Survey of State Government Research and Development: FYs 2012 and 2013

Detailed Statistical Tables | NSF 15-323 | June 2015

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General Notes

These tables present the results of the National Science Foundation (NSF) FY 2012 and FY 2013 Survey of State Government Research and Development, conducted for NSF by the U.S. Census Bureau. The Census Bureau employed a methodology similar to that used to collect data from state and local governments on other censuses and surveys.

The survey was distributed to departments, agencies, commissions, public authorities, and other state-run entities within the 50 states, the District of Columbia, and Puerto Rico that were considered likely to conduct or fund R&D activities. Respondents that did not have qualifying R&D activity were not required to complete the questionnaire beyond a screening question. All 50 states, the District of Columbia, and Puerto Rico participated in the survey. These states distributed the survey to 366 agencies, 365 of which responded.[1] Of those responding, 287 agencies reported conducting or funding R&D in FY 2012 or FY 2013. Respondents were requested to provide statistics on their total R&D expenditures and amounts for intramural and extramural performers, the amount devoted to basic research activities, the amount for which the federal government was an original source of funds, and the amount of money allocated to particular government functions. An additional question was asked about the amount of expenditures for the construction and acquisition of R&D facilities.

Note

1. The District of Columbia and Puerto Rico are referred to as states and treated as state equivalents throughout this report.

Data Tables

Table **State agency expenditures for R&D and R&D plant: FY 2012 and FY 2013**
by state
1 all state government R&D expenditures and gross domestic product
2 by performer

State agency expenditures for R&D, by state
3 FYs 2006–13
by source of funds
4 all performers: FY 2012 and FY 2013
5 intramural performers: FY 2012 and FY 2013
6 intramural performers: FYs 2006–13
7 for basic research and basic research share: FY 2012 and FY 2013
8 by government function: FY 2012 and FY 2013
9 agriculture: FYs 2009–13
10 energy: FYs 2009–13
11 environment and natural resources: FYs 2009–13
12 health: FYs 2009–13
13 transportation: FYs 2009–13
14 other: FYs 2009–13
15 from federal sources: FYs 2006–13

State agency expenditures for R&D, by state and department or agency
16 total and R&D plant, by performer: FY 2012
17 total and R&D plant, by performer: FY 2013
by source of funds
18 all performers: FY 2012
19 all performers: FY 2013
20 intramural performers: FY 2012
21 intramural performers: FY 2013
22 by performer: FY 2012
23 by performer: FY 2013
24 by government function: FY 2012
25 by government function: FY 2013

TABLE 1. State agency expenditures for R&D and R&D plant, and gross domestic product, by state: FYs 2012–13
(Thousands of dollars)

State	State R&D expenditures[a]		State R&D plant expenditures		Gross domestic product	
	2012	2013	2012	2013	2012	2013
United States[b]	1,795,159	1,785,039	39,787	26,252	15,245,906,000	15,526,715,000
Alabama	17,353	13,293	3,730	6,909	179,312,000	180,727,000
Alaska	5,468	6,689	0	0	52,870,000	51,542,000
Arizona	22,810	27,811	19	0	259,043,000	261,924,000
Arkansas	15,518	16,519	0	0	113,056,000	115,745,000
California	401,523	346,942	22,724	4,826	2,009,936,000	2,050,693,000
Colorado	14,929	14,472	0	0	263,593,000	273,721,000
Connecticut	40,018	41,023	0	0	231,809,000	233,996,000
Delaware	4,636	4,729	0	0	57,129,000	58,028,000
District of Columbia	2,018	1,849	0	0	105,989,000	105,465,000
Florida	136,707	118,781	0	0	734,274,000	750,511,000
Georgia	12,820	12,698	0	0	416,927,000	424,606,000
Hawaii	11,146	13,095	0	0	68,825,000	70,110,000
Idaho	11,786	12,929	0	0	54,792,000	57,029,000
Illinois	17,859	17,999	0	0	665,613,000	671,407,000
Indiana	7,668	10,167	0	0	288,261,000	294,212,000
Iowa	16,147	19,365	1,003	2,063	146,336,000	150,512,000
Kansas	6,161	5,708	4,199	3,914	129,726,000	132,153,000
Kentucky	19,886	19,751	1,000	0	168,022,000	170,667,000
Louisiana	18,143	15,713	0	0	219,209,000	222,008,000
Maine	7,095	6,110	0	0	50,707,000	51,163,000
Maryland	21,890	29,467	0	0	322,188,000	322,234,000
Massachusetts	3,919	4,590	0	0	414,144,000	420,748,000
Michigan	12,558	12,830	0	0	400,232,000	408,218,000
Minnesota	11,525	14,856	0	0	281,284,000	289,125,000
Mississippi	6,260	4,863	0	0	95,474,000	96,979,000
Missouri	13,041	13,051	0	0	256,183,000	258,135,000
Montana	6,842	6,570	0	0	38,692,000	39,846,000
Nebraska	6,367	7,274	0	0	95,349,000	98,250,000
Nevada	1,167	1,641	0	0	122,698,000	123,903,000
New Hampshire	2,241	1,788	0	0	63,538,000	64,118,000
New Jersey	17,818	22,414	0	0	503,497,000	509,067,000
New Mexico	1,794	2,016	0	0	83,057,000	84,310,000
New York	171,841	177,063	50	250	1,217,512,000	1,226,619,000
North Carolina	32,530	30,650	100	250	429,707,000	439,672,000
North Dakota	6,035	7,364	0	0	45,385,000	49,772,000
Ohio	153,383	188,312	0	0	517,064,000	526,196,000
Oklahoma	23,134	28,225	1,466	2,652	157,737,000	164,303,000
Oregon	22,003	23,084	0	0	205,723,000	211,241,000
Pennsylvania	80,600	66,429	5,495	5,240	599,523,000	603,872,000
Rhode Island	2,028	1,641	0	0	49,262,000	49,962,000
South Carolina	72,467	47,732	0	0	170,212,000	172,176,000
South Dakota	3,448	3,661	0	0	39,906,000	41,142,000
Tennessee	4,293	3,430	0	0	267,554,000	269,602,000
Texas	146,989	185,200	0	0	1,338,578,000	1,387,598,000
Utah	47,388	53,637	0	0	126,193,000	131,017,000
Vermont	1,653	1,828	0	0	27,207,000	27,723,000
Virginia	24,379	25,918	0	0	426,133,000	426,423,000
Washington	49,553	47,123	0	150	371,156,000	381,017,000
West Virginia	33,580	19,028	0	0	65,221,000	68,541,000

TABLE 1. State agency expenditures for R&D and R&D plant, and gross domestic product, by state: FYs 2012–13
(Thousands of dollars)

State	State R&D expenditures[a]		State R&D plant expenditures		Gross domestic product	
	2012	2013	2012	2013	2012	2013
Wisconsin	17,861	21,212	0	0	259,766,000	264,126,000
Wyoming	6,879	6,497	0	0	36,755,000	39,538,000
Puerto Rico[c]	7,625	7,950	0	0	68,697,000	70,740,000

[a] State expenditures do not include R&D plant.

[b] U.S. total reflects all 50 states and the District of Columbia.

[c] Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

SOURCES: National Science Foundation, National Center for Science and Engineering Statistics, Bureau of Economic Analysis, Gross Domestic Product by State (June 2013); Bureau of Economic Analysis, Gross Domestic Product by State (June 2014). Commonwealth of Puerto Rico Comprehensive Annual Financial Report, fiscal year ending June 30, 2014, p. NN, for Puerto Rico expenditures data; Informe Económico al Gobernador (Economic Report to the Governor) (2013), statistical appendix, table 2, for Puerto Rico gross domestic product.

TABLE 2. State agency expenditures for R&D and R&D plant, by state and performer: FYs 2012–13
(Dollars)

State	All R&D expenditures[a]		Intramural performers[b]		Extramural performers[c]								R&D plant	
					Total		Academic institutions		Companies and individuals[d]		Other[e]			
	2012	2013	2012	2013	2012	2013	2012	2013	2012	2013	2012	2013	2012	2013
United States[f]	1,795,159,257	1,785,039,276	470,517,395	464,434,423	1,324,641,862	1,320,604,853	766,333,104	813,829,586	390,920,114	363,225,934	167,388,644	143,549,333	39,786,859	26,252,412
Alabama	17,352,984	13,292,741	8,612,718	9,160,769	8,740,266	4,131,972	4,766,607	3,985,785	3,730,211	60,082	243,448	86,105	3,730,211	6,908,899
Alaska	5,467,944	6,689,384	5,346,296	5,963,195	121,648	726,189	121,648	726,189	0	0	0	0	0	0
Arizona	22,809,895	27,810,970	13,303,829	16,141,770	9,506,066	11,669,200	2,434,141	4,130,964	6,747,817	7,246,255	324,108	291,981	19,400	0
Arkansas	15,518,374	16,518,947	3,006,648	2,992,079	12,511,726	13,526,868	12,001,448	12,551,097	510,278	975,771	0	0	0	0
California	401,522,758	346,942,036	59,490,293	57,262,060	342,032,465	289,679,976	194,662,355	181,528,472	61,160,057	41,509,436	86,210,053	66,642,068	22,723,923	4,825,734
Colorado	14,928,809	14,471,683	8,170,313	8,248,707	6,758,496	6,222,976	2,598,937	1,932,754	1,844,993	1,974,277	2,314,566	2,315,945	0	0
Connecticut	40,017,523	41,023,368	24,039,989	25,612,853	15,977,534	15,410,515	10,223,022	10,187,016	4,612,846	4,090,116	1,141,666	1,133,383	0	0
Delaware	4,635,720	4,729,141	2,181,693	2,514,545	2,454,027	2,214,596	2,454,027	2,024,596	0	190,000	0	0	0	0
District of Columbia	2,018,447	1,848,800	354,612	435,813	1,663,835	1,412,987	1,004,685	864,989	659,150	547,998	0	0	0	0
Florida	136,706,540	118,781,266	48,910,954	47,372,831	87,795,586	71,408,435	52,772,948	39,786,696	31,169,945	24,263,813	3,852,693	7,357,926	0	0
Georgia	12,820,412	12,697,846	4,145,859	2,041,101	8,674,553	10,656,745	8,674,553	10,656,745	0	0	0	0	0	0
Hawaii	11,145,520	13,094,794	4,267,994	4,320,992	6,877,526	8,773,802	2,863,813	3,153,217	3,563,713	5,170,585	450,000	450,000	0	0
Idaho	11,785,529	12,929,174	7,179,818	7,836,031	4,605,711	5,093,143	3,366,115	3,629,206	492,416	576,020	747,180	887,917	0	0
Illinois	17,859,438	17,999,229	1,618,580	1,663,080	16,240,858	16,336,149	11,822,012	12,316,808	102,063	224,060	4,316,783	3,795,281	0	0
Indiana	7,667,988	10,167,120	870,605	1,022,370	6,797,383	9,144,750	6,111,383	8,087,531	686,000	1,057,219	0	0	0	0
Iowa	16,147,249	19,365,308	4,376,976	5,603,029	11,770,273	13,762,279	5,298,355	6,719,963	5,448,031	5,776,990	1,023,887	1,265,326	1,002,955	2,062,685
Kansas	6,160,680	5,708,223	1,484,948	1,577,722	4,675,732	4,130,501	3,731,670	3,171,725	0	0	944,062	958,776	4,198,990	3,913,555
Kentucky	19,886,257	19,751,055	2,893,270	2,962,965	16,992,987	16,788,090	9,221,242	8,629,050	7,771,745	8,159,040	0	0	1,000,000	0
Louisiana	18,143,396	15,713,110	4,884,739	5,081,221	13,258,657	10,631,889	4,896,322	5,662,081	8,362,335	3,139,795	0	1,830,013	0	0
Maine	7,094,736	6,109,793	1,071,798	1,154,177	6,022,938	4,955,616	774,416	658,341	20,000	25,000	5,228,522	4,272,275	0	0
Maryland	21,890,225	29,467,445	513,661	572,247	21,376,564	28,895,198	19,177,600	26,860,408	1,800,500	1,887,108	398,464	147,682	0	0
Massachusetts	3,918,500	4,590,424	917,177	1,083,202	3,001,323	3,507,222	1,896,714	2,012,271	368,040	243,488	736,569	1,251,463	0	0
Michigan	12,557,954	12,830,423	2,277,811	2,651,063	10,280,143	10,179,360	6,062,378	7,017,934	1,017,765	661,426	3,200,000	2,500,000	0	0
Minnesota	11,524,686	14,855,954	1,471,472	1,007,122	10,053,214	13,848,832	5,625,911	8,198,550	3,432,597	3,398,510	994,706	2,251,772	0	0
Mississippi	6,260,080	4,863,312	1,890,566	2,094,537	4,369,514	2,768,775	1,702,322	1,446,282	1,471,567	699,542	1,195,625	622,951	0	0
Missouri	13,041,450	13,051,110	7,274,626	6,696,607	5,766,824	6,354,503	3,770,795	4,065,979	1,563,887	1,888,646	432,142	399,878	0	0
Montana	6,841,897	6,570,018	1,669,440	2,035,229	5,172,457	4,534,789	3,197,818	2,846,679	943,223	1,229,298	1,031,416	458,812	0	0
Nebraska	6,367,304	7,274,333	303,472	368,009	6,063,832	6,906,324	2,910,814	3,333,011	1,895,848	2,911,347	1,257,170	661,966	0	0
Nevada	1,166,762	1,640,871	376,301	366,804	790,461	1,274,067	694,670	1,214,270	95,791	59,797	0	0	0	0
New Hampshire	2,241,149	1,788,396	760,392	683,882	1,480,757	1,104,514	797,750	723,490	583,338	295,016	99,669	86,008	0	0
New Jersey	17,818,258	22,413,516	2,952,996	2,920,843	14,865,262	19,492,673	14,103,395	15,010,540	100,000	42,158	661,867	4,439,975	0	0
New Mexico	1,793,561	2,015,961	671,314	768,893	1,122,247	1,247,068	1,036,528	899,274	85,719	347,794	0	0	0	0
New York	171,841,187	177,063,220	76,176,309	73,922,295	95,664,878	103,140,925	47,328,762	63,917,143	27,392,780	21,302,230	20,943,336	17,921,552	50,000	250,000
North Carolina	32,529,885	30,649,974	20,437,242	20,501,169	12,092,643	10,148,805	11,992,983	10,114,063	39,801	3,000	59,859	31,742	100,000	250,000
North Dakota	6,034,991	7,364,184	530,023	429,670	5,504,968	6,934,514	3,808,257	4,770,522	1,140,311	1,678,992	556,400	485,000	0	0
Ohio	153,382,845	188,311,926	2,246,092	2,040,795	151,136,753	186,271,131	6,583,380	11,137,148	144,370,849	174,949,894	182,524	184,089	0	0
Oklahoma	23,133,843	28,224,758	1,057,822	1,074,816	22,076,021	27,149,942	17,116,145	22,220,618	3,786,126	1,271,123	1,173,750	3,658,201	1,466,330	2,651,539
Oregon	22,003,035	23,083,506	18,162,372	19,524,508	3,840,663	3,558,998	2,886,908	3,036,359	25,956	187,550	927,799	335,089	0	0
Pennsylvania	80,600,099	66,429,400	5,632,495	6,675,458	74,967,604	59,753,942	41,556,324	36,145,510	12,796,777	12,964,338	20,614,503	10,644,094	5,495,050	5,240,000

TABLE 2. State agency expenditures for R&D and R&D plant, by state and performer: FYs 2012–13
(Dollars)

State	All R&D expenditures[a]		Intramural performers[b]		Extramural performers[c]								R&D plant	
					Total		Academic institutions		Companies and individuals[d]		Other[e]			
	2012	2013	2012	2013	2012	2013	2012	2013	2012	2013	2012	2013	2012	2013
Rhode Island	2,028,402	1,640,778	20,000	225,050	2,008,402	1,415,728	1,830,857	1,415,728	177,545	0	0	0	0	0
South Carolina	72,467,293	47,732,177	49,917,998	37,004,464	22,549,295	10,727,713	11,758,222	7,144,089	10,685,654	3,502,057	105,419	81,567	0	0
South Dakota	3,447,633	3,660,854	60,976	114,425	3,386,657	3,546,429	2,102,173	2,110,564	1,284,484	1,418,365	0	17,500	0	0
Tennessee	4,293,334	3,430,476	762,313	784,848	3,531,021	2,645,628	3,531,021	2,645,628	0	0	0	0	0	0
Texas	146,989,380	185,199,541	12,375,067	11,746,259	134,614,313	173,453,282	112,740,527	160,260,834	21,428,113	12,419,381	445,673	773,067	0	0
Utah	47,388,335	53,636,842	17,654,475	17,979,931	29,733,860	35,656,911	29,508,860	35,041,910	225,000	615,001	0	0	0	0
Vermont	1,653,315	1,827,562	1,074,198	1,160,193	579,117	667,369	461,772	506,746	117,345	160,623	0	0	0	0
Virginia	24,379,497	25,917,935	8,766,523	13,046,471	15,612,974	12,871,464	11,505,595	11,461,436	3,700,000	1,100,000	407,379	310,028	0	0
Washington	49,553,326	47,122,876	12,875,297	12,820,150	36,678,029	34,302,726	25,152,740	28,032,951	8,949,782	4,314,094	2,575,507	1,955,681	0	150,000
West Virginia	33,580,156	19,027,684	4,965,278	4,764,417	28,614,878	14,263,267	28,069,044	13,008,092	134,098	676,365	411,736	578,810	0	0
Wisconsin	17,861,390	21,212,446	6,896,219	7,402,664	10,965,171	13,809,782	4,839,791	3,681,533	4,117,217	7,792,839	2,008,163	2,335,410	0	0
Wyoming	6,879,286	6,497,386	3,615,536	3,001,092	3,263,750	3,496,294	2,783,349	3,146,799	308,401	219,495	172,000	130,000	0	0
Puerto Rico[g]	7,625,412	7,949,965	6,360,716	6,084,344	1,264,696	1,865,621	1,051,756	1,645,621	106,470	110,000	106,470	110,000	0	0

[a] State R&D expenditures do not include R&D plant.

