

Table 3H. Federal obligations for applied research, by detailed field of science & engineering: HHS, National Institutes of Health, 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	336,035	409,782	513,650	539,084	714,340	775,697	847,380
Life sciences, total	292,216	356,346	446,670	468,787	621,190	674,546	736,882
Biol & agricultural, total	110,757	135,064	169,299	177,682	235,447	255,670	279,296
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	175,242	213,701	267,868	281,132	372,528	404,526	441,909
Clinical medical	175,242	213,701	267,868	281,132	372,528	404,526	441,909
Other medical	0	0	0	0	0	0	0
Life sciences, n.e.c.	6,217	7,581	9,503	9,973	13,215	14,350	15,677
Psychology, total	4,738	5,778	7,243	7,601	10,072	10,937	11,948
Biological aspects	0	0	0	0	0	0	0
Social aspects	0	0	0	0	0	0	0
Psychological sciences, n.e.c.	4,738	5,778	7,243	7,601	10,072	10,937	11,948
Physical sciences, total	7,763	9,466	11,865	12,453	16,501	17,919	19,574
Astronomy	0	0	0	0	0	0	0
Chemistry	6,889	0	10,530	11,051	14,644	15,902	17,371
Physics	874	8,401	1,335	1,402	1,857	2,017	2,203
Physical sciences, n.e.c.	0	1,065	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	1,848	2,254	2,825	2,965	3,929	4,266	4,661
Mathematics	NA	NA	NA	NA	NA	NA	4,661
Computer sciences	NA	NA	NA	NA	NA	NA	0
Math & computer sciences, n.e.c.	NA	NA	NA	NA	NA	NA	0
Engineering, total	8,199	9,999	12,533	13,154	17,430	18,927	20,676
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.	8,199	9,999	12,533	13,154	17,430	18,927	20,676
Social sciences, total	3,831	4,671	5,856	6,146	8,144	8,843	9,660
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.	3,831	4,671	5,856	6,146	8,144	8,843	9,660
History	0	0	0	0	0	0	NA
Linguistics	0	0	0	0	0	0	NA
Other social sciences	3,831	4,671	5,856	6,146	8,144	8,843	NA
Other sciences, n.e.c.	17,440	21,268	26,658	27,978	37,074	40,259	43,979

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

Table 3H. Federal obligations for applied research, by detailed field of science & engineering: HHS, National Institutes of Health, 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	935,882	1,051,502	1,066,408	1,145,129	1,181,521	1,103,802	1,165,179
Life sciences, total	813,843	914,341	889,752	990,753	1,035,127	940,067	977,943
Biol & agricultural, total	308,467	346,594	349,314	431,747	467,899	352,268	373,901
Biol (excl environmental)	NA	346,594	349,314	431,747	467,899	352,191	373,775
Environmental biology	NA	0	0	0	0	77	126
Agricultural	NA	0	0	0	0	0	0
Medical sciences, total	488,062	548,323	516,457	533,521	543,375	559,939	577,288
Clinical medical	488,062	NA	NA	NA	NA	NA	NA
Other medical	0	NA	NA	NA	NA	NA	NA
Life sciences, n.e.c.	17,314	19,424	23,981	25,485	23,853	27,860	26,754
Psychology, total	13,196	14,883	26,556	11,434	12,242	17,999	22,916
Biological aspects	0	0	0	0	0	0	0
Social aspects	0	0	0	0	0	0	0
Psychological sciences, n.e.c.	13,196	14,883	26,556	11,434	12,242	17,999	22,916
Physical sciences, total	21,619	24,328	28,840	25,358	24,830	17,235	21,461
Astronomy	0	0	0	0	0	0	0
Chemistry	19,186	21,598	25,860	21,806	21,846	14,945	18,068
Physics	2,433	2,730	2,980	3,552	2,984	2,290	3,393
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	5,147	5,821	3,360	3,760	4,299	3,632	5,365
Mathematics	5,147	5,821	3,360	3,760	4,299	3,632	5,365
Computer sciences	0	0	0	0	0	0	0
Math & computer sciences, n.e.c.	0	0	0	0	0	0	0
Engineering, total	22,836	25,605	28,067	17,121	15,404	16,541	15,444
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.	22,836	25,605	28,067	17,121	15,404	16,541	15,444
Social sciences, total	10,669	11,986	11,141	5,072	5,768	12,474	13,488
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.	10,669	11,986	11,141	5,072	5,768	12,474	13,488
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.	48,572	54,538	78,692	91,631	83,851	95,854	108,562

