

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2008

(Dollars in thousands)

State/location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Alabama	2,782,193	1,034,808	1,400,816	0	309,267	0	28,664	0	8,638
Department of Agriculture	25,225	9,765	58	0	14,948	0	0	0	454
Department of Commerce	4,770	134	35	0	4,447	0	120	0	34
Department of Defense, research	104,156	41,994	48,047	0	11,773	0	2,342	0	0
Department of Defense, total development ^b	2,128,023	955,444	1,153,248	0	8,357	0	3,838	0	7,136
Department of Energy	24,874	0	16,865	0	7,202	0	807	0	0
Department of Health and Human Services	257,682	1,294	5,099	0	229,953	0	20,529	0	807
Department of Homeland Security	1,309	447	60	0	802	0	0	0	0
Department of the Interior	5,628	5,193	0	0	264	0	0	0	171
Department of Transportation	2,492	157	270	0	2,029	0	0	0	36
Environmental Protection Agency	50	0	0	0	0	0	50	0	0
National Aeronautics and Space Administration	208,256	20,380	176,742	0	10,156	0	978	0	0
National Science Foundation	19,728	0	392	0	19,336	0	0	0	0
Alaska	222,163	78,164	51,002	0	76,331	0	10,117	0	6,549
Department of Agriculture	18,770	12,977	0	0	5,793	0	0	0	0
Department of Commerce	25,078	17,421	0	0	7,285	0	70	0	302
Department of Defense, research	16,224	1	11,955	0	4,025	0	243	0	0
Department of Defense, total development ^b	82,518	27,652	35,638	0	17,304	0	1,924	0	0
Department of Energy	3,851	0	167	0	1,958	0	0	0	1,726
Department of Health and Human Services	13,799	0	753	0	9,486	0	882	0	2,678
Department of the Interior	23,586	19,966	346	0	1,983	0	513	0	778
Department of Transportation	1,715	0	650	0	118	0	0	0	947
Environmental Protection Agency	70	0	70	0	0	0	0	0	0
National Aeronautics and Space Administration	5,050	147	1,220	0	3,393	0	290	0	0
National Science Foundation	31,502	0	203	0	24,986	0	6,195	0	118
Arizona	2,449,176	855,215	1,149,175	0	334,533	65,600	35,488	0	9,164
Department of Agriculture	29,416	18,295	0	0	11,051	0	18	0	52
Department of Commerce	1,953	682	19	0	1,252	0	0	0	0
Department of Defense, research	71,661	8,510	38,002	0	22,376	5	2,768	0	0
Department of Defense, total development ^b	1,847,445	754,038	1,080,994	0	7,638	0	0	0	4,775
Department of Energy	9,911	0	2,180	0	7,731	0	0	0	0
Department of Health and Human Services	164,672	0	5,860	0	132,749	0	25,091	0	972
Department of Homeland Security	35,748	26,465	2,235	0	6,404	0	0	0	644
Department of the Interior	27,218	24,598	19	0	2,358	0	0	0	243
Department of Transportation	3,425	0	158	0	505	0	409	0	2,353
Environmental Protection Agency	1,656	0	70	0	1,586	0	0	0	0
National Aeronautics and Space Administration	106,788	22,627	18,730	0	59,508	0	5,922	0	0
National Science Foundation	149,283	0	908	0	81,375	65,595	1,280	0	125
Arkansas	145,265	46,234	11,715	0	73,174	0	11,224	0	2,918
Department of Agriculture	38,294	18,960	0	0	13,033	0	5,882	0	419

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2008

(Dollars in thousands)

State/location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Department of Commerce	61	2	0	0	59	0	0	0	0
Department of Defense, research	3,444	70	300	0	3,074	0	0	0	0
Department of Defense, total development ^b	8,117	3,059	4,688	0	370	0	0	0	0
Department of Energy	564	0	0	0	564	0	0	0	0
Department of Health and Human Services	79,339	20,541	3,328	0	49,464	0	5,342	0	664
Department of Homeland Security	785	0	349	0	436	0	0	0	0
Department of the Interior	3,887	3,602	0	0	168	0	0	0	117
Department of Transportation	1,718	0	0	0	0	0	0	0	1,718
National Aeronautics and Space Administration	711	0	298	0	413	0	0	0	0
National Science Foundation	8,345	0	2,752	0	5,593	0	0	0	0
California	19,938,653	1,798,227	11,222,144	1,041,958	3,956,001	667,029	977,974	247,850	27,470
Department of Agriculture	129,203	90,685	219	0	37,346	0	859	0	94
Department of Commerce	23,963	431	10,631	0	11,951	0	893	0	57
Department of Defense, research	887,012	112,359	439,402	13,018	254,040	2,605	45,709	19,879	0
Department of Defense, total development ^b	11,405,237	1,445,524	9,618,689	21,183	71,775	9,407	10,843	227,816	0
Department of Energy	1,745,017	1,320	62,100	935,702	115,871	613,331	8,781	0	7,912
Department of Health and Human Services	3,399,571	1,510	214,186	2,645	2,305,625	37,876	831,757	0	5,972
Department of Homeland Security	129,819	17,816	38,629	68,707	3,386	1,136	145	0	0
Department of the Interior	49,062	43,255	955	0	4,384	0	413	0	55
Department of Transportation	28,241	4,203	9,916	0	1,159	0	557	0	12,406
Environmental Protection Agency	5,967	0	1,109	0	3,484	0	400	0	974
National Aeronautics and Space Administration	1,513,316	78,608	805,449	379	600,028	2,674	26,178	0	0
National Science Foundation	622,245	2,516	20,859	324	546,952	0	51,439	155	0
Colorado	2,668,121	294,759	1,568,904	0	444,596	12,668	181,355	142,938	22,901
Department of Agriculture	46,665	32,779	0	0	13,415	0	186	0	285
Department of Commerce	154,087	131,998	5,443	0	10,575	1,025	5,046	0	0
Department of Defense, research	81,407	5,666	39,441	0	32,085	1,284	1,882	1,049	0
Department of Defense, total development ^b	814,322	54,961	749,501	0	3,552	4,578	0	1,730	0
Department of Energy	168,892	349	4,779	0	16,643	0	4,645	140,159	2,317
Department of Health and Human Services	371,858	17,935	29,762	0	260,230	0	45,642	0	18,289
Department of Homeland Security	5,596	189	5,407	0	0	0	0	0	0
Department of the Interior	26,572	21,570	1,854	0	2,827	0	80	0	241
Department of Transportation	20,617	5,710	6,996	0	402	5,212	623	0	1,674
Environmental Protection Agency	2,603	0	205	0	2,398	0	0	0	0
National Aeronautics and Space Administration	757,061	22,524	692,484	0	33,518	569	7,966	0	0
National Science Foundation	218,441	1,078	33,032	0	68,951	0	115,285	0	95
Connecticut	1,815,401	37,918	1,212,408	0	525,241	0	34,123	0	5,711
Department of Agriculture	10,441	2,808	0	0	5,845	0	25	0	1,763
Department of Commerce	3,683	1	0	0	3,293	0	389	0	0
Department of Defense, research	63,643	288	37,731	0	9,747	0	15,877	0	0

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2008

(Dollars in thousands)

