

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2009

(Dollars in thousands)

State/location and agency	Total R&D	Intramural ^a	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Alabama	2,966,974	1,509,551	1,011,469	0	388,783	0	54,399	0	2,772
Department of Agriculture	28,038	10,477	17	0	17,177	0	0	0	367
Department of Commerce	7,290	241	0	0	7,049	0	0	0	0
Department of Defense, research	101,144	49,147	42,754	0	8,879	0	364	0	0
Department of Defense, total development ^b	2,326,694	1,412,126	902,144	0	9,578	0	2,846	0	0
Department of Energy	38,258	255	20,008	0	8,929	0	9,065	0	0
Department of Health and Human Services	340,839	12	5,658	0	293,374	0	41,471	0	324
Department of Homeland Security	260	0	99	0	161	0	0	0	0
Department of the Interior	5,234	4,585	0	0	432	0	0	0	217
Department of Transportation	3,689	69	254	0	1,501	0	0	0	1,865
Environmental Protection Agency	156	0	56	0	0	0	100	0	0
National Aeronautics and Space Administration	81,290	32,637	40,129	0	7,971	0	553	0	0
National Science Foundation	34,082	0	350	0	33,732	0	0	0	0
Alaska	244,473	77,144	51,514	0	98,370	0	11,704	0	5,741
Department of Agriculture	16,363	12,407	0	0	3,943	0	13	0	1
Department of Commerce	8,007	2,973	0	0	5,034	0	0	0	0
Department of Defense, research	11,201	240	9,114	0	1,847	0	0	0	0
Department of Defense, total development ^b	96,090	38,069	39,647	0	18,102	0	272	0	0
Department of Energy	5,226	0	198	0	2,954	0	0	0	2,074
Department of Health and Human Services	19,465	12	924	0	14,395	0	3,565	0	570
Department of the Interior	31,528	23,443	1,304	0	4,661	0	137	0	1,984
Department of Transportation	1,290	0	0	0	296	0	0	0	993
Environmental Protection Agency	948	0	0	0	0	0	948	0	0
National Aeronautics and Space Administration	3,162	0	85	0	3,077	0	0	0	0
National Science Foundation	51,192	0	242	0	44,063	0	6,768	0	118
Arizona	2,899,255	830,062	1,512,514	0	438,609	71,161	38,178	0	8,732
Department of Agriculture	26,015	19,053	0	0	6,891	0	17	0	53
Department of Commerce	3,078	573	179	0	2,325	0	0	0	0
Department of Defense, research	77,022	14,365	31,917	0	30,062	0	678	0	0
Department of Defense, total development ^b	2,174,725	757,344	1,401,850	0	10,639	0	1	0	4,890
Department of Energy	38,204	0	2,586	0	35,617	0	0	0	0
Department of Health and Human Services	196,822	420	8,060	0	154,516	0	32,775	0	1,052
Department of Homeland Security	25,795	19,465	1,486	0	4,844	0	0	0	0
Department of the Interior	21,299	18,547	99	0	2,410	0	15	0	228
Department of Transportation	2,449	0	98	0	100	0	8	0	2,242

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Environmental Protection Agency	784	0	225	0	559	0	0	0	0
National Aeronautics and Space Administration	128,740	295	64,560	0	59,963	231	3,692	0	0
National Science Foundation	204,324	0	1,452	0	130,682	70,930	993	0	267
Arkansas	170,232	21,894	26,623	0	101,682	0	14,890	0	5,142
Department of Agriculture	40,054	18,532	0	0	12,807	0	8,384	0	331
Department of Commerce	41	2	0	0	39	0	0	0	0
Department of Defense, research	12,157	300	6,955	0	4,902	0	0	0	0
Department of Defense, total development ^b	14,130	815	10,785	0	2,530	0	0	0	0
Department of Energy	886	0	0	0	886	0	0	0	0
Department of Health and Human Services	82,060	12	7,723	0	67,545	0	6,506	0	274
Department of Homeland Security	865	0	31	0	834	0	0	0	0
Department of the Interior	2,645	2,233	0	0	258	0	0	0	154
Department of Transportation	1,383	0	*	0	0	0	0	0	1,383
National Aeronautics and Space Administration	424	0	128	0	296	0	0	0	0
National Science Foundation	15,587	0	1,002	0	11,585	0	0	0	3,000
California	24,253,304	1,935,542	13,846,606	954,206	4,204,027	1,887,472	1,140,842	254,039	30,569
Department of Agriculture	125,851	90,619	472	0	34,269	0	480	0	11
Department of Commerce	27,162	159	13,892	0	10,033	0	3,078	0	0
Department of Defense, research	869,774	118,081	416,903	12,013	256,439	5,636	59,458	1,244	0
Department of Defense, total development ^b	14,350,575	1,549,854	12,445,813	17,854	50,391	26,474	16,581	243,609	0
Department of Energy	2,032,065	3,389	94,570	877,836	239,795	793,846	13,119	0	9,509
Department of Health and Human Services	4,036,433	12	251,610	2,894	2,746,957	46,148	978,692	1,350	8,769
Department of Homeland Security	80,836	12,038	19,907	43,306	3,142	694	1,749	0	0
Department of the Interior	94,788	67,774	14,373	0	10,562	0	137	0	1,943
Department of Transportation	21,984	5,183	3,571	0	1,822	0	1,480	0	9,927
Environmental Protection Agency	13,857	0	3,688	0	9,130	0	740	0	300
National Aeronautics and Space Administration	1,751,692	84,621	550,579	303	82,821	1,013,998	12,519	6,741	109
National Science Foundation	848,287	3,812	31,229	0	758,667	676	52,809	1,095	0
Colorado	3,702,982	345,025	2,210,580	0	570,230	20,569	229,550	318,772	8,256
Department of Agriculture	47,243	33,036	0	0	13,734	0	255	0	218
Department of Commerce	206,149	163,320	6,536	0	34,099	2,193	0	0	0
Department of Defense, research	90,497	10,045	49,284	0	27,374	1,604	2,191	0	0
Department of Defense, total development ^b	960,172	65,397	886,227	0	4,251	3,738	314	245	0
Department of Energy	341,881	1,257	2,946	0	16,958	0	4,860	315,860	0
Department of Health and Human Services	393,792	12	26,088	0	310,926	0	49,881	1,000	5,885