[b] Intramural performers include employees within same state department or agency in support of an internal R&D project.

[c] Extramural performers are those outside the department or agency who perform R&D under the administrative oversight or control of the department or agency; this may include projects for the department or agency performed by others or an extramural research program.

[d] Companies and individuals includes individuals under contract for research projects.

[e] Other includes federal government; nonprofit organizations; city, county, regional, or other local governments; other departments or agencies within the same state; and other state governments.

[f] U.S. total reflects all 50 states and the District of Columbia.

[g] Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FYs 2012 and 2013.

TABLE 3. State agency expenditures for R&D, by state: FYs 2006–13
(Dollars)

State	2006	2007	2008	2009	2010	2011	2012	2013
United States[a]	1,059,104,585	1,161,477,543	NA	1,374,074,128	1,507,085,959	1,739,992,261	1,795,159,257	1,785,039,276
Alabama	7,269,319	9,065,725	NA	12,929,167	15,113,917	19,684,063	17,352,984	13,292,741
Alaska	10,019,060	9,526,100	NA	7,741,467	9,274,800	11,349,400	5,467,944	6,689,384
Arizona	37,151,471	20,442,635	NA	9,363,943	17,682,315	18,626,577	22,809,895	27,810,970
Arkansas	4,869,648	7,658,199	NA	11,465,214	14,446,084	14,705,327	15,518,374	16,518,947
California	145,880,736	120,641,324	NA	299,929,949	328,982,383	407,616,001	401,522,758	346,942,036
Colorado	8,997,236	11,924,981	NA	14,849,581	20,828,274	18,141,931	14,928,809	14,471,683
Connecticut	19,209,064	29,285,710	NA	28,559,052	40,065,786	39,192,091	40,017,523	41,023,368
Delaware	2,812,102	2,611,108	NA	1,683,562	2,389,720	2,609,902	4,635,720	4,729,141
District of Columbia	1,173,076	2,009,000	NA	487,411	696,198	1,221,108	2,018,447	1,848,800
Florida	42,329,624	51,968,573	NA	66,513,756	120,848,726	150,764,438	136,706,540	118,781,266
Georgia	10,620,188	4,886,946	NA	6,662,887	8,923,795	11,690,663	12,820,412	12,697,846
Hawaii	12,067,849	22,643,330	NA	13,976,364	14,233,186	13,103,983	11,145,520	13,094,794
Idaho	2,280,873	2,739,006	NA	8,552,058	9,059,568	9,366,052	11,785,529	12,929,174
Illinois	37,184,281	28,372,676	NA	9,570,893	16,553,689	17,207,125	17,859,438	17,999,229
Indiana	6,220,575	40,534,381	NA	47,549,928	8,444,832	6,983,364	7,667,988	10,167,120
Iowa	13,564,062	6,790,053	NA	37,976,643	12,950,176	36,992,222	16,147,249	19,365,308
Kansas	14,348,384	11,752,696	NA	12,305,385	6,509,225	6,635,626	6,160,680	5,708,223
Kentucky	17,558,997	11,960,634	NA	13,938,134	20,410,096	20,498,849	19,886,257	19,751,055
Louisiana	11,216,568	6,587,314	NA	8,285,478	9,165,144	14,979,079	18,143,396	15,713,110
Maine	17,509,051	27,525,552	NA	6,400,019	8,847,471	9,918,765	7,094,736	6,109,793
Maryland	24,945,119	40,298,691	NA	21,093,331	22,825,402	20,084,540	21,890,225	29,467,445
Massachusetts	10,729,419	5,600,189	NA	3,290,198	4,884,430	4,878,927	3,918,500	4,590,424
Michigan	75,016,589	32,849,159	NA	8,630,209	9,469,440	9,802,873	12,557,954	12,830,423
Minnesota	6,219,201	10,529,048	NA	16,655,913	12,212,546	11,653,327	11,524,686	14,855,954
Mississippi	2,744,882	7,343,892	NA	3,623,953	7,168,109	7,420,851	6,260,080	4,863,312
Missouri	18,465,303	15,567,277	NA	15,797,247	13,329,841	13,658,961	13,041,450	13,051,110
Montana	8,606,319	8,200,230	NA	7,200,442	7,543,860	6,474,190	6,841,897	6,570,018
Nebraska	5,602,163	4,043,480	NA	4,415,644	4,232,691	4,061,651	6,367,304	7,274,333
Nevada	1,397,463	1,748,776	NA	1,510,607	1,081,407	1,440,630	1,166,762	1,640,871
New Hampshire	2,040,544	1,685,178	NA	1,860,269	1,804,156	1,921,421	2,241,149	1,788,396
New Jersey	25,900,482	19,981,741	NA	15,146,838	27,939,539	17,068,781	17,818,258	22,413,516
New Mexico	3,105,000	672,921	NA	1,655,529	1,422,955	1,821,583	1,793,561	2,015,961
New York	103,597,135	128,361,166	NA	163,263,519	179,213,795	193,435,192	171,841,187	177,063,220
North Carolina	14,344,310	37,607,109	NA	41,404,202	27,342,380	29,611,785	32,529,885	30,649,974
North Dakota	21,062,090	9,908,722	NA	16,415,807	6,352,675	8,072,257	6,034,991	7,364,184
Ohio	55,068,629	114,086,509	NA	121,394,963	125,120,668	159,322,228	153,382,845	188,311,926
Oklahoma	8,922,036	10,731,050	NA	15,930,878	21,226,236	20,304,740	23,133,843	28,224,758
Oregon	7,382,722	7,389,914	NA	11,120,140	18,013,730	20,001,272	22,003,035	23,083,506
Pennsylvania	117,320,158	103,973,448	NA	95,896,714	87,913,796	75,491,812	80,600,099	66,429,400
Rhode Island	150,000	1,771,949	NA	1,877,724	1,461,239	1,947,727	2,028,402	1,640,778
South Carolina	22,427,746	31,969,826	NA	28,599,885	71,290,446	84,692,653	72,467,293	47,732,177
South Dakota	5,791,586	5,473,603	NA	4,430,602	3,762,637	3,629,155	3,447,633	3,660,854
Tennessee	5,355,000	4,549,998	NA	3,752,587	1,064,262	3,642,490	4,293,334	3,430,476
Texas	28,019,645	29,650,947	NA	49,381,346	35,163,655	47,372,367	146,989,380	185,199,541
Utah	3,214,170	2,752,228	NA	26,442,711	30,812,205	34,418,764	47,388,335	53,636,842
Vermont	1,680,533	1,529,805	NA	738,707	1,665,079	1,711,673	1,653,315	1,827,562
Virginia	11,579,623	15,486,526	NA	17,412,519	17,495,156	17,241,804	24,379,497	25,917,935
Washington	22,834,218	23,333,431	NA	16,284,702	38,073,580	45,498,369	49,553,326	47,122,876
West Virginia	6,024,577	22,179,830	NA	10,357,006	23,867,732	35,475,338	33,580,156	19,027,684

TABLE 3. State agency expenditures for R&D, by state: FYs 2006–13
(Dollars)

State	2006	2007	2008	2009	2010	2011	2012	2013
Wisconsin	10,949,155	13,774,600	NA	24,942,415	12,435,548	21,128,936	17,861,390	21,212,446
Wyoming	6,326,604	19,500,357	NA	4,806,630	5,471,379	5,419,398	6,879,286	6,497,386
Puerto Rico[b]	1,458,790	2,326,241	NA	9,316,754	4,031,391	4,217,869	7,625,412	7,949,965

NA = not available; survey was not conducted for FY 2008.

[a] U.S. total reflects all 50 states and the District of Columbia.

[b] Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

NOTES: State R&D totals can display considerable volatility between survey years due to several national and state-specific factors. Large changes are not unusual, especially for discretionary spending items such as R&D.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development.

TABLE 4. State agency expenditures for R&D for all performers, by state and source of funds: FYs 2012–13
(Dollars)

State	All R&D expenditures		Source of funds: Federal government		Source of funds: State and all others[a]	
	2012	2013	2012	2013	2012	2013
United States[b]	1,795,159,257	1,785,039,276	433,418,386	416,091,724	1,361,740,871	1,368,947,552
Alabama	17,352,984	13,292,741	12,966,760	6,682,218	4,386,224	6,610,523
Alaska	5,467,944	6,689,384	206,004	395,154	5,261,940	6,294,230
Arizona	22,809,895	27,810,970	12,004,585	14,307,201	10,805,310	13,503,769
Arkansas	15,518,374	16,518,947	8,031,452	8,588,120	7,486,922	7,930,827
California	401,522,758	346,942,036	22,646,488	20,235,896	378,876,270	326,706,140
Colorado	14,928,809	14,471,683	5,170,087	6,017,553	9,758,722	8,454,130
Connecticut	40,017,523	41,023,368	11,904,666	13,751,916	28,112,857	27,271,452
Delaware	4,635,720	4,729,141	1,687,502	1,684,136	2,948,218	3,045,005
District of Columbia	2,018,447	1,848,800	1,712,507	1,467,091	305,940	381,709
Florida	136,706,540	118,781,266	26,701,503	25,537,040	110,005,037	93,244,226
Georgia	12,820,412	12,697,846	8,600,759	10,454,723	4,219,653	2,243,123
Hawaii	11,145,520	13,094,794	8,180,435	9,594,181	2,965,085	3,500,613
Idaho	11,785,529	12,929,174	6,959,273	7,971,555	4,826,256	4,957,619
Illinois	17,859,438	17,999,229	5,421,531	6,176,896	12,437,907	11,822,333
Indiana	7,667,988	10,167,120	6,187,545	7,252,510	1,480,443	2,914,610
Iowa	16,147,249	19,365,308	3,370,143	3,960,205	12,777,106	15,405,103
Kansas	6,160,680	5,708,223	3,356,770	2,983,235	2,803,910	2,724,988
Kentucky	19,886,257	19,751,055	6,170,250	4,316,909	13,716,007	15,434,146
Louisiana	18,143,396	15,713,110	7,295,467	7,412,982	10,847,929	8,300,128
Maine	7,094,736	6,109,793	1,167,751	1,158,805	5,926,985	4,950,988
Maryland	21,890,225	29,467,445	1,888,327	1,944,190	20,001,898	27,523,255
Massachusetts	3,918,500	4,590,424	1,328,828	1,803,176	2,589,672	2,787,248
Michigan	12,557,954	12,830,423	8,187,688	8,454,896	4,370,266	4,375,527
Minnesota	11,524,686	14,855,954	3,718,840	3,652,840	7,805,846	11,203,114
Mississippi	6,260,080	4,863,312	5,174,275	3,937,121	1,085,805	926,191
Missouri	13,041,450	13,051,110	3,702,943	3,521,812	9,338,507	9,529,298
Montana	6,841,897	6,570,018	2,907,039	3,463,568	3,934,858	3,106,450
Nebraska	6,367,304	7,274,333	1,900,163	1,973,878	4,467,141	5,300,455
Nevada	1,166,762	1,640,871	469,512	1,001,898	697,250	638,973
New Hampshire	2,241,149	1,788,396	1,302,649	1,071,409	938,500	716,987
New Jersey	17,818,258	22,413,516	3,628,894	3,989,987	14,189,364	18,423,529
New Mexico	1,793,561	2,015,961	1,434,849	1,592,483	358,712	423,478
New York	171,841,187	177,063,220	47,591,963	44,687,735	124,249,224	132,375,485
North Carolina	32,529,885	30,649,974	7,904,917	6,075,886	24,624,968	24,574,088
North Dakota	6,034,991	7,364,184	540,086	564,878	5,494,905	6,799,306
Ohio	153,382,845	188,311,926	6,415,795	10,584,324	146,967,050	177,727,602
Oklahoma	23,133,843	28,224,758	5,283,506	8,289,178	17,850,337	19,935,580
Oregon	22,003,035	23,083,506	17,582,132	16,942,402	4,420,903	6,141,104
Pennsylvania	80,600,099	66,429,400	6,442,990	6,002,259	74,157,109	60,427,141
Rhode Island	2,028,402	1,640,778	487,305	664,190	1,541,097	976,588
South Carolina	72,467,293	47,732,177	59,056,716	33,931,311	13,410,577	13,800,866
South Dakota	3,447,633	3,660,854	2,618,318	2,840,315	829,315	820,539
Tennessee	4,293,334	3,430,476	3,594,115	2,906,011	699,219	524,465
Texas	146,989,380	185,199,541	20,949,356	20,382,696	126,040,024	164,816,845
Utah	47,388,335	53,636,842	21,153,987	25,727,343	26,234,348	27,909,499
Vermont	1,653,315	1,827,562	1,121,698	1,240,063	531,617	587,499
Virginia	24,379,497	25,917,935	9,710,044	8,149,554	14,669,453	17,768,381
Washington	49,553,326	47,122,876	8,462,965	8,292,342	41,090,361	38,830,534
West Virginia	33,580,156	19,027,684	8,139,084	7,256,479	25,441,072	11,771,205

TABLE 4. State agency expenditures for R&D for all performers, by state and source of funds: FYs 2012–13
(Dollars)

			Source of funds			
	All R&D expenditures		Federal government		State and all others[a]	
State	2012	2013	2012	2013	2012	2013
Wisconsin	17,861,390	21,212,446	9,632,605	13,741,242	8,228,785	7,471,204
Wyoming	6,879,286	6,497,386	1,345,319	1,457,932	5,533,967	5,039,454
Puerto Rico[c]	7,625,412	7,949,965	4,070,151	3,931,918	3,555,261	4,018,047

[a] State and all others include companies; nonprofit organizations; other state governments; and city, county, regional, or other local governments.

[b] U.S. total reflects all 50 states and the District of Columbia.

[c] Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FYs 2012 and 2013.