State/location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Department of Defense, total development ^b	1,155,901	21,886	1,133,394	0	621	0	0	0	0
Department of Energy	20,172	114	8,440	0	11,618	0	0	0	0
Department of Health and Human Services	479,134	0	11,918	0	447,060	0	17,412	0	2,744
Department of Homeland Security	19,926	10,521	6,924	0	2,481	0	0	0	0
Department of the Interior	2,164	2,039	0	0	119	0	0	0	6
Department of Transportation	2,460	114	228	0	920	0	0	0	1,198
Environmental Protection Agency	726	0	120	0	606	0	0	0	0
National Aeronautics and Space Administration	14,240	147	11,759	0	2,334	0	0	0	0
National Science Foundation	42,911	0	1,894	0	40,597	0	420	0	0
Delaware	144,314	4,197	43,707	0	79,467	0	15,816	0	1,127
Department of Agriculture	8,633	2,051	0	0	6,582	0	0	0	0
Department of Commerce	2,476	72	0	0	2,404	0	0	0	0
Department of Defense, research	31,374	70	14,842	0	5,189	0	11,273	0	0
Department of Defense, total development ^b	20,483	181	10,680	0	9,622	0	0	0	0
Department of Energy	4,547	0	45	0	4,502	0	0	0	0
Department of Health and Human Services	31,588	0	3,238	0	24,050	0	4,200	0	100
Department of Homeland Security	87	0	0	0	87	0	0	0	0
Department of the Interior	1,947	1,823	0	0	124	0	0	0	0
Department of Transportation	1,961	0	53	0	881	0	0	0	1,027
Environmental Protection Agency	239	0	225	0	14	0	0	0	0
National Aeronautics and Space Administration	16,403	0	14,424	0	1,979	0	0	0	0
National Science Foundation	24,576	0	200	0	24,033	0	343	0	0
District of Columbia	17,537,244	4,736,518	12,316,929	0	209,883	0	263,693	6,079	4,142
Department of Agriculture	292,312	272,513	15,618	0	1,632	0	1,743	0	806
Department of Commerce	3,354	605	684	0	774	0	1,291	0	0
Department of Defense, research	337,582	270,103	47,724	0	3,909	0	15,817	29	0
Department of Defense, total development ^b	15,652,109	3,622,636	12,009,951	0	12,661	0	6,861	0	0
Department of Energy	332,533	292,870	24,723	0	1,261	0	13,679	0	0
Department of Health and Human Services	259,221	5,739	20,616	0	165,126	0	66,348	0	1,392
Department of Homeland Security	39,304	30,461	7,105	0	130	0	1,608	0	0
Department of the Interior	15,161	14,140	0	0	114	0	907	0	0
Department of Transportation	280,608	68,333	174,836	0	1,311	0	28,134	6,050	1,944
Environmental Protection Agency	58,498	52,691	712	0	0	0	5,095	0	0
National Aeronautics and Space Administration	120,483	88,408	7,014	0	6,213	0	18,848	0	0
National Science Foundation	146,079	18,019	7,946	0	16,752	0	103,362	0	0
Florida	2,290,401	664,719	911,832	0	621,136	0	80,510	0	12,204
Department of Agriculture	61,787	38,125	0	0	23,419	0	1	0	242
Department of Commerce	42,700	32,560	106	0	8,120	0	1,749	0	165
Department of Defense, research	247,490	62,275	92,541	0	84,083	0	8,591	0	0

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2008

(Dollars in thousands)

State/location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Department of Defense, total development ^b	1,175,704	416,311	732,756	0	24,458	0	1,306	0	873
Department of Energy	18,657	0	3,945	0	14,146	0	566	0	0
Department of Health and Human Services	420,741	0	10,089	0	342,610	0	66,203	0	1,839
Department of Homeland Security	4,728	2,731	1,150	0	203	0	0	0	644
Department of the Interior	23,444	19,341	1,504	0	2,434	0	0	0	165
Department of Transportation	10,952	178	187	0	2,308	0	13	0	8,266
Environmental Protection Agency	14,999	14,115	285	0	599	0	0	0	0
National Aeronautics and Space Administration	155,334	79,083	65,712	0	9,238	0	1,291	0	10
National Science Foundation	113,865	0	3,557	0	109,518	0	790	0	0
Georgia	1,386,021	335,516	414,410	0	595,134	0	31,121	0	9,839
Department of Agriculture	74,712	52,178	40	0	21,941	0	50	0	503
Department of Commerce	1,389	203	0	0	1,138	0	0	0	48
Department of Defense, research	57,521	1,517	8,387	0	38,430	0	9,187	0	0
Department of Defense, total development ^b	549,120	148,609	372,146	0	23,588	0	4,747	0	30
Department of Energy	25,165	0	4,004	0	11,937	0	9,224	0	0
Department of Health and Human Services	529,075	92,905	19,700	0	404,435	0	4,256	0	7,779
Department of Homeland Security	4,606	3,293	5	0	0	0	1,308	0	0
Department of the Interior	30,622	29,157	0	0	18	0	1,395	0	52
Department of Transportation	4,585	0	1,664	0	1,494	0	0	0	1,427
Environmental Protection Agency	7,831	7,106	65	0	60	0	600	0	0
National Aeronautics and Space Administration	22,956	412	5,811	0	16,732	0	0	0	0
National Science Foundation	78,439	136	2,588	0	75,361	0	354	0	0
Hawaii	347,753	90,594	79,012	0	152,185	0	24,759	0	1,204
Department of Agriculture	24,243	11,014	0	0	8,627	0	4,585	0	17
Department of Commerce	12,576	10,659	0	0	1,619	0	284	0	14
Department of Defense, research	37,400	377	29,216	0	7,737	0	70	0	0
Department of Defense, total development ^b	139,683	59,673	44,017	0	28,741	0	7,252	0	0
Department of Energy	5,155	0	0	0	5,155	0	0	0	0
Department of Health and Human Services	72,221	0	4,645	0	55,490	0	10,913	0	1,173
Department of Homeland Security	2,906	0	0	0	2,906	0	0	0	0
Department of the Interior	9,214	7,981	0	0	1,133	0	100	0	0
National Aeronautics and Space Administration	16,486	890	453	0	13,810	0	1,334	0	0
National Science Foundation	27,869	0	681	0	26,967	0	221	0	0
Idaho	355,408	60,051	114,459	136,022	39,786	0	4,662	0	428
Department of Agriculture	25,321	17,045	0	0	8,276	0	0	0	0
Department of Commerce	785	1	652	0	28	0	0	0	104
Department of Defense, research	17,144	3,556	3,376	1,668	8,544	0	0	0	0
Department of Defense, total development ^b	19,594	8,739	5,408	4,147	1,300	0	0	0	0
Department of Energy	238,074	1	103,629	130,207	1,079	0	3,158	0	0

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2008

(Dollars in thousands)

