Table 1B. Federal obligations for total research, by detailed field of science & engineering: Department of Agriculture, fiscal years 1970-2003

[Dollars in thousands]

Field of science & engineering	1970	1971	1972	1973	1974	1975	1976
Total, all fields	271,925	292,152	337,169	354,106	365,064	401,944	442,224
Life sciences, total	166,681	180,092	211,000	221,411	227,136	251,947	279,279
Biol & agricultural, total	163,802	176,891	207,263	217,365	223,089	247,370	274,148
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	2,879	3,201	3,737	4,046	4,047	4,577	5,131
Clinical medical	2,762	3,066	3,737	4,046	4,047	4,577	5,131
Other medical	117	135	0	0	0	0	0
Life sciences, n.e.c.	0	0	0	0	0	0	0
Psychology, total	32	31	42	26	26	0	75
Biological aspects	0	0	0	0	0	0	0
Social aspects	32	31	42	26	26	0	75
Psychological sciences, n.e.c.	0	0	0	0	0	0	0
Physical sciences, total	36,908	38,665	45,450	47,438	48,744	49,792	53,126
Astronomy	0	0	0	0	0	0	0
Chemistry	30,186	31,561	37,573	39,318	40,278	42,130	44,932
Physics	6,722	7,026	7,877	8,120	8,466	7,662	8,194
Physical sciences, n.e.c.	0	78	0	0	0	0	0
Environmental sciences, total	4,838	5,428	6,217	6,737	7,326	11,601	12,497
Atmospheric sciences	1,818	2,006	2,420	2,737	2,954	5,163	5,565
Geological sciences	3,020	3,422	1,045	979	1,037	977	4,981
Oceanography	0	0	0	0	0	0	0
Environmental sciences, n.e.c.	0	0	2,752	3,021	3,335	5,461	1,951
Math & computer sciences, total	686	718	1,617	1,971	2,145	2,825	3,807
Mathematics	NA	NA	NA	NA	NA	NA	3,807
Computer sciences	NA	NA	NA	NA	NA	NA	0
Math & computer sciences, n.e.c.	NA	NA	NA	NA	NA	NA	0
Engineering, total	28,909	30,011	31,445	32,742	34,243	35,073	37,094
Aeronautical	0	0	0	0	0	0	0
Astronautical	0	0	0	0	0	0	0
Chemical	4,200	3,903	3,245	3,313	3,447	3,181	3,049
Civil	3,312	3,580	4,560	4,912	5,215	4,814	5,205
Electrical	87	58	214	225	244	224	298
Mechanical	1,454	1,635	1,774	1,899	2,045	2,381	2,575
Metallurgy & materials	0	0	0	0	0	0	0
Engineering, n.e.c.	19,856	20,835	21,652	22,393	23,292	24,473	25,967
Social sciences, total	33,663	36,816	41,170	43,506	45,301	50,700	56,338
Anthropology	0	0	0	12	11	0	0
Economics	31,857	34,924	38,580	40,980	42,534	47,605	53,099
Political science	43	51	38	33	37	0	0
Sociology	1,364	1,452	1,969	1,958	2,010	1,946	2,649
Social sciences, n.e.c.	399	389	583	523	709	1,149	590
History	149	180	250	269	260	362	NA
Linguistics	0	0	0	0	0	0	NA
Other social sciences	250	209	333	254	449	787	NA
Other sciences, n.e.c.	208	391	228	275	143	6	8

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

Table 1B. Federal obligations for total research, by detailed field of science & engineering: Department of Agriculture, fiscal years 1970-2003

[Dollars in thousands]