TABLE 5. State agency expenditures for R&D for intramural performers, by state and source of funds: FYs 2012–13
(Dollars)

State	R&D expenditures for intramural performers		Source of funds					
			Federal government		State		Other[a]	
	2012	2013	2012	2013	2012	2013	2012	2013
United States[b]	470,517,395	464,434,423	202,913,678	185,630,088	230,233,077	238,499,696	37,370,640	40,304,639
Alabama	8,612,718	9,160,769	5,140,528	3,285,307	1,954,202	2,488,274	1,517,988	3,387,188
Alaska	5,346,296	5,963,195	1,096,722	1,681,853	4,108,526	3,635,213	141,048	646,129
Arizona	13,303,829	16,141,770	10,639,826	12,780,215	2,190,203	2,839,155	473,800	522,400
Arkansas	3,006,648	2,992,079	1,972,971	1,886,996	1,033,677	1,105,083	0	0
California	59,490,293	57,262,060	8,226,947	7,002,831	48,966,057	47,871,582	2,297,289	2,387,647
Colorado	8,170,313	8,248,707	2,698,063	2,921,271	3,978,178	3,832,593	1,494,072	1,494,843
Connecticut	24,039,989	25,612,853	9,587,310	11,344,491	13,372,420	13,545,431	1,080,259	722,931
Delaware	2,181,693	2,514,545	503,109	410,916	1,633,584	2,015,629	45,000	88,000
District of Columbia	354,612	435,813	312,687	305,613	41,925	130,200	0	0
Florida	48,910,954	47,372,831	16,143,563	14,036,238	30,371,167	30,688,479	2,396,224	2,648,114
Georgia	4,145,859	2,041,101	1,154,156	1,380,880	491,044	635,030	2,500,659	25,191
Hawaii	4,267,994	4,320,992	3,073,977	2,871,327	944,017	1,199,665	250,000	250,000
Idaho	7,179,818	7,836,031	5,382,647	6,311,134	1,069,027	1,002,653	728,144	522,244
Illinois	1,618,580	1,663,080	1,208,580	1,243,080	410,000	420,000	0	0
Indiana	870,605	1,022,370	770,605	922,370	100,000	100,000	0	0
Iowa	4,376,976	5,603,029	85,100	7,538	4,286,876	5,585,963	5,000	9,528
Kansas	1,484,948	1,577,722	797,261	911,510	687,687	666,212	0	0
Kentucky	2,893,270	2,962,965	1,785,044	1,623,275	1,108,226	1,339,690	0	0
Louisiana	4,884,739	5,081,221	3,073,978	3,058,920	1,806,238	2,021,748	4,523	553
Maine	1,071,798	1,154,177	578,293	688,790	483,505	455,387	10,000	10,000
Maryland	513,661	572,247	255,161	293,747	258,500	278,500	0	0
Massachusetts	917,177	1,083,202	222,525	183,225	608,251	859,078	86,401	40,899
Michigan	2,277,811	2,651,063	377,940	596,704	1,882,202	2,045,749	17,669	8,610
Minnesota	1,471,472	1,007,122	685,200	544,000	333,873	402,972	452,399	60,150
Mississippi	1,890,566	2,094,537	1,338,116	1,478,543	552,450	615,994	0	0
Missouri	7,274,626	6,696,607	536,210	370,451	6,738,416	6,326,156	0	0
Montana	1,669,440	2,035,229	1,276,389	1,497,221	291,451	433,955	101,600	104,053
Nebraska	303,472	368,009	0	0	153,383	189,623	150,089	178,386
Nevada	376,301	366,804	272,189	278,367	104,112	88,437	0	0
New Hampshire	760,392	683,882	268,077	182,349	492,315	501,533	0	0
New Jersey	2,952,996	2,920,843	1,028,398	954,178	1,924,598	1,966,665	0	0
New Mexico	671,314	768,893	537,051	588,276	134,263	180,617	0	0
New York	76,176,309	73,922,295	40,407,043	36,789,376	31,445,790	31,993,876	4,323,476	5,139,043
North Carolina	20,437,242	20,501,169	2,383,073	2,432,718	17,922,150	17,993,075	132,019	75,376
North Dakota	530,023	429,670	53,515	66,082	476,508	363,588	0	0
Ohio	2,246,092	2,040,795	750,847	739,659	1,495,245	1,266,011	0	35,125
Oklahoma	1,057,822	1,074,816	936,422	954,088	21,400	20,728	100,000	100,000
Oregon	18,162,372	19,524,508	15,182,616	14,806,474	670,872	930,127	2,308,884	3,787,907
Pennsylvania	5,632,495	6,675,458	1,940,138	2,059,409	3,692,357	4,616,049	0	0
Rhode Island	20,000	225,050	16,000	180,040	4,000	45,010	0	0
South Carolina	49,917,998	37,004,464	39,696,933	26,054,370	9,355,856	9,831,851	865,209	1,118,243
South Dakota	60,976	114,425	46,140	58,395	14,836	56,030	0	0
Tennessee	762,313	784,848	737,788	761,509	24,525	23,339	0	0
Texas	12,375,067	11,746,259	1,458,020	2,185,854	10,903,691	9,425,713	13,356	134,692
Utah	17,654,475	17,979,931	864,475	579,931	3,890,000	4,100,000	12,900,000	13,300,000
Vermont	1,074,198	1,160,193	703,760	748,111	370,438	412,082	0	0
Virginia	8,766,523	13,046,471	3,424,350	3,374,530	5,336,629	9,607,956	5,544	63,985
Washington	12,875,297	12,820,150	5,328,219	4,616,941	5,336,236	5,646,199	2,210,842	2,557,010
West Virginia	4,965,278	4,764,417	3,011,107	2,808,333	1,591,497	1,567,046	362,674	389,038

TABLE 5. State agency expenditures for R&D for intramural performers, by state and source of funds: FYs 2012–13
(Dollars)

State	R&D expenditures for intramural performers		Source of funds					
			Federal government		State		Other[a]	
	2012	2013	2012	2013	2012	2013	2012	2013
Wisconsin	6,896,219	7,402,664	4,694,776	4,651,291	2,128,209	2,552,772	73,234	198,601
Wyoming	3,615,536	3,001,092	249,833	121,361	3,042,465	2,580,978	323,238	298,753
Puerto Rico[c]	6,360,716	6,084,344	2,341,835	3,931,918	1,323,936	1,171,367	966,629	981,059

[a] Other includes companies; nonprofit organizations; other state governments; and city, county, regional, or other local governments.

[b] U.S. total reflects all 50 states and the District of Columbia.

[c] Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

NOTE: Intramural performers include employees within the same state department or agency in support of an internal R&D project.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FYs 2012 and 2013.

TABLE 6. State agency expenditures for R&D by intramural performers, by state: FYs 2006–13
(Dollars)

State	2006	2007	2008	2009	2010	2011	2012	2013
United States[a]	278,804,902	337,554,442	NA	344,609,186	465,428,616	513,708,156	470,517,395	464,434,423
Alabama	4,339,426	5,786,160	NA	9,138,896	9,749,394	14,250,319	8,612,718	9,160,769
Alaska	5,356,472	7,541,700	NA	6,387,016	7,885,200	9,004,800	5,346,296	5,963,195
Arizona	8,576,436	6,833,220	NA	6,869,506	7,545,171	7,410,362	13,303,829	16,141,770
Arkansas	1,073,285	420,340	NA	467,767	5,406,407	6,077,854	3,006,648	2,992,079
California	35,104,016	29,987,603	NA	48,407,683	59,744,655	69,864,773	59,490,293	57,262,060
Colorado	6,594,969	7,004,927	NA	9,395,554	7,108,498	6,942,978	8,170,313	8,248,707
Connecticut	14,519,731	13,979,139	NA	12,571,612	22,561,170	23,573,706	24,039,989	25,612,853
Delaware	1,207,011	2,011,600	NA	1,021,115	1,968,736	2,049,018	2,181,693	2,514,545
District of Columbia	302,000	2,009,000	NA	0	189,691	220,886	354,612	435,813
Florida	10,013,516	9,073,670	NA	10,356,355	50,546,200	48,327,623	48,910,954	47,372,831
Georgia	861,231	60,551	NA	3,500,000	3,200,000	3,600,000	4,145,859	2,041,101
Hawaii	2,329,186	7,617,547	NA	3,268,044	3,049,593	3,667,047	4,267,994	4,320,992
Idaho	257,926	1,127,217	NA	4,397,225	4,616,645	4,430,450	7,179,818	7,836,031
Illinois	17,617,332	18,022,400	NA	1,304,428	1,948,263	2,049,697	1,618,580	1,663,080
Indiana	2,364,046	36,349,207	NA	941,982	975,000	975,000	870,605	1,022,370
Iowa	5,754,032	363,153	NA	953,909	625,480	1,260,999	4,376,976	5,603,029
Kansas	2,137,741	1,636,784	NA	1,598,127	1,448,133	1,501,433	1,484,948	1,577,722
Kentucky	3,702,849	998,840	NA	6,241,919	1,635,906	2,137,354	2,893,270	2,962,965
Louisiana	7,530,897	4,259,147	NA	5,014,571	6,523,169	7,493,894	4,884,739	5,081,221
Maine	0	330,000	NA	1,566,832	1,542,846	1,883,123	1,071,798	1,154,177
Maryland	6,086,183	16,726,066	NA	5,683,023	1,962,000	1,928,700	513,661	572,247
Massachusetts	3,623,773	922,416	NA	831,202	862,331	785,738	917,177	1,083,202
Michigan	1,527,314	1,373,780	NA	1,800,696	1,688,930	1,509,097	2,277,811	2,651,063
Minnesota	2,132,277	2,904,128	NA	1,974,655	1,507,582	1,509,585	1,471,472	1,007,122
Mississippi	1,484,612	5,728,190	NA	2,884,940	3,933,046	4,028,133	1,890,566	2,094,537
Missouri	12,171,794	9,815,796	NA	9,289,817	8,065,733	7,546,964	7,274,626	6,696,607
Montana	2,404,391	1,007,000	NA	1,304,712	1,604,601	1,694,519	1,669,440	2,035,229
Nebraska	436,000	291,000	NA	125,000	327,845	320,392	303,472	368,009
Nevada	323,042	581,534	NA	342,744	295,579	364,476	376,301	366,804
New Hampshire	424,762	167,708	NA	1,018,069	502,616	591,869	760,392	683,882
New Jersey	5,483,784	5,093,922	NA	4,278,027	3,407,529	2,980,802	2,952,996	2,920,843
New Mexico	3,000,000	576,921	NA	535,531	560,955	494,193	671,314	768,893
New York	42,047,823	31,635,352	NA	66,028,960	110,656,978	116,651,917	76,176,309	73,922,295
North Carolina	3,789,289	27,479,434	NA	31,451,251	18,843,326	19,478,718	20,437,242	20,501,169
North Dakota	762,297	500,943	NA	568,135	591,770	366,294	530,023	429,670
Ohio	1,515,058	283,131	NA	3,883,347	1,754,417	2,645,393	2,246,092	2,040,795
Oklahoma	83,333	252,516	NA	2,709,663	9,250	9,850	1,057,822	1,074,816
Oregon	3,318,194	2,851,734	NA	5,768,545	14,368,928	17,063,005	18,162,372	19,524,508
Pennsylvania	3,310,731	4,020,292	NA	2,992,367	5,052,858	5,826,832	5,632,495	6,675,458
Rhode Island	0	134,200	NA	67,000	53,547	80,000	20,000	225,050
South Carolina	15,780,585	26,968,153	NA	24,161,908	42,554,948	52,973,299	49,917,998	37,004,464
South Dakota	2,318,754	3,070,095	NA	424,407	722,906	652,055	60,976	114,425
Tennessee	704,000	595,010	NA	0	0	52,129	762,313	784,848
Texas	5,870,258	5,496,761	NA	4,763,897	2,813,346	9,823,374	12,375,067	11,746,259
Utah	964,170	1,333,630	NA	10,715,649	10,150,322	10,361,727	17,654,475	17,979,931
Vermont	848,787	847,350	NA	738,707	1,442,023	1,543,503	1,074,198	1,160,193
Virginia	5,045,794	7,577,630	NA	8,242,184	6,744,260	6,567,645	8,766,523	13,046,471
Washington	12,187,408	12,103,757	NA	8,136,939	10,916,316	11,745,788	12,875,297	12,820,150
West Virginia	1,767,688	2,414,915	NA	2,555,126	7,094,173	8,130,744	4,965,278	4,764,417

TABLE 6. State agency expenditures for R&D by intramural performers, by state: FYs 2006–13
(Dollars)

State	2006	2007	2008	2009	2010	2011	2012	2013
Wisconsin	5,534,273	4,766,000	NA	5,329,091	5,060,717	6,126,083	6,896,219	7,402,664
Wyoming	4,216,426	4,622,873	NA	2,601,053	3,609,627	3,134,016	3,615,536	3,001,092
Puerto Rico[b]	1,274,358	328,664	NA	8,352,468	2,300,000	2,500,000	6,360,716	6,084,344

NA = not available; survey not conducted for FY 2008.

[a] U.S. total reflects all 50 states and the District of Columbia.

[b] Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

NOTES: Intramural performers include employees within the same state department or agency in support of an internal R&D project. State R&D totals can display considerable volatility between survey years due to several national and state-specific factors. Large changes are not unusual, especially for discretionary spending items such as R&D.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development.

TABLE 7. State agency expenditures for basic research and basic research share of all R&D expenditures, by state: FYs 2012–13
(Dollars)

State	All R&D expenditures		Basic research expenditures		Basic research (%)	
	2012	2013	2012	2013	2012	2013
United States[a]	1,795,159,257	1,785,039,276	467,581,458	446,577,799	26.05	25.02
Alabama	17,352,984	13,292,741	4,834,052	5,109,539	27.86	38.44
Alaska	5,467,944	6,689,384	50,000	100,000	0.91	1.49
Arizona	22,809,895	27,810,970	463,846	825,743	2.03	2.97
Arkansas	15,518,374	16,518,947	12,681,325	13,462,959	81.72	81.50
California	401,522,758	346,942,036	80,577,137	77,286,423	20.07	22.28
Colorado	14,928,809	14,471,683	902,386	989,741	6.04	6.84
Connecticut	40,017,523	41,023,368	14,204,346	13,483,829	35.50	32.87
Delaware	4,635,720	4,729,141	295,992	293,799	6.39	6.21
District of Columbia	2,018,447	1,848,800	656,448	861,058	32.52	46.57
Florida	136,706,540	118,781,266	57,333,680	41,781,632	41.94	35.18
Georgia	12,820,412	12,697,846	3,889,819	1,990,884	30.34	15.68
Hawaii	11,145,520	13,094,794	3,415,798	4,414,906	30.65	33.71
Idaho	11,785,529	12,929,174	1,115,971	1,323,582	9.47	10.24
Illinois	17,859,438	17,999,229	10,483,496	9,055,146	58.70	50.31
Indiana	7,667,988	10,167,120	192,000	270,500	2.50	2.66
Iowa	16,147,249	19,365,308	4,806,336	5,414,162	29.77	27.96
Kansas	6,160,680	5,708,223	687,687	666,212	11.16	11.67
Kentucky	19,886,257	19,751,055	5,360,295	5,053,177	26.95	25.58
Louisiana	18,143,396	15,713,110	0	300,000	na	1.91
Maine	7,094,736	6,109,793	492,000	729,834	6.93	11.95
Maryland	21,890,225	29,467,445	12,925,577	14,628,899	59.05	49.64
Massachusetts	3,918,500	4,590,424	1,260,922	1,826,554	32.18	39.79
Michigan	12,557,954	12,830,423	1,599,598	1,694,222	12.74	13.20
Minnesota	11,524,686	14,855,954	916,442	891,021	7.95	6.00
Mississippi	6,260,080	4,863,312	218,740	234,356	3.49	4.82
Missouri	13,041,450	13,051,110	388,298	223,282	2.98	1.71
Montana	6,841,897	6,570,018	33,472	237,328	0.49	3.61
Nebraska	6,367,304	7,274,333	453,947	476,202	7.13	6.55
Nevada	1,166,762	1,640,871	0	0	na	na
New Hampshire	2,241,149	1,788,396	861,066	561,435	38.42	31.39
New Jersey	17,818,258	22,413,516	8,693,650	9,258,983	48.79	41.31
New Mexico	1,793,561	2,015,961	0	96,182	na	4.77
New York	171,841,187	177,063,220	62,663,043	56,121,301	36.47	31.70
North Carolina	32,529,885	30,649,974	7,445,371	7,624,774	22.89	24.88
North Dakota	6,034,991	7,364,184	843,544	699,894	13.98	9.50
Ohio	153,382,845	188,311,926	25,391,016	25,097,389	16.55	13.33
Oklahoma	23,133,843	28,224,758	9,229,051	9,941,327	39.89	35.22
Oregon	22,003,035	23,083,506	1,704,654	104,239	7.75	0.45
Pennsylvania	80,600,099	66,429,400	40,929,705	43,289,393	50.78	65.17
Rhode Island	2,028,402	1,640,778	1,331,726	956,191	65.65	58.28
South Carolina	72,467,293	47,732,177	490,838	246,955	0.68	0.52
South Dakota	3,447,633	3,660,854	0	0	na	na
Tennessee	4,293,334	3,430,476	67,866	58,348	1.58	1.70
Texas	146,989,380	185,199,541	26,039,791	40,127,758	17.72	21.67
Utah	47,388,335	53,636,842	16,440,000	16,960,000	34.69	31.62
Vermont	1,653,315	1,827,562	393,153	425,282	23.78	23.27
Virginia	24,379,497	25,917,935	6,850,673	7,037,403	28.10	27.15
Washington	49,553,326	47,122,876	5,861,547	6,769,380	11.83	14.37
West Virginia	33,580,156	19,027,684	29,859,144	15,111,386	88.92	79.42

TABLE 7. State agency expenditures for basic research and basic research share of all R&D expenditures, by state: FYs 2012–13
(Dollars)

State	All R&D expenditures		Basic research expenditures		Basic research (%)	
	2012	2013	2012	2013	2012	2013
Wisconsin	17,861,390	21,212,446	0	0	na	na
Wyoming	6,879,286	6,497,386	2,246,010	2,465,189	32.65	37.94
Puerto Rico[b]	7,625,412	7,949,965	214,111	808,580	2.81	10.17

na = not applicable; no basic research reported.

[a] U.S. total reflects all 50 states and the District of Columbia.