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			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Department of Homeland Security	4,920	0	3,252	0	0	0	0	1,668	0
Department of the Interior	65,391	57,449	2,451	0	4,874	0	116	0	500
Department of Transportation	21,596	7,955	8,213	0	270	3,639	8	0	1,512
Environmental Protection Agency	365	0	365	0	0	0	0	0	0
National Aeronautics and Space Administration	1,237,123	5,642	1,187,996	0	33,521	9,396	567	0	0
National Science Foundation	333,853	911	37,221	0	124,223	0	171,357	0	141
Connecticut	2,212,108	19,177	1,547,182	0	613,121	0	24,486	0	8,142
Department of Agriculture	9,328	2,664	0	0	4,863	0	20	0	1,782
Department of Commerce	4,040	5	0	0	3,868	0	168	0	0
Department of Defense, research	55,089	209	41,657	0	12,822	0	400	0	0
Department of Defense, total development ^b	1,479,230	4,625	1,470,730	0	2,349	0	1,526	0	0
Department of Energy	19,639	131	8,577	0	10,931	0	0	0	0
Department of Health and Human Services	545,508	12	12,928	0	507,994	0	21,109	0	3,465
Department of Homeland Security	13,422	9,622	3,800	0	0	0	0	0	0
Department of the Interior	1,943	1,807	0	0	122	0	0	0	14
Department of Transportation	3,106	43	357	0	50	0	0	0	2,657
	70	0	70	0	0	0	0	0	0
National Aeronautics and Space Administration	8,052	58	6,118	0	1,875	0	0	0	0
National Science Foundation	72,681	0	2,945	0	68,248	0	1,263	0	225
Delaware	211,132	37,183	45,905	0	114,816	0	12,775	0	453
Department of Agriculture	5,422	2,006	0	0	3,417	0	0	0	0
Department of Commerce	4,170	61	0	0	4,109	0	0	0	0
Department of Defense, research	45,215	284	25,134	0	13,522	0	6,276	0	0
Department of Defense, total development ^b	49,921	33,108	16,115	0	698	0	0	0	0
Department of Energy	23,182	0	53	0	23,128	0	0	0	0
Department of Health and Human Services	39,341	12	965	0	32,626	0	5,713	0	24
Department of the Interior	1,833	1,565	0	0	268	0	0	0	0
Department of Transportation	1,061	0	73	0	559	0	0	0	429
Environmental Protection Agency	169	0	0	0	0	0	169	0	0
National Aeronautics and Space Administration	5,142	147	2,866	0	2,101	0	28	0	0
National Science Foundation	35,675	0	699	0	34,387	0	589	0	0
District of Columbia	4,201,784	2,797,951	812,130	0	220,403	0	349,826	14,342	7,132
Department of Agriculture	307,916	288,179	15,816	0	770	0	1,177	0	1,974
Department of Commerce	13,015	880	1,314	0	663	0	10,152	0	7
Department of Defense, research	366,487	291,707	54,506	0	3,613	0	16,660	0	0

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			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Department of Defense, total development ^b	1,819,716	1,281,452	511,300	0	10,152	0	11,108	5,704	0
Department of Energy	728,427	704,915	37	0	1,340	0	22,136	0	0
Department of Health and Human Services	275,268	3,559	15,052	0	174,469	0	80,466	0	1,722
Department of Homeland Security	49,802	44,270	1,905	0	939	0	2,688	0	0
Department of the Interior	28,147	27,250	16	0	146	0	682	0	53
Department of Transportation	284,339	83,954	161,974	0	234	0	26,161	8,638	3,376
Environmental Protection Agency	62,421	55,053	3,519	0	0	0	3,849	0	0
National Aeronautics and Space Administration	53,589	14,345	29,423	0	4,447	0	5,375	0	0
National Science Foundation	212,657	2,387	17,269	0	23,629	0	169,372	0	0
Florida	3,229,774	871,842	1,496,743	0	766,429	0	86,165	0	8,594
Department of Agriculture	62,848	39,630	0	0	22,954	0	5	0	260
Department of Commerce	29,602	21,136	1,170	0	6,812	0	272	0	212
Department of Defense, research	227,537	56,967	77,764	0	88,190	0	4,617	0	0
Department of Defense, total development ^b	2,078,298	703,604	1,346,915	0	27,748	0	31	0	0
Department of Energy	27,288	0	4,719	0	21,341	0	1,229	0	0
Department of Health and Human Services	514,258	12	21,862	0	412,792	0	79,143	0	448
Department of Homeland Security	9,299	7,061	523	0	222	0	0	0	1,493
Department of the Interior	28,188	21,072	847	0	5,805	0	0	0	465
Department of Transportation	9,458	133	1,064	0	2,544	0	0	0	5,717
Environmental Protection Agency	14,928	14,746	182	0	0	0	0	0	0
National Aeronautics and Space Administration	58,772	7,481	38,590	0	12,702	0	0	0	0
National Science Foundation	169,297	0	3,108	0	165,320	0	869	0	0
Georgia	1,705,699	330,530	619,541	0	710,945	0	36,198	0	8,485
Department of Agriculture	72,983	53,238	0	0	19,203	0	266	0	276
Department of Commerce	1,950	172	8	0	1,770	0	0	0	0
Department of Defense, research	56,898	1,328	10,656	0	34,958	0	9,956	0	0
Department of Defense, total development ^b	758,154	203,558	528,888	0	21,648	0	4,060	0	0
Department of Energy	29,590	0	1,682	0	12,503	0	15,405	0	0
Department of Health and Human Services	601,941	53,812	43,291	0	496,204	0	5,167	0	3,467
Department of Homeland Security	5,466	5,187	195	0	0	0	85	0	0
Department of the Interior	6,820	5,499	0	0	418	0	0	0	903
Department of Transportation	24,294	36	18,781	0	1,639	0	0	0	3,839
Environmental Protection Agency	10,531	7,425	323	0	2,770	0	14	0	0
National Aeronautics and Space Administration	23,952	276	12,076	0	11,600	0	0	0	0
National Science Foundation	113,119	0	3,642	0	108,232	0	1,245	0	0

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			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Hawaii	378,655	97,432	74,426	0	179,249	0	25,440	0	2,108
Department of Agriculture	23,023	10,735	0	0	7,801	0	4,483	0	4
Department of Commerce	5,335	2,328	0	0	2,991	0	0	0	16
Department of Defense, research	36,782	1,522	18,632	0	16,558	0	70	0	0
Department of Defense, total development ^b	154,225	74,308	47,304	0	23,619	0	8,994	0	0
Department of Energy	5,367	0	0	0	5,367	0	0	0	0
Department of Health and Human Services	76,007	19	6,878	0	57,486	0	10,073	0	1,551
Department of Homeland Security	2,335	0	0	0	2,335	0	0	0	0
Department of the Interior	9,757	7,984	0	0	1,610	0	75	0	89
Department of Transportation	448	0	0	0	0	0	0	0	448
National Aeronautics and Space Administration	15,498	536	1,158	0	13,804	0	0	0	1
National Science Foundation	49,877	0	455	0	47,678	0	1,745	0	0
Idaho	383,946	32,179	129,316	163,447	52,715	0	5,179	0	1,109
Department of Agriculture	25,671	17,671	20	0	7,976	0	1	0	3
Department of Commerce	1,046	447	0	0	479	0	0	0	120
Department of Defense, research	14,458	965	3,191	2,598	7,703	0	0	0	0
Department of Defense, total development ^b	36,572	4,836	19,565	9,704	1,311	0	1,156	0	0
Department of Energy	261,810	1	105,840	150,367	2,527	0	3,075	0	0
Department of Health and Human Services	16,320	12	435	0	14,902	0	947	0	24
Department of Homeland Security	778	0	0	778	0	0	0	0	0
Department of the Interior	9,523	7,821	4	0	1,556	0	0	0	142
Department of Transportation	970	0	0	0	150	0	0	0	820
National Aeronautics and Space Administration	1,473	426	115	0	932	0	0	0	0
National Science Foundation	15,326	0	148	0	15,178	0	0	0	0
Illinois	2,705,181	159,512	299,750	0	1,305,102	835,962	98,599	0	6,257
Department of Agriculture	61,395	43,859	0	0	17,339	0	170	0	27
Department of Commerce	1,513	111	380	0	1,018	5	0	0	0
Department of Defense, research	118,481	18,725	35,504	0	59,969	4,234	50	0	0
Department of Defense, total development ^b	280,850	66,558	203,436	0	7,058	1,625	2,174	0	0
Department of Energy	929,777	5,830	1,050	0	105,944	813,984	2,969	0	0
Department of Health and Human Services	934,556	12	16,713	0	825,566	14,503	76,301	0	1,460
Department of Homeland Security	2,343	29	563	0	222	1,529	0	0	0
Department of the Interior	20,164	19,257	0	0	877	0	0	0	30
Department of Transportation	15,078	100	4,533	0	6,230	0	0	0	4,215

