	NA
Environmental sciences, n.e.c.	34,518	39,369	376,544	305,794	NA	NA
Math & computer sciences, total	113,978	130,261	137,542	58,335	65,119	72,905
Mathematics	47,639	54,277	126,072	45,376	NA	NA
Computer sciences	66,339	75,119	11,470	12,134	NA	NA
Math & computer sciences, n.e.c.	0	865	0	825	NA	NA
Engineering, total	163,397	186,357	385,062	173,674	197,542	225,043
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	0	NA	NA
Electrical	0	0	0	0	NA	NA
Mechanical	0	0	0	0	NA	NA
Metallurgy & materials	0	0	52,130	62,683	NA	NA
Engineering, n.e.c.	163,397	186,357	332,932	110,991	NA	NA
Social sciences, total	187,026	184,737	325,235	246,763	272,722	287,625
Anthropology	0	0	30	0	NA	NA
Economics	39,092	17,645	37,149	41,788	NA	NA
Political science	0	0	0	0	NA	NA
Sociology	1,179	1,297	672	1,373	NA	NA
Social sciences, n.e.c.	146,755	165,795	287,384	203,602	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.	524,284	613,103	476,549	442,769	501,444	561,558

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

NOTES: Due to reorganization within the Department of Health & Human Services, the Alcohol, Drug Abuse, & Mental Health Administration ceased to exist as of October 1992, and its research and development functions are reported with the National Institutes of Health data beginning with fiscal year 1992. However, research support for some fields (such as psychology) in fiscal year 1992 seems to be underreported.

Data shown for fiscal years 1970-78 represent obligations of the Department of Health, Education, and Welfare. In 1979 the Department of Health, Education, and Welfare reorganized to become the Department of Health & Human Services and the Department of Education.

Beginning in the fiscal year 2000, the National Institutes of Health classified all of its development activities as research.

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