State/location and agency	Total	Intramural ^a	Extramural						State, local governments
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	
Department of Health and Human Services	12,224	0	688	0	9,732	0	1,504	0	300
Department of Homeland Security	5,009	5,009	0	0	0	0	0	0	0
Department of the Interior	26,762	24,623	88	0	2,027	0	0	0	24
National Aeronautics and Space Administration	2,353	1,077	408	0	868	0	0	0	0
National Science Foundation	8,142	0	210	0	7,932	0	0	0	0
Illinois	2,168,530	126,947	234,261	0	1,043,626	672,550	87,570	0	3,576
Department of Agriculture	59,411	42,502	0	0	16,851	0	58	0	0
Department of Commerce	2,478	180	1,220	0	1,078	0	0	0	0
Department of Defense, research	134,455	17,614	48,159	0	57,008	7,151	4,523	0	0
Department of Defense, total development ^b	189,487	45,657	131,799	0	9,794	2,140	97	0	0
Department of Energy	718,006	7,108	885	0	56,724	650,819	2,470	0	0
Department of Health and Human Services	783,029	114	25,171	0	673,086	12,134	71,600	0	924
Department of Homeland Security	111	0	4	0	0	107	0	0	0
Department of the Interior	11,334	10,348	0	0	966	0	0	0	20
Department of Transportation	11,617	85	6,137	0	2,033	0	853	0	2,509
Environmental Protection Agency	5,052	0	4,752	0	300	0	0	0	0
National Aeronautics and Space Administration	28,394	3,273	13,433	0	11,164	199	325	0	0
National Science Foundation	225,156	66	2,701	0	214,622	0	7,644	0	123
Indiana	672,029	162,437	150,212	0	353,709	0	3,814	0	1,857
Department of Agriculture	18,666	6,166	0	0	12,287	0	47	0	166
Department of Commerce	770	3	0	0	767	0	0	0	0
Department of Defense, research	53,656	2,656	20,454	0	28,726	0	1,820	0	0
Department of Defense, total development ^b	261,344	146,667	112,548	0	2,129	0	0	0	0
Department of Energy	19,157	0	25	0	19,132	0	0	0	0
Department of Health and Human Services	211,516	0	11,675	0	197,406	0	1,917	0	518
Department of Homeland Security	7,065	0	0	0	7,065	0	0	0	0
Department of the Interior	6,477	5,950	0	0	527	0	0	0	0
Department of Transportation	4,444	274	1,020	0	1,977	0	0	0	1,173
Environmental Protection Agency	333	0	0	0	333	0	0	0	0
National Aeronautics and Space Administration	9,574	721	3,211	0	5,642	0	0	0	0
National Science Foundation	79,027	0	1,279	0	77,718	0	30	0	0
Iowa	634,853	57,981	237,234	0	295,240	23,904	13,605	0	6,890
Department of Agriculture	69,218	48,365	0	0	20,775	0	75	0	3
Department of Commerce	815	152	0	0	663	0	0	0	0
Department of Defense, research	19,229	56	12,523	0	6,590	60	0	0	0
Department of Defense, total development ^b	219,776	246	215,020	0	4,265	245	0	0	0
Department of Energy	34,419	0	0	0	6,537	22,553	5,329	0	0
Department of Health and Human Services	221,633	0	1,952	0	211,180	0	8,201	0	300
Department of Homeland Security	2,365	1,453	377	0	535	0	0	0	0
Department of the Interior	4,797	4,432	0	0	159	0	0	0	206

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2008

(Dollars in thousands)

State/location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Department of Transportation	15,443	3,277	1,020	0	3,719	1,046	0	0	6,381
Environmental Protection Agency	150	0	0	0	150	0	0	0	0
National Aeronautics and Space Administration	10,216	0	5,793	0	4,424	0	0	0	0
National Science Foundation	36,792	0	549	0	36,243	0	0	0	0
Kansas	300,406	18,741	119,648	0	152,008	0	6,435	0	3,574
Department of Agriculture	21,607	8,630	0	0	12,977	0	0	0	0
Department of Commerce	58	2	0	0	56	0	0	0	0
Department of Defense, research	12,706	1,020	1,990	0	9,480	0	216	0	0
Department of Defense, total development ^b	103,683	499	102,578	0	606	0	0	0	0
Department of Energy	6,607	0	374	0	6,198	0	35	0	0
Department of Health and Human Services	102,094	503	2,357	0	91,321	0	6,091	0	1,822
Department of the Interior	8,753	8,087	0	0	666	0	0	0	0
Department of Transportation	6,000	0	15	0	4,233	0	0	0	1,752
Environmental Protection Agency	1,221	0	721	0	500	0	0	0	0
National Aeronautics and Space Administration	12,062	0	10,913	0	1,134	0	15	0	0
National Science Foundation	25,615	0	700	0	24,837	0	78	0	0
Kentucky	252,464	23,162	43,115	0	182,121	0	1,028	0	3,039
Department of Agriculture	19,026	3,021	0	0	15,941	0	0	0	64
Department of Commerce	45	1	0	0	44	0	0	0	0
Department of Defense, research	25,896	6,493	11,325	0	7,760	0	318	0	0
Department of Defense, total development ^b	28,541	7,780	20,651	0	110	0	0	0	0
Department of Energy	3,152	0	590	0	2,562	0	0	0	0
Department of Health and Human Services	150,827	0	8,601	0	141,759	0	167	0	300
Department of Homeland Security	128	0	128	0	0	0	0	0	0
Department of the Interior	6,413	5,793	0	0	77	0	543	0	0
Department of Transportation	2,846	0	17	0	154	0	0	0	2,675
Environmental Protection Agency	818	0	0	0	818	0	0	0	0
National Aeronautics and Space Administration	1,324	74	507	0	744	0	0	0	0
National Science Foundation	13,448	0	1,296	0	12,152	0	0	0	0
Louisiana	406,131	115,122	85,519	0	192,652	0	6,615	0	6,222
Department of Agriculture	49,434	36,471	0	0	12,067	0	189	0	707
Department of Commerce	4,902	3,095	0	0	1,737	0	19	0	51
Department of Defense, research	30,913	163	6,303	0	23,814	0	633	0	0
Department of Defense, total development ^b	128,907	59,217	66,542	0	1,612	0	1,536	0	0
Department of Energy	6,109	0	479	0	5,630	0	0	0	0
Department of Health and Human Services	135,566	2,476	1,932	0	126,390	0	3,976	0	792
Department of Homeland Security	4	0	4	0	0	0	0	0	0
Department of the Interior	15,641	13,700	50	0	1,891	0	0	0	0
Department of Transportation	3,840	0	536	0	0	0	212	0	3,092

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2008

(Dollars in thousands)

