

Table 58. Federal obligations to industrial firms and FFRDCs administered by industrial firms for research and development, by State: fiscal years 1970-2000

[Dollars in thousands]

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State	1970	1971	1972	1973	1974	1975	1976	1977
Total	8,292,607	8,034,030	8,356,820	8,424,464	8,361,555	9,012,938	10,126,907	11,719,822
Alabama	164,500	139,212	127,561	136,414	111,613	84,700	92,922	112,127
Alaska	23,886	26,987	21,678	7,851	3,107	1,878	1,526	1,172
Arizona	23,804	30,125	38,654	30,388	40,272	47,238	55,891	65,028
Arkansas	2,236	8,529	822	544	283	178	1,968	536
California	2,638,744	2,073,964	2,148,984	2,461,137	2,627,000	3,235,692	3,765,150	4,010,736
Colorado	181,669	148,045	249,893	286,424	193,712	129,466	94,496	120,648
Connecticut	103,593	108,578	119,239	140,793	170,145	202,846	170,144	210,370
Delaware	13,699	8,394	11,587	6,322	3,658	1,411	1,054	7,287
District of Columbia	70,214	76,893	66,373	94,488	83,087	96,902	79,731	141,377
Florida	467,791	496,985	624,804	573,163	387,303	321,926	308,074	389,340
Georgia	21,635	26,434	13,842	11,349	10,480	11,065	10,452	17,576
Hawaii	21,149	18,399	22,115	21,789	19,328	16,963	7,476	9,041
Idaho	52,092	50,832	55,917	60,192	30,194	34,690	39,061	83,590
Illinois	22,221	24,879	28,607	22,060	47,235	38,568	48,060	102,163
Indiana	51,508	35,806	52,544	32,924	37,365	29,543	21,022	28,156
Iowa	3,381	1,586	3,112	4,888	5,534	6,691	6,308	8,001
Kansas	2,512	8,534	12,703	11,511	8,918	11,142	6,997	10,341
Kentucky	737	572	713	1,215	1,941	6,384	26,476	22,841
Louisiana	107,902	51,261	61,031	49,549	41,366	54,856	74,601	101,100
Maine	5,465	3,589	7,314	1,693	2,086	1,691	4,349	4,772
Maryland	295,838	327,870	355,374	390,572	410,823	421,674	486,098	489,251
Massachusetts	344,814	399,934	429,998	451,813	578,920	540,992	619,162	731,128
Michigan	81,355	101,306	86,676	59,205	91,683	132,880	108,827	179,156
Minnesota	67,755	51,494	69,997	59,476	41,677	54,304	68,967	93,856
Mississippi	1,631	17,863	8,272	14,999	13,077	12,512	17,705	22,824
Missouri	237,707	523,845	613,496	530,540	306,663	251,040	314,090	535,252
Montana	1,933	1,026	2,268	1,622	1,487	1,151	5,891	23,977
Nebraska	2,500	255	425	212	1,815	2,024	1,979	3,024
Nevada	142,549	111,556	91,512	92,741	79,919	100,095	127,319	129,039
New Hampshire	15,614	19,096	6,380	14,812	12,950	15,382	17,809	12,557
New Jersey	544,075	557,600	527,602	469,118	299,753	248,399	287,947	270,271
New Mexico	188,928	172,844	168,155	165,244	206,351	189,672	219,324	301,857
New York	843,312	708,150	624,263	471,624	542,523	529,823	557,200	592,428
North Carolina	5,632	4,903	5,277	6,124	5,810	4,489	6,767	8,780
North Dakota	5	716	140	26	211	0	333	2,682
Ohio	175,176	209,454	181,672	138,749	227,237	200,918	232,396	271,709
Oklahoma	4,538	4,825	1,895	3,055	3,416	2,153	6,086	7,700
Oregon	127	677	2,761	918	1,573	3,483	3,769	4,592
Pennsylvania	329,511	326,304	364,598	379,990	368,412	460,720	490,116	470,477
Rhode Island	7,207	8,003	15,650	13,652	23,013	21,110	19,143	15,980
South Carolina	8,931	9,336	10,882	11,290	14,014	3,593	10,377	40,151
South Dakota	874	3,435	1,239	512	3,244	131	1,222	2,132
Tennessee	157,009	147,471	147,552	161,222	192,412	215,068	314,256	470,150
Texas	407,498	329,199	360,741	353,002	323,142	365,257	451,836	441,334
Utah	19,047	9,695	9,035	11,411	15,821	23,678	43,327	73,910
Vermont	4,292	6,687	14,838	8,893	16,159	19,488	29,016	24,297
Virginia	83,401	101,458	126,851	175,019	216,840	271,704	297,506	333,616