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Environmental Protection Agency	7,736	0	5,553	0	1,533	0	650	0	0
National Aeronautics and Space Administration	40,494	4,031	27,551	0	8,811	83	18	0	0
National Science Foundation	292,793	1,000	4,467	0	270,534	0	16,267	0	525
Indiana	1,052,155	215,704	326,448	0	504,124	0	2,596	0	3,284
Department of Agriculture	21,708	6,676	0	0	14,905	0	0	0	128
Department of Commerce	1,335	62	0	0	1,273	0	0	0	0
Department of Defense, research	64,125	1,475	29,635	0	31,659	0	1,356	0	0
Department of Defense, total development ^b	468,078	199,197	265,659	0	3,222	0	0	0	0
Department of Energy	51,355	0	30	0	51,325	0	0	0	0
Department of Health and Human Services	274,641	12	20,805	0	252,465	0	1,209	0	150
Department of Homeland Security	9,756	0	3,114	0	6,642	0	0	0	0
Department of the Interior	2,731	2,247	0	0	368	0	0	0	117
Department of Transportation	11,746	5,772	1,313	0	1,771	0	0	0	2,889
Environmental Protection Agency	219	0	70	0	149	0	0	0	0
National Aeronautics and Space Administration	8,140	261	2,576	0	5,293	0	10	0	0
National Science Foundation	138,320	0	3,247	0	135,053	0	20	0	0
Iowa	649,053	59,375	210,261	0	334,194	25,285	13,300	0	6,638
Department of Agriculture	66,861	48,370	0	0	18,411	0	77	0	3
Department of Commerce	1,406	158	0	0	1,248	0	0	0	0
Department of Defense, research	21,258	256	12,072	0	8,930	0	0	0	0
Department of Defense, total development ^b	200,552	0	193,192	0	7,145	215	0	0	0
Department of Energy	36,381	0	0	0	7,648	23,657	5,076	0	0
Department of Health and Human Services	245,712	12	1,944	0	235,229	347	7,849	0	331
Department of Homeland Security	1,332	689	338	0	305	0	0	0	0
Department of the Interior	3,661	3,321	29	0	107	0	0	0	204
Department of Transportation	16,894	6,568	1,282	0	1,877	1,066	0	0	6,100
Environmental Protection Agency	998	0	0	0	699	0	299	0	0
National Aeronautics and Space Administration	3,637	0	714	0	2,922	0	0	0	0
National Science Foundation	50,363	0	690	0	49,673	0	0	0	0
Kansas	400,445	15,233	168,991	0	181,313	0	33,733	0	1,175
Department of Agriculture	22,213	8,832	0	0	13,308	0	0	0	74
Department of Commerce	66	3	0	0	63	0	0	0	0
Department of Defense, research	10,695	938	771	0	8,937	0	50	0	0
Department of Defense, total development ^b	162,066	711	160,355	0	1,001	0	0	0	0

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Department of Energy	7,090	0	444	0	6,611	0	35	0	0
Department of Health and Human Services	125,793	12	2,822	0	111,811	0	11,124	0	24
Department of Homeland Security	22,858	0	4	0	434	0	22,420	0	0
Department of the Interior	5,526	4,738	0	0	787	0	0	0	0
Department of Transportation	4,882	0	13	0	3,791	0	0	0	1,077
Environmental Protection Agency	1,769	0	863	0	900	0	6	0	0
National Aeronautics and Space Administration	4,753	*	2,569	0	2,184	0	0	0	0
National Science Foundation	32,734	0	1,150	0	31,486	0	98	0	0
Kentucky	318,399	15,768	54,189	0	241,495	0	4,096	0	2,851
Department of Agriculture	18,375	3,480	0	0	14,673	0	0	0	222
Department of Commerce	47	1	0	0	46	0	0	0	0
Department of Defense, research	31,121	2,019	20,389	0	6,920	0	1,793	0	0
Department of Defense, total development ^b	31,925	5,819	18,575	0	5,832	0	1,699	0	0
Department of Energy	4,349	0	634	0	3,715	0	0	0	0
Department of Health and Human Services	195,480	12	11,907	0	182,929	0	340	0	292
Department of Homeland Security	9	0	9	0	0	0	0	0	0
Department of the Interior	4,896	4,366	2	0	504	0	14	0	10
Department of Transportation	1,966	1	11	0	160	0	0	0	1,795
Environmental Protection Agency	551	0	0	0	551	0	0	0	0
National Aeronautics and Space Administration	1,585	68	773	0	494	0	0	0	250
National Science Foundation	28,094	0	1,889	0	25,673	0	250	0	282
Louisiana	397,336	70,599	67,313	0	240,246	0	12,336	0	6,841
Department of Agriculture	52,651	36,952	13	0	15,164	0	171	0	350
Department of Commerce	2,397	2	0	0	2,141	0	0	0	254
Department of Defense, research	25,733	147	10,057	0	10,025	0	5,503	0	0
Department of Defense, total development ^b	81,379	23,600	48,320	0	5,779	0	3,680	0	0
Department of Energy	8,900	0	568	0	8,332	0	0	0	0
Department of Health and Human Services	163,015	2,408	3,275	0	154,286	0	2,517	0	528
Department of Homeland Security	2,446	0	0	0	2,446	0	0	0	0
Department of the Interior	12,411	7,490	2,755	0	2,167	0	0	0	0
Department of Transportation	2,385	0	34	0	0	0	339	0	2,011
Environmental Protection Agency	15	0	0	0	15	0	0	0	0
National Aeronautics and Space Administration	3,515	0	2,191	0	1,325	0	0	0	0
National Science Foundation	42,488	0	100	0	38,566	0	125	0	3,698

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2009

(Dollars in thousands)

State/location and agency	Total R&D	Intramural ^a	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Maine	183,440	14,465	36,794	0	52,270	0	79,039	0	872
Department of Agriculture	9,475	3,260	30	0	6,181	0	3	0	0
Department of Commerce	2,333	6	300	0	2,027	0	0	0	0
Department of Defense, research	25,592	848	8,469	0	15,941	0	333	0	0
Department of Defense, total development ^b	32,936	9,125	23,769	0	41	0	0	0	0
Department of Energy	1,195	0	0	0	837	0	358	0	0
Department of Health and Human Services	82,101	12	2,053	0	5,954	0	73,843	0	239
Department of Homeland Security	334	0	334	0	0	0	0	0	0
Department of the Interior	1,620	1,213	0	0	197	0	0	0	211
Department of Transportation	435	0	13	0	0	0	0	0	422
Environmental Protection Agency	330	0	0	0	330	0	0	0	0
National Aeronautics and Space Administration	3,293	0	1,341	0	1,952	0	0	0	0
National Science Foundation	23,797	0	485	0	18,809	0	4,503	0	0
Maryland	15,767,763	10,130,480	2,819,281	777,187	1,714,377	0	319,131	315	6,992
Department of Agriculture	201,631	184,505	175	0	16,516	0	60	0	376
Department of Commerce	543,771	507,339	7,281	0	29,151	0	0	0	0
Department of Defense, research	724,129	451,317	154,581	0	93,881	0	23,659	0	691
Department of Defense, total development ^b	4,143,752	2,204,385	1,729,081	1,659	169,696	0	38,617	315	0
Department of Energy	42,224	13,677	5,552	0	17,853	0	5,141	0	0
Department of Health and Human Services	8,829,297	6,315,354	562,553	775,528	997,804	0	174,198	0	3,861
Department of Homeland Security	100,042	79,781	4,611	0	14,446	0	1,205	0	0
Department of the Interior	61,906	60,391	526	0	757	0	66	0	166
Department of Transportation	22,161	12,167	5,911	0	1,897	0	289	0	1,898
Environmental Protection Agency	16,489	0	13,156	0	3,333	0	0	0	0
National Aeronautics and Space Administration	934,469	293,014	329,940	0	249,172	0	62,343	0	0
National Science Foundation	147,891	8,552	5,915	0	119,871	0	13,553	0	0
Massachusetts	8,259,477	873,850	3,394,284	0	1,864,291	253,854	1,681,166	184,177	7,854
Department of Agriculture	27,341	12,218	0	0	14,635	0	479	0	8
Department of Commerce	24,856	11,560	5,119	0	8,177	0	0	0	0
Department of Defense, research	412,617	57,621	205,038	0	118,830	14,316	16,761	50	0
Department of Defense, total development ^b	4,081,783	712,036	2,907,246	0	19,335	226,480	32,560	184,127	0
Department of Energy	138,672	2,168	1,981	0	130,580	0	3,943	0	0
Department of Health and Human Services	2,941,807	12	161,388	0	1,196,625	0	1,577,730	0	6,051
Department of Homeland Security	34,337	4,782	11,366	0	7,061	11,128	0	0	0
Department of the Interior	20,366	15,246	2,664	0	1,556	0	860	0	40