[b] Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FYs 2012 and 2013.

TABLE 8. State R&D expenditures, by state and function of R&D: FYs 2012–13
(Dollars)

State	All R&D expenditures		Agriculture		Energy		Environment and natural resources		Health		Transportation		Other[a]	
	2012	2013	2012	2013	2012	2013	2012	2013	2012	2013	2012	2013	2012	2013
United States[b]	1,795,159,257	1,785,039,276	96,578,888	97,316,191	230,393,936	182,880,008	357,528,082	379,645,106	689,781,239	683,932,584	252,070,334	265,514,142	168,806,778	175,751,245
Alabama	17,352,984	13,292,741	0	0	788,212	509,974	12,879,773	9,984,291	0	0	3,348,079	2,654,296	336,920	144,180
Alaska	5,467,944	6,689,384	99,934	750,856	1,438,817	1,799,951	3,702,011	3,662,664	0	0	227,182	475,913	0	0
Arizona	22,809,895	27,810,970	616,827	549,556	6,243,529	7,630,643	5,327,071	6,689,903	8,805,168	11,203,068	1,817,300	1,737,800	0	0
Arkansas	15,518,374	16,518,947	8,803,765	8,857,097	2,913,191	3,620,296	707,557	942,106	479,000	806,060	2,057,208	1,915,324	557,653	378,064
California	401,522,758	346,942,036	5,640,401	5,039,599	75,756,774	55,577,129	26,096,846	30,615,059	253,217,501	217,140,177	36,897,000	35,038,000	3,914,236	3,532,072
Colorado	14,928,809	14,471,683	0	50,000	313,762	254,860	6,957,024	6,576,449	5,131,657	4,261,796	1,623,980	2,338,837	902,386	989,741
Connecticut	40,017,523	41,023,368	3,256,124	3,314,695	571,414	588,724	12,661,538	13,780,616	19,510,447	19,239,333	4,018,000	4,100,000	0	0
Delaware	4,635,720	4,729,141	0	0	0	0	2,231,693	2,754,545	0	0	2,404,027	1,974,596	0	0
District of Columbia	2,018,447	1,848,800	0	0	0	0	0	0	656,448	861,058	1,361,999	987,742	0	0
Florida	136,706,540	118,781,266	19,671,322	19,046,571	8,476,266	990,320	48,709,314	47,462,678	47,079,479	38,775,780	11,836,984	10,300,582	933,175	2,205,335
Georgia	12,820,412	12,697,846	0	0	800,000	0	2,607,843	3,999,505	0	0	9,012,569	8,698,341	400,000	0
Hawaii	11,145,520	13,094,794	1,516,064	1,516,064	4,024,303	5,674,072	4,533,302	4,484,602	190,000	190,000	881,851	1,230,056	0	0
Idaho	11,785,529	12,929,174	2,344,664	2,940,842	0	0	8,072,165	8,059,032	0	0	1,368,700	1,929,300	0	0
Illinois	17,859,438	17,999,229	0	0	21,110	225,000	0	0	4,383,094	3,550,718	7,354,832	8,719,083	6,100,402	5,504,428
Indiana	7,667,988	10,167,120	177,000	268,000	0	383,432	15,000	2,500	135,000	708,497	6,927,051	8,444,691	413,937	360,000
Iowa	16,147,249	19,365,308	0	0	5,207,302	6,340,014	3,278,552	3,517,000	0	0	7,638,920	9,485,810	22,475	22,484
Kansas	6,160,680	5,708,223	1,013,350	984,198	0	0	0	0	0	0	5,147,330	4,724,025	0	0
Kentucky	19,886,257	19,751,055	478,313	312,518	4,809,927	5,976,089	5,902,607	6,074,737	4,695,084	4,793,049	3,324,600	1,964,500	675,726	630,162
Louisiana	18,143,396	15,713,110	0	0	0	0	10,305,857	8,174,868	0	0	6,975,472	6,965,116	862,067	573,126
Maine	7,094,736	6,109,793	933,637	373,257	821,675	480,594	1,615,411	1,434,954	414,740	1,115,608	354,463	521,444	2,954,810	2,183,936
Maryland	21,890,225	29,467,445	300,000	384,771	300,000	300,000	963,777	947,472	17,851,235	24,603,993	1,928,111	1,778,080	547,102	1,453,129
Massachusetts	3,918,500	4,590,424	0	0	0	0	928,129	1,031,320	2,990,371	3,559,104	0	0	0	0
Michigan	12,557,954	12,830,423	493,895	548,396	0	0	3,164,059	4,582,027	0	0	8,900,000	7,700,000	0	0
Minnesota	11,524,686	14,855,954	1,721,463	1,981,417	1,702,500	122,084	673,544	1,662,951	0	0	7,427,179	11,089,502	0	0
Mississippi	6,260,080	4,863,312	0	0	0	0	1,458,268	1,562,376	0	0	4,801,812	3,300,936	0	0
Missouri	13,041,450	13,051,110	349,210	381,475	0	0	9,502,232	9,297,498	0	0	3,190,008	3,372,137	0	0
Montana	6,841,897	6,570,018	2,105,602	1,975,948	187,163	1,200	2,920,932	2,479,271	202,778	39,483	1,418,422	2,061,516	7,000	12,600
Nebraska	6,367,304	7,274,333	1,399,997	1,748,254	196,427	236,100	1,818,917	2,040,414	256,068	245,250	1,647,512	1,721,453	1,048,383	1,282,862
Nevada	1,166,762	1,640,871	0	0	0	0	46,905	45,408	0	0	1,119,857	1,595,463	0	0
New Hampshire	2,241,149	1,788,396	477,066	438,435	0	0	0	0	0	0	1,380,083	1,226,961	384,000	123,000
New Jersey	17,818,258	22,413,516	0	0	437,685	0	2,837,940	3,192,669	11,299,300	15,235,551	3,243,333	3,985,296	0	0
New Mexico	1,793,561	2,015,961	0	0	0	57,083	312,918	502,068	0	0	941,856	1,249,365	538,787	207,445
New York	171,841,187	177,063,220	1,748,998	1,383,413	41,789,076	27,061,407	25,121,628	23,232,954	67,134,590	65,676,902	6,071,256	12,838,391	29,975,639	46,870,153
North Carolina	32,529,885	30,649,974	17,944,847	17,947,847	0	0	3,011,692	3,136,983	0	0	8,884,000	6,548,000	2,689,346	3,017,144
North Dakota	6,034,991	7,364,184	2,521,725	2,475,547	2,778,935	3,931,762	0	0	0	0	569,931	584,875	164,400	372,000
Ohio	153,382,845	188,311,926	0	0	62,348,681	52,267,399	15,477,600	38,073,964	12,112,168	9,039,545	20,745,056	22,035,664	42,699,340	66,895,354
Oklahoma	23,133,843	28,224,758	1,862,336	2,500,477	330,000	323,800	2,248,062	4,765,208	12,107,346	14,185,074	2,497,372	4,030,997	4,088,727	2,419,202

TABLE 8. State R&D expenditures, by state and function of R&D: FYs 2012–13
(Dollars)

State	All R&D expenditures		Agriculture		Energy		Environment and natural resources		Health		Transportation		Other[a]	
	2012	2013	2012	2013	2012	2013	2012	2013	2012	2013	2012	2013	2012	2013
Oregon	22,003,035	23,083,506	218,038	290,595	0	0	19,780,040	20,153,209	0	0	2,004,957	2,639,702	0	0
Pennsylvania	80,600,099	66,429,400	1,512,706	2,033,013	2,070,343	1,699,984	8,058,329	9,069,833	56,902,179	44,055,514	4,034,828	3,842,683	8,021,714	5,728,373
Rhode Island	2,028,402	1,640,778	166,820	40,000	0	0	927,489	1,059,308	400,000	0	334,093	541,470	200,000	0
South Carolina	72,467,293	47,732,177	62,024	157,702	484,124	251,410	46,038,125	36,316,203	1,444,209	1,176,021	1,967,442	1,942,501	22,471,369	7,888,340
South Dakota	3,447,633	3,660,854	75,000	75,000	0	0	1,894,989	1,774,517	0	0	1,477,644	1,811,337	0	0
Tennessee	4,293,334	3,430,476	0	0	6,553	0	856,000	866,500	0	0	3,369,468	2,505,628	61,313	58,348
Texas	146,989,380	185,199,541	2,758,683	2,650,989	374,013	447,132	5,492,140	6,428,787	115,648,847	155,001,396	22,715,697	20,671,237	0	0
Utah	47,388,335	53,636,842	4,508,902	3,989,111	4,125,214	4,558,744	17,978,580	18,312,681	18,745,639	24,346,306	2,030,000	2,430,000	0	0
Vermont	1,653,315	1,827,562	503,308	538,173	167,769	179,391	115,469	102,379	160,853	170,780	705,916	836,839	0	0
Virginia	24,379,497	25,917,935	1,633,434	1,631,509	170,000	900,000	4,874,529	5,109,773	3,509,000	1,806,000	9,974,446	14,128,627	4,218,088	2,342,026
Washington	49,553,326	47,122,876	8,098,988	8,954,794	0	0	10,712,941	10,953,130	22,801,588	19,586,521	4,893,607	4,257,879	3,046,202	3,370,552
West Virginia	33,580,156	19,027,684	206,137	93,033	102,719	159,332	1,501,719	1,611,130	0	0	2,518,000	2,729,000	29,251,581	14,435,189
Wisconsin	17,861,390	21,212,446	864,399	640,941	250,000	150,000	9,081,222	8,894,211	1,517,450	2,560,000	4,828,319	6,215,294	1,320,000	2,752,000
Wyoming	6,879,286	6,497,386	493,909	452,098	386,452	182,082	4,126,343	4,225,353	0	0	1,872,582	1,637,853	0	0
Puerto Rico[c]	7,625,412	7,949,965	507,174	649,048	106,470	220,000	201,685	244,845	6,259,429	5,695,724	200,000	200,000	350,654	940,348

[a] Other functions include, but are not limited to, corrections, criminal justice, education, forensic science, labor, public safety, and social services.

[b] U.S. total reflects all 50 states and the District of Columbia.

[c] Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FYs 2012 and 2013.

TABLE 9. State agency expenditures for agriculture-related R&D, by state: FYs 2009–13
(Dollars)

State	2009	2010	2011	2012	2013
United States[a]	66,468,692	75,090,255	77,332,829	96,578,888	97,316,191
Alabama	0	0	0	0	0
Alaska	15,000	687,500	713,500	99,934	750,856
Arizona	220,751	142,816	732,254	616,827	549,556
Arkansas	6,755,483	6,643,460	7,945,440	8,803,765	8,857,097
California	6,235,149	3,091,420	4,057,537	5,640,401	5,039,599
Colorado	416,336	826,517	583,117	0	50,000
Connecticut	1,237,590	3,259,642	3,326,548	3,256,124	3,314,695
Delaware	0	0	0	0	0
District of Columbia	0	0	0	0	0
Florida	19,410,440	16,952,501	15,991,126	19,671,322	19,046,571
Georgia	0	0	0	0	0
Hawaii	233,394	505,967	914,799	1,516,064	1,516,064
Idaho	1,352,291	1,529,838	1,720,839	2,344,664	2,940,842
Illinois	18,096	0	0	0	0
Indiana	0	0	0	177,000	268,000
Iowa	0	0	0	0	0
Kansas	784,957	1,104,311	1,167,853	1,013,350	984,198
Kentucky	0	0	45,130	478,313	312,518
Louisiana	0	0	0	0	0
Maine	501,243	1,152,303	987,050	933,637	373,257
Maryland	336,650	228,000	451,700	300,000	384,771
Massachusetts	0	0	0	0	0
Michigan	206,282	36,910	82,793	493,895	548,396
Minnesota	987,608	1,301,382	1,387,590	1,721,463	1,981,417
Mississippi	0	0	0	0	0
Missouri	168,096	189,947	85,115	349,210	381,475
Montana	1,199,654	1,850,656	1,493,635	2,105,602	1,975,948
Nebraska	1,276,949	927,985	977,548	1,399,997	1,748,254
Nevada	0	0	0	0	0
New Hampshire	38,005	219,170	113,969	477,066	438,435
New Jersey	0	0	0	0	0
New Mexico	0	0	0	0	0
New York	1,869,720	2,117,582	1,779,089	1,748,998	1,383,413
North Carolina	10,568,425	12,625,716	12,878,500	17,944,847	17,947,847
North Dakota	935,619	1,444,526	2,014,848	2,521,725	2,475,547
Ohio	0	0	0	0	0
Oklahoma	1,610,660	1,295,705	1,608,677	1,862,336	2,500,477
Oregon	134,857	489,631	532,446	218,038	290,595
Pennsylvania	852,734	755,736	640,671	1,512,706	2,033,013
Rhode Island	0	0	0	166,820	40,000
South Carolina	421,699	0	92,305	62,024	157,702
South Dakota	50,000	25,000	0	75,000	75,000
Tennessee	0	0	0	0	0
Texas	1,972,975	3,618,361	2,877,596	2,758,683	2,650,989
Utah	1,000,000	3,589	113,336	4,508,902	3,989,111
Vermont	0	490,900	652,700	503,308	538,173
Virginia	806,328	2,285,378	2,213,361	1,633,434	1,631,509
Washington	4,587,406	8,340,489	8,317,099	8,098,988	8,954,794
West Virginia	0	0	151,428	206,137	93,033

TABLE 9. State agency expenditures for agriculture-related R&D, by state: FYs 2009–13
(Dollars)

State	2009	2010	2011	2012	2013
Wisconsin	0	770,721	536,004	864,399	640,941
Wyoming	264,295	176,596	147,226	493,909	452,098
Puerto Rico[b]	649,048	0	0	507,174	649,048

[a] U.S. total reflects all 50 states and the District of Columbia.

[b] Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

NOTES: State R&D expenditures by function were surveyed beginning with the FY 2009 survey. State R&D totals can display considerable volatility between survey years due to several national and state-specific factors. Large changes are not unusual, especially for discretionary spending items such as R&D.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development.

TABLE 10. State agency expenditures for energy-related R&D, by state: FYs 2009–13
(Dollars)

State	2009[a]	2010	2011	2012	2013
United States[b]	NA	217,259,403	257,199,639	230,393,936	182,880,008
Alabama	NA	988,806	1,279,672	788,212	509,974
Alaska	NA	1,359,100	1,301,000	1,438,817	1,799,951
Arizona	NA	267,174	1,702,776	6,243,529	7,630,643
Arkansas	NA	1,736,657	3,156,213	2,913,191	3,620,296
California	NA	105,072,000	95,975,000	75,756,774	55,577,129
Colorado	NA	1,464,536	409,252	313,762	254,860
Connecticut	NA	358,778	553,640	571,414	588,724
Delaware	NA	0	0	0	0
District of Columbia	NA	0	0	0	0
Florida	NA	3,571,447	4,158,768	8,476,266	990,320
Georgia	NA	1,000,000	1,200,000	800,000	0
Hawaii	NA	5,825,028	6,020,023	4,024,303	5,674,072
Idaho	NA	0	0	0	0
Illinois	NA	190,000	0	21,110	225,000
Indiana	NA	0	0	0	383,432
Iowa	NA	0	26,590,826	5,207,302	6,340,014
Kansas	NA	0	0	0	0
Kentucky	NA	4,256,458	3,372,112	4,809,927	5,976,089
Louisiana	NA	0	0	0	0
Maine	NA	5,000	5,000	821,675	480,594
Maryland	NA	40,000	25,000	300,000	300,000
Massachusetts	NA	0	0	0	0
Michigan	NA	0	0	0	0
Minnesota	NA	1,243,965	249,201	1,702,500	122,084
Mississippi	NA	1,550,000	1,250,000	0	0
Missouri	NA	0	0	0	0
Montana	NA	835,942	405,260	187,163	1,200
Nebraska	NA	5,000	10,000	196,427	236,100
Nevada	NA	0	0	0	0
New Hampshire	NA	0	0	0	0
New Jersey	NA	500,000	0	437,685	0
New Mexico	NA	0	0	0	57,083
New York	NA	29,744,916	45,608,891	41,789,076	27,061,407
North Carolina	NA	100,000	105,000	0	0
North Dakota	NA	4,153,800	5,200,850	2,778,935	3,931,762
Ohio	NA	41,236,142	47,150,392	62,348,681	52,267,399
Oklahoma	NA	387,401	149,201	330,000	323,800
Oregon	NA	175,000	50,000	0	0
Pennsylvania	NA	0	0	2,070,343	1,699,984
Rhode Island	NA	0	0	0	0
South Carolina	NA	863,890	871,078	484,124	251,410
South Dakota	NA	0	0	0	0
Tennessee	NA	0	35,764	6,553	0
Texas	NA	0	0	374,013	447,132
Utah	NA	7,375,546	7,209,348	4,125,214	4,558,744
Vermont	NA	300,000	300,000	167,769	179,391
Virginia	NA	157,000	118,000	170,000	900,000
Washington	NA	0	0	0	0
West Virginia	NA	2,495,817	2,737,372	102,719	159,332

TABLE 10. State agency expenditures for energy-related R&D, by state: FYs 2009–13
(Dollars)

State	2009[a]	2010	2011	2012	2013
Wisconsin	NA	0	0	250,000	150,000
Wyoming	NA	0	0	386,452	182,082
Puerto Rico[c]	NA	100,000	100,000	106,470	220,000

NA = not available; not collected as a separate R&D function for FY 2009.