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

Table 58. Federal obligations to industrial firms and FFRDCs administered by industrial firms for research and development, by State: fiscal years 1970-2000

[Dollars in thousands]

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State	1970	1971	1972	1973	1974	1975	1976	1977
Washington	297,863	487,782	443,922	468,484	530,536	560,741	558,953	673,423
West Virginia	770	9,872	79	3,714	2,895	18,180	6,335	12,692
Wisconsin	30,192	35,851	13,107	11,422	3,776	3,148	3,870	5,677
Wyoming	1	79	49	1	16	772	41	3,759
Outlying areas	6,630	1,479	511	290	465	865	1,141	23,685
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA
Other areas	NA	NA	NA	NA	NA	NA	NA	NA
Offices abroad	7,154	4,361	4,110	18	295	3,662	2,341	2,254

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

Table 58. Federal obligations to industrial firms and FFRDCs administered by industrial firms for research and development, by State: fiscal years 1970-2000

[Dollars in thousands]

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State	1978	1979	1980	1981	1982	1983	1984	1985
Total	12,539,635	13,392,165	14,177,623	16,091,446	18,509,677	18,343,047	20,061,068	23,357,274
Alabama	104,312	119,089	129,729	145,865	176,409	195,226	331,709	340,497
Alaska	506	1,692	1,971	2,158	1,412	5,403	6,621	6,082
Arizona	75,703	78,153	158,374	177,108	137,274	167,206	215,769	267,075
Arkansas	6,442	2,526	3,810	1,892	5,682	2,466	2,509	3,555
California	3,747,998	4,052,354	3,787,349	4,436,647	5,797,622	5,063,047	5,617,172	6,831,023
Colorado	166,085	173,693	267,887	286,533	301,323	166,671	224,493	297,350
Connecticut	206,065	218,513	348,982	350,208	312,364	445,157	406,595	447,516
Delaware	1,885	1,807	3,607	15,534	24,758	9,477	49,441	19,916
District of Columbia	97,281	123,504	129,706	95,900	122,162	79,467	333,912	406,389
Florida	423,326	478,269	660,891	805,500	912,553	827,714	691,568	717,220
Georgia	47,164	52,518	31,540	57,775	64,938	66,048	86,588	99,769
Hawaii	9,350	5,824	5,172	8,243	7,760	5,411	5,743	5,033
Idaho	79,009	101,728	108,033	72,310	57,475	141,042	177,309	201,471
Illinois	101,547	49,568	85,168	47,631	47,014	41,797	69,446	80,745
Indiana	27,699	32,093	49,278	53,023	66,597	84,914	50,003	78,934
Iowa	7,425	12,529	49,525	70,982	60,837	11,392	35,640	41,667
Kansas	77,907	106,521	318,170	436,883	603,757	61,321	67,012	100,200
Kentucky	25,625	4,943	67,064	60,392	58,253	46,685	9,795	10,140
Louisiana	101,523	146,157	125,357	255,623	160,618	108,954	49,538	33,884
Maine	6,678	4,786	5,375	6,251	5,208	10,103	17,864	14,997
Maryland	576,004	580,357	606,910	580,829	640,191	796,173	1,012,261	1,067,381
Massachusetts	839,940	1,121,206	1,066,775	1,259,297	1,544,034	1,208,673	1,343,407	1,609,982