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2009

(Dollars in thousands)

State/location and agency	Total R&D	Intramural ^a	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Department of Transportation	30,212	18,168	5,805	0	1,780	1,930	771	0	1,756
Environmental Protection Agency	10,358	0	1,976	0	4,632	0	3,750	0	0
National Aeronautics and Space Administration	116,255	39,913	44,855	0	30,879	0	608	0	0
National Science Foundation	420,874	125	46,846	0	330,199	0	43,704	0	0
Michigan	2,399,334	129,538	1,175,914	0	1,049,133	0	36,541	0	8,208
Department of Agriculture	28,335	6,112	20	0	21,942	0	261	0	0
Department of Commerce	15,225	8,541	2,331	0	2,453	0	1,899	0	0
Department of Defense, research	93,103	13,904	29,825	0	48,994	0	379	0	0
Department of Defense, total development ^b	1,121,831	86,399	1,016,599	0	15,565	0	588	0	2,680
Department of Energy	65,819	0	3,885	0	61,934	0	0	0	0
Department of Health and Human Services	838,866	12	112,454	0	691,483	0	32,877	0	2,041
Department of Homeland Security	513	0	3	0	510	0	0	0	0
Department of the Interior	7,832	7,175	60	0	520	0	0	0	76
Department of Transportation	15,503	5,937	3,134	0	2,965	0	221	0	3,246
Environmental Protection Agency	4,325	1,400	0	0	2,610	0	150	0	165
National Aeronautics and Space Administration	17,080	57	3,923	0	13,101	0	0	0	0
National Science Foundation	190,903	0	3,681	0	187,055	0	167	0	0
Minnesota	1,542,912	56,044	763,616	0	486,379	0	231,803	0	5,070
Department of Agriculture	45,891	27,796	0	0	17,871	0	13	0	211
Department of Commerce	1,720	25	3	0	1,692	0	0	0	0
Department of Defense, research	62,188	472	49,618	0	11,762	0	336	0	0
Department of Defense, total development ^b	702,482	4,716	696,195	0	1,513	0	58	0	0
Department of Energy	51,629	0	0	0	51,629	0	0	0	0
Department of Health and Human Services	548,626	12	11,124	0	303,710	0	230,650	0	3,129
Department of Homeland Security	10,599	0	0	0	10,599	0	0	0	0
Department of the Interior	3,029	2,694	0	0	335	0	0	0	0
Department of Transportation	1,896	3	158	0	0	0	6	0	1,730
Environmental Protection Agency	20,328	20,076	0	0	117	0	135	0	0
National Aeronautics and Space Administration	7,219	251	2,782	0	3,953	0	234	0	0
National Science Foundation	87,305	0	3,736	0	83,199	0	371	0	0
Mississippi	368,299	153,049	78,914	0	130,683	0	2,546	0	3,106
Department of Agriculture	89,621	59,828	0	0	29,554	0	17	0	222
Department of Commerce	10,061	302	0	0	8,793	0	966	0	0
Department of Defense, research	47,107	30,581	800	0	15,726	0	0	0	0
Department of Defense, total development ^b	144,569	56,441	75,632	0	12,496	0	0	0	0

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2009

(Dollars in thousands)

State/location and agency	Total R&D	Intramural ^a	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Department of Energy	2,585	0	0	0	2,585	0	0	0	0
Department of Health and Human Services	43,661	12	914	0	40,076	0	1,063	0	1,596
Department of the Interior	5,438	4,093	0	0	1,345	0	0	0	0
Department of Transportation	2,351	0	350	0	713	0	0	0	1,288
Environmental Protection Agency	400	0	0	0	0	0	400	0	0
National Aeronautics and Space Administration	4,404	1,792	703	0	1,908	0	0	0	0
National Science Foundation	18,103	0	515	0	17,487	0	100	0	0
Missouri	1,211,813	54,920	456,978	0	665,187	0	28,331	0	6,397
Department of Agriculture	33,027	13,661	0	0	19,065	0	276	0	25
Department of Commerce	1,098	448	0	0	631	0	20	0	0
Department of Defense, research	40,001	1,077	25,159	0	8,549	0	5,216	0	0
Department of Defense, total development ^b	456,846	24,966	420,372	0	10,318	0	1,189	0	0
Department of Energy	17,380	0	250	0	11,295	0	3,000	0	2,835
Department of Health and Human Services	573,846	12	6,384	0	553,409	0	13,285	0	756
Department of Homeland Security	5,633	2,697	1	0	2,936	0	0	0	0
Department of the Interior	12,287	11,471	0	0	604	0	0	0	212
Department of Transportation	7,967	513	66	0	1,437	0	3,384	0	2,568
Environmental Protection Agency	508	0	0	0	508	0	0	0	0
National Aeronautics and Space Administration	8,270	77	2,560	0	5,633	0	0	0	0
National Science Foundation	54,949	0	2,186	0	50,801	0	1,962	0	0
Montana	169,420	23,876	31,438	0	98,172	0	11,791	0	4,144
Department of Agriculture	26,021	15,366	0	0	10,625	0	30	0	0
Department of Commerce	541	37	390	0	114	0	0	0	0
Department of Defense, research	7,775	59	5,896	0	1,820	0	0	0	0
Department of Defense, total development ^b	13,147	334	8,719	0	3,593	0	500	0	0
Department of Energy	8,232	0	0	0	6,911	0	1,321	0	0
Department of Health and Human Services	59,729	12	13,052	0	41,111	0	5,530	0	24
Department of Homeland Security	4,409	0	0	0	0	0	4,409	0	0
Department of the Interior	9,832	8,064	0	0	1,695	0	0	0	73
Department of Transportation	1,050	3	0	0	0	0	0	0	1,047
Environmental Protection Agency	262	0	70	0	192	0	0	0	0
National Aeronautics and Space Administration	5,883	0	2,384	0	3,499	0	0	0	0
National Science Foundation	32,539	0	926	0	28,613	0	0	0	3,000

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2009

(Dollars in thousands)