[a] Energy category was introduced with the FY 2010 and FY 2011 Survey of State Government Research and Development. Previously, energy-related R&D was reported primarily in the Other and Environment and natural resources categories.

[b] U.S. total reflects all 50 states and the District of Columbia.

[c] Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

NOTES: Energy category was introduced with the FY 2010 and FY 2011 Survey of State Government Research and Development. Previously, energy-related R&D was reported primarily in the Other and Environment and natural resources categories. State R&D expenditures by function were surveyed beginning with the FY 2009 survey. State R&D totals can display considerable volatility between survey years due to several national and state-specific factors. Large changes are not unusual, especially for discretionary spending items such as R&D.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development.

TABLE 11. State agency expenditures for environment and natural resources–related R&D, by state: FYs 2009–13
(Dollars)

State	2009[a]	2010	2011	2012	2013
United States[b]	328,102,718	355,803,823	380,376,738	357,528,082	379,645,106
Alabama	7,694,078	8,922,103	13,521,133	12,879,773	9,984,291
Alaska	6,449,300	5,833,600	6,767,900	3,702,011	3,662,664
Arizona	6,356,155	6,023,906	5,743,162	5,327,071	6,689,903
Arkansas	345,832	658,590	680,971	707,557	942,106
California	48,172,325	30,914,302	43,443,294	26,096,846	30,615,059
Colorado	8,317,796	7,142,396	7,185,567	6,957,024	6,576,449
Connecticut	5,814,050	13,081,012	12,517,073	12,661,538	13,780,616
Delaware	1,433,562	2,139,720	2,359,902	2,231,693	2,754,545
District of Columbia	0	0	0	0	0
Florida	17,934,886	50,262,488	47,437,237	48,709,314	47,462,678
Georgia	0	0	0	2,607,843	3,999,505
Hawaii	4,497,068	5,229,835	5,607,794	4,533,302	4,484,602
Idaho	5,881,390	6,123,012	6,064,901	8,072,165	8,059,032
Illinois	56,800	0	0	0	0
Indiana	1,821,645	1,700,000	1,700,000	15,000	2,500
Iowa	0	7,074,696	3,640,397	3,278,552	3,517,000
Kansas	365,000	365,000	465,000	0	0
Kentucky	2,874,829	2,005,156	2,137,523	5,902,607	6,074,737
Louisiana	1,567,596	2,522,697	8,005,483	10,305,857	8,174,868
Maine	1,969,352	2,527,524	3,728,729	1,615,411	1,434,954
Maryland	6,853,050	390,000	616,000	963,777	947,472
Massachusetts	1,082,161	1,116,916	842,629	928,129	1,031,320
Michigan	2,320,826	4,792,530	4,595,080	3,164,059	4,582,027
Minnesota	1,566,712	1,813,748	794,167	673,544	1,662,951
Mississippi	2,105,823	3,634,374	3,295,081	1,458,268	1,562,376
Missouri	10,133,435	9,482,088	8,530,764	9,502,232	9,297,498
Montana	1,871,061	2,185,884	2,343,724	2,920,932	2,479,271
Nebraska	2,048,838	2,214,924	1,902,385	1,818,917	2,040,414
Nevada	0	32,942	47,582	46,905	45,408
New Hampshire	155,000	100,000	111,000	0	0
New Jersey	2,974,000	4,305,318	1,988,395	2,837,940	3,192,669
New Mexico	0	0	0	312,918	502,068
New York	36,911,399	29,002,576	19,416,212	25,121,628	23,232,954
North Carolina	20,919,615	5,076,664	6,817,285	3,011,692	3,136,983
North Dakota	587,710	22,500	15,000	0	0
Ohio	6,306,109	38,137,758	38,596,214	15,477,600	38,073,964
Oklahoma	2,552,285	1,631,015	2,505,761	2,248,062	4,765,208
Oregon	8,279,562	14,867,136	16,924,664	19,780,040	20,153,209
Pennsylvania	9,395,553	7,891,207	7,749,253	8,058,329	9,069,833
Rhode Island	446,347	401,045	590,282	927,489	1,059,308
South Carolina	25,183,342	34,711,576	45,163,028	46,038,125	36,316,203
South Dakota	2,311,292	1,638,739	1,628,888	1,894,989	1,774,517
Tennessee	0	0	320,000	856,000	866,500
Texas	24,750,247	6,351,022	4,805,152	5,492,140	6,428,787
Utah	6,149,899	6,329,203	7,943,186	17,978,580	18,312,681
Vermont	0	75,000	75,000	115,469	102,379
Virginia	4,005,964	3,147,713	3,829,525	4,874,529	5,109,773
Washington	6,993,436	10,782,537	11,087,560	10,712,941	10,953,130
West Virginia	1,804,769	1,818,077	1,873,514	1,501,719	1,611,130

TABLE 11. State agency expenditures for environment and natural resources–related R&D, by state: FYs 2009–13
(Dollars)

State	2009[a]	2010	2011	2012	2013
Wisconsin	15,201,270	6,717,528	10,197,725	9,081,222	8,894,211
Wyoming	3,641,349	4,607,766	4,765,616	4,126,343	4,225,353
Puerto Rico[c]	136,021	100,000	100,000	201,685	244,845

[a] Energy category was introduced with the FY 2010 and FY 2011 Survey of State Government Research and Development. Previously, energy-related R&D was reported primarily in the Other and Environment and natural resources categories.

[b] U.S. total reflects all 50 states and the District of Columbia.

[c] Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

NOTES: State R&D expenditures by function were surveyed beginning with the FY 2009 survey. State R&D totals can display considerable volatility between survey years due to several national and state-specific factors. Large changes are not unusual, especially for discretionary spending items such as R&D.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development.

TABLE 12. State agency expenditures for health-related R&D, by state: FYs 2009–13
(Dollars)

State	2009	2010	2011	2012	2013
United States[a]	417,323,476	469,111,578	565,578,680	689,781,239	683,932,584
Alabama	0	0	0	0	0
Alaska	0	0	0	0	0
Arizona	27,750	8,330,000	8,330,000	8,805,168	11,203,068
Arkansas	0	0	0	479,000	806,060
California	126,845,475	148,970,628	225,037,368	253,217,501	217,140,177
Colorado	4,029,968	8,527,268	6,759,774	5,131,657	4,261,796
Connecticut	17,730,124	19,337,597	18,783,202	19,510,447	19,239,333
Delaware	0	0	0	0	0
District of Columbia	487,411	503,267	956,728	656,448	861,058
Florida	18,478,377	39,962,706	65,570,757	47,079,479	38,775,780
Georgia	0	0	0	0	0
Hawaii	0	0	0	190,000	190,000
Idaho	0	0	0	0	0
Illinois	4,107,400	2,596,733	680,013	4,383,094	3,550,718
Indiana	20,304,740	0	0	135,000	708,497
Iowa	0	0	0	0	0
Kansas	1,040,411	0	0	0	0
Kentucky	3,150,948	7,371,306	7,136,813	4,695,084	4,793,049
Louisiana	0	0	0	0	0
Maine	1,187,173	349,014	1,082,201	414,740	1,115,608
Maryland	8,801,328	17,699,478	13,611,823	17,851,235	24,603,993
Massachusetts	2,208,037	2,130,489	2,045,865	2,990,371	3,559,104
Michigan	0	0	0	0	0
Minnesota	0	0	0	0	0
Mississippi	0	0	0	0	0
Missouri	0	0	0	0	0
Montana	822,627	822,299	848,774	202,778	39,483
Nebraska	35,043	97,864	48,482	256,068	245,250
Nevada	0	0	0	0	0
New Hampshire	0	0	0	0	0
New Jersey	7,709,498	15,814,169	9,537,742	11,299,300	15,235,551
New Mexico	0	0	0	0	0
New York	68,678,393	71,023,824	70,939,954	67,134,590	65,676,902
North Carolina	0	50,000	50,000	0	0
North Dakota	100,000	0	0	0	0
Ohio	41,320,535	19,731,000	13,231,000	12,112,168	9,039,545
Oklahoma	5,796,835	5,049,251	5,478,209	12,107,346	14,185,074
Oregon	0	0	0	0	0
Pennsylvania	66,341,905	70,998,595	59,182,594	56,902,179	44,055,514
Rhode Island	984,944	776,356	912,363	400,000	0
South Carolina	0	1,151,294	1,794,228	1,444,209	1,176,021
South Dakota	0	0	0	0	0
Tennessee	0	0	0	0	0
Texas	123,000	123,000	15,838,498	115,648,847	155,001,396
Utah	10,409,824	12,853,867	14,602,894	18,745,639	24,346,306
Vermont	0	132,198	190,117	160,853	170,780
Virginia	810,000	611,496	682,506	3,509,000	1,806,000
Washington	2,418,730	13,547,879	20,997,880	22,801,588	19,586,521
West Virginia	0	0	0	0	0

TABLE 12. State agency expenditures for health-related R&D, by state: FYs 2009–13
(Dollars)

State	2009	2010	2011	2012	2013
Wisconsin	3,373,000	550,000	1,248,895	1,517,450	2,560,000
Wyoming	0	0	0	0	0
Puerto Rico[b]	6,599,988	3,050,000	3,250,000	6,259,429	5,695,724

[a] U.S. total reflects all 50 states and the District of Columbia.

[b] Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

NOTES: State R&D expenditures by function were surveyed beginning with the FY 2009 survey. State R&D totals can display considerable volatility between survey years due to several national and state-specific factors. Large changes are not unusual, especially for discretionary spending items such as R&D.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development.

TABLE 13. State agency expenditures for transportation-related R&D, by state: FYs 2009–13
(Dollars)

State	2009	2010	2011	2012	2013
United States[a]	242,284,805	247,322,194	265,500,923	252,070,334	265,514,142
Alabama	3,485,318	4,730,116	4,407,856	3,348,079	2,654,296
Alaska	1,277,167	1,394,600	2,567,000	227,182	475,913
Arizona	2,624,700	2,175,550	1,756,700	1,817,300	1,737,800
Arkansas	881,000	1,064,332	927,990	2,057,208	1,915,324
California	40,057,000	38,136,000	37,445,000	36,897,000	35,038,000
Colorado	1,424,481	1,930,506	2,270,155	1,623,980	2,338,837
Connecticut	3,777,288	4,028,757	4,011,628	4,018,000	4,100,000
Delaware	250,000	250,000	250,000	2,404,027	1,974,596
District of Columbia	0	192,931	264,380	1,361,999	987,742
Florida	9,830,053	9,804,294	15,645,022	11,836,984	10,300,582
Georgia	4,162,887	7,723,795	10,290,663	9,012,569	8,698,341
Hawaii	2,339,180	2,672,356	561,367	881,851	1,230,056
Idaho	1,318,377	1,406,718	1,580,312	1,368,700	1,929,300
Illinois	5,369,057	7,066,133	9,287,308	7,354,832	8,719,083
Indiana	4,000,000	5,616,545	4,074,838	6,927,051	8,444,691
Iowa	6,463,700	5,770,000	6,050,000	7,638,920	9,485,810
Kansas	7,416,636	5,039,914	5,002,773	5,147,330	4,724,025
Kentucky	4,228,240	4,042,181	4,425,113	3,324,600	1,964,500
Louisiana	6,717,882	6,642,447	6,396,052	6,975,472	6,965,116
Maine	563,379	709,306	505,860	354,463	521,444
Maryland	2,209,280	3,167,924	4,080,017	1,928,111	1,778,080
Massachusetts	0	1,637,025	1,504,260	0	0
Michigan	6,103,101	4,640,000	5,125,000	8,900,000	7,700,000
Minnesota	13,908,648	7,853,451	9,222,369	7,427,179	11,089,502
Mississippi	1,518,130	1,883,735	2,463,770	4,801,812	3,300,936
Missouri	5,495,716	3,657,806	5,043,082	3,190,008	3,372,137
Montana	876,558	917,662	1,168,956	1,418,422	2,061,516
Nebraska	1,014,814	986,918	1,123,236	1,647,512	1,721,453
Nevada	1,510,607	1,048,465	1,393,048	1,119,857	1,595,463
New Hampshire	1,167,264	1,009,986	1,196,452	1,380,083	1,226,961
New Jersey	4,153,340	6,570,052	5,542,644	3,243,333	3,985,296
New Mexico	1,655,529	1,422,955	1,821,583	941,856	1,249,365
New York	12,445,993	13,024,897	12,191,046	6,071,256	12,838,391
North Carolina	9,000,000	9,225,000	9,500,000	8,884,000	6,548,000
North Dakota	963,611	598,349	578,559	569,931	584,875
Ohio	10,308,223	13,111,393	17,281,878	20,745,056	22,035,664
Oklahoma	3,818,308	3,845,728	4,101,968	2,497,372	4,030,997
Oregon	2,705,721	2,481,963	2,494,162	2,004,957	2,639,702
Pennsylvania	5,815,684	2,979,258	3,919,294	4,034,828	3,842,683
Rhode Island	446,433	283,838	445,082	334,093	541,470
South Carolina	2,476,225	1,384,632	1,581,676	1,967,442	1,942,501
South Dakota	2,069,310	2,098,898	2,000,267	1,477,644	1,811,337
Tennessee	3,752,587	1,064,262	3,286,726	3,369,468	2,505,628
Texas	22,535,124	25,071,272	23,851,121	22,715,697	20,671,237
Utah	800,000	2,600,000	2,600,000	2,030,000	2,430,000
Vermont	738,707	666,981	493,856	705,916	836,839
Virginia	9,443,286	8,931,272	8,469,431	9,974,446	14,128,627
Washington	2,285,130	5,402,675	5,095,830	4,893,607	4,257,879
West Virginia	950,000	5,100,000	5,583,425	2,518,000	2,729,000

TABLE 13. State agency expenditures for transportation-related R&D, by state: FYs 2009–13
(Dollars)

State	2009	2010	2011	2012	2013
Wisconsin	5,030,145	3,572,299	4,115,612	4,828,319	6,215,294
Wyoming	900,986	687,017	506,556	1,872,582	1,637,853
Puerto Rico[b]	200,000	180,000	180,000	200,000	200,000

[a] U.S. total reflects all 50 states and the District of Columbia.

[b] Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

NOTES: State R&D expenditures by function were surveyed beginning with the FY 2009 survey. State R&D totals can display considerable volatility between survey years due to several national and state-specific factors. Large changes are not unusual, especially for discretionary spending items such as R&D.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development.