Michigan	197,764	92,468	178,930	159,285	187,042	185,094	219,852	234,824
Minnesota	71,703	87,087	128,379	187,343	248,754	316,935	490,419	547,959
Mississippi	17,310	21,573	21,945	24,570	18,908	25,717	14,832	15,601
Missouri	711,922	647,209	673,936	692,481	783,377	446,510	509,845	531,833
Montana	1,210	11,736	18,964	11,468	10,785	8,246	379	209
Nebraska	2,238	5,137	4,118	5,029	6,197	16,469	2,113	1,316
Nevada	153,140	176,499	168,936	215,222	303,907	272,128	352,935	400,065
New Hampshire	45,270	64,691	17,523	21,789	16,246	31,194	69,298	67,233
New Jersey	251,229	309,477	312,932	347,160	450,569	544,860	547,343	691,672
New Mexico	468,808	409,963	453,933	590,406	636,286	634,485	693,293	728,674
New York	592,500	623,565	669,306	727,518	834,522	1,649,003	1,523,813	2,007,376
North Carolina	15,481	13,742	22,575	26,815	21,952	50,504	90,967	146,576
North Dakota	6,468	7,296	5,283	7,711	11,554	2,530	7,411	6,589
Ohio	275,789	411,586	406,456	411,242	388,397	706,230	742,805	780,590
Oklahoma	45,473	12,595	13,863	12,103	11,633	11,979	15,013	12,463
Oregon	5,886	7,276	8,496	13,579	12,762	5,964	29,164	32,657
Pennsylvania	589,336	632,629	502,563	495,196	601,885	586,554	522,275	669,480
Rhode Island	15,871	16,970	19,254	15,267	23,722	23,921	33,037	54,763
South Carolina	88,976	74,350	56,853	51,785	63,868	68,135	77,398	65,807
South Dakota	141	241	423	72	22	1,163	1,923	1,899
Tennessee	517,285	528,194	586,764	713,386	555,982	329,284	392,527	364,039
Texas	583,474	589,229	515,639	588,028	570,668	903,401	941,384	1,065,974
Utah	88,844	123,200	152,419	201,607	179,824	137,818	101,320	89,792
Vermont	3,835	948	20,666	4,347	20,227	6,206	12,727	13,838
Virginia	359,324	387,934	473,232	506,286	603,495	1,391,010	1,221,199	1,387,376

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

Table 58. Federal obligations to industrial firms and FFRDCs administered by industrial firms for research and development, by State: fiscal years 1970-2000

[Dollars in thousands]

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State	1978	1979	1980	1981	1982	1983	1984	1985
Washington	649,473	635,816	671,168	773,370	777,683	408,151	580,003	668,835
West Virginia	7,517	5,453	18,891	25,566	25,516	413	11,656	6,127
Wisconsin	12,575	5,388	6,065	5,587	8,111	7,238	17,361	32,337
Wyoming	5,152	421	1,100	142	215	238	11,227	9,797
Outlying areas	17,413	15,465	16,449	5,808	128	122	265	16,532
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA
Other areas	NA	NA	NA	NA	NA	NA	NA	NA
Offices abroad	8,754	6,197	19,889	24,694	27,199	27,198	22,889	24,215

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

Table 58. Federal obligations to industrial firms and FFRDCs administered by industrial firms for research and development, by State: fiscal years 1970-2000

[Dollars in thousands]