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

Table 3H. Federal obligations for applied research, by detailed field of science & engineering: HHS, National Institutes of Health, 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	1,285,643	1,410,113	1,469,000	1,739,142	1,885,571	2,008,466	2,074,100
Life sciences, total	1,072,558	1,195,168	1,248,360	1,507,842	1,671,157	1,778,209	1,849,172
Biol & agricultural, total	424,551	485,090	544,490	678,335	862,027	916,992	962,159
Biol (excl environmental)	424,407	485,016	544,399	678,212	861,958	916,906	962,074
Environmental biology	144	74	91	123	69	86	85
Agricultural	0	0	0	0	0	0	0
Medical sciences, total	617,685	671,811	667,450	765,115	775,281	816,152	843,423
Clinical medical	NA	NA	NA	NA	NA	NA	NA
Other medical	NA	NA	NA	NA	NA	NA	NA
Life sciences, n.e.c.	30,322	38,267	36,420	64,392	33,849	45,065	43,590
Psychology, total	28,773	36,363	40,591	52,830	35,866	35,263	36,299
Biological aspects	0	0	0	0	0	0	0
Social aspects	0	0	0	0	0	0	0
Psychological sciences, n.e.c.	28,773	36,363	40,591	52,830	35,866	35,263	36,299
Physical sciences, total	23,628	25,894	26,524	29,377	29,309	24,650	23,870
Astronomy	0	0	0	0	0	0	0
Chemistry	20,250	23,379	23,229	25,151	25,955	20,689	19,667
Physics	3,378	2,515	3,273	4,203	3,320	3,907	4,203
Physical sciences, n.e.c.	0	0	22	23	34	54	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	7,505	5,710	4,787	4,356	5,987	4,896	5,074
Mathematics	7,505	5,565	4,738	4,310	5,880	4,837	4,977
Computer sciences	0	145	49	46	107	59	97
Math & computer sciences, n.e.c.	0	0	0	0	0	0	0
Engineering, total	26,342	17,610	21,137	26,024	24,408	20,562	19,670
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.	26,342	17,610	21,137	26,024	24,408	20,562	19,670
Social sciences, total	21,105	21,153	20,127	24,418	13,392	10,338	10,048
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.	21,105	21,153	20,127	24,418	13,392	10,338	10,048
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.	105,732	108,215	107,474	94,295	105,452	134,548	129,967

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

Table 3H. Federal obligations for applied research, by detailed field of science & engineering: HHS, National Institutes of Health, 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	2,193,511	2,341,320	2,942,913	3,197,358	3,273,555	3,373,287	3,668,966
Life sciences, total	1,987,171	2,100,682	2,441,115	2,642,985	2,742,396	2,936,237	3,185,453
Biol & agricultural, total	1,040,672	1,024,788	1,186,171	1,181,538	1,220,664	1,452,808	1,489,640
Biol (excl environmental)	1,040,504	1,024,725	1,183,219	1,181,479	1,220,649	1,452,784	1,489,612
Environmental biology	168	63	2,952	59	15	24	28
Agricultural	0	0	0	0	0	0	0
Medical sciences, total	856,700	997,660	1,217,584	1,407,513	1,457,191	1,385,719	1,588,784
Clinical medical	NA	NA	NA	NA	NA	NA	NA
Other medical	NA	NA	NA	NA	NA	NA	NA
Life sciences, n.e.c.	89,799	78,234	37,360	53,934	64,541	97,710	107,029
Psychology, total	39,213	44,366	158,771	175,861	179,873	125,736	136,532
Biological aspects	0	0	0	6,262	7,280	4,859	4,181
Social aspects	0	0	0	1,352	2,380	2,037	2,060
Psychological sciences, n.e.c.	39,213	44,366	158,771	168,247	170,213	118,840	130,291
Physical sciences, total	25,228	33,300	36,440	34,305	36,146	52,733	58,111
Astronomy	0	0	0	0	0	0	0
Chemistry	18,766	28,461	31,342	29,234	31,342	46,857	51,587
Physics	6,462	4,839	5,098	5,071	4,804	5,876	6,524
Physical sciences, n.e.c.	0	0	0	0	0	0	0
Environmental sciences, total	0	0	0	0	11,546	10,241	11,218
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	11,546	10,241	11,218
Math & computer sciences, total	5,558	6,670	18,325	23,389	27,199	28,849	33,022
Mathematics	1,994	6,219	7,660	23,219	13,505	13,873	15,382
Computer sciences	0	451	10,665	170	13,694	14,976	17,640
Math & computer sciences, n.e.c.	3,564	0	0	0	0	0	0
Engineering, total	23,170	25,745	32,803	36,363	43,406	48,480	53,104
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.	23,170	25,745	32,803	36,363	43,406	48,480	53,104
Social sciences, total	13,607	14,615	40,269	40,946	43,914	31,042	34,014
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	1,063	0	0	66	84
Social sciences, n.e.c.	13,607	14,615	39,206	40,946	43,914	30,976	33,930
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.	99,564	115,942	215,190	243,509	189,075	139,969	157,512