Field of science & engineering	1977	1978	1979	1980	1981	1982	1983
Total, all fields	524,020	594,484	631,920	657,435	740,984	766,463	817,558
Life sciences, total	334,176	403,820	436,301	457,817	509,424	530,864	570,556
Biol & agricultural, total	328,417	393,890	428,541	449,804	497,582	517,912	556,659
Biol (excl environmental)	NA	51,044	64,535	61,784	66,055	62,133	62,454
Environmental biology	NA	45,118	74,545	67,759	60,032	52,655	53,530
Agricultural	NA	297,728	289,461	320,261	371,495	403,124	440,675
Medical sciences, total	5,759	6,445	7,760	8,013	11,842	12,952	13,897
Clinical medical	5,759	NA	NA	NA	NA	NA	NA
Other medical	0	NA	NA	NA	NA	NA	NA
Life sciences, n.e.c.	0	3,485	0	0	0	0	0
Psychology, total	85	101	102	106	0	185	104
Biological aspects	0	0	0	0	0	0	0
Social aspects	85	101	102	106	0	185	104
Psychological sciences, n.e.c.	0	0	0	0	0	0	0
Physical sciences, total	63,434	52,104	50,645	52,633	58,716	62,202	67,611
Astronomy	0	0	0	0	0	0	0
Chemistry	53,796	47,843	47,204	48,907	54,485	58,416	63,840
Physics	9,638	4,261	3,441	3,726	4,231	3,786	3,771
Physical sciences, n.e.c.	0	0	0	0	0	0	0
Environmental sciences, total	14,104	14,625	13,644	13,772	15,197	13,479	13,455
Atmospheric sciences	4,935	5,810	5,057	4,922	5,159	5,048	5,303
Geological sciences	6,898	8,815	8,587	8,850	10,038	8,431	8,152
Oceanography	0	0	0	0	0	0	0
Environmental sciences, n.e.c.	2,271	0	0	0	0	0	0
Math & computer sciences, total	3,845	4,713	4,072	2,751	18,702	18,697	13,229
Mathematics	3,845	4,713	4,072	2,751	18,702	18,697	13,229
Computer sciences	0	0	0	0	0	0	0
Math & computer sciences, n.e.c.	0	0	0	0	0	0	0
Engineering, total	44,190	44,599	45,453	46,627	50,709	51,176	54,665
Aeronautical	0	0	0	0	0	0	0
Astronautical	0	0	0	0	0	0	0
Chemical	4,163	3,656	4,793	4,457	5,278	5,794	6,181
Civil	6,457	6,503	4,384	4,318	4,694	3,904	3,965
Electrical	360	257	422	329	242	313	345
Mechanical	2,847	2,421	3,354	3,762	3,906	4,274	4,479
Metallurgy & materials	0	0	0	0	0	0	0
Engineering, n.e.c.	30,363	31,762	32,500	33,761	36,589	36,891	39,695
Social sciences, total	64,186	74,522	81,703	83,729	88,236	89,860	97,938
Anthropology	0	15	0	19	61	0	0
Economics	60,016	68,317	75,138	76,582	81,078	83,248	91,842
Political science	0	0	71	72	714	316	297
Sociology	3,531	4,883	5,302	5,921	5,638	5,682	5,016
Social sciences, n.e.c.	639	1,307	1,192	1,135	745	614	783
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 1B. Federal obligations for total research, by detailed field of science & engineering: Department of Agriculture, fiscal years 1970-2003

[Dollars in thousands]