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State	1986	1987	1988	1989	1990	1991	1992	1993
Total	25,780,950	28,512,400	28,507,861	30,494,062	31,575,450	28,464,517	31,740,151	31,574,687
Alabama	616,111	642,764	692,719	936,666	1,028,872	970,069	1,095,627	1,134,370
Alaska	3,206	426	364	707	4,174	10,108	1,058	509
Arizona	207,510	215,561	151,721	247,584	322,527	220,526	223,560	147,469
Arkansas	894	12,488	13,030	12,514	11,661	21,716	9,929	4,905
California	6,994,982	8,607,325	9,582,699	9,782,551	10,090,129	8,755,182	10,033,954	9,221,077
Colorado	1,300,900	1,131,691	1,058,167	1,219,744	1,283,745	2,083,902	918,640	740,567
Connecticut	346,791	476,199	399,189	356,997	258,997	407,499	321,388	220,295
Delaware	12,337	13,626	15,981	12,443	4,205	8,941	12,768	17,864
District of Columbia	659,833	834,030	1,198,686	191,839	157,310	257,427	288,184	500,203
Florida	900,683	1,424,897	1,367,383	1,413,892	1,457,033	1,299,289	2,067,111	1,902,844
Georgia	60,199	127,234	76,374	71,722	82,944	168,575	2,177,441	2,633,914
Hawaii	1,933	4,939	7,534	11,330	15,105	10,465	52,192	11,873
Idaho	183,846	162,609	177,153	116,218	232,416	159,857	190,574	180,833
Illinois	105,533	146,750	139,852	145,436	165,462	120,538	99,646	80,801
Indiana	139,661	152,217	138,254	190,792	147,827	130,002	108,376	261,430
Iowa	122,924	43,938	69,796	48,610	37,171	26,953	18,048	17,511
Kansas	64,533	44,555	78,589	80,580	63,191	17,803	22,650	18,191
Kentucky	2,083	1,704	1,885	3,533	3,711	9,983	4,806	8,534
Louisiana	10,351	13,683	11,826	24,692	9,792	11,870	21,350	15,534
Maine	14,382	153,123	13,647	37,021	10,425	16,422	17,798	17,213
Maryland	1,071,929	1,110,560	1,079,011	1,380,643	1,596,515	1,548,902	1,639,850	2,201,606
Massachusetts	1,814,393	1,840,226	1,042,473	1,162,303	1,168,807	1,362,977	1,324,869	1,506,230
Michigan	178,212	145,907	117,523	335,814	381,601	330,927	422,827	359,694
Minnesota	350,228	319,781	385,246	390,120	313,574	212,108	185,667	140,918
Mississippi	14,259	16,019	22,426	32,115	287,288	28,037	32,527	46,164
Missouri	502,384	424,363	437,929	1,017,041	825,763	311,595	470,290	455,515
Montana	716	1,468	4,408	3,743	2,735	2,360	27,459	22,298
Nebraska	3,221	1,447	1,543	1,471	19,896	11,189	8,122	8,721
Nevada	354,272	367,473	349,929	336,532	356,267	370,283	349,264	313,149
New Hampshire	74,587	31,364	13,050	39,793	69,317	51,050	74,436	81,273
New Jersey	662,376	657,783	630,105	655,004	928,588	933,613	725,483	594,558
New Mexico	909,586	882,918	907,099	900,963	949,174	932,563	1,015,752	1,035,895
New York	2,070,966	1,655,406	1,415,356	1,517,169	1,612,018	1,433,203	1,590,566	957,065
North Carolina	157,141	192,549	217,947	175,524	211,736	164,317	152,433	95,261
North Dakota	225	57	243	346	9,306	837	6,543	595
Ohio	820,814	642,487	565,831	608,679	686,889	724,035	888,349	952,372
Oklahoma	10,237	21,589	14,274	26,721	72,744	38,567	28,630	25,377
Oregon	11,284	8,953	26,958	12,901	16,964	24,710	30,564	26,350
Pennsylvania	580,575	874,506	908,913	1,085,554	1,093,335	931,137	728,062	1,319,823
Rhode Island	73,792	70,240	50,929	51,645	89,203	134,495	88,999	233,984
South Carolina	72,407	64,978	71,759	114,106	161,490	170,617	75,828	76,981
South Dakota	2,232	1,870	2,211	2,473	2,191	3,129	3,436	3,363
Tennessee	381,454	473,007	289,344	299,441	415,334	417,631	366,669	354,935
Texas	1,313,985	1,499,590	1,703,985	2,203,669	2,330,600	1,166,412	1,612,563	1,253,665
Utah	102,345	255,490	314,712	334,556	174,417	189,252	36,034	36,434
Vermont	6,974	12,086	24,457	23,608	2,824	10,283	13,169	17,118
Virginia	1,642,637	1,158,648	1,306,165	1,474,122	1,373,296	1,426,312	1,609,631	1,748,365