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

Table 3H. Federal obligations for applied research, by detailed field of science & engineering: HHS, National Institutes of Health, fiscal years 1970-2003

[Dollars in thousands]

Field of science & engineering	1998	1999	2000	2001	Preliminary	
					2002	2003
Total, all fields	3,934,867	4,244,159	6,864,240	7,890,499	8,997,073	11,280,283
Life sciences, total	3,416,313	3,684,841	5,178,825	7,036,727	8,023,566	10,059,729
Biol & agricultural, total	1,597,599	1,723,155	3,344,912	3,802,521	NA	NA
Biol (excl environmental)	1,597,569	1,723,123	3,344,912	3,802,521	NA	NA
Environmental biology	30	32	0	0	NA	NA
Agricultural	0	0	0	0	NA	NA
Medical sciences, total	1,703,928	1,837,876	1,464,267	2,541,616	NA	NA
Clinical medical	NA	NA	NA	NA	NA	NA
Other medical	NA	NA	NA	NA	NA	NA
Life sciences, n.e.c.	114,786	123,810	369,646	692,590	NA	NA
Psychology, total	146,426	157,937	685,036	303,497	346,060	433,880
Biological aspects	4,484	4,836	0	0	NA	NA
Social aspects	2,209	2,383	0	0	NA	NA
Psychological sciences, n.e.c.	139,733	150,718	685,036	303,497	NA	NA
Physical sciences, total	62,323	67,222	285,852	73,257	83,531	104,729
Astronomy	0	0	0	0	NA	NA
Chemistry	55,327	59,676	278,157	67,460	NA	NA
Physics	6,996	7,546	0	0	NA	NA
Physical sciences, n.e.c.	0	0	7,695	5,797	NA	NA
Environmental sciences, total	12,031	12,977	169,361	166,887	190,292	238,582
Atmospheric sciences	0	0	0	0	NA	NA
Geological sciences	0	0	0	0	NA	NA
Oceanography	0	0	0	0	NA	NA
Environmental sciences, n.e.c.	12,031	12,977	169,361	166,887	NA	NA
Math & computer sciences, total	35,415	38,199	58,881	28,181	32,134	40,288
Mathematics	16,497	17,794	58,881	28,181	NA	NA
Computer sciences	18,918	20,405	0	0	NA	NA
Math & computer sciences, n.e.c.	0	0	0	0	NA	NA
Engineering, total	56,953	61,430	180,216	46,338	52,836	66,244
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	24,398	20,077	NA	NA
Engineering, n.e.c.	56,953	61,430	155,818	26,261	NA	NA
Social sciences, total	36,479	39,347	108,871	71,965	82,058	102,882
Anthropology	0	0	0	0	NA	NA
Economics	0	0	0	0	NA	NA
Political science	0	0	0	0	NA	NA
Sociology	90	97	0	0	NA	NA
Social sciences, n.e.c.	36,389	39,250	108,871	71,965	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.	168,927	182,206	197,198	163,647	186,596	233,949

KEY: HHS = Department of Health & Human Services
 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