State/location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Environmental Protection Agency	738	0	0	0	579	0	0	0	159
National Aeronautics and Space Administration	10,388	0	9,086	0	1,301	0	0	0	0
National Science Foundation	19,689	0	587	0	17,631	0	50	0	1,421
Maine	168,009	11,889	44,168	0	42,373	0	68,230	0	1,349
Department of Agriculture	7,544	3,206	0	0	4,338	0	0	0	0
Department of Commerce	1,226	14	64	0	787	0	0	0	361
Department of Defense, research	15,491	10	3,809	0	11,064	0	608	0	0
Department of Defense, total development ^b	42,580	6,340	36,240	0	0	0	0	0	0
Department of Energy	971	0	0	0	806	0	165	0	0
Department of Health and Human Services	76,718	0	1,698	0	12,505	0	62,115	0	400
Department of Homeland Security	3	0	0	0	3	0	0	0	0
Department of the Interior	2,247	2,043	59	0	21	0	0	0	124
Department of Transportation	1,329	276	589	0	0	0	0	0	464
Environmental Protection Agency	15	0	0	0	15	0	0	0	0
National Aeronautics and Space Administration	2,668	0	1,709	0	959	0	0	0	0
National Science Foundation	17,217	0	0	0	11,875	0	5,342	0	0
Maryland	13,312,685	8,621,167	2,297,324	597,298	1,410,154	0	381,357	88	5,298
Department of Agriculture	197,444	184,358	0	0	12,643	0	327	0	116
Department of Commerce	465,748	441,628	8,716	0	14,325	0	1,068	0	11
Department of Defense, research	689,726	370,812	223,051	0	86,929	0	8,832	88	14
Department of Defense, total development ^b	3,479,862	1,980,670	1,137,479	492	239,773	0	121,448	0	0
Department of Energy	25,546	4,357	3,408	0	12,559	0	5,222	0	0
Department of Health and Human Services	7,357,527	5,254,607	508,460	596,806	836,555	0	157,954	0	3,145
Department of Homeland Security	163,008	131,111	18,956	0	11,639	0	1,302	0	0
Department of the Interior	11,022	9,781	218	0	727	0	209	0	87
Department of Transportation	21,587	2,217	14,947	0	1,691	0	943	0	1,789
Environmental Protection Agency	9,290	0	8,391	0	899	0	0	0	0
National Aeronautics and Space Administration	808,125	236,053	371,934	0	120,383	0	79,675	0	81
National Science Foundation	83,800	5,573	1,764	0	72,031	0	4,377	0	55
Massachusetts	6,883,096	890,707	2,686,829	0	1,551,701	319,285	1,257,872	170,073	6,630
Department of Agriculture	28,078	12,619	184	0	13,666	0	1,153	0	456
Department of Commerce	41,506	24,315	9,610	0	7,526	0	55	0	0
Department of Defense, research	449,739	70,955	199,364	0	118,688	38,480	22,066	186	0
Department of Defense, total development ^b	3,233,216	559,354	2,184,810	0	40,856	272,777	5,532	169,887	0
Department of Energy	92,425	250	6,669	0	82,140	0	3,366	0	0
Department of Health and Human Services	2,359,178	1,208	158,391	0	1,007,252	1,913	1,187,720	0	2,694
Department of Homeland Security	62,210	13,921	37,155	0	6,055	4,115	320	0	644
Department of the Interior	20,028	17,037	561	0	1,583	0	847	0	0
Department of Transportation	47,754	33,287	6,997	0	2,348	2,000	286	0	2,836
Environmental Protection Agency	12,255	0	3,255	0	4,742	0	4,258	0	0

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2008

(Dollars in thousands)

State/location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
National Aeronautics and Space Administration	259,011	157,761	58,337	0	38,341	0	4,573	0	0
National Science Foundation	277,696	0	21,496	0	228,504	0	27,696	0	0
Michigan	1,866,491	134,931	882,456	0	806,891	0	36,661	0	5,553
Department of Agriculture	27,675	5,826	20	0	21,313	0	516	0	0
Department of Commerce	10,385	7,494	895	0	1,829	0	167	0	0
Department of Defense, research	106,830	26,452	23,521	0	54,355	0	2,502	0	0
Department of Defense, total development ^b	859,180	85,824	753,646	0	19,710	0	0	0	0
Department of Energy	29,598	0	4,136	0	25,260	0	202	0	0
Department of Health and Human Services	666,418	503	91,425	0	540,642	0	32,116	0	1,732
Department of Homeland Security	822	0	8	0	814	0	0	0	0
Department of the Interior	4,382	3,785	0	0	519	0	0	0	78
Department of Transportation	12,006	3,338	1,136	0	3,849	0	450	0	3,233
Environmental Protection Agency	7,650	1,341	225	0	5,584	0	0	0	500
National Aeronautics and Space Administration	16,262	368	4,912	0	10,973	0	0	0	10
National Science Foundation	125,283	0	2,532	0	122,043	0	708	0	0
Minnesota	1,393,037	47,183	747,535	0	371,370	0	223,072	0	3,876
Department of Agriculture	43,058	26,818	0	0	16,222	0	18	0	0
Department of Commerce	703	30	36	0	637	0	0	0	0
Department of Defense, research	42,298	408	30,556	0	10,599	0	735	0	0
Department of Defense, total development ^b	730,602	534	692,766	0	2,276	0	35,026	0	0
Department of Energy	6,871	0	0	0	6,871	0	0	0	0
Department of Health and Human Services	468,147	0	13,661	0	267,327	0	186,662	0	497
Department of Homeland Security	697	0	697	0	0	0	0	0	0
Department of the Interior	316	175	0	0	141	0	0	0	0
Department of Transportation	2,992	0	74	0	16	0	23	0	2,879
Environmental Protection Agency	20,426	19,214	0	0	712	0	0	0	500
National Aeronautics and Space Administration	13,516	4	7,899	0	5,109	0	503	0	0
National Science Foundation	63,411	0	1,846	0	61,460	0	105	0	0
Mississippi	435,207	145,760	159,863	0	123,427	0	3,433	0	2,724
Department of Agriculture	86,574	57,156	0	0	28,389	0	694	0	335
Department of Commerce	11,396	1,001	0	0	10,338	0	33	0	24
Department of Defense, research	52,203	27,927	15,951	0	8,325	0	0	0	0
Department of Defense, total development ^b	170,958	44,374	109,604	0	16,980	0	0	0	0
Department of Energy	1,878	0	0	0	1,878	0	0	0	0
Department of Health and Human Services	43,820	0	582	0	41,020	0	1,625	0	593
Department of Homeland Security	9,581	7,402	0	0	2,179	0	0	0	0
Department of the Interior	7,345	6,841	0	0	504	0	0	0	0
Department of Transportation	2,614	0	0	0	980	0	0	0	1,634
Environmental Protection Agency	538	0	0	0	0	0	400	0	138
National Aeronautics and Space Administration	36,593	1,059	33,308	0	1,545	0	681	0	0

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2008

(Dollars in thousands)

State/location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
National Science Foundation	11,707	0	418	0	11,289	0	0	0	0
Missouri	1,111,285	45,838	454,253	0	583,068	0	20,627	0	7,499
Department of Agriculture	31,652	12,964	0	0	18,134	0	185	0	369
Department of Commerce	209	2	0	0	207	0	0	0	0
Department of Defense, research	83,574	6,728	62,658	0	13,522	0	666	0	0
Department of Defense, total development ^b	389,749	10,267	377,543	0	1,807	0	132	0	0
Department of Energy	16,274	6,030	0	0	7,786	0	99	0	2,359
Department of Health and Human Services	507,482	503	4,659	0	486,599	0	13,554	0	2,167
Department of Homeland Security	2,685	0	930	0	1,755	0	0	0	0
Department of the Interior	9,004	8,244	0	0	591	0	0	0	169
Department of Transportation	5,796	515	0	0	0	0	2,846	0	2,435
Environmental Protection Agency	600	0	0	0	600	0	0	0	0
National Aeronautics and Space Administration	16,065	585	7,021	0	8,459	0	0	0	0
National Science Foundation	48,195	0	1,442	0	43,608	0	3,145	0	0
Montana	159,461	55,139	19,668	0	69,065	0	11,742	0	3,847
Department of Agriculture	22,319	13,192	0	0	6,545	0	2,582	0	0
Department of Commerce	183	43	103	0	37	0	0	0	0
Department of Defense, research	11,369	48	7,511	0	3,810	0	0	0	0
Department of Defense, total development ^b	10,872	5,981	2,137	0	598	0	2,156	0	0
Department of Energy	6,909	0	444	0	5,857	0	608	0	0
Department of Health and Human Services	66,538	24,570	3,240	0	32,808	0	5,720	0	200
Department of Homeland Security	871	0	871	0	0	0	0	0	0
Department of the Interior	13,911	11,305	0	0	2,591	0	0	0	15
Department of Transportation	1,085	0	5	0	448	0	0	0	632
Environmental Protection Agency	792	0	0	0	792	0	0	0	0
National Aeronautics and Space Administration	7,185	0	3,487	0	3,252	0	446	0	0
National Science Foundation	17,427	0	1,870	0	12,327	0	230	0	3,000
Nebraska	204,579	40,547	29,006	0	122,524	0	10,429	0	2,073
Department of Agriculture	35,666	24,466	57	0	11,143	0	0	0	0
Department of Commerce	390	72	0	0	318	0	0	0	0
Department of Defense, research	28,062	188	8,484	0	15,267	0	4,123	0	0
Department of Defense, total development ^b	20,028	1,084	18,944	0	0	0	0	0	0
Department of Energy	1,924	0	0	0	1,924	0	0	0	0
Department of Health and Human Services	89,400	7,078	1,328	0	73,827	0	6,135	0	1,032
Department of the Interior	5,914	5,493	0	0	250	0	171	0	0
Department of Transportation	1,449	0	29	0	379	0	0	0	1,041
National Aeronautics and Space Administration	2,929	2,166	14	0	749	0	0	0	0
National Science Foundation	18,817	0	150	0	18,667	0	0	0	0