TABLE 14. State agency R&D expenditures for other functions not separately identified, by state: FYs 2009–13
(Dollars)

State	2009[a]	2010	2011	2012	2013
United States[b]	319,894,437	142,498,706	194,003,452	168,806,778	175,751,245
Alabama	1,749,771	472,892	475,402	336,920	144,180
Alaska	0	0	0	0	0
Arizona	134,587	742,869	361,685	0	0
Arkansas	3,482,899	4,343,045	1,994,713	557,653	378,064
California	78,620,000	2,798,033	1,657,802	3,914,236	3,532,072
Colorado	661,000	937,051	934,066	902,386	989,741
Connecticut	0	0	0	0	0
Delaware	0	0	0	0	0
District of Columbia	0	0	0	0	0
Florida	860,000	295,290	1,961,528	933,175	2,205,335
Georgia	2,500,000	200,000	200,000	400,000	0
Hawaii	6,906,722	0	0	0	0
Idaho	0	0	0	0	0
Illinois	19,540	6,700,823	7,239,804	6,100,402	5,504,428
Indiana	21,423,543	1,128,287	1,208,526	413,937	360,000
Iowa	31,512,943	105,480	710,999	22,475	22,484
Kansas	2,698,381	0	0	0	0
Kentucky	3,684,117	2,734,995	3,382,158	675,726	630,162
Louisiana	0	0	577,544	862,067	573,126
Maine	2,178,872	4,104,324	3,609,925	2,954,810	2,183,936
Maryland	2,893,023	1,300,000	1,300,000	547,102	1,453,129
Massachusetts	0	0	486,173	0	0
Michigan	0	0	0	0	0
Minnesota	192,945	0	0	0	0
Mississippi	0	100,000	412,000	0	0
Missouri	0	0	0	0	0
Montana	2,430,542	931,417	213,841	7,000	12,600
Nebraska	40,000	0	0	1,048,383	1,282,862
Nevada	0	0	0	0	0
New Hampshire	500,000	475,000	500,000	384,000	123,000
New Jersey	310,000	750,000	0	0	0
New Mexico	0	0	0	538,787	207,445
New York	43,358,014	34,300,000	43,500,000	29,975,639	46,870,153
North Carolina	916,162	265,000	261,000	2,689,346	3,017,144
North Dakota	13,828,867	133,500	263,000	164,400	372,000
Ohio	63,460,096	12,904,375	43,062,744	42,699,340	66,895,354
Oklahoma	2,152,790	9,017,136	6,460,924	4,088,727	2,419,202
Oregon	0	0	0	0	0
Pennsylvania	13,490,838	5,289,000	4,000,000	8,021,714	5,728,373
Rhode Island	0	0	0	200,000	0
South Carolina	518,619	33,179,054	35,190,338	22,471,369	7,888,340
South Dakota	0	0	0	0	0
Tennessee	0	0	0	61,313	58,348
Texas	0	0	0	0	0
Utah	8,082,988	1,650,000	1,950,000	0	0
Vermont	0	0	0	0	0
Virginia	2,346,941	2,362,297	1,928,981	4,218,088	2,342,026
Washington	0	0	0	3,046,202	3,370,552
West Virginia	7,602,237	14,453,838	25,129,599	29,251,581	14,435,189

TABLE 14. State agency R&D expenditures for other functions not separately identified, by state: FYs 2009–13
(Dollars)

State	2009[a]	2010	2011	2012	2013
Wisconsin	1,338,000	825,000	5,030,700	1,320,000	2,752,000
Wyoming	0	0	0	0	0
Puerto Rico[c]	1,731,697	601,391	587,869	350,654	940,348

[a] Energy category was introduced with the FY 2010 and FY 2011 Survey of State Government Research and Development. Previously, energy-related R&D was reported primarily in the Other and Environment and natural resources categories.

[b] U.S. total reflects all 50 states and the District of Columbia.

[c] Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

NOTES: State R&D expenditures by function were surveyed beginning with the FY 2009 survey. State R&D totals can display considerable volatility between survey years due to several national and state-specific factors. Large changes are not unusual, especially for discretionary spending items such as R&D. Other R&D functions include, but are not limited to, corrections, criminal justice, education, forensic science, labor, public safety, and social services.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development.

TABLE 15. State agency expenditures for R&D funded from federal sources, by state: FYs 2006–13
(Dollars)

State	2006	2007	2008	2009	2010	2011	2012	2013
United States[a]	255,400,683	279,267,900	NA	308,075,114	412,643,204	443,176,608	433,418,386	416,091,724
Alabama	3,636,117	4,968,557	NA	8,118,750	11,332,512	12,632,066	12,966,760	6,682,218
Alaska	5,647,941	4,945,800	NA	2,956,434	2,766,100	4,548,900	206,004	395,154
Arizona	5,659,756	5,436,201	NA	6,302,846	7,013,167	8,138,077	12,004,585	14,307,201
Arkansas	2,066,318	1,224,152	NA	3,578,975	2,473,992	4,465,149	8,031,452	8,588,120
California	27,867,854	13,491,703	NA	21,031,780	23,698,863	21,016,057	22,646,488	20,235,896
Colorado	4,044,780	4,684,285	NA	4,612,094	6,363,519	5,930,771	5,170,087	6,017,553
Connecticut	6,735,926	6,906,959	NA	6,507,528	11,067,425	11,158,166	11,904,666	13,751,916
Delaware	277,211	844,200	NA	566,184	796,963	847,732	1,687,502	1,684,136
District of Columbia	938,460	1,621,000	NA	487,411	657,612	1,168,232	1,712,507	1,467,091
Florida	9,887,481	9,439,483	NA	13,605,050	27,629,492	26,588,661	26,701,503	25,537,040
Georgia	5,545,780	2,763,180	NA	2,918,071	5,018,230	6,919,140	8,600,759	10,454,723
Hawaii	8,578,749	17,593,176	NA	10,716,399	11,483,268	10,343,631	8,180,435	9,594,181
Idaho	652,451	1,276,787	NA	3,986,193	4,716,185	4,925,050	6,959,273	7,971,555
Illinois	1,521,332	1,990,000	NA	3,414,851	4,851,170	7,033,966	5,421,531	6,176,896
Indiana	4,428,024	4,017,815	NA	4,681,045	6,559,869	5,428,287	6,187,545	7,252,510
Iowa	4,388,234	2,424,713	NA	1,949,200	4,210,203	3,391,265	3,370,143	3,960,205
Kansas	4,864,624	4,107,233	NA	5,619,610	3,625,557	3,675,258	3,356,770	2,983,235
Kentucky	6,823,866	6,315,996	NA	4,755,197	5,263,230	5,873,846	6,170,250	4,316,909
Louisiana	6,382,762	4,125,505	NA	4,539,936	4,929,033	5,536,833	7,295,467	7,412,982
Maine	0	65,000	NA	1,304,294	1,836,035	2,439,296	1,167,751	1,158,805
Maryland	5,053,001	7,228,749	NA	4,234,200	1,643,939	1,551,214	1,888,327	1,944,190
Massachusetts	1,125,989	1,200,525	NA	379,847	814,609	1,209,020	1,328,828	1,803,176
Michigan	4,127,849	3,910,171	NA	6,054,036	6,885,798	7,110,347	8,187,688	8,454,896
Minnesota	2,002,686	3,083,506	NA	4,864,789	3,457,202	3,782,840	3,718,840	3,652,840
Mississippi	2,285,202	6,272,085	NA	2,926,523	5,671,257	5,454,392	5,174,275	3,937,121
Missouri	5,473,754	4,962,973	NA	5,556,085	3,161,177	4,103,709	3,702,943	3,521,812
Montana	2,913,589	1,837,440	NA	2,249,403	2,659,895	2,868,954	2,907,039	3,463,568
Nebraska	1,940,130	1,275,191	NA	1,162,077	878,999	1,071,515	1,900,163	1,973,878
Nevada	505,000	1,115,700	NA	1,242,142	688,933	320,608	469,512	1,001,898
New Hampshire	1,793,026	1,599,228	NA	937,998	896,396	1,081,852	1,302,649	1,071,409
New Jersey	2,927,179	4,040,714	NA	4,293,720	3,735,882	4,387,432	3,628,894	3,989,987
New Mexico	0	538,337	NA	1,324,423	1,072,611	1,443,195	1,434,849	1,592,483
New York	11,175,919	7,858,707	NA	41,660,434	52,981,830	50,301,854	47,591,963	44,687,735
North Carolina	8,043,625	13,118,979	NA	8,477,435	10,223,740	11,187,114	7,904,917	6,075,886
North Dakota	5,957,704	3,713,936	NA	1,895,456	575,654	557,822	540,086	564,878
Ohio	8,767,534	8,253,286	NA	5,141,853	3,351,457	4,455,517	6,415,795	10,584,324
Oklahoma	643,333	3,296,216	NA	5,120,111	5,229,705	6,138,385	5,283,506	8,289,178
Oregon	2,245,190	2,470,211	NA	3,957,639	12,870,466	14,753,575	17,582,132	16,942,402
Pennsylvania	4,278,736	5,321,876	NA	5,975,911	5,882,402	6,652,868	6,442,990	6,002,259
Rhode Island	150,000	403,939	NA	396,154	281,728	515,480	487,305	664,190
South Carolina	19,731,986	29,773,259	NA	22,877,576	59,873,605	71,204,639	59,056,716	33,931,311
South Dakota	3,011,796	3,847,153	NA	3,522,778	3,145,143	2,882,410	2,618,318	2,840,315
Tennessee	4,658,000	3,638,000	NA	3,002,070	851,410	2,985,145	3,594,115	2,906,011
Texas	20,318,659	19,853,357	NA	22,174,250	21,943,248	21,488,561	20,949,356	20,382,696
Utah	1,800,000	1,880,823	NA	5,593,015	20,724,230	20,687,819	21,153,987	25,727,343
Vermont	1,282,280	783,845	NA	610,565	1,100,865	1,184,957	1,121,698	1,240,063
Virginia	6,387,630	9,427,028	NA	11,409,211	9,370,939	9,735,857	9,710,044	8,149,554
Washington	7,728,621	8,091,640	NA	5,925,432	9,841,190	9,420,257	8,462,965	8,292,342
West Virginia	2,663,801	5,008,707	NA	3,733,032	7,830,732	6,157,841	8,139,084	7,256,479

TABLE 15. State agency expenditures for R&D funded from federal sources, by state: FYs 2006–13
(Dollars)

State	2006	2007	2008	2009	2010	2011	2012	2013
Wisconsin	4,772,502	6,316,820	NA	8,656,553	7,890,044	15,611,863	9,632,605	13,741,242
Wyoming	1,688,296	10,903,754	NA	1,068,548	815,693	809,183	1,345,319	1,457,932
Puerto Rico[b]	103,503	0	NA	4,946,080	1,702,000	1,850,000	4,070,151	3,931,918

NA = not available; survey not conducted for FY 2008.

[a] U.S. total reflects all 50 states and the District of Columbia.

[b] Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

NOTES: State R&D totals can display considerable volatility between survey years due to several national and state-specific factors. Large changes are not unusual, especially for discretionary spending items such as R&D.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development.

TABLE 16. State agency expenditures for R&D and R&D plant, by state, department or agency, and R&D performer: FY 2012
(Dollars)

Department or agency	R&D performers[a] All	Intramural	Extramural	R&D plant
United States[b]	1,795,159,257	470,517,395	1,324,641,862	39,786,859
Alabama	17,352,984	8,612,718	8,740,266	3,730,211
Conservation and Natural Resources, Department of	6,511,092	1,118,905	5,392,187	3,730,211
Forensic Sciences, Department of	336,920	336,920	0	0
Geological Survey	2,588,932	2,588,932	0	0
Marine Environmental Science Consortium	4,567,961	4,567,961	0	0
Transportation, Department of	3,348,079	0	3,348,079	0
Alaska	5,467,944	5,346,296	121,648	0
Natural Resources, Department of	5,240,762	5,240,762	0	0
Transportation and Public Facilities, Department of	227,182	105,534	121,648	0
Arizona	22,809,895	13,303,829	9,506,066	19,400
Agriculture, Department of	753,581	0	753,581	0
Game and Fish Department	3,372,974	3,232,974	140,000	0
Geological Survey	7,804,412	7,333,195	471,217	0
Health Services, Department of	8,805,168	1,588,900	7,216,268	0
Transportation, Department of	2,073,760	1,148,760	925,000	19,400
Arkansas	15,518,374	3,006,648	12,511,726	0
Beef Council	67,450	0	67,450	0
Catfish Promotion Board	32,000	0	32,000	0
Corn and Grain Sorghum Board	668,900	0	668,900	0
Game and Fish Commission	692,557	568,314	124,243	0
Rice Research and Promotion Board	2,318,512	0	2,318,512	0
Science and Technology Authority	6,168,326	1,283,473	4,884,853	0
Soybean Promotion Board	3,250,921	0	3,250,921	0
State Highway and Transportation Department	2,057,208	1,154,861	902,347	0
Wheat Promotion Board	262,500	0	262,500	0
California	401,522,758	59,490,293	342,032,465	22,723,923
Air Resources Board	14,346,132	10,050,000	4,296,132	0
Children and Families Commission	770,468	0	770,468	0
Energy Commission	75,665,000	14,069,000	61,596,000	0
Environmental Health Hazard Assessment, Office of	12,705,197	12,430,573	274,624	0
Food and Agriculture, Department of	2,973,167	0	2,973,167	0
Forestry and Fire Protection, Department of	1,903,305	675,000	1,228,305	0
Institute for Regenerative Medicine	231,753,694	0	231,753,694	22,699,023
Motor Vehicles, Department of	1,437,293	1,437,293	0	0
Pesticide Regulation, Department of	8,369,000	5,395,000	2,974,000	0
Public Health, Genetic Disease, Department of	2,390,350	2,390,350	0	0
Public Health, Science and Education, Department of	800,000	800,000	0	0
Resources Recycling and Recovery, Department of	2,042,521	0	2,042,521	24,900
Seismic Safety Commission	459,827	0	459,827	0
Social Services, Department of	815,778	15,737	800,041	0
State Coastal Conservancy	1,564,593	0	1,564,593	0
State Hospitals, Department of	350,000	0	350,000	0
State Water Resources Control Board	200,000	0	200,000	0
Statewide Health Planning and Development, Office of	175,000	75,000	100,000	0
Transportation, Department of	36,897,000	10,997,000	25,900,000	0
Water Resources, Department of	5,904,433	1,155,340	4,749,093	0
Colorado	14,928,809	8,170,313	6,758,496	0
Economic Development and International Trade, Office of	3,986,305	0	3,986,305	0
Natural Resources, Department of	6,957,024	6,503,327	453,697	0
Public Health and Environment, Department of	1,459,114	0	1,459,114	0
Public Safety, Department of	902,386	902,386	0	0
Transportation, Department of	1,623,980	764,600	859,380	0

TABLE 16. State agency expenditures for R&D and R&D plant, by state, department or agency, and R&D performer: FY 2012
(Dollars)

Department or agency	R&D performers[a] All	Intramural	Extramural	R&D plant
Connecticut	40,017,523	24,039,989	15,977,534	0
Agricultural Experiment Station	11,083,069	11,083,069	0	0
Energy and Environmental Protection, Department of	8,023,426	7,540,617	482,809	0
Mental Health and Addiction Services, Department of	4,492,470	3,327,278	1,165,192	0
Public Health, Department of	12,400,558	211,025	12,189,533	0
Transportation, Department of	4,018,000	1,878,000	2,140,000	0
Delaware	4,635,720	2,181,693	2,454,027	0
Geological Survey	1,392,201	1,392,201	0	0
Natural Resources and Environmental Control, Department of	839,492	789,492	50,000	0
Transportation, Department of	2,404,027	0	2,404,027	0
District of Columbia	2,018,447	354,612	1,663,835	0
Health, Department of	656,448	144,988	511,460	0
Transportation, Department of	1,361,999	209,624	1,152,375	0
Florida	136,706,540	48,910,954	87,795,586	0
Agriculture and Consumer Services, Department of	19,111,188	3,256,399	15,854,789	0
Citrus, Department of	11,250,400	256,182	10,994,218	0
Environmental Protection, Department of	3,228,954	2,369,670	859,284	0
Fish and Wildlife Conservation Commission	44,921,965	43,028,703	1,893,262	0
Health, Department of	46,122,505	0	46,122,505	0
Space Florida	737,383	0	737,383	0
Transportation, Department of	11,334,145	0	11,334,145	0
Georgia	12,820,412	4,145,859	8,674,553	0
Herty Advanced Materials Development Center	2,500,000	2,500,000	0	0
Natural Resources, Department of	2,607,843	1,645,859	961,984	0
Transportation, Department of	7,712,569	0	7,712,569	0
Hawaii	11,145,520	4,267,994	6,877,526	0
Agriculture, Department of	1,516,064	490,000	1,026,064	0
Business, Economic Development, and Tourism, Department of	4,024,303	460,590	3,563,713	0
Health, Department of	190,000	190,000	0	0
Land and Natural Resources, Department of	4,533,302	2,891,404	1,641,898	0
Transportation, Department of	881,851	236,000	645,851	0
Idaho	11,785,529	7,179,818	4,605,711	0
Barley Commission	129,566	35,486	94,080	0
Bean Commission	75,171	75,021	150	0
Environmental Quality, Department of	30,451	0	30,451	0
Fish and Game, Department of	7,391,714	6,460,259	931,455	0
Potato Commission	1,007,267	99,652	907,615	0
Transportation Department	1,368,700	209,400	1,159,300	0
Water Resources, Department of	782,660	300,000	482,660	0
Wheat Commission	1,000,000	0	1,000,000	0
Illinois	17,859,438	1,618,580	16,240,858	0
Children and Family Services, Department of	8,535,674	0	8,535,674	0
Commerce and Economic Opportunity, Department of	21,110	0	21,110	0
Public Health, Department of	1,947,822	0	1,947,822	0
Transportation, Department of	7,354,832	1,618,580	5,736,252	0
Indiana	7,667,988	870,605	6,797,383	0
Criminal Justice Institute	413,937	245,000	168,937	0
Economic Development Corporation	806,000	0	806,000	0
Natural Resources, Department of	192,000	0	192,000	0
Transportation, Department of	6,256,051	625,605	5,630,446	0
Iowa	16,147,249	4,376,976	11,770,273	1,002,955
Economic Development Authority, Energy Office	5,207,302	0	5,207,302	0
Human Rights, Criminal and Juvenile Justice Planning, Division of	22,475	22,475	0	0