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

Table 58. Federal obligations to industrial firms and FFRDCs administered by industrial firms for research and development, by State: fiscal years 1970-2000

[Dollars in thousands]

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State	1986	1987	1988	1989	1990	1991	1992	1993
Washington	772,892	1,470,435	1,327,719	1,319,382	953,571	643,972	311,903	265,947
West Virginia	13,181	28,953	35,685	2,226	5,110	26,709	49,046	39,171
Wisconsin	13,455	17,132	29,918	51,241	40,110	38,711	33,677	44,412
Wyoming	34	27	110	100	17,086	1,775	15,137	7,583
Outlying areas	4,129	9,316	230	5,752	8,090	112,840	133,626	212,578
Puerto Rico	NA	NA	NA	NA	NA	NA	NA	NA
Other areas	NA	NA	NA	NA	NA	NA	NA	NA
Offices abroad	45,336	46,013	15,524	24,434	12,914	2,842	3,640	1,350

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

Table 58. Federal obligations to industrial firms and FFRDCs administered by industrial firms for research and development, by State: fiscal years 1970-2000

[Dollars in thousands]

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State	1994	1995	1996	1997	1998	1999	2000
Total	31,657,172	31,356,300	31,420,097	32,462,238	33,098,054	33,100,201	28,734,523
Alabama	833,531	1,080,881	1,226,300	1,319,237	877,776	765,210	642,543
Alaska	47,962	8,729	8,813	14,893	17,637	16,095	14,398
Arizona	423,935	528,271	370,065	397,840	642,984	705,783	705,666
Arkansas	2,811	4,433	4,116	5,782	2,031	1,749	3,003
California	6,057,240	6,707,584	7,158,389	7,816,020	5,952,328	8,761,341	6,917,102
Colorado	726,547	422,978	642,652	608,137	604,607	622,424	507,275
Connecticut	429,026	634,649	514,502	535,620	385,674	309,035	421,158
Delaware	9,532	15,374	23,233	8,777	7,877	10,662	17,345
District of Columbia	350,316	380,825	399,855	167,567	202,364	175,078	277,705
Florida	2,047,291	1,565,042	2,051,237	2,363,556	1,683,601	1,160,539	1,232,024
Georgia	5,048,945	3,847,646	3,660,288	3,444,087	2,920,311	1,421,682	1,990,999
Hawaii	11,210	11,179	25,124	25,893	33,506	50,602	50,404
Idaho	178,949	167,703	161,728	167,393	165,704	150,332	170,911
Illinois	85,475	133,644	122,340	114,294	112,934	124,253	145,672
Indiana	122,674	182,329	157,497	138,563	142,247	147,381	186,092
Iowa	18,758	11,973	21,609	33,365	24,611	17,091	19,948
Kansas	11,173	42,362	133,691	171,241	45,720	68,276	104,423
Kentucky	14,159	4,408	3,338	7,436	127,320	43,799	75,518
Louisiana	40,037	22,035	77,573	31,766	20,033	11,039	15,517
Maine	36,902	9,089	11,535	19,962	45,947	87,469	167,883
Maryland	1,727,413	2,090,507	1,544,627	1,897,594	2,221,281	2,195,228	2,579,752
Massachusetts	1,226,730	1,333,996	1,210,405	1,308,755	993,290	926,382	1,673,263
Michigan	227,762	150,805	159,054	166,289	166,611	166,114	158,872
Minnesota	183,537	253,668	345,050	286,173	472,522	510,161	364,837
Mississippi	81,135	26,217	73,189	72,030	70,172	77,026	104,886
Missouri	1,971,805	1,299,059	943,688	786,905	560,924	504,220	417,238
Montana	3,873	6,276	5,199	10,103	9,897	5,048	9,510
Nebraska	6,440	4,011	12,601	5,761	2,104	2,807	4,761