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2008

(Dollars in thousands)

State/location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Nevada	312,624	37,894	222,750	0	43,748	0	7,007	0	1,225
Department of Agriculture	3,355	643	0	0	2,602	0	110	0	0
Department of Commerce	221	14	0	0	207	0	0	0	0
Department of Defense, research	18,729	5,922	5,877	0	5,470	0	1,460	0	0
Department of Defense, total development ^b	66,136	6,644	59,036	0	456	0	0	0	0
Department of Energy	155,822	0	151,293	0	3,880	0	649	0	0
Department of Health and Human Services	20,911	0	579	0	16,867	0	3,265	0	200
Department of the Interior	4,683	4,153	0	0	498	0	23	0	9
Department of Transportation	3,934	0	783	0	635	0	1,500	0	1,016
Environmental Protection Agency	19,075	18,426	0	0	649	0	0	0	0
National Aeronautics and Space Administration	7,228	2,092	3,902	0	1,234	0	0	0	0
National Science Foundation	12,530	0	1,280	0	11,250	0	0	0	0
New Hampshire	294,312	21,030	141,783	0	126,769	0	4,185	0	545
Department of Agriculture	9,304	5,644	0	0	3,539	0	121	0	0
Department of Commerce	3,147	1,830	90	0	1,227	0	0	0	0
Department of Defense, research	44,737	5,812	32,921	0	4,208	0	1,796	0	0
Department of Defense, total development ^b	105,598	5,200	98,706	0	464	0	1,228	0	0
Department of Energy	1,601	0	5	0	1,596	0	0	0	0
Department of Health and Human Services	89,093	0	4,207	0	83,768	0	918	0	200
Department of Homeland Security	33	0	18	0	15	0	0	0	0
Department of the Interior	953	743	129	0	0	0	0	0	81
Department of Transportation	3,111	0	14	0	2,833	0	0	0	264
Environmental Protection Agency	350	0	0	0	350	0	0	0	0
National Aeronautics and Space Administration	18,988	967	5,431	0	12,468	0	122	0	0
National Science Foundation	17,397	834	262	0	16,301	0	0	0	0
New Jersey	2,192,726	678,616	1,023,107	0	405,840	53,307	25,347	0	6,510
Department of Agriculture	8,191	0	0	0	8,121	0	0	0	70
Department of Commerce	31,735	23,993	3,186	0	4,536	0	20	0	0
Department of Defense, research	205,641	70,064	104,744	0	27,659	0	3,174	0	0
Department of Defense, total development ^b	1,422,680	546,093	858,299	0	10,597	0	7,691	0	0
Department of Energy	71,704	88	4,473	0	13,805	53,307	31	0	0
Department of Health and Human Services	267,719	0	20,579	0	230,793	0	14,216	0	2,131
Department of Homeland Security	15,789	5,987	3,097	0	6,705	0	0	0	0
Department of the Interior	4,978	3,714	0	0	1,118	0	0	0	146
Department of Transportation	36,017	23,732	7,125	0	997	0	0	0	4,163
Environmental Protection Agency	4,397	2,448	0	0	1,949	0	0	0	0
National Aeronautics and Space Administration	30,431	2,497	18,927	0	8,899	0	109	0	0
National Science Foundation	93,444	0	2,677	0	90,661	0	106	0	0
New Mexico	3,502,888	561,125	357,400	2,313,093	224,082	0	42,471	0	4,717
Department of Agriculture	12,563	5,772	47	0	5,290	0	1,004	0	450

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2008

(Dollars in thousands)

State/location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Department of Commerce	2,401	66	1,093	125	1,117	0	0	0	0
Department of Defense, research	168,842	46,011	68,955	33,481	19,046	0	1,349	0	0
Department of Defense, total development ^b	878,647	322,130	266,202	270,951	17,978	0	1,386	0	0
Department of Energy	2,119,745	114,799	7,450	1,916,045	79,186	0	835	0	1,430
Department of Health and Human Services	122,598	214	4,765	14,921	67,954	0	34,054	0	690
Department of Homeland Security	79,853	1,317	1,504	75,258	1,774	0	0	0	0
Department of the Interior	17,020	12,571	96	0	4,353	0	0	0	0
Department of Transportation	8,192	1,165	655	1,525	2,726	0	143	0	1,978
National Aeronautics and Space Administration	66,802	56,801	5,335	737	3,929	0	0	0	0
National Science Foundation	26,225	279	1,298	50	20,729	0	3,700	0	169
New York	4,651,187	160,509	1,763,143	0	1,942,739	0	345,438	338,611	100,747
Department of Agriculture	41,933	18,442	0	0	22,066	0	1,425	0	0
Department of Commerce	3,290	1	1,889	0	569	0	91	740	0
Department of Defense, research	287,843	84,339	126,920	0	65,554	0	6,495	4,535	0
Department of Defense, total development ^b	1,282,111	45,045	1,226,658	0	6,335	0	4,073	0	0
Department of Energy	651,207	384	294,068	0	40,291	0	2,064	314,400	0
Department of Health and Human Services	1,951,299	1,391	76,791	0	1,466,822	0	308,628	6,818	90,849
Department of Homeland Security	14,072	7,553	2,895	0	2,979	0	0	0	645
Department of the Interior	3,356	2,879	0	0	447	0	30	0	0
Department of Transportation	13,531	475	3,202	0	587	0	150	0	9,117
Environmental Protection Agency	3,745	0	70	0	2,095	0	1,580	0	0
National Aeronautics and Space Administration	60,998	0	24,404	0	22,994	0	1,482	12,118	0
National Science Foundation	337,802	0	6,246	0	312,000	0	19,420	0	136
North Carolina	1,772,567	259,495	234,677	0	1,146,417	0	125,905	0	6,073
Department of Agriculture	39,281	18,418	20	0	20,259	0	130	0	454
Department of Commerce	18,957	8,116	5,021	0	5,748	0	0	0	72
Department of Defense, research	129,456	27,390	32,358	0	65,469	0	4,239	0	0
Department of Defense, total development ^b	105,380	18,663	79,907	0	6,552	0	258	0	0
Department of Energy	19,980	225	899	0	16,906	0	1,950	0	0
Department of Health and Human Services	1,116,400	117	103,789	0	902,087	0	108,152	0	2,255
Department of Homeland Security	15,346	0	0	0	5,387	0	9,959	0	0
Department of the Interior	20,931	19,370	0	0	1,374	0	2	0	185
Department of Transportation	8,521	0	240	0	5,094	0	90	0	3,097
Environmental Protection Agency	180,829	166,221	6,836	0	7,772	0	0	0	0
National Aeronautics and Space Administration	7,433	975	2,220	0	3,305	0	923	0	10
National Science Foundation	110,053	0	3,387	0	106,464	0	202	0	0
North Dakota	98,326	25,575	8,424	0	62,117	0	1,671	0	539
Department of Agriculture	34,458	23,354	0	0	10,895	0	205	0	4
Department of Commerce	1,000	0	1,000	0	0	0	0	0	0
Department of Defense, research	9,338	0	3,041	0	6,297	0	0	0	0

