

**Table 2B. Federal obligations for basic research, by detailed field of science
& engineering: Department of Agriculture,
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	115,709	118,414	137,311	142,726	145,611	154,184	171,371
Life sciences, total	75,667	78,749	94,502	98,286	99,854	108,885	121,665
Biol & agricultural, total	74,553	77,449	93,082	96,749	98,316	107,146	119,715
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	1,114	1,300	1,420	1,537	1,538	1,739	1,950
Clinical medical	1,050	1,165	1,420	1,537	1,538	1,739	1,950
Other medical	64	135	0	0	0	0	0
Life sciences, n.e.c.	0	0	0	0	0	0	0
Psychology, total	5	5	26	14	8	0	23
Biological aspects	0	0	0	0	0	0	0
Social aspects	5	5	26	14	8	0	23
Psychological sciences, n.e.c.	0	0	0	0	0	0	0
Physical sciences, total	17,796	16,634	19,703	20,314	20,664	19,955	21,546
Astronomy	0	0	0	0	0	0	0
Chemistry	15,306	14,021	16,660	17,204	17,484	17,235	18,506
Physics	2,490	2,535	3,043	3,110	3,180	2,720	3,040
Physical sciences, n.e.c.	0	78	0	0	0	0	0
Environmental sciences, total	1,573	1,713	2,086	2,188	2,284	2,864	3,301
Atmospheric sciences	637	705	849	895	929	1,252	1,474
Geological sciences	936	1,008	289	298	307	233	1,135
Oceanography	0	0	0	0	0	0	0
Environmental sciences, n.e.c.	0	0	948	995	1,048	1,379	692
Math & computer sciences, total	307	322	575	545	575	1,042	1,350
Mathematics	NA	NA	NA	NA	NA	NA	1,350
Computer sciences	NA	NA	NA	NA	NA	NA	0
Math & computer sciences, n.e.c.	NA	NA	NA	NA	NA	NA	0
Engineering, total	10,292	9,536	8,377	8,610	8,795	8,954	9,489
Aeronautical	0	0	0	0	0	0	0
Astronautical	0	0	0	0	0	0	0
Chemical	2,434	1,793	667	696	721	506	449
Civil	1,087	1,171	1,439	1,474	1,519	1,451	1,540
Electrical	33	19	15	16	15	27	54
Mechanical	466	474	420	428	444	388	435
Metallurgy & materials	0	0	0	0	0	0	0
Engineering, n.e.c.	6,272	6,079	5,836	5,996	6,096	6,582	7,011
Social sciences, total	10,069	11,455	12,042	12,769	13,431	12,484	13,997
Anthropology	0	0	0	3	3	0	0
Economics	9,389	10,705	11,207	11,986	12,715	11,574	13,005
Political science	43	29	18	18	11	0	0
Sociology	497	545	668	701	572	814	885
Social sciences, n.e.c.	140	176	149	61	130	96	107
History	43	91	93	59	78	0	NA
Linguistics	0	0	0	0	0	0	NA
Other social sciences	97	85	56	2	52	96	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 2B. Federal obligations for basic research, by detailed field of science
& engineering: Department of Agriculture,
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	204,450	242,704	256,420	275,650	314,128	330,755	362,019
Life sciences, total	144,389	182,504	193,643	207,817	235,268	245,426	269,207
Biol & agricultural, total	142,201	178,925	191,014	204,988	230,672	240,565	263,864
Biol (excl environmental)	NA	28,122	35,146	32,671	38,424	36,638	37,363
Environmental biology	NA	10,954	22,905	20,729	16,327	17,015	18,004
Agricultural	NA	139,849	132,963	151,588	175,921	186,912	208,497
Medical sciences, total	2,188	2,288	2,629	2,829	4,596	4,861	5,343