TABLE 16. State agency expenditures for R&D and R&D plant, by state, department or agency, and R&D performer: FY 2012
(Dollars)

Department or agency	R&D performers[a] All	Intramural	Extramural	R&D plant
Natural Resources, Department of	3,278,552	3,278,552	0	0
Transportation, Department of	7,638,920	1,075,949	6,562,971	1,002,955
Kansas	6,160,680	1,484,948	4,675,732	4,198,990
Transportation, Department of	5,147,330	1,484,948	3,662,382	0
Wheat Commission	1,013,350	0	1,013,350	4,198,990
Kentucky	19,886,257	2,893,270	16,992,987	1,000,000
Budget and Fiscal Management, Office of	4,074,600	350,000	3,724,600	0
Early Childhood, Governor's Office of	247,996	0	247,996	0
Economic Development, Cabinet for	7,634,353	0	7,634,353	1,000,000
Education Professional Standards Board	427,730	400,754	26,976	0
Energy Development and Independence, Department for	2,265,142	0	2,265,142	0
Fish and Wildlife Resources, Department of	2,569,823	2,104,516	465,307	0
Horse Racing Commission	478,313	0	478,313	0
Public Health, Department for	2,150,300	0	2,150,300	0
State Nature Preserves Commission	38,000	38,000	0	0
Louisiana	18,143,396	4,884,739	13,258,657	0
Coastal Protection and Restoration Authority	8,620,668	240,000	8,380,668	0
Transportation and Development, Department of	6,975,472	2,569,838	4,405,634	0
Wildlife and Fisheries, Department of	2,547,256	2,074,901	472,355	0
Maine	7,094,736	1,071,798	6,022,938	0
Agriculture, Conservation and Forestry, Department of	380,000	380,000	0	0
Drug Enforcement Agency	75,000	0	75,000	0
Environmental Protection, Department of	205,000	120,000	85,000	0
Inland Fisheries and Wildlife, Department of	27,000	0	27,000	0
Marine Resources, Department of	824,751	292,775	531,976	0
Technology Institute	5,228,522	0	5,228,522	0
Transportation, Department of	354,463	279,023	75,440	0
Maryland	21,890,225	513,661	21,376,564	0
Business and Economic Development, Department of	1,650,500	0	1,650,500	0
Health and Mental Hygiene, Department of	2,400,000	0	2,400,000	0
Natural Resources, Department of	763,777	323,661	440,116	0
Technology Development Corporation	15,147,837	0	15,147,837	0
Transportation, Department of	1,928,111	190,000	1,738,111	0
Massachusetts	3,918,500	917,177	3,001,323	0
Environmental Protection, Department of	236,527	172,480	64,047	0
Fish and Game, Department of	691,602	603,883	87,719	0
Mental Health, Department of	1,889,449	140,814	1,748,635	0
Public Health, Department of	1,100,922	0	1,100,922	0
Michigan	12,557,954	2,277,811	10,280,143	0
Agriculture and Rural Development, Department of	437,895	0	437,895	0
Natural Resources, Department of	3,220,059	577,811	2,642,248	0
Transportation, Department of	8,900,000	1,700,000	7,200,000	0
Minnesota	11,524,686	1,471,472	10,053,214	0
Agriculture, Department of	3,907,984	813,000	3,094,984	0
Forest Resources Council	45,273	45,273	0	0
Pollution Control Agency	63,177	0	63,177	0
Transportation, Department of	7,508,252	613,199	6,895,053	0
Mississippi	6,260,080	1,890,566	4,369,514	0
Transportation, Department of	4,801,812	939,416	3,862,396	0
Wildlife, Fisheries, and Parks, Department of	1,458,268	951,150	507,118	0
Missouri	13,041,450	7,274,626	5,766,824	0
Agriculture, Department of	349,210	0	349,210	0
Conservation, Department of	8,795,535	6,544,654	2,250,881	0

TABLE 16. State agency expenditures for R&D and R&D plant, by state, department or agency, and R&D performer: FY 2012
(Dollars)

Department or agency	R&D performers[a] All	Intramural	Extramural	R&D plant
Natural Resources, Department of	706,697	135,541	571,156	0
Transportation, Department of	3,190,008	594,431	2,595,577	0
Montana	6,841,897	1,669,440	5,172,457	0
Agriculture, Department of	2,015,402	0	2,015,402	0
Commerce, Department of	87,163	0	87,163	0
Environmental Quality, Department of	33,472	24,624	8,848	0
Fish, Wildlife and Parks	1,757,432	1,376,828	380,604	0
Natural Resources and Conservation, Department of	1,327,228	0	1,327,228	0
Transportation, Department of	1,621,200	267,988	1,353,212	0
Nebraska	6,367,304	303,472	6,063,832	0
Agriculture, Department of	387,118	0	387,118	0
Corn Board	267,123	0	267,123	0
Dry Bean Commission	150,089	150,089	0	0
Economic Development, Department of	1,893,383	0	1,893,383	0
Grain Sorghum Board	15,000	0	15,000	0
Natural Resources, Department of	1,701,779	150,169	1,551,610	0
Roads, Department of	1,631,444	0	1,631,444	0
Wheat Board	321,368	3,214	318,154	0
Nevada	1,166,762	376,301	790,461	0
Transportation, Department of	1,119,857	374,743	745,114	0
Wildlife, Department of	46,905	1,558	45,347	0
New Hampshire	2,241,149	760,392	1,480,757	0
Agriculture, Markets and Food, Department of	100,066	0	100,066	0
Resources and Economic Development, Department of	761,000	377,000	384,000	0
Transportation, Department of	1,380,083	383,392	996,691	0
New Jersey	17,818,258	2,952,996	14,865,262	0
Brain Injury Research, Commission on	3,856,178	127,675	3,728,503	0
Cancer Research, Commission on	1,118,015	0	1,118,015	0
Environmental Protection, Department of	2,742,767	1,456,100	1,286,667	0
Medical Research and Treatment of Autism, Governor's Council for	3,930,000	183,080	3,746,920	0
Spinal Cord Research, Commission on	2,395,107	133,028	2,262,079	0
Transportation, Department of	3,776,191	1,053,113	2,723,078	0
New Mexico	1,793,561	671,314	1,122,247	0
Transportation, Department of	1,793,561	671,314	1,122,247	0
New York	171,841,187	76,176,309	95,664,878	50,000
Agriculture and Markets, Department of	4,166,404	2,520,000	1,646,404	0
Empire State Development	29,975,639	767,676	29,207,963	0
Energy Research and Development Authority	49,967,821	8,668,393	41,299,428	0
Environmental Conservation, Department of	7,342,873	1,952,180	5,390,693	0
Health, Department of	66,731,547	51,713,113	15,018,434	50,000
State Museum	9,911,688	8,430,806	1,480,882	0
Transportation, Department of	3,745,215	2,124,141	1,621,074	0
North Carolina	32,529,885	20,437,242	12,092,643	100,000
Agriculture and Consumer Services, Department of	17,944,847	13,544,847	4,400,000	100,000
Environment and Natural Resources, Department of	5,319,038	4,852,395	466,643	0
Transportation, Department of	9,266,000	2,040,000	7,226,000	0
North Dakota	6,034,991	530,023	5,504,968	0
Agriculture, Department of	137,903	0	137,903	0
Lignite Research Council	560,634	297,134	263,500	0
Mineral Resources, Department of	50,000	5,000	45,000	0
Oil and Gas Program	860,219	97,997	762,222	0
Renewable Energy Research Program	1,472,482	62,998	1,409,484	0
Soybean Council	904,207	0	904,207	0

TABLE 16. State agency expenditures for R&D and R&D plant, by state, department or agency, and R&D performer: FY 2012
(Dollars)

Department or agency	R&D performers[a] All	Intramural	Extramural	R&D plant
Transportation, Department of	569,931	66,894	503,037	0
Wheat Commission	1,479,615	0	1,479,615	0
Ohio	153,382,845	2,246,092	151,136,753	0
Development Services Agency	143,949,463	0	143,949,463	0
Mental Health and Addiction Services, Department of	420,000	420,000	0	0
Natural Resources, Department of	4,952,239	1,528,995	3,423,244	0
Transportation, Department of	4,061,143	297,097	3,764,046	0
Oklahoma	23,133,843	1,057,822	22,076,021	1,466,330
Advancement of Science and Technology, Center for the	10,090,791	0	10,090,791	1,466,330
Agriculture, Food, and Forestry, Department of	1,008,868	5,000	1,003,868	0
Grand River Dam Authority	100,000	100,000	0	0
Health, State Department of	829,825	16,825	813,000	0
Sorghum Commission	12,500	0	12,500	0
Tobacco Settlement Endowment Trust	6,051,216	0	6,051,216	0
Transportation, Department of	2,721,721	935,997	1,785,724	0
Wheat Commission	200,860	0	200,860	0
Wildlife Conservation, Department of	2,118,062	0	2,118,062	0
Oregon	22,003,035	18,162,372	3,840,663	0
Agriculture, Department of	239,145	0	239,145	0
Fish and Wildlife, Department of	13,732,500	13,607,500	125,000	0
Forestry, Department of	325,868	21,379	304,489	0
Geology and Mineral Industries, Department of	3,995,911	3,853,022	142,889	0
Transportation, Department of	2,004,957	649,573	1,355,384	0
Watershed Enhancement Board	1,704,654	30,898	1,673,756	0
Pennsylvania	80,600,099	5,632,495	74,967,604	5,495,050
Agriculture, Department of	708,000	0	708,000	0
Community and Economic Development, Department of	13,876,129	0	13,876,129	0
Conservation and Natural Resources, Department of	752,315	210,638	541,677	0
Environmental Protection, Department of	2,135,435	468,953	1,666,482	0
Fish and Boat Commission	895,025	634,178	260,847	0
Game Commission	4,406,340	3,721,121	685,219	0
Health, Department of	54,088,921	0	54,088,921	5,495,050
Transportation, Department of	3,737,934	597,605	3,140,329	0
Rhode Island	2,028,402	20,000	2,008,402	0
Commerce Corporation	1,419,271	0	1,419,271	0
Transportation, Department of	609,131	20,000	589,131	0
South Carolina	72,467,293	49,917,998	22,549,295	0
Agriculture, Department of	402,388	0	402,388	0
Mental Health, Department of	189,334	88,450	100,884	0
Natural Resources, Department of	44,211,153	42,879,125	1,332,028	0
Research Authority	24,069,114	6,634,012	17,435,102	0
Sea Grant Consortium	1,826,972	307,007	1,519,965	0
Transportation, Department of	1,768,332	9,404	1,758,928	0
South Dakota	3,447,633	60,976	3,386,657	0
Agriculture, Department of	75,000	0	75,000	0
Game, Fish and Parks	1,894,989	0	1,894,989	0
Transportation, Department of	1,477,644	60,976	1,416,668	0
Tennessee	4,293,334	762,313	3,531,021	0
Environment and Conservation, Division of Archaeology, Department of	61,313	61,313	0	0
Environment and Conservation, Division of Remediation, Department of	681,000	681,000	0	0
Environment and Conservation, Division of Water Resources, Department of	175,000	20,000	155,000	0
Geological Survey	6,553	0	6,553	0
Transportation, Department of	3,369,468	0	3,369,468	0

TABLE 16. State agency expenditures for R&D and R&D plant, by state, department or agency, and R&D performer: FY 2012
(Dollars)

Department or agency	R&D performers[a] All	Intramural	Extramural	R&D plant
Texas	146,989,380	12,375,067	134,614,313	0
Agriculture, Department of	2,147,725	0	2,147,725	0
Cancer Prevention and Research Institute	115,488,847	9,611,384	105,877,463	0
Environmental Quality, Commission on	1,000,000	0	1,000,000	0
Health and Human Services Commission	160,000	160,000	0	0
Parks and Wildlife Department	3,111,887	1,085,874	2,026,013	0
Transportation, Department of	22,715,697	760,430	21,955,267	0
Water Development Board	2,365,224	757,379	1,607,845	0
Utah	47,388,335	17,654,475	29,733,860	0
Health, Department of	274,475	274,475	0	0
Natural Resources, Department of	16,400,000	16,400,000	0	0
Science Technology and Research Initiative, Governor's Office of Economic Development	28,683,860	0	28,683,860	0
Transportation, Department of	2,030,000	980,000	1,050,000	0
Vermont	1,653,315	1,074,198	579,117	0
Agriculture, Food, and Markets, Agency of	671,077	602,577	68,500	0
Human Services, Agency of	160,853	160,853	0	0
Natural Resources, Agency of	115,469	107,310	8,159	0
Transportation, Agency of	705,916	203,458	502,458	0
Virginia	24,379,497	8,766,523	15,612,974	0
Agriculture and Consumer Services, Department of	1,552,434	0	1,552,434	0
Consolidated Laboratory Services, Division of	303,000	303,000	0	0
Corrections, Department of	1,085,144	1,085,144	0	0
Forensic Science, Department of	159,944	159,944	0	0
Innovative Technology, Center for	6,590,000	260,000	6,330,000	0
Marine Resources Commission	2,769,016	0	2,769,016	0
Mines, Minerals and Energy, Department of	1,446,394	1,446,394	0	0
Natural History, Museum of	559,119	559,119	0	0
Transportation, Department of	9,914,446	4,952,922	4,961,524	0
Washington	49,553,326	12,875,297	36,678,029	0
Agriculture, Department of	446,409	0	446,409	0
Archaeology and Historic Preservation, Department of	234,565	234,565	0	0
Ecology, Department of	332,220	144,000	188,220	0
Fish and Wildlife, Department of	5,005,913	4,805,913	200,000	0
Grain Commission	2,540,857	0	2,540,857	0
Labor and Industries, Department of	2,811,637	2,811,637	0	0
Life Sciences Discovery Fund	22,801,588	1,525,000	21,276,588	0
Natural Resources, Department of	5,247,161	1,283,464	3,963,697	0
Potato Commission	986,084	116,400	869,684	0
Puget Sound Partnership	282,647	12,300	270,347	0
Red Raspberry Commission	123,033	0	123,033	0
Transportation, Department of	4,893,607	1,517,018	3,376,589	0
Tree Fruit Research Commission	3,675,000	425,000	3,250,000	0
Wine Commission	172,605	0	172,605	0
West Virginia	33,580,156	4,965,278	28,614,878	0
Agriculture, Department of	206,137	206,137	0	0
Geological and Economic Survey	2,258,374	1,252,640	1,005,734	0
Higher Education Policy Commission	28,585,672	976,528	27,609,144	0
Justice and Community Services, Division of	11,973	11,973	0	0
Transportation, Department of	2,518,000	2,518,000	0	0
Wisconsin	17,861,390	6,896,219	10,965,171	0
Agriculture, Trade and Consumer Protection, Department of	864,399	213,915	650,484	0
Economic Development Corporation	3,781,450	0	3,781,450	0
Natural Resources, Department of	9,081,222	6,350,648	2,730,574	0
Transportation, Department of	4,134,319	331,656	3,802,663	0

TABLE 16. State agency expenditures for R&D and R&D plant, by state, department or agency, and R&D performer: FY 2012
(Dollars)

Department or agency	R&D performers[a]			R&D plant
	All	Intramural	Extramural	
Wyoming	6,879,286	3,615,536	3,263,750	0
Agriculture, Department of	293,909	0	293,909	0
Environmental Quality, Department of	100,000	0	100,000	0
Game and Fish Department	1,730,051	380,424	1,349,627	0
State Geological Survey	2,482,744	2,482,744	0	0
Transportation, Department of	1,872,582	752,368	1,120,214	0
Water Development Commission	400,000	0	400,000	0
Puerto Rico[c]	7,625,412	6,360,716	1,264,696	0
Agriculture, Department of	507,174	507,174	0	0
Health, Department of	3,122,975	3,122,975	0	0
Highways and Transportation Authority	200,000	0	200,000	0
Hospital San Juan[d, e]	1,933,258	1,933,258	0	0
Institute of Statistics	11,774	11,774	0	0
Manufacturing Extension, Incorporated[d]	380,860	380,860	0	0
Mental Health and Anti-Addiction Services Administration[d]	404,675	404,675	0	0
Science, Technology and Research Trust	1,064,696	0	1,064,696	0

[a] Intramural performers include employees within the same state department or agency in support of an internal R&D project. Extramural performers are those outside the department or agency who perform R&D under the administrative oversight or control of the department or agency; this may include projects for the department or agency performed by others or an extramural research program.

[b] U.S. total reflects all 50 states and the District of Columbia.

[c] Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

[d] Data are provided as imputed by the Puerto Rico Institute of Statistics.

[e] Operated by the San Juan municipal government.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FYs 2012 and 2013.