State/location and agency	Total R&D	Intramural ^a	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Nebraska	218,921	29,312	14,446	0	165,085	0	8,755	0	1,324
Department of Agriculture	33,765	24,003	170	0	9,592	0	0	0	0
Department of Commerce	256	61	0	0	195	0	0	0	0
Department of Defense, research	21,136	265	1,896	0	18,975	0	0	0	0
Department of Defense, total development ^b	19,759	834	10,427	0	7,004	0	1,494	0	0
Department of Energy	2,454	0	0	0	2,454	0	0	0	0
Department of Health and Human Services	110,416	12	1,142	0	101,818	0	6,986	0	459
Department of Homeland Security	*	0	*	0	0	0	0	0	0
Department of the Interior	4,433	3,959	0	0	351	0	69	0	54
Department of Transportation	1,922	0	611	0	500	0	0	0	810
Environmental Protection Agency	622	0	0	0	622	0	0	0	0
National Aeronautics and Space Administration	409	178	0	0	232	0	0	0	0
National Science Foundation	23,748	0	199	0	23,342	0	206	0	0
Nevada	492,146	34,545	388,972	0	61,195	0	6,198	0	1,236
Department of Agriculture	3,798	540	0	0	3,003	0	255	0	0
Department of Commerce	1,512	13	0	0	1,499	0	0	0	0
Department of Defense, research	15,863	5,349	5,544	0	4,970	0	0	0	0
Department of Defense, total development ^b	206,170	4,250	200,340	0	0	0	1,580	0	0
Department of Energy	177,939	0	174,215	0	2,674	0	1,050	0	0
Department of Health and Human Services	25,324	12	753	0	21,223	0	3,312	0	24
Department of Homeland Security	4,441	0	2,002	0	2,439	0	0	0	0
Department of the Interior	5,419	4,491	15	0	711	0	0	0	203
Department of Transportation	1,527	4	514	0	0	0	0	0	1,009
Environmental Protection Agency	19,252	19,252	0	0	0	0	0	0	0
National Aeronautics and Space Administration	6,371	635	4,739	0	997	0	0	0	0
National Science Foundation	24,529	0	850	0	23,679	0	0	0	0
New Hampshire	419,244	33,810	212,363	0	169,250	0	3,222	0	599
Department of Agriculture	9,873	5,640	0	0	4,122	0	111	0	0
Department of Commerce	2,913	76	34	0	2,802	0	0	0	0
Department of Defense, research	45,813	6,569	33,113	0	5,287	0	844	0	0
Department of Defense, total development ^b	186,209	17,151	166,805	0	925	0	1,329	0	0
Department of Energy	2,057	0	0	0	2,057	0	0	0	0
Department of Health and Human Services	114,422	312	4,970	0	108,200	0	916	0	24
Department of Homeland Security	66	0	66	0	0	0	0	0	0
Department of the Interior	2,097	1,875	0	0	106	0	22	0	93

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2009

(Dollars in thousands)

State/location and agency	Total R&D	Intramural ^a	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Department of Transportation	2,929	1	13	0	2,433	0	0	0	482
National Aeronautics and Space Administration	13,929	289	6,214	0	7,426	0	0	0	0
National Science Foundation	38,937	1,897	1,147	0	35,893	0	0	0	0
New Jersey	2,453,985	792,331	1,052,965	0	519,510	66,141	16,963	0	6,075
Department of Agriculture	12,764	0	60	0	12,689	0	5	0	10
Department of Commerce	25,843	20,285	2,969	0	2,590	0	0	0	0
Department of Defense, research	220,580	79,344	92,238	0	47,374	0	1,624	0	0
Department of Defense, total development ^b	1,586,240	658,647	910,916	0	15,320	0	1,357	0	0
Department of Energy	96,982	92	4,550	0	26,123	66,141	76	0	0
Department of Health and Human Services	316,427	12	23,323	0	276,334	0	13,810	0	2,946
Department of Homeland Security	14,907	6,083	2,593	0	6,220	0	11	0	0
Department of the Interior	7,617	3,807	3,117	0	455	0	0	0	238
Department of Transportation	30,149	20,370	5,394	0	1,504	0	0	0	2,881
Environmental Protection Agency	3,727	2,558	0	0	1,169	0	0	0	0
National Aeronautics and Space Administration	12,831	1,017	5,884	0	5,896	0	33	0	0
National Science Foundation	125,919	115	1,921	0	123,837	0	46	0	0
New Mexico	3,566,240	472,070	711,802	2,104,686	221,421	0	47,828	0	8,433
Department of Agriculture	12,289	6,240	7	0	4,823	0	878	0	341
Department of Commerce	4,330	56	900	0	3,375	0	0	0	0
Department of Defense, research	240,671	59,702	108,697	51,467	18,315	0	2,489	0	0
Department of Defense, total development ^b	1,156,491	326,286	587,616	222,337	17,472	0	2,779	0	0
Department of Energy	1,870,718	55,047	1,458	1,778,485	31,197	0	2,813	0	1,719
Department of Health and Human Services	150,428	12	5,312	17,338	90,230	0	35,211	0	2,325
Department of Homeland Security	33,974	0	1,108	32,866	0	0	0	0	0
Department of the Interior	9,910	7,286	0	0	2,358	0	0	0	266
Department of Transportation	9,242	1,967	756	1,630	1,983	0	8	0	2,898
Environmental Protection Agency	570	0	70	0	0	0	500	0	0
National Aeronautics and Space Administration	23,715	14,665	4,922	563	3,566	0	0	0	0
National Science Foundation	53,901	810	956	0	48,102	0	3,150	0	884
New York	6,118,791	236,403	2,438,990	0	2,516,056	0	464,342	365,510	97,489
Department of Agriculture	43,509	19,826	20	0	22,150	0	1,513	0	0
Department of Commerce	19,162	1	3,098	0	15,927	0	22	115	0
Department of Defense, research	319,126	76,627	155,136	0	74,970	0	10,153	2,241	0
Department of Defense, total development ^b	1,974,437	111,454	1,832,773	0	17,461	0	12,497	253	0

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2009

(Dollars in thousands)

State/location and agency	Total R&D	Intramural ^a	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Department of Energy	764,038	272	332,813	0	83,591	0	3,738	343,623	0
Department of Health and Human Services	2,428,446	12	86,365	0	1,827,353	0	413,985	9,799	90,932
Department of Homeland Security	19,889	13,931	1,482	0	2,369	0	795	0	1,312
Department of the Interior	10,172	8,208	0	0	1,514	0	0	0	450
Department of Transportation	17,968	5,899	3,632	0	2,573	0	1,124	0	4,740
Environmental Protection Agency	5,340	0	190	0	5,150	0	0	0	0
National Aeronautics and Space Administration	48,366	172	14,943	0	23,342	0	431	9,478	0
National Science Foundation	468,337	0	8,539	0	439,658	0	20,085	0	56
North Carolina	2,013,285	259,166	264,362	0	1,365,184	0	116,757	0	7,815
Department of Agriculture	40,600	19,441	0	0	20,400	0	208	0	551
Department of Commerce	18,180	9,898	4,956	0	3,326	0	0	0	0
Department of Defense, research	129,013	27,008	46,137	0	53,279	0	2,589	0	0
Department of Defense, total development ^b	111,720	23,827	68,807	0	17,765	0	1,321	0	0
Department of Energy	38,698	206	0	0	36,107	0	2,385	0	0
Department of Health and Human Services	1,311,337	59	131,801	0	1,069,791	0	105,728	0	3,959
Department of Homeland Security	8,372	0	416	0	5,938	0	2,019	0	0
Department of the Interior	15,247	13,123	0	0	1,801	0	129	0	195
Department of Transportation	16,129	5,762	2,175	0	4,856	0	226	0	3,110
Environmental Protection Agency	169,992	159,261	3,975	0	6,455	0	300	0	0
National Aeronautics and Space Administration	6,686	581	1,689	0	3,436	0	980	0	0
National Science Foundation	147,311	0	4,407	0	142,031	0	873	0	0
North Dakota	101,011	25,912	6,450	0	66,231	0	1,713	0	705
Department of Agriculture	34,752	23,487	0	0	11,261	0	0	0	4
Department of Commerce	1,313	37	0	0	1,276	0	0	0	0
Department of Defense, research	4,582	0	2,998	0	1,584	0	0	0	0
Department of Defense, total development ^b	12,443	867	2,241	0	9,336	0	0	0	0
Department of Energy	14,171	0	0	0	14,171	0	0	0	0
Department of Health and Human Services	16,873	12	993	0	14,141	0	1,704	0	24
Department of the Interior	1,729	1,429	4	0	261	0	9	0	26
Department of Transportation	2,276	80	*	0	1,546	0	0	0	650
National Aeronautics and Space Administration	483	0	114	0	369	0	0	0	0
National Science Foundation	12,388	0	100	0	12,288	0	0	0	0
Ohio	3,824,569	1,006,287	1,750,823	0	870,293	0	190,807	0	6,359
Department of Agriculture	27,851	10,526	16	0	17,274	0	0	0	35
Department of Commerce	3,484	38	1,736	0	1,614	0	96	0	0