Clinical medical	2,188	NA	NA	NA	NA	NA	NA
Other medical	0	NA	NA	NA	NA	NA	NA
Life sciences, n.e.c.	0	1,291	0	0	0	0	0
Psychology, total	26	31	31	34	0	116	39
Biological aspects	0	0	0	0	0	0	0
Social aspects	26	31	31	34	0	116	39
Psychological sciences, n.e.c.	0	0	0	0	0	0	0
Physical sciences, total	27,458	25,400	23,775	25,767	33,692	36,169	39,992
Astronomy	0	0	0	0	0	0	0
Chemistry	23,941	23,583	22,254	24,032	31,821	34,463	38,235
Physics	3,517	1,817	1,521	1,735	1,871	1,706	1,757
Physical sciences, n.e.c.	0	0	0	0	0	0	0
Environmental sciences, total	4,384	4,287	4,219	4,377	4,776	4,527	4,914
Atmospheric sciences	1,871	2,231	2,061	2,231	2,193	2,197	2,394
Geological sciences	1,672	2,056	2,158	2,146	2,583	2,330	2,520
Oceanography	0	0	0	0	0	0	0
Environmental sciences, n.e.c.	841	0	0	0	0	0	0
Math & computer sciences, total	917	1,165	1,137	857	2,623	3,929	4,156
Mathematics	917	1,165	1,137	857	2,623	3,929	4,156
Computer sciences	0	0	0	0	0	0	0
Math & computer sciences, n.e.c.	0	0	0	0	0	0	0
Engineering, total	11,512	12,458	13,280	14,465	16,548	18,238	19,899
Aeronautical	0	0	0	0	0	0	0
Astronautical	0	0	0	0	0	0	0
Chemical	651	689	1,450	1,395	2,441	2,948	3,252
Civil	2,105	2,228	1,234	1,261	1,087	1,003	1,027
Electrical	101	87	179	158	61	136	152
Mechanical	500	485	956	1,125	1,157	1,483	1,676
Metallurgy & materials	0	0	0	0	0	0	0
Engineering, n.e.c.	8,155	8,969	9,461	10,526	11,802	12,668	13,792
Social sciences, total	15,764	16,859	20,335	22,333	21,221	22,350	23,812
Anthropology	0	2	0	4	60	0	0
Economics	14,413	15,076	18,241	19,886	18,696	20,167	22,052
Political science	0	0	0	0	489	38	62
Sociology	1,238	1,557	1,830	2,343	1,911	2,126	1,646
Social sciences, n.e.c.	113	224	264	100	65	19	52
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 2B. Federal obligations for basic research, by detailed field of science
& engineering: Department of Agriculture,
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	392,649	445,388	432,857	445,464	480,588	484,928	519,190
Life sciences, total	303,171	376,678	367,048	371,948	409,468	411,517	436,906
Biol & agricultural, total	293,830	364,736	355,541	359,465	397,636	399,096	423,105
Biol (excl environmental)	48,045	46,945	57,116	53,578	59,010	55,548	66,619
Environmental biology	31,207	39,101	37,704	45,529	51,535	50,572	55,287
Agricultural	214,578	278,690	260,721	260,358	287,091	292,976	301,199
Medical sciences, total	9,341	11,942	11,507	12,483	11,832	12,421	13,801
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	42	44	42	99	103	95	115
Biological aspects	0	0	0	0	103	0	0
Social aspects	42	44	42	99	0	95	115
Psychological sciences, n.e.c.	0	0	0	0	0	0	0
Physical sciences, total	45,422	35,645	33,641	34,803	32,471	33,686	37,297
Astronomy	0	0	0	0	0	0	0
Chemistry	43,530	33,560	31,939	32,913	30,642	31,893	35,372
Physics	1,892	2,085	1,702	1,890	1,829	1,793	1,925
Physical sciences, n.e.c.	0	0	0	0	0	0	0
Environmental sciences, total	5,428	4,859	4,711	5,017	4,884	4,795	5,337