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2008

(Dollars in thousands)

State/location and agency	Total	Intramural ^a	Industry	Extramural					
				Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Department of Defense, total development ^b	15,557	98	3,556	0	11,903	0	0	0	0
Department of Energy	11,071	0	0	0	11,071	0	0	0	0
Department of Health and Human Services	17,745	0	626	0	15,153	0	1,466	0	500
Department of the Interior	2,230	2,001	0	0	194	0	0	0	35
Department of Transportation	1,589	122	150	0	1,317	0	0	0	0
National Aeronautics and Space Administration	1,851	0	51	0	1,800	0	0	0	0
National Science Foundation	3,487	0	0	0	3,487	0	0	0	0
Ohio	2,580,353	750,254	901,814	0	741,097	0	181,713	0	5,475
Department of Agriculture	25,988	6,905	310	0	18,748	0	15	0	10
Department of Commerce	2,929	2	1,372	0	1,412	0	143	0	0
Department of Defense, research	542,414	263,710	191,040	0	66,985	0	20,679	0	0
Department of Defense, total development ^b	943,556	346,941	576,404	0	13,965	0	6,246	0	0
Department of Energy	25,357	1,998	1,701	0	13,837	0	7,821	0	0
Department of Health and Human Services	695,936	14,314	23,106	0	530,352	0	126,911	0	1,253
Department of Homeland Security	13,287	644	0	0	0	0	12,643	0	0
Department of the Interior	3,270	2,923	1	0	98	0	25	0	223
Department of Transportation	13,629	1,366	6,934	0	1,332	0	185	0	3,812
Environmental Protection Agency	96,961	80,148	16,491	0	0	0	302	0	20
National Aeronautics and Space Administration	130,305	31,203	79,231	0	13,567	0	6,254	0	50
National Science Foundation	86,721	100	5,224	0	80,801	0	489	0	107
Oklahoma	260,753	77,430	38,916	0	118,828	0	23,934	0	1,646
Department of Agriculture	22,529	11,922	0	0	10,484	0	2	0	121
Department of Commerce	37,301	12,499	0	0	24,802	0	0	0	0
Department of Defense, research	17,716	5,357	4,873	0	7,486	0	0	0	0
Department of Defense, total development ^b	42,447	16,900	23,453	0	1,566	0	528	0	0
Department of Energy	7,756	2,061	23	0	4,676	0	996	0	0
Department of Health and Human Services	74,328	0	2,820	0	51,498	0	19,710	0	300
Department of the Interior	3,985	3,634	0	0	351	0	0	0	0
Department of Transportation	12,568	8,564	2,854	0	25	0	0	0	1,125
Environmental Protection Agency	10,829	10,609	0	0	120	0	0	0	100
National Aeronautics and Space Administration	11,231	5,884	4,694	0	491	0	163	0	0
National Science Foundation	20,063	0	199	0	17,329	0	2,535	0	0
Oregon	581,074	93,857	119,241	0	323,053	0	39,100	0	5,823
Department of Agriculture	50,305	32,217	51	0	17,776	0	209	0	52
Department of Commerce	7,888	3,401	857	0	3,502	0	53	0	75
Department of Defense, research	26,570	467	8,571	0	17,532	0	0	0	0
Department of Defense, total development ^b	83,229	514	81,636	0	1,079	0	0	0	0
Department of Energy	17,866	9,105	63	0	7,980	0	667	0	51
Department of Health and Human Services	275,509	0	19,924	0	216,728	0	37,052	0	1,805

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2008

(Dollars in thousands)

State/location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Department of the Interior	28,657	26,490	22	0	1,667	0	35	0	443
Department of Transportation	3,205	0	0	0	0	0	0	0	3,205
Environmental Protection Agency	20,866	20,074	0	0	600	0	0	0	192
National Aeronautics and Space Administration	10,130	1,589	4,229	0	4,168	0	144	0	0
National Science Foundation	56,849	0	3,888	0	52,021	0	940	0	0
Pennsylvania	3,279,378	312,659	1,077,226	0	1,520,642	29,129	335,261	0	4,461
Department of Agriculture	69,170	42,544	0	0	25,353	0	1,263	0	10
Department of Commerce	7,379	659	4,701	0	1,989	0	30	0	0
Department of Defense, research	183,612	7,557	62,247	0	107,370	125	6,313	0	0
Department of Defense, total development ^b	977,131	168,120	661,149	0	75,106	29,004	43,752	0	0
Department of Energy	368,583	55,624	277,833	0	34,525	0	601	0	0
Department of Health and Human Services	1,419,258	21,558	42,087	0	1,097,178	0	256,252	0	2,183
Department of Homeland Security	4,339	0	2,348	0	1,991	0	0	0	0
Department of the Interior	16,152	14,828	299	0	625	0	400	0	0
Department of Transportation	8,023	592	2,779	0	2,384	0	0	0	2,268
Environmental Protection Agency	2,487	0	687	0	1,800	0	0	0	0
National Aeronautics and Space Administration	37,109	1,177	19,261	0	16,661	0	10	0	0
National Science Foundation	186,135	0	3,835	0	155,660	0	26,640	0	0
Rhode Island	643,721	388,962	53,296	0	130,073	0	69,132	0	2,259
Department of Agriculture	4,329	0	0	0	3,485	0	565	0	279
Department of Commerce	2,290	1	511	0	1,732	0	0	0	46
Department of Defense, research	38,895	23,459	6,060	0	9,270	0	106	0	0
Department of Defense, total development ^b	387,108	346,202	40,806	0	100	0	0	0	0
Department of Energy	3,265	0	0	0	3,080	0	185	0	0
Department of Health and Human Services	144,097	0	4,342	0	71,519	0	67,036	0	1,200
Department of Homeland Security	7,482	0	0	0	7,482	0	0	0	0
Department of the Interior	2,759	2,498	0	0	261	0	0	0	0
Department of Transportation	995	0	397	0	0	0	0	0	598
Environmental Protection Agency	17,202	16,802	0	0	400	0	0	0	0
National Aeronautics and Space Administration	5,427	0	1,164	0	4,264	0	0	0	0
National Science Foundation	29,872	0	16	0	28,480	0	1,240	0	136
South Carolina	453,003	132,421	74,826	20,562	179,515	0	38,277	0	7,401
Department of Agriculture	19,967	12,374	0	0	7,537	0	0	0	56
Department of Commerce	18,786	14,071	1,068	0	2,978	0	24	0	645
Department of Defense, research	27,517	2,655	4,093	0	18,072	0	2,697	0	0
Department of Defense, total development ^b	167,125	86,085	54,550	1,335	2,332	0	22,823	0	0
Department of Energy	29,013	1	5,762	19,214	3,973	0	63	0	0
Department of Health and Human Services	145,266	0	6,215	0	131,723	0	1,977	0	5,351
Department of Homeland Security	13,349	13,336	0	13	0	0	0	0	0
Department of the Interior	3,425	3,186	0	0	239	0	0	0	0