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2009

(Dollars in thousands)

State/location and agency	Total R&D	Intramural ^a	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Department of Defense, research	563,566	300,775	187,388	0	60,425	0	14,160	0	818
Department of Defense, total development ^b	1,975,912	497,660	1,442,520	0	22,513	0	13,219	0	0
Department of Energy	26,325	0	2,958	0	13,874	0	9,494	0	0
Department of Health and Human Services	815,849	14,414	41,323	0	623,106	0	135,757	0	1,249
Department of Homeland Security	14,455	953	2,120	0	0	0	11,382	0	0
Department of the Interior	5,831	4,878	650	0	41	0	0	0	263
Department of Transportation	13,293	1,557	5,959	0	1,623	0	296	0	3,858
Environmental Protection Agency	99,283	83,741	14,677	0	0	0	866	0	0
National Aeronautics and Space Administration	155,817	91,746	47,529	0	11,706	0	4,836	0	0
National Science Foundation	122,901	0	3,947	0	118,117	0	700	0	137
Oklahoma	350,605	108,160	67,691	0	137,832	0	34,832	0	2,089
Department of Agriculture	23,287	12,325	0	0	10,683	0	12	0	268
Department of Commerce	19,331	13,825	0	0	5,499	0	0	0	8
Department of Defense, research	20,398	2,339	6,054	0	12,004	0	0	0	0
Department of Defense, total development ^b	80,062	51,682	27,749	0	172	0	460	0	0
Department of Energy	9,797	2,476	27	0	6,396	0	898	0	0
Department of Health and Human Services	102,455	12	2,899	0	66,046	0	33,376	0	122
Department of Homeland Security	1,902	0	1,468	0	433	0	0	0	0
Department of the Interior	3,898	3,335	0	0	563	0	0	0	0
Department of Transportation	16,172	11,069	3,411	0	0	0	0	0	1,692
Environmental Protection Agency	11,204	11,084	0	0	120	0	0	0	0
National Aeronautics and Space Administration	27,509	13	25,482	0	1,933	0	80	0	0
National Science Foundation	34,590	0	600	0	33,984	0	7	0	0
Oregon	631,477	96,674	65,335	0	416,628	0	44,809	0	8,032
Department of Agriculture	59,423	42,547	224	0	15,992	0	446	0	214
Department of Commerce	8,455	3,874	1,285	0	3,296	0	0	0	0
Department of Defense, research	19,152	7	3,750	0	15,395	0	0	0	0
Department of Defense, total development ^b	40,267	151	35,438	0	4,678	0	0	0	0
Department of Energy	27,487	14,909	75	0	12,219	0	223	0	61
Department of Health and Human Services	354,984	12	20,560	0	290,267	0	41,854	0	2,291
Department of Homeland Security	3	0	3	0	0	0	0	0	0
Department of the Interior	16,696	13,904	14	0	1,959	0	0	0	819
Department of Transportation	6,188	69	0	0	145	0	1,520	0	4,454
Environmental Protection Agency	21,740	20,974	120	0	454	0	0	0	192
National Aeronautics and Space Administration	7,621	227	2,660	0	4,651	0	85	0	0

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2009

(Dollars in thousands)

State/location and agency	Total R&D	Intramural ^a	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
National Science Foundation	69,462	0	1,209	0	67,572	0	682	0	0
Pennsylvania	4,114,322	368,302	1,454,104	0	1,945,294	28,454	307,541	1,880	8,748
Department of Agriculture	63,771	45,365	0	0	17,911	0	485	0	10
Department of Commerce	8,771	56	4,856	0	3,833	0	25	0	0
Department of Defense, research	197,487	7,864	62,967	0	120,388	14	6,254	0	0
Department of Defense, total development ^b	1,395,347	199,106	1,038,558	0	95,622	28,440	31,741	1,880	0
Department of Energy	416,526	66,967	284,675	0	63,803	0	1,081	0	0
Department of Health and Human Services	1,724,717	26,780	44,874	0	1,382,942	0	266,373	0	3,748
Department of Homeland Security	1,519	32	1,487	0	0	0	0	0	0
Department of the Interior	17,323	15,506	2	0	993	0	344	0	478
Department of Transportation	14,322	5,864	1,958	0	1,989	0	0	0	4,511
Environmental Protection Agency	2,516	0	1,121	0	1,395	0	0	0	0
National Aeronautics and Space Administration	23,206	762	8,866	0	13,578	0	0	0	0
National Science Foundation	248,815	0	4,739	0	242,839	0	1,237	0	0
Rhode Island	678,416	358,683	64,355	0	167,605	0	86,900	0	874
Department of Agriculture	3,338	0	0	0	3,328	0	10	0	0
Department of Commerce	2,290	16	419	0	1,855	0	0	0	0
Department of Defense, research	33,960	17,720	5,754	0	10,358	0	129	0	0
Department of Defense, total development ^b	374,050	320,949	52,879	0	222	0	0	0	0
Department of Energy	4,547	0	15	0	4,368	0	163	0	0
Department of Health and Human Services	179,950	12	3,894	0	90,743	0	85,077	0	224
Department of Homeland Security	3,857	456	11	0	3,390	0	0	0	0
Department of the Interior	2,974	1,971	0	0	998	0	5	0	0
Department of Transportation	1,060	0	520	0	0	0	0	0	540
Environmental Protection Agency	17,621	17,551	70	0	0	0	0	0	0
National Aeronautics and Space Administration	4,308	8	644	0	3,655	0	0	0	0
National Science Foundation	50,461	0	148	0	48,686	0	1,516	0	110
South Carolina	650,396	180,163	134,369	37,493	228,028	0	65,639	0	4,704
Department of Agriculture	20,975	12,460	0	0	8,311	0	0	0	204
Department of Commerce	9,949	7,158	692	0	1,784	0	5	0	310
Department of Defense, research	26,191	1,717	8,952	0	11,955	0	3,567	0	0
Department of Defense, total development ^b	280,177	133,212	111,745	4,083	2,901	0	28,235	0	0
Department of Energy	39,368	1	0	32,743	6,487	0	137	0	0
Department of Health and Human Services	189,361	12	8,733	0	177,743	0	965	0	1,908
Department of Homeland Security	22,184	21,516	1	667	0	0	0	0	0

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2009

(Dollars in thousands)