Field of science & engineering	1984	1985	1986	1987	1988	1989	1990
Total, all fields	834,887	910,940	896,406	918,907	985,206	1,002,222	1,061,286
Life sciences, total	595,136	707,909	694,480	707,956	772,332	786,269	824,112
Biol & agricultural, total	575,317	685,547	672,898	684,668	751,006	764,415	799,579
Biol (excl environmental)	78,050	76,026	87,525	90,275	100,812	97,574	116,412
Environmental biology	91,433	110,940	114,783	128,346	138,408	141,913	152,390
Agricultural	405,834	498,581	470,590	466,047	511,786	524,928	530,777
Medical sciences, total	19,819	22,362	21,582	23,288	21,326	21,854	24,533
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	169	175	177	246	263	242	292
Biological aspects	0	0	0	0	263	0	0
Social aspects	169	175	177	246	0	242	292
Psychological sciences, n.e.c.	0	0	0	0	0	0	0
Physical sciences, total	72,768	62,032	62,201	69,178	64,792	64,774	71,924
Astronomy	0	0	0	0	0	0	0
Chemistry	69,002	57,951	58,635	64,997	60,799	60,992	67,767
Physics	3,766	4,081	3,566	4,181	3,993	3,782	4,157
Physical sciences, n.e.c.	0	0	0	0	0	0	0
Environmental sciences, total	13,176	12,127	11,541	11,714	12,030	11,569	13,014
Atmospheric sciences	5,027	4,761	4,356	4,348	4,245	4,269	4,321
Geological sciences	8,149	7,366	7,185	7,366	7,785	7,300	8,693
Oceanography	0	0	0	0	0	0	0
Environmental sciences, n.e.c.	0	0	0	0	0	0	0
Math & computer sciences, total	14,441	14,477	13,661	10,767	11,168	10,514	12,004
Mathematics	14,441	12,869	12,819	9,769	10,401	9,408	10,642
Computer sciences	0	1,608	842	998	767	1,106	1,362
Math & computer sciences, n.e.c.	0	0	0	0	0	0	0
Engineering, total	56,719	28,724	31,085	33,861	31,744	34,517	38,885
Aeronautical	0	0	0	0	0	0	0
Astronautical	0	0	0	0	0	0	0
Chemical	6,352	5,620	6,041	6,899	7,699	7,235	7,291
Civil	4,039	4,330	5,262	6,003	5,749	5,415	6,129
Electrical	344	127	178	2,481	795	375	389
Mechanical	3,897	3,627	2,682	3,931	3,807	3,776	4,304
Metallurgy & materials	0	0	0	0	0	0	0
Engineering, n.e.c.	42,087	15,020	16,922	14,547	13,694	17,716	20,772
Social sciences, total	82,478	85,496	83,261	85,185	92,877	94,337	101,055
Anthropology	0	0	0	0	0	0	0
Economics	71,978	74,994	72,638	74,983	81,993	83,787	90,777
Political science	131	465	290	448	359	430	511
Sociology	9,580	9,574	9,613	9,351	9,948	9,269	8,833
Social sciences, n.e.c.	789	463	720	403	577	851	934
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 1B. Federal obligations for total research, by detailed field of science & engineering: Department of Agriculture, fiscal years 1970-2003

[Dollars in thousands]

Field of science & engineering	1991	1992	1993	1994	1995	1996	1997
Total, all fields	1,175,465	1,260,996	1,251,725	1,322,500	1,298,830	1,220,004	1,290,106
Life sciences, total	914,171	956,473	948,882	1,000,609	987,217	919,292	988,828
Biol & agricultural, total	892,271	927,256	919,451	970,761	959,578	894,516	965,531
Biol (excl environmental)	142,099	136,446	144,332	133,123	130,157	119,188	146,549
Environmental biology	179,848	186,212	190,491	206,493	206,547	200,077	204,399
Agricultural	570,324	604,598	584,628	631,145	622,874	575,251	614,583
Medical sciences, total	21,900	29,217	29,431	29,848	27,628	24,765	23,297
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	11	11	0
Psychology, total	323	442	562	452	448	452	356
Biological aspects	0	0	0	0	0	0	0
Social aspects	323	442	562	452	448	452	356
Psychological sciences, n.e.c.	0	0	0	0	0	0	0
Physical sciences, total	80,439	86,763	89,082	94,996	88,918	91,575	93,359
Astronomy	0	0	40	0	0	0	0
Chemistry	76,030	82,825	85,205	90,552	84,631	86,990	89,036
Physics	4,409	3,938	3,837	4,444	4,287	4,585	4,323
Physical sciences, n.e.c.	0	0	0	0	0	0	0
Environmental sciences, total	15,680	12,154	12,394	12,327	13,421	13,162	12,781
Atmospheric sciences	6,025	10,770	11,045	10,610	11,815	11,582	11,424
Geological sciences	9,655	1,384	1,349	1,717	1,597	1,571	1,357
Oceanography	0	0	0	0	0	0	0
Environmental sciences, n.e.c.	0	0	0	0	9	9	0
Math & computer sciences, total	13,358	15,793	15,439	17,878	17,880	16,362	14,177
Mathematics	11,930	13,268	13,135	15,279	15,385	14,270	14,177
Computer sciences	1,428	2,525	2,304	2,599	2,495	2,092	0
Math & computer sciences, n.e.c.	0	0	0	0	0	0	0
Engineering, total	43,527	65,274	59,768	65,625	69,431	62,755	59,873
Aeronautical	0	0	0	0	0	0	0
Astronautical	0	0	0	0	0	0	0
Chemical	7,943	7,121	5,743	6,560	7,705	8,435	7,813
Civil	6,466	5,095	5,331	6,416	5,997	5,376	4,975
Electrical	627	689	686	432	460	336	599
Mechanical	4,405	3,611	3,518	3,386	3,425	3,238	3,084
Metallurgy & materials	0	0	0	0	0	0	0
Engineering, n.e.c.	24,086	48,758	44,490	48,831	51,844	45,370	43,402
Social sciences, total	107,967	121,599	123,003	126,827	117,789	113,087	117,507
Anthropology	0	27	25	285	284	254	260
Economics	98,288	110,217	113,546	116,464	108,827	104,381	106,995
Political science	544	0	0	0	0	0	0
Sociology	9,060	11,355	9,432	10,078	8,678	8,452	10,252
Social sciences, n.e.c.	75	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	2,498	2,595	3,786	3,726	3,319	3,225