Nevada	270,869	310,215	191,470	224,446	214,576	219,650	199,188
New Hampshire	116,029	121,022	171,908	172,829	163,571	178,325	227,935
New Jersey	632,130	606,799	553,275	588,294	784,452	1,877,394	1,150,533
New Mexico	865,680	854,801	894,672	903,083	784,532	864,483	937,271
New York	1,027,741	945,594	884,755	770,608	713,807	726,623	730,647
North Carolina	113,980	99,353	116,319	132,887	121,132	135,448	100,803
North Dakota	597	539	692	312	376	1,592	7,164
Ohio	732,833	809,193	701,481	776,770	4,388,171	2,544,092	554,622
Oklahoma	36,364	55,448	35,668	53,782	53,889	39,049	41,660
Oregon	44,341	39,056	50,958	28,339	59,037	86,604	124,574
Pennsylvania	721,534	1,245,719	862,988	775,429	702,523	597,896	949,767
Rhode Island	116,114	178,264	169,559	112,220	78,082	55,254	56,005
South Carolina	83,678	68,429	79,913	30,436	41,943	59,140	77,157
South Dakota	2,710	2,737	6,412	6,480	6,083	6,221	4,829
Tennessee	362,408	313,327	288,752	272,184	361,374	373,626	53,986
Texas	2,282,216	2,699,535	2,162,224	2,336,624	2,741,735	2,376,351	1,196,230
Utah	96,878	95,394	96,659	68,306	111,547	61,297	46,929
Vermont	6,955	13,358	5,513	7,614	12,827	9,900	11,521
Virginia	1,876,372	1,479,410	2,522,738	2,718,179	2,694,850	3,407,782	2,807,625

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

Table 58. Federal obligations to industrial firms and FFRDCs administered by industrial firms for research and development, by State: fiscal years 1970-2000

[Dollars in thousands]

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State	1994	1995	1996	1997	1998	1999	2000
Washington	252,012	329,344	394,330	451,601	427,163	367,398	284,141
West Virginia	43,555	81,413	98,016	39,734	84,652	42,758	52,805
Wisconsin	37,116	35,859	36,170	28,994	16,017	19,094	21,332
Wyoming	9,754	223	278	675	1,108	933	5,146
Outlying areas	61	684	340	3,136	20,107	11,784	23,291
Puerto Rico	0	0	45	59	3,311	4,193	8,217
Other areas	61	684	295	3,077	16,796	7,591	15,074
Offices abroad	77	24,911	27,309	34,237	2,487	681	90,657

KEY: NA = Not applicable (indicates that the data collected for this table were not recorded at that level for that particular fiscal year)

NOTES: Only the following 10 agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Health & Human Services, Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the 10 major R&D-supporting agencies included in this table represent approximately 99 percent of total Federal R&D obligations in fiscal year 2000.

Although the non-geographic historical tables incorporate corrections to previously reported data that have been submitted by the reporting agencies, corresponding corrections to the geographic distributions are rarely obtainable.

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

Beginning in fiscal year 2000, the National Aeronautics & Space Administration reclassified Space Station as a physical asset and Space Station Research as equipment, and transferred funding for the program from R&D to R&D plant.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: Fiscal Years 2000, 2001, and 2002