Atmospheric sciences	2,321	2,217	2,090	2,058	1,821	1,910	1,925
Geological sciences	3,107	2,642	2,621	2,959	3,063	2,885	3,412
Oceanography	0	0	0	0	0	0	0
Environmental sciences, n.e.c.	0	0	0	0	0	0	0
Math & computer sciences, total	4,863	4,783	4,165	4,038	4,126	3,956	4,559
Mathematics	4,863	3,994	3,812	3,676	3,850	3,508	4,000
Computer sciences	0	789	353	362	276	448	559
Math & computer sciences, n.e.c.	0	0	0	0	0	0	0
Engineering, total	20,984	10,381	10,568	12,576	10,185	11,726	13,457
Aeronautical	0	0	0	0	0	0	0
Astronautical	0	0	0	0	0	0	0
Chemical	3,613	3,106	2,367	2,413	2,532	2,441	2,428
Civil	1,331	1,665	2,222	2,234	2,147	2,029	2,430
Electrical	170	28	47	2,024	268	172	155
Mechanical	1,265	1,228	561	1,348	1,326	1,530	1,513
Metallurgy & materials	0	0	0	0	0	0	0
Engineering, n.e.c.	14,605	4,354	5,371	4,557	3,912	5,554	6,931
Social sciences, total	12,739	12,998	12,682	16,983	19,351	19,153	21,519
Anthropology	0	0	0	0	0	0	0
Economics	9,923	10,064	9,796	13,826	15,913	15,959	18,427
Political science	13	47	29	124	116	131	157
Sociology	2,745	2,841	2,779	2,977	3,241	2,944	2,804
Social sciences, n.e.c.	58	46	78	56	81	119	131
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 2B. Federal obligations for basic research, by detailed field of science
& engineering: Department of Agriculture,
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	557,578	595,153	615,941	606,328	595,034	549,980	590,097
Life sciences, total	468,810	497,830	515,157	515,317	510,160	467,755	505,694
Biol & agricultural, total	455,157	479,963	496,969	498,364	494,765	454,549	492,626
Biol (excl environmental)	75,233	83,906	94,811	78,848	76,034	67,937	84,882
Environmental biology	67,501	69,835	71,683	59,203	60,318	58,777	60,305
Agricultural	312,423	326,222	330,475	360,313	358,413	327,835	347,439
Medical sciences, total	13,653	17,867	18,188	16,953	15,389	13,200	13,068
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	6	6	0
Psychology, total	127	99	132	45	45	42	36
Biological aspects	0	0	0	0	0	0	0
Social aspects	127	99	132	45	45	42	36
Psychological sciences, n.e.c.	0	0	0	0	0	0	0
Physical sciences, total	38,778	42,551	44,549	44,563	40,782	41,638	43,459
Astronomy	0	0	23	0	0	0	0
Chemistry	36,988	41,065	43,073	43,113	39,369	40,116	42,035
Physics	1,790	1,486	1,453	1,450	1,413	1,522	1,424
Physical sciences, n.e.c.	0	0	0	0	0	0	0
Environmental sciences, total	6,507	4,565	4,713	3,531	4,128	4,303	4,165
Atmospheric sciences	2,741	4,231	4,391	3,305	3,918	4,077	4,007
Geological sciences	3,766	334	322	226	205	221	158
Oceanography	0	0	0	0	0	0	0
Environmental sciences, n.e.c.	0	0	0	0	5	5	0
Math & computer sciences, total	5,014	3,349	4,004	3,459	3,504	3,104	1,821
Mathematics	4,465	2,488	2,539	1,877	1,931	1,876	1,821
Computer sciences	549	861	1,465	1,582	1,573	1,228	0
Math & computer sciences, n.e.c.	0	0	0	0	0	0	0
Engineering, total	14,922	21,627	18,914	13,216	14,775	12,715	13,753
Aeronautical	0	0	0	0	0	0	0
Astronautical	0	0	0	0	0	0	0