State/location and agency	Total R&D	Intramural ^a	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Department of the Interior	5,417	3,972	679	0	318	0	0	0	448
Department of Transportation	1,833	0	*	0	0	0	0	0	1,833
Environmental Protection Agency	800	0	0	0	800	0	0	0	0
National Aeronautics and Space Administration	2,023	115	225	0	1,683	0	0	0	0
National Science Foundation	52,118	0	3,342	0	16,046	0	32,730	0	0
South Dakota	79,317	9,686	9,896	0	51,530	0	7,440	0	765
Department of Agriculture	11,546	4,616	0	0	6,455	0	460	0	15
Department of Commerce	22	6	0	0	16	0	0	0	0
Department of Defense, research	12,369	115	3,222	0	9,033	0	0	0	0
Department of Defense, total development ^b	10,993	456	6,371	0	4,167	0	0	0	0
Department of Energy	15	0	0	0	15	0	0	0	0
Department of Health and Human Services	27,070	12	87	0	19,967	0	6,980	0	24
Department of the Interior	3,450	3,080	0	0	371	0	0	0	0
Department of Transportation	793	0	67	0	0	0	0	0	726
National Aeronautics and Space Administration	2,713	1,402	0	0	1,311	0	0	0	0
National Science Foundation	10,345	0	150	0	10,195	0	0	0	0
Tennessee	2,021,066	207,460	240,638	0	616,335	0	93,831	854,995	7,806
Department of Agriculture	28,650	14,025	0	0	14,171	0	118	0	336
Department of Commerce	4,636	1,123	0	0	2,663	0	0	850	0
Department of Defense, research	57,520	8,376	16,276	0	20,041	0	0	12,828	0
Department of Defense, total development ^b	209,141	135,246	56,318	0	8,379	0	501	8,697	0
Department of Energy	820,088	18,511	1,393	0	9,734	0	6,361	784,089	0
Department of Health and Human Services	558,507	12	4,429	0	478,405	0	69,531	3,441	2,688
Department of Homeland Security	39,379	0	0	0	0	0	0	39,379	0
Department of the Interior	14,714	12,989	0	0	1,578	0	0	0	147
Department of Transportation	13,398	1,242	1,085	0	756	0	0	5,701	4,615
Environmental Protection Agency	495	0	295	0	200	0	0	0	0
National Aeronautics and Space Administration	195,995	15,936	159,448	0	3,280	0	17,320	10	0
National Science Foundation	78,542	0	1,395	0	77,127	0	0	0	20
Texas	5,757,066	497,395	3,295,351	0	1,756,969	0	193,065	260	14,026
Department of Agriculture	102,040	55,668	0	0	46,349	0	5	0	18
Department of Commerce	6,144	231	1,026	0	3,543	0	1,000	0	344
Department of Defense, research	290,818	40,836	131,666	0	104,477	0	13,839	0	0
Department of Defense, total development ^b	3,235,044	228,139	2,942,427	0	52,266	0	12,112	0	100

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2009

(Dollars in thousands)

State/location and agency	Total R&D	Intramural ^a	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Department of Energy	84,514	898	6,461	0	47,052	0	29,986	0	117
Department of Health and Human Services	1,307,900	1,715	26,750	0	1,211,602	0	65,896	260	1,678
Department of Homeland Security	17,937	1,451	6,835	0	8,385	0	831	0	434
Department of the Interior	38,324	24,658	10,987	0	2,402	0	0	0	277
Department of Transportation	18,087	156	5,691	0	2,702	0	0	0	9,538
Environmental Protection Agency	4,417	0	415	0	4,002	0	0	0	0
National Aeronautics and Space Administration	412,190	143,642	157,507	0	43,817	0	66,097	0	1,126
National Science Foundation	239,651	0	5,586	0	230,373	0	3,299	0	393
Utah	975,971	130,330	563,442	0	275,256	0	3,996	0	2,947
Department of Agriculture	36,333	22,085	0	0	14,193	0	0	0	55
Department of Commerce	1,808	73	637	0	1,099	0	0	0	0
Department of Defense, research	21,319	4,058	7,713	0	9,548	0	0	0	0
Department of Defense, total development ^b	638,552	95,868	530,381	0	11,836	0	466	0	0
Department of Energy	15,196	316	0	0	14,358	0	0	0	522
Department of Health and Human Services	197,214	12	14,785	0	177,758	0	3,530	0	1,128
Department of Homeland Security	28	0	0	0	28	0	0	0	0
Department of the Interior	10,179	7,910	0	0	1,892	0	0	0	377
Department of Transportation	1,073	*	174	0	34	0	0	0	865
Environmental Protection Agency	790	0	0	0	790	0	0	0	0
National Aeronautics and Space Administration	10,627	6	8,112	0	2,509	0	0	0	0
National Science Foundation	42,853	0	1,641	0	41,211	0	0	0	0
Vermont	151,375	5,304	46,376	0	97,568	0	1,491	0	635
Department of Agriculture	13,975	3,330	18	0	10,627	0	0	0	0
Department of Commerce	2,076	6	0	0	2,070	0	0	0	0
Department of Defense, research	3,393	16	2,332	0	1,046	0	0	0	0
Department of Defense, total development ^b	40,608	803	39,615	0	0	0	190	0	0
Department of Energy	302	0	0	0	302	0	0	0	0
Department of Health and Human Services	75,640	12	2,836	0	71,466	0	1,301	0	24
Department of the Interior	1,072	918	0	0	76	0	0	0	79
Department of Transportation	412	0	0	0	0	0	0	0	412
Environmental Protection Agency	120	0	0	0	0	0	0	0	120
National Aeronautics and Space Administration	798	218	424	0	156	0	0	0	0
National Science Foundation	12,978	0	1,152	0	11,826	0	0	0	0
Virginia	9,080,175	3,274,890	4,620,773	0	610,512	166,769	130,498	269,383	7,350
Department of Agriculture	19,771	1,071	0	0	15,386	0	1,769	0	1,545

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2009

(Dollars in thousands)

State/location and agency	Total R&D	Intramural ^a	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Department of Commerce	12,572	3,666	3,519	0	4,991	0	396	0	0
Department of Defense, research	702,036	178,133	444,809	0	52,644	6,517	11,375	8,559	0
Department of Defense, total development ^b	6,860,471	2,866,846	3,711,846	0	28,829	0	33,789	219,161	0
Department of Energy	127,545	10,398	1,207	0	18,146	93,350	4,445	0	0
Department of Health and Human Services	506,990	299	103,497	0	353,929	0	47,813	1,000	452
Department of Homeland Security	75,042	16,150	48,192	0	1,441	0	3,690	5,570	0
Department of the Interior	25,159	22,257	881	0	1,798	0	21	0	201
Department of Transportation	117,600	14,211	58,385	0	4,158	0	4,205	31,491	5,151
Environmental Protection Agency	19,600	935	15,976	0	0	0	2,689	0	0
National Aeronautics and Space Administration	414,221	158,560	228,639	0	13,360	0	13,661	0	1
National Science Foundation	199,168	2,365	3,822	0	115,831	66,902	6,644	3,604	0
Washington	4,042,324	251,099	2,293,145	0	776,476	0	412,808	303,760	5,036
Department of Agriculture	55,807	33,151	48	0	22,417	0	115	0	75
Department of Commerce	33,806	28,496	179	0	5,131	0	0	0	0
Department of Defense, research	81,622	1,889	39,788	0	28,241	0	3,418	8,287	0
Department of Defense, total development ^b	2,379,314	160,600	2,200,201	0	10,356	0	2,331	5,826	0
Department of Energy	259,357	4,228	2,306	0	22,679	0	9,094	221,050	0
Department of Health and Human Services	1,023,513	4,994	32,126	0	548,020	0	392,781	43,099	2,494
Department of Homeland Security	25,275	420	234	0	44	0	0	24,576	0
Department of the Interior	20,419	17,045	104	0	2,565	0	38	0	668
Department of Transportation	3,906	38	829	0	913	0	326	0	1,799
Environmental Protection Agency	3,503	0	77	0	3,139	0	287	0	0
National Aeronautics and Space Administration	19,539	197	10,925	0	7,495	0	0	922	0
National Science Foundation	136,262	41	6,328	0	125,475	0	4,419	0	0
West Virginia	260,855	119,657	68,697	0	54,613	0	11,961	0	5,927
Department of Agriculture	34,318	25,683	0	0	7,615	0	1,020	0	0
Department of Commerce	5,333	85	300	0	4,948	0	0	0	0
Department of Defense, research	12,053	0	9,160	0	2,821	0	72	0	0
Department of Defense, total development ^b	34,091	4,943	26,831	0	375	0	1,942	0	0
Department of Energy	107,234	70,852	31,911	0	2,596	0	1,537	0	338
Department of Health and Human Services	50,336	16,329	20	0	33,911	0	51	0	24
Department of Homeland Security	555	0	*	0	0	0	555	0	0
Department of the Interior	2,017	1,732	0	0	222	0	0	0	62
Department of Transportation	2,280	32	0	0	1,174	0	0	0	1,074