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2008

(Dollars in thousands)

State/location and agency	Total	Intramural ^a	Extramural						State, local governments
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	
Department of Transportation	1,543	0	0	0	194	0	0	0	1,349
Environmental Protection Agency	400	0	0	0	0	0	400	0	0
National Aeronautics and Space Administration	3,296	713	920	0	1,662	0	0	0	0
National Science Foundation	23,316	0	2,218	0	10,805	0	10,293	0	0
South Dakota	76,379	25,351	4,267	0	41,511	0	3,747	0	1,504
Department of Agriculture	11,578	4,441	0	0	6,803	0	15	0	319
Department of Commerce	5	0	0	0	5	0	0	0	0
Department of Defense, research	8,264	115	0	0	8,149	0	0	0	0
Department of Defense, total development ^b	2,849	4	2,802	0	43	0	0	0	0
Department of Energy	420	0	0	0	420	0	0	0	0
Department of Health and Human Services	20,105	0	935	0	15,138	0	3,732	0	300
Department of the Interior	12,295	11,711	0	0	584	0	0	0	0
Department of Transportation	1,243	0	358	0	0	0	0	0	885
Environmental Protection Agency	885	0	0	0	885	0	0	0	0
National Aeronautics and Space Administration	10,780	9,080	0	0	1,701	0	0	0	0
National Science Foundation	7,955	0	172	0	7,783	0	0	0	0
Tennessee	1,689,925	136,554	331,453	0	469,554	0	87,499	656,325	8,540
Department of Agriculture	29,463	13,962	0	0	14,594	0	0	0	907
Department of Commerce	536	1	12	0	99	0	0	424	0
Department of Defense, research	55,553	9,252	21,181	0	16,113	0	970	8,037	0
Department of Defense, total development ^b	95,430	58,012	24,646	0	1,471	0	0	11,301	0
Department of Energy	615,460	17,223	1,204	0	10,872	0	5,272	580,889	0
Department of Health and Human Services	460,411	26	6,374	0	385,849	0	65,040	1,407	1,715
Department of Homeland Security	48,137	0	0	0	0	0	0	48,137	0
Department of the Interior	18,433	16,795	40	0	1,480	0	55	0	63
Department of Transportation	14,082	910	236	0	1,331	0	0	6,130	5,475
Environmental Protection Agency	70	0	70	0	0	0	0	0	0
National Aeronautics and Space Administration	315,670	17,637	277,340	0	4,288	0	16,025	0	380
National Science Foundation	36,680	2,736	350	0	33,457	0	137	0	0
Texas	5,029,588	276,001	3,203,863	0	1,426,544	0	112,048	6,159	4,973
Department of Agriculture	101,930	55,478	0	0	46,397	0	0	0	55
Department of Commerce	7,978	226	1,693	0	6,011	0	20	0	28
Department of Defense, research	197,325	24,770	70,328	0	84,257	0	17,420	550	0
Department of Defense, total development ^b	3,136,245	176,582	2,918,343	0	30,928	0	5,194	5,078	120
Department of Energy	55,129	636	6,100	0	23,143	0	25,153	0	97
Department of Health and Human Services	1,128,258	0	30,879	0	1,046,735	0	47,874	531	2,239
Department of Homeland Security	20,215	5,464	3,940	0	10,811	0	0	0	0
Department of the Interior	17,693	7,790	6,022	0	3,873	0	8	0	0
Department of Transportation	9,833	1,190	4,243	0	2,476	0	0	0	1,924

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2008

(Dollars in thousands)

State/location and agency	Total	Intramural ^a	Extramural						State, local governments
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	
Environmental Protection Agency	2,180	0	2,180	0	0	0	0	0	0
National Aeronautics and Space Administration	209,862	3,865	156,016	0	34,815	0	15,146	0	20
National Science Foundation	142,940	0	4,119	0	137,098	0	1,233	0	490
Utah	699,928	148,790	323,118	0	223,045	0	2,732	0	2,243
Department of Agriculture	33,004	19,732	0	0	13,272	0	0	0	0
Department of Commerce	946	86	0	0	860	0	0	0	0
Department of Defense, research	32,020	2,438	19,241	0	10,191	0	150	0	0
Department of Defense, total development ^b	204,324	109,813	79,626	0	14,885	0	0	0	0
Department of Energy	11,225	357	703	0	9,731	0	0	0	434
Department of Health and Human Services	155,555	0	10,615	0	142,097	0	2,143	0	700
Department of the Interior	18,366	16,364	0	0	1,677	0	0	0	325
Department of Transportation	1,424	0	564	0	76	0	0	0	784
National Aeronautics and Space Administration	215,129	0	211,489	0	3,640	0	0	0	0
National Science Foundation	27,935	0	880	0	26,616	0	439	0	0
Vermont	120,985	3,983	35,213	0	77,785	0	2,710	0	1,294
Department of Agriculture	10,231	3,164	0	0	6,517	0	150	0	400
Department of Commerce	569	35	0	0	534	0	0	0	0
Department of Defense, research	10,130	7	7,459	0	1,276	0	1,388	0	0
Department of Defense, total development ^b	20,414	28	20,171	0	215	0	0	0	0
Department of Energy	1,211	0	1,101	0	110	0	0	0	0
Department of Health and Human Services	65,954	0	4,187	0	60,295	0	1,172	0	300
Department of Homeland Security	881	0	881	0	0	0	0	0	0
Department of the Interior	844	749	0	0	14	0	0	0	81
Department of Transportation	1,054	0	0	0	657	0	0	0	397
Environmental Protection Agency	116	0	0	0	0	0	0	0	116
National Aeronautics and Space Administration	1,475	0	782	0	693	0	0	0	0
National Science Foundation	8,106	0	632	0	7,474	0	0	0	0
Virginia	9,282,197	3,683,626	4,657,400	0	444,397	139,051	101,925	242,893	12,905
Department of Agriculture	20,883	1,040	52	0	17,422	0	2,369	0	0
Department of Commerce	17,832	9,548	5,085	0	3,052	0	147	0	0
Department of Defense, research	683,786	151,268	455,350	0	47,007	8,227	10,116	11,818	0
Department of Defense, total development ^b	7,259,523	3,178,851	3,833,881	0	19,043	0	5,132	222,616	0
Department of Energy	119,437	23,915	1,706	0	13,759	77,545	2,512	0	0
Department of Health and Human Services	348,927	60	43,811	0	255,128	0	49,265	0	663
Department of Homeland Security	63,591	25,486	35,967	0	0	0	34	2,104	0
Department of the Interior	20,176	14,329	1,063	0	2,158	0	396	0	2,230
Department of Transportation	146,977	56,053	68,280	0	3,804	0	3,522	5,767	9,551
Environmental Protection Agency	15,212	895	14,126	0	0	0	191	0	0
National Aeronautics and Space Administration	452,261	221,600	194,552	0	15,192	0	20,501	0	416
National Science Foundation	133,592	581	3,527	0	67,832	53,279	7,740	588	45

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2008

(Dollars in thousands)