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

Table 1B. Federal obligations for total 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	1,333,905	1,488,059	1,611,466	1,803,720	1,879,223	1,815,760
Life sciences, total	1,037,559	1,200,396	1,307,003	1,467,652	1,536,925	1,469,228
Biol & agricultural, total	1,013,259	1,175,697	1,277,871	1,436,065	NA	NA
Biol (excl environmental)	128,843	152,653	180,942	207,917	NA	NA
Environmental biology	224,489	262,122	307,391	301,141	NA	NA
Agricultural	659,927	760,922	789,538	927,007	NA	NA
Medical sciences, total	24,300	24,699	29,132	31,587	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	410	340	384	409	463	433
Biological aspects	0	0	384	409	NA	NA
Social aspects	410	340	0	0	NA	NA
Psychological sciences, n.e.c.	0	0	0	0	NA	NA
Physical sciences, total	87,338	89,502	82,041	96,408	105,380	107,272
Astronomy	0	0	0	0	NA	NA
Chemistry	82,210	84,854	77,565	91,500	NA	NA
Physics	5,128	4,648	4,476	4,908	NA	NA
Physical sciences, n.e.c.	0	0	0	0	NA	NA
Environmental sciences, total	10,355	10,031	10,244	11,873	12,384	11,819
Atmospheric sciences	8,937	8,908	9,013	10,559	NA	NA
Geological sciences	1,418	1,123	1,231	1,314	NA	NA
Oceanography	0	0	0	0	NA	NA
Environmental sciences, n.e.c.	0	0	0	0	NA	NA
Math & computer sciences, total	15,068	12,178	13,606	14,604	16,075	15,538
Mathematics	15,068	12,178	13,606	14,604	NA	NA
Computer sciences	0	0	0	0	NA	NA
Math & computer sciences, n.e.c.	0	0	0	0	NA	NA
Engineering, total	57,335	56,351	56,717	68,232	71,243	70,196
Aeronautical	0	0	0	0	NA	NA
Astronautical	0	0	0	0	NA	NA
Chemical	8,069	8,504	6,510	7,141	NA	NA
Civil	5,745	4,745	4,683	5,045	NA	NA
Electrical	635	586	706	791	NA	NA
Mechanical	3,405	3,597	3,274	3,529	NA	NA
Metallurgy & materials	0	0	0	0	NA	NA
Engineering, n.e.c.	39,481	38,919	41,544	51,726	NA	NA
Social sciences, total	122,385	116,624	138,486	141,369	133,165	137,914
Anthropology	275	248	282	299	NA	NA
Economics	112,479	106,234	121,816	127,588	NA	NA
Political science	0	0	0	0	NA	NA
Sociology	9,631	10,142	16,388	13,482	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.	3,455	2,637	2,985	3,173	3,588	3,360

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