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2009

(Dollars in thousands)

State/location and agency	Total R&D	Intramural ^a	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Environmental Protection Agency	282	0	0	0	282	0	0	0	0
National Aeronautics and Space Administration	687	0	403	0	109	0	175	0	0
National Science Foundation	11,670	0	71	0	560	0	6,610	0	4,429
Wisconsin	882,636	89,196	73,908	0	700,832	0	15,408	0	3,292
Department of Agriculture	54,696	37,452	20	0	16,945	0	171	0	108
Department of Commerce	36,183	34,623	637	0	922	0	0	0	0
Department of Defense, research	34,091	138	17,785	0	16,168	0	0	0	0
Department of Defense, total development ^b	31,758	130	30,465	0	1,162	0	0	0	0
Department of Energy	59,774	325	88	0	59,361	0	0	0	0
Department of Health and Human Services	508,053	12	18,971	0	473,556	0	14,768	0	746
Department of Homeland Security	3	0	3	0	0	0	0	0	0
Department of the Interior	12,455	10,714	15	0	1,571	0	0	0	155
Department of Transportation	11,634	5,763	1,696	0	2,006	0	0	0	2,169
Environmental Protection Agency	1,217	0	950	0	267	0	0	0	0
National Aeronautics and Space Administration	11,700	39	2,529	0	9,132	0	*	0	0
National Science Foundation	121,073	0	749	0	119,742	0	468	0	114
Wyoming	64,151	9,560	20,441	0	30,008	0	2,094	0	2,048
Department of Agriculture	7,957	5,002	0	0	2,767	0	113	0	74
Department of Commerce	750	1	0	0	749	0	0	0	0
Department of Defense, research	10,732	0	9,218	0	1,513	0	0	0	0
Department of Defense, total development ^b	8,176	80	8,057	0	38	0	0	0	0
Department of Energy	3,888	0	280	0	1,752	0	1,856	0	0
Department of Health and Human Services	10,132	12	846	0	8,854	0	11	0	409
Department of the Interior	5,388	4,464	0	0	716	0	0	0	207
Department of Transportation	1,458	0	0	0	0	0	100	0	1,358
National Aeronautics and Space Administration	547	0	106	0	428	0	14	0	0
National Science Foundation	15,124	0	1,934	0	13,190	0	0	0	0
Outlying areas	237,211	111,393	8,160	0	112,763	0	626	0	4,268
Department of Agriculture	15,756	5,735	0	0	9,991	0	17	0	13
Department of Commerce	444	363	0	0	74	0	0	0	7
Department of Defense, research	443	0	155	0	288	0	0	0	0
Department of Defense, total development ^b	2,794	0	2,743	0	50	0	0	0	0
Department of Energy	799	0	0	0	799	0	0	0	0
Department of Health and Human Services	180,320	92,236	2,007	0	81,295	0	610	0	4,172
Department of the Interior	7,557	7,275	0	0	282	0	0	0	0

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2009

(Dollars in thousands)

State/location and agency	Total R&D	Intramural ^a	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Department of Transportation	8,983	5,763	3,220	0	0	0	0	0	0
National Aeronautics and Space Administration	106	0	35	0	71	0	0	0	0
National Science Foundation	20,009	21	0	0	19,913	0	0	0	76
Puerto Rico	96,101	6,786	118	0	88,106	0	28	0	1,064
Department of Agriculture	10,459	5,405	0	0	5,024	0	17	0	13
Department of Commerce	82	1	0	0	74	0	0	0	7
Department of Defense, research	288	0	0	0	288	0	0	0	0
Department of Defense, total development ^b	113	0	100	0	13	0	0	0	0
Department of Energy	799	0	0	0	799	0	0	0	0
Department of Health and Human Services	65,930	12	3	0	64,860	0	11	0	1,044
Department of the Interior	1,368	1,368	0	0	0	0	0	0	0
National Aeronautics and Space Administration	86	0	15	0	71	0	0	0	0
National Science Foundation	16,977	0	0	0	16,977	0	0	0	0
Other areas ^c	141,110	104,607	8,043	0	24,658	0	599	0	3,204
Department of Agriculture	5,297	330	0	0	4,967	0	0	0	0
Department of Commerce	362	362	0	0	0	0	0	0	0
Department of Defense, research	155	0	155	0	0	0	0	0	0
Department of Defense, total development ^b	2,681	0	2,644	0	37	0	0	0	0
Department of Health and Human Services	114,390	92,224	2,004	0	16,435	0	599	0	3,128
Department of the Interior	6,188	5,906	0	0	282	0	0	0	0
Department of Transportation	8,983	5,763	3,220	0	0	0	0	0	0
National Aeronautics and Space Administration	20	0	20	0	0	0	0	0	0
National Science Foundation	3,033	21	0	0	2,936	0	0	0	76
Offices abroad ^d	63,217	30,424	30,167	0	2,247	0	11	0	369
Department of Defense, research	13,585	12,445	95	0	1,045	0	0	0	0
Department of Defense, total development ^b	43,954	15,072	28,882	0	0	0	0	0	0

TABLE 86. Federal obligations for research and development, by state and other locations, selected agency, and performer: FY 2009

(Dollars in thousands)

State/location and agency	Total R&D	Intramural ^a	Extramural						
			Industry	Industry FFRDC	Universities and colleges	University FFRDC	Other nonprofits	Nonprofit FFRDC	State, local governments
Department of Health and Human Services	1,559	12	3	0	1,165	0	11	0	369
Department of the Interior	2,987	2,895	55	0	37	0	0	0	0
National Science Foundation	1,132	0	1,132	0	0	0	0	0	0

* = amount greater than \$0 but less than \$50,000.

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, Baker Island, Federated States of Micronesia, Guam, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Marshall Islands, Midway Islands, Navassa Island, Northern Mariana Islands, Palau, Palmyra Atoll, Virgin Islands of the United States, and Wake Island.

^d Includes R&D performed or administered in foreign countries by the U.S. government.

NOTES: Only 11 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 99% of total federal R&D obligations in FY 2009. Geographic distribution of DOD development funding to industry reflects location of prime contractors and not numerous subcontractors who perform much of the R&D.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development: FY 2009–11.