Chemical	2,676	2,652	2,355	1,910	2,358	2,760	2,510
Civil	2,446	1,337	1,335	1,019	871	662	661
Electrical	292	299	298	201	223	159	372
Mechanical	1,725	1,016	998	464	489	482	410
Metallurgy & materials	0	0	0	0	0	0	0
Engineering, n.e.c.	7,783	16,323	13,928	9,622	10,834	8,652	9,800
Social sciences, total	23,420	24,599	27,913	25,944	21,394	20,178	20,949
Anthropology	0	9	8	39	39	34	35
Economics	20,359	21,223	24,790	22,891	18,301	17,663	18,235
Political science	171	0	0	0	0	0	0
Sociology	2,880	3,367	3,115	3,014	3,054	2,481	2,679
Social sciences, n.e.c.	10	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	533	559	253	246	245	220

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

Table 2B. Federal obligations for basic research, by detailed field of science & engineering: Department of Agriculture, fiscal years 1970-2003

[Dollars in thousands]

Field of science & engineering	1998	1999	2000	2001	Preliminary	
					2002	2003
Total, all fields	603,763	743,295	807,947	903,100	954,564	954,538
Life sciences, total	528,885	653,063	706,692	791,280	837,211	835,378
Biol & agricultural, total	515,030	637,524	688,809	772,688	NA	NA
Biol (excl environmental)	75,124	93,722	100,741	115,798	NA	NA
Environmental biology	68,012	119,987	143,169	146,400	NA	NA
Agricultural	371,894	423,815	444,899	510,490	NA	NA
Medical sciences, total	13,855	15,539	17,883	18,592	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	0	NA	NA
Psychology, total	40	111	125	133	151	141
Biological aspects	0	0	125	133	NA	NA
Social aspects	40	111	0	0	NA	NA
Psychological sciences, n.e.c.	0	0	0	0	NA	NA
Physical sciences, total	40,692	43,701	45,455	51,437	56,288	57,848
Astronomy	0	0	0	0	NA	NA
Chemistry	38,804	41,423	43,005	48,713	NA	NA
Physics	1,888	2,278	2,450	2,724	NA	NA
Physical sciences, n.e.c.	0	0	0	0	NA	NA
Environmental sciences, total	3,051	4,377	4,721	5,307	5,560	5,404
Atmospheric sciences	2,911	4,069	4,371	4,930	NA	NA
Geological sciences	140	308	350	377	NA	NA
Oceanography	0	0	0	0	NA	NA
Environmental sciences, n.e.c.	0	0	0	0	NA	NA
Math & computer sciences, total	2,217	3,084	3,383	3,672	3,992	3,912
Mathematics	2,217	3,084	3,383	3,672	NA	NA
Computer sciences	0	0	0	0	NA	NA
Math & computer sciences, n.e.c.	0	0	0	0	NA	NA
Engineering, total	11,812	19,242	21,718	24,093	25,921	26,003
Aeronautical	0	0	0	0	NA	NA
Astronautical	0	0	0	0	NA	NA
Chemical	2,682	3,659	3,918	4,340	NA	NA
Civil	972	1,437	1,588	1,742	NA	NA
Electrical	399	377	400	458	NA	NA
Mechanical	485	1,121	1,194	1,308	NA	NA
Metallurgy & materials	0	0	0	0	NA	NA
Engineering, n.e.c.	7,274	12,648	14,618	16,245	NA	NA
Social sciences, total	16,836	19,079	25,131	26,410	24,573	25,039
Anthropology	35	100	114	121	NA	NA
Economics	14,489	16,482	20,861	22,261	NA	NA
Political science	0	0	0	0	NA	NA
Sociology	2,312	2,497	4,156	4,028	NA	NA
Social sciences, n.e.c.	0	0	0	0	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.	230	638	722	768	868	813

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