State/location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Washington	4,339,544	258,454	2,812,827	0	638,716	0	366,708	256,115	6,724
Department of Agriculture	48,842	32,778	0	0	16,064	0	0	0	0
Department of Commerce	57,436	52,808	302	0	4,180	0	58	0	88
Department of Defense, research	89,655	2,571	31,830	0	37,741	0	7,053	10,460	0
Department of Defense, total development ^b	2,854,957	119,908	2,719,599	0	10,409	0	578	4,463	0
Department of Energy	238,992	13,929	2,394	0	29,352	0	7,730	185,587	0
Department of Health and Human Services	845,818	5,251	30,185	0	443,151	0	346,000	18,128	3,103
Department of Homeland Security	41,021	1,701	2,186	0	0	0	0	37,134	0
Department of the Interior	29,833	27,241	240	0	1,820	0	36	0	496
Department of Transportation	7,030	621	2,147	0	463	0	791	0	3,008
Environmental Protection Agency	2,076	0	0	0	2,076	0	0	0	0
National Aeronautics and Space Administration	34,492	1,636	19,878	0	11,950	0	656	343	29
National Science Foundation	89,392	10	4,066	0	81,510	0	3,806	0	0
West Virginia	224,575	115,519	51,173	0	41,486	0	11,228	0	5,170
Department of Agriculture	34,420	25,622	45	0	7,808	0	945	0	0
Department of Commerce	60	0	60	0	0	0	0	0	0
Department of Defense, research	3,850	0	2,563	0	985	0	302	0	0
Department of Defense, total development ^b	30,527	10,937	18,041	0	211	0	1,338	0	0
Department of Energy	91,717	59,100	29,036	0	2,080	0	1,220	0	281
Department of Health and Human Services	42,346	16,197	158	0	25,377	0	414	0	200
Department of the Interior	3,772	3,523	0	0	234	0	0	0	15
Department of Transportation	3,537	94	590	0	1,179	0	0	0	1,674
National Aeronautics and Space Administration	5,093	0	533	0	2,097	0	2,464	0	0
National Science Foundation	9,253	46	147	0	1,515	0	4,545	0	3,000
Wisconsin	660,915	33,218	77,125	0	530,391	0	18,166	0	2,015
Department of Agriculture	40,760	24,875	0	0	15,545	0	203	0	137
Department of Commerce	1,196	66	227	0	902	0	1	0	0
Department of Defense, research	24,552	7	7,678	0	16,867	0	0	0	0
Department of Defense, total development ^b	44,805	5	44,061	0	739	0	0	0	0
Department of Energy	48,612	0	74	0	48,538	0	0	0	0
Department of Health and Human Services	395,348	0	17,976	0	358,946	0	17,793	0	633
Department of Homeland Security	440	432	8	0	0	0	0	0	0
Department of the Interior	7,605	7,015	13	0	562	0	0	0	15
Department of Transportation	5,477	818	2,075	0	1,488	0	0	0	1,096
Environmental Protection Agency	1,683	0	580	0	1,043	0	11	0	49
National Aeronautics and Space Administration	11,422	0	2,759	0	8,648	0	10	0	5
National Science Foundation	79,015	0	1,674	0	77,113	0	148	0	80
Wyoming	47,358	14,111	7,270	0	23,116	0	1,993	0	868
Department of Agriculture	8,367	5,133	27	0	3,207	0	0	0	0

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2008

(Dollars in thousands)

State/location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Department of Commerce	23	1	0	0	22	0	0	0	0
Department of Defense, research	6,793	59	5,040	0	1,694	0	0	0	0
Department of Defense, total development ^b	640	0	545	0	95	0	0	0	0
Department of Energy	3,306	0	236	0	1,526	0	1,544	0	0
Department of Health and Human Services	8,066	0	574	0	6,813	0	379	0	300
Department of the Interior	9,765	8,918	0	0	702	0	0	0	145
Department of Transportation	491	0	0	0	0	0	68	0	423
National Aeronautics and Space Administration	843	0	273	0	568	0	2	0	0
National Science Foundation	9,064	0	575	0	8,489	0	0	0	0
Outlying areas	159,981	68,687	5,527	0	82,506	0	257	0	3,004
Department of Agriculture	14,420	5,507	0	0	8,811	0	101	0	1
Department of Commerce	1,407	1	0	0	1,301	0	0	0	105
Department of Defense, research	756	0	225	0	475	0	56	0	0
Department of Defense, total development ^b	54,701	51,877	2,806	0	18	0	0	0	0
Department of Energy	660	0	0	0	660	0	0	0	0
Department of Health and Human Services	65,914	1,033	2,264	0	59,862	0	0	0	2,755
Department of the Interior	10,960	10,203	232	0	358	0	100	0	67
Department of Transportation	387	37	0	0	350	0	0	0	0
National Science Foundation	10,776	29	0	0	10,671	0	0	0	76
Puerto Rico	84,929	8,861	374	0	74,113	0	168	0	1,413
Department of Agriculture	9,459	5,180	0	0	4,177	0	101	0	1
Department of Commerce	1,335	1	0	0	1,301	0	0	0	33
Department of Defense, research	475	0	0	0	475	0	0	0	0
Department of Defense, total development ^b	206	0	188	0	18	0	0	0	0
Department of Energy	660	0	0	0	660	0	0	0	0
Department of Health and Human Services	58,764	503	0	0	56,949	0	0	0	1,312
Department of the Interior	3,273	2,953	186	0	0	0	67	0	67
National Aeronautics and Space Administration	310	224	0	0	86	0	0	0	0
National Science Foundation	10,447	0	0	0	10,447	0	0	0	0
Other areas ^c	75,362	60,050	5,153	0	8,479	0	89	0	1,591
Department of Agriculture	4,961	327	0	0	4,634	0	0	0	0
Department of Commerce	72	0	0	0	0	0	0	0	72
Department of Defense, research	281	0	225	0	0	0	56	0	0
Department of Defense, total development ^b	54,495	51,877	2,618	0	0	0	0	0	0
Department of Health and Human Services	7,150	530	2,264	0	2,913	0	0	0	1,443
Department of the Interior	7,687	7,250	46	0	358	0	33	0	0
Department of Transportation	387	37	0	0	350	0	0	0	0
National Science Foundation	329	29	0	0	224	0	0	0	76

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2008

(Dollars in thousands)

State/location and agency	Total	Intramural ^a	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Offices abroad	86,785	17,976	7,162	0	61,647	0	0	0	0
Department of Commerce	5	0	0	0	5	0	0	0	0
Department of Defense, research	3,467	3,154	313	0	0	0	0	0	0
Department of Defense, total development ^b	21,671	14,822	6,849	0	0	0	0	0	0
Department of Health and Human Services	61,642	0	0	0	61,642	0	0	0	0

FFRDC = federally funded research and development center.

^a Includes costs associated with administration of intramural and extramural programs by federal personnel and actual intramural performance.

^b Department of Defense (DOD) development obligations have been reported in two categories, advanced technology and major systems, since volume 44 (FY 1994–96). Geographic data for these categories are not reported; therefore this table shows only total development.

^c Includes America Samoa, Guam, U.S. Virgin Islands, and all other U.S. territories and possessions other than Puerto Rico.

NOTES: Eleven agencies are required to report data for this section of survey: Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Homeland Security, the Interior, and Transportation; Environmental Protection Agency; National Aeronautics and Space Administration; and National Science Foundation. Obligations of these 11 agencies represented over 98% of total federal R&D obligations in FY 2008. Geographic distribution of DOD development funding to industry reflects location of prime contractors and not numerous subcontractors who perform much of the R&D. Only those agencies and subdivisions that had obligations in variables represented by this table appear in table.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development: FY 2008–10.