TABLE 17. State agency expenditures for R&D and R&D plant, by state, department or agency, and R&D performer: FY 2013
(Dollars)

Department or agency	R&D performers[a] All	Intramural	Extramural	R&D plant
United States[b]	1,785,039,276	464,434,423	1,320,604,853	26,252,412
Alabama	13,292,741	9,160,769	4,131,972	6,908,899
Conservation and Natural Resources, Department of	2,307,054	829,378	1,477,676	6,908,899
Forensic Sciences, Department of	144,180	144,180	0	0
Geological Survey	3,196,187	3,196,187	0	0
Marine Environmental Science Consortium	4,991,024	4,991,024	0	0
Transportation, Department of	2,654,296	0	2,654,296	0
Alaska	6,689,384	5,963,195	726,189	0
Natural Resources, Department of	6,213,471	5,558,195	655,276	0
Transportation and Public Facilities, Department of	475,913	405,000	70,913	0
Arizona	27,810,970	16,141,770	11,669,200	0
Agriculture, Department of	668,045	0	668,045	0
Game and Fish Department	4,089,754	3,964,254	125,500	0
Geological Survey	9,538,303	8,770,816	767,487	0
Health Services, Department of	11,203,068	2,059,700	9,143,368	0
Transportation, Department of	2,311,800	1,347,000	964,800	0
Arkansas	16,518,947	2,992,079	13,526,868	0
Beef Council	18,730	0	18,730	0
Catfish Promotion Board	22,500	0	22,500	0
Corn and Grain Sorghum Board	805,000	0	805,000	0
Game and Fish Commission	891,397	528,338	363,059	0
Rice Research and Promotion Board	2,594,500	0	2,594,500	0
Science and Technology Authority	6,596,697	1,491,546	5,105,151	0
Soybean Promotion Board	3,412,674	0	3,412,674	0
State Highway and Transportation Department	1,915,324	972,195	943,129	0
Wheat Promotion Board	262,125	0	262,125	0
California	346,942,036	57,262,060	289,679,976	4,825,734
Air Resources Board	18,727,946	10,650,000	8,077,946	0
Children and Families Commission	750,000	0	750,000	0
Energy Commission	55,396,000	12,198,000	43,198,000	0
Environmental Health Hazard Assessment, Office of	12,737,703	12,659,938	77,765	0
Food and Agriculture, Department of	2,284,113	0	2,284,113	0
Forestry and Fire Protection, Department of	1,672,942	675,000	997,942	0
Institute for Regenerative Medicine	197,108,479	0	197,108,479	4,776,459
Motor Vehicles, Department of	1,554,440	1,554,440	0	0
Pesticide Regulation, Department of	7,822,000	5,476,000	2,346,000	0
Public Health, Genetic Disease, Department of	1,171,920	1,171,920	0	0
Public Health, Science and Education, Department of	800,000	800,000	0	0
Resources Recycling and Recovery, Department of	3,232,556	0	3,232,556	49,275
Seismic Safety Commission	245,900	0	245,900	0
Sierra Nevada Conservancy	47,711	0	47,711	0
Social Services, Department of	1,059,872	75,732	984,140	0
State Coastal Conservancy	1,638,868	0	1,638,868	0
State Hospitals, Department of	350,000	0	350,000	0
State Water Resources Control Board	1,400,000	0	1,400,000	0
Statewide Health Planning and Development, Office of	175,000	75,000	100,000	0
Transportation, Department of	35,038,000	10,506,000	24,532,000	0
Water Resources, Department of	3,728,586	1,420,030	2,308,556	0
Colorado	14,471,683	8,248,707	6,222,976	0
Economic Development and International Trade, Office of	3,107,542	0	3,107,542	0
Natural Resources, Department of	6,576,449	6,557,297	19,152	0
Public Health and Environment, Department of	1,459,114	0	1,459,114	0
Public Safety, Department of	989,741	989,741	0	0
Transportation, Department of	2,338,837	701,669	1,637,168	0

TABLE 17. State agency expenditures for R&D and R&D plant, by state, department or agency, and R&D performer: FY 2013
(Dollars)

Department or agency	R&D performers[a] All	Intramural	Extramural	R&D plant
Connecticut	41,023,368	25,612,853	15,410,515	0
Agricultural Experiment Station	11,176,787	11,176,787	0	0
Energy and Environmental Protection, Department of	9,228,915	8,693,860	535,055	0
Mental Health and Addiction Services, Department of	4,895,486	3,710,504	1,184,982	0
Public Health, Department of	11,622,180	156,702	11,465,478	0
Transportation, Department of	4,100,000	1,875,000	2,225,000	0
Delaware	4,729,141	2,514,545	2,214,596	0
Geological Survey	1,784,107	1,784,107	0	0
Natural Resources and Environmental Control, Department of	970,438	730,438	240,000	0
Transportation, Department of	1,974,596	0	1,974,596	0
District of Columbia	1,848,800	435,813	1,412,987	0
Health, Department of	861,058	184,813	676,245	0
Transportation, Department of	987,742	251,000	736,742	0
Florida	118,781,266	47,372,831	71,408,435	0
Agriculture and Consumer Services, Department of	17,069,604	2,824,529	14,245,075	0
Citrus, Department of	5,843,133	161,909	5,681,224	0
Environmental Protection, Department of	3,068,175	2,262,702	805,473	0
Fish and Wildlife Conservation Commission	43,977,133	42,123,691	1,853,442	0
Health, Department of	38,382,971	0	38,382,971	0
Space Florida	1,160,380	0	1,160,380	0
Transportation, Department of	9,279,870	0	9,279,870	0
Georgia	12,697,846	2,041,101	10,656,745	0
Natural Resources, Department of	3,999,505	2,041,101	1,958,404	0
Transportation, Department of	8,698,341	0	8,698,341	0
Hawaii	13,094,794	4,320,992	8,773,802	0
Agriculture, Department of	1,516,064	490,000	1,026,064	0
Business, Economic Development, and Tourism, Department of	5,674,072	503,487	5,170,585	0
Health, Department of	190,000	190,000	0	0
Land and Natural Resources, Department of	4,484,602	2,565,206	1,919,396	0
Transportation, Department of	1,230,056	572,299	657,757	0
Idaho	12,929,174	7,836,031	5,093,143	0
Barley Commission	141,838	37,321	104,517	0
Bean Commission	106,035	105,885	150	0
Fish and Game, Department of	7,409,032	6,687,059	721,973	0
Potato Commission	1,332,536	499,366	833,170	0
Transportation Department	1,929,300	206,400	1,722,900	0
Water Resources, Department of	810,433	300,000	510,433	0
Wheat Commission	1,200,000	0	1,200,000	0
Illinois	17,999,229	1,663,080	16,336,149	0
Children and Family Services, Department of	7,748,399	0	7,748,399	0
Commerce and Economic Opportunity, Department of	225,000	0	225,000	0
Public Health, Department of	1,306,747	0	1,306,747	0
Transportation, Department of	8,719,083	1,663,080	7,056,003	0
Indiana	10,167,120	1,022,370	9,144,750	0
Criminal Justice Institute	360,000	245,000	115,000	0
Economic Development Corporation	1,763,216	0	1,763,216	0
Natural Resources, Department of	270,500	0	270,500	0
Transportation, Department of	7,773,404	777,370	6,996,034	0
Iowa	19,365,308	5,603,029	13,762,279	2,062,685
Economic Development Authority, Energy Office	6,340,014	0	6,340,014	0
Human Rights, Criminal and Juvenile Justice Planning, Division of	22,484	22,484	0	0
Natural Resources, Department of	3,517,000	3,517,000	0	0
Transportation, Department of	9,485,810	2,063,545	7,422,265	2,062,685

TABLE 17. State agency expenditures for R&D and R&D plant, by state, department or agency, and R&D performer: FY 2013
(Dollars)

Department or agency	R&D performers[a] All	Intramural	Extramural	R&D plant
Kansas	5,708,223	1,577,722	4,130,501	3,913,555
Transportation, Department of	4,724,025	1,577,722	3,146,303	0
Wheat Commission	984,198	0	984,198	3,913,555
Kentucky	19,751,055	2,962,965	16,788,090	0
Budget and Fiscal Management, Office of	2,714,500	350,000	2,364,500	0
Early Childhood, Governor's Office of	228,618	0	228,618	0
Economic Development, Cabinet for	8,044,646	0	8,044,646	0
Education Professional Standards Board	401,544	373,847	27,697	0
Energy Development and Independence, Department for	3,294,541	0	3,294,541	0
Fish and Wildlife Resources, Department of	2,615,188	2,214,118	401,070	0
Horse Racing Commission	312,518	0	312,518	0
Public Health, Department for	2,111,500	0	2,111,500	0
State Nature Preserves Commission	28,000	25,000	3,000	0
Louisiana	15,713,110	5,081,221	10,631,889	0
Coastal Protection and Restoration Authority	5,731,257	240,000	5,491,257	0
Transportation and Development, Department of	6,965,116	2,559,170	4,405,946	0
Wildlife and Fisheries, Department of	3,016,737	2,282,051	734,686	0
Maine	6,109,793	1,154,177	4,955,616	0
Agriculture, Conservation and Forestry, Department of	460,000	460,000	0	0
Drug Enforcement Agency	30,000	0	30,000	0
Environmental Protection, Department of	235,000	160,000	75,000	0
Inland Fisheries and Wildlife, Department of	159,834	0	159,834	0
Marine Resources, Department of	431,240	222,030	209,210	0
Technology Institute	4,272,275	0	4,272,275	0
Transportation, Department of	521,444	312,147	209,297	0
Maryland	29,467,445	572,247	28,895,198	0
Business and Economic Development, Department of	1,647,108	0	1,647,108	0
Health and Mental Hygiene, Department of	5,800,000	0	5,800,000	0
Natural Resources, Department of	832,243	382,247	449,996	0
Technology Development Corporation	19,410,014	0	19,410,014	0
Transportation, Department of	1,778,080	190,000	1,588,080	0
Massachusetts	4,590,424	1,083,202	3,507,222	0
Environmental Protection, Department of	246,613	186,186	60,427	0
Fish and Game, Department of	784,707	749,161	35,546	0
Mental Health, Department of	1,892,550	147,855	1,744,695	0
Public Health, Department of	1,666,554	0	1,666,554	0
Michigan	12,830,423	2,651,063	10,179,360	0
Agriculture and Rural Development, Department of	513,396	0	513,396	0
Environmental Quality, Department of	45,745	0	45,745	0
Natural Resources, Department of	4,571,282	951,063	3,620,219	0
Transportation, Department of	7,700,000	1,700,000	6,000,000	0
Minnesota	14,855,954	1,007,122	13,848,832	0
Agriculture, Department of	2,526,558	801,791	1,724,767	0
Forest Resources Council	51,831	51,831	0	0
Pollution Control Agency	979,973	0	979,973	0
Transportation, Department of	11,297,592	153,500	11,144,092	0
Mississippi	4,863,312	2,094,537	2,768,775	0
Transportation, Department of	3,300,936	1,127,000	2,173,936	0
Wildlife, Fisheries, and Parks, Department of	1,562,376	967,537	594,839	0
Missouri	13,051,110	6,696,607	6,354,503	0
Agriculture, Department of	381,475	0	381,475	0
Conservation, Department of	9,030,901	6,209,234	2,821,667	0
Natural Resources, Department of	266,597	43,315	223,282	0

TABLE 17. State agency expenditures for R&D and R&D plant, by state, department or agency, and R&D performer: FY 2013
(Dollars)

Department or agency	R&D performers[a] All	Intramural	Extramural	R&D plant
Transportation, Department of	3,372,137	444,058	2,928,079	0
Montana	6,570,018	2,035,229	4,534,789	0
Agriculture, Department of	1,929,948	0	1,929,948	0
Environmental Quality, Department of	237,328	122,464	114,864	0
Fish, Wildlife and Parks	2,160,798	1,650,054	510,744	0
Natural Resources and Conservation, Department of	140,945	0	140,945	0
Transportation, Department of	2,100,999	262,711	1,838,288	0
Nebraska	7,274,333	368,009	6,906,324	0
Agriculture, Department of	388,885	0	388,885	0
Corn Board	468,089	0	468,089	0
Dry Bean Commission	178,386	178,386	0	0
Economic Development, Department of	2,317,862	0	2,317,862	0
Grain Sorghum Board	15,000	0	15,000	0
Natural Resources, Department of	1,894,916	186,573	1,708,343	0
Roads, Department of	1,706,203	0	1,706,203	0
Wheat Board	304,992	3,050	301,942	0
Nevada	1,640,871	366,804	1,274,067	0
Transportation, Department of	1,595,463	365,395	1,230,068	0
Wildlife, Department of	45,408	1,409	43,999	0
New Hampshire	1,788,396	683,882	1,104,514	0
Agriculture, Markets and Food, Department of	121,435	0	121,435	0
Resources and Economic Development, Department of	440,000	317,000	123,000	0
Transportation, Department of	1,226,961	366,882	860,079	0
New Jersey	22,413,516	2,920,843	19,492,673	0
Brain Injury Research, Commission on	3,924,029	110,750	3,813,279	0
Cancer Research, Commission on	1,345,672	0	1,345,672	0
Environmental Protection, Department of	2,929,505	1,527,000	1,402,505	0
Medical Research and Treatment of Autism, Governor's Council for	6,883,804	194,600	6,689,204	0
Spinal Cord Research, Commission on	3,082,046	117,400	2,964,646	0
Transportation, Department of	4,248,460	971,093	3,277,367	0
New Mexico	2,015,961	768,893	1,247,068	0
State Engineer, Office of the	96,182	63,418	32,764	0
Transportation, Department of	1,919,779	705,475	1,214,304	0
New York	177,063,220	73,922,295	103,140,925	250,000
Agriculture and Markets, Department of	3,872,277	2,520,000	1,352,277	0
Empire State Development	46,870,153	785,139	46,085,014	0
Energy Research and Development Authority	40,614,938	9,459,782	31,155,156	0
Environmental Conservation, Department of	7,148,310	2,134,100	5,014,210	0
Health, Department of	64,264,233	48,381,213	15,883,020	250,000
State Museum	10,096,183	8,556,407	1,539,776	0
Transportation, Department of	4,197,126	2,085,654	2,111,472	0
North Carolina	30,649,974	20,501,169	10,148,805	250,000
Agriculture and Consumer Services, Department of	17,947,847	13,544,847	4,403,000	250,000
Environment and Natural Resources, Department of	5,382,127	4,916,322	465,805	0
Transportation, Department of	7,320,000	2,040,000	5,280,000	0
North Dakota	7,364,184	429,670	6,934,514	0
Agriculture, Department of	82,238	0	82,238	0
Lignite Research Council	2,145,106	245,000	1,900,106	0
Mineral Resources, Department of	65,000	20,000	45,000	0
Oil and Gas Program	1,447,730	45,863	1,401,867	0
Renewable Energy Research Program	645,926	36,204	609,722	0
Soybean Council	1,056,806	0	1,056,806	0
Transportation, Department of	584,875	82,603	502,272	0

TABLE 17. State agency expenditures for R&D and R&D plant, by state, department or agency, and R&D performer: FY 2013
(Dollars)

Department or agency	R&D performers[a] All	Intramural	Extramural	R&D plant
Wheat Commission	1,336,503	0	1,336,503	0
Ohio	188,311,926	2,040,795	186,271,131	0
Development Services Agency	173,959,505	0	173,959,505	0
Mental Health and Addiction Services, Department of	320,000	320,000	0	0
Natural Resources, Department of	5,734,274	1,344,563	4,389,711	0
Transportation, Department of	8,298,147	376,232	7,921,915	0
Oklahoma	28,224,758	1,074,816	27,149,942	2,651,539
Advancement of Science and Technology, Center for the	8,795,761	0	8,795,761	2,386,005
Agriculture, Food, and Forestry, Department of	1,008,868	5,000	1,003,868	0
Grand River Dam Authority	100,000	100,000	0	0
Health, State Department of	834,153	16,153	818,000	0
Sorghum Commission	25,000	0	25,000	0
Tobacco Settlement Endowment Trust	8,271,695	0	8,271,695	0
Transportation, Department of	4,026,505	953,663	3,072,842	0
Wheat Commission	799,650	0	799,650	0
Wildlife Conservation, Department of	4,363,126	0	4,363,126	265,534
Oregon	23,083,506	19,524,508	3,558,998	0
Agriculture, Department of	330,243	0	330,243	0
Fish and Wildlife, Department of	14,034,000	13,974,000	60,000	0
Forestry, Department of	753,417	146,459	606,958	0
Geology and Mineral Industries, Department of	5,221,905	4,786,832	435,073	0
Transportation, Department of	2,639,702	592,096	2,047,606	0
Watershed Enhancement Board	104,239	25,121	79,118	0
Pennsylvania	66,429,400	6,675,458	59,753,942	5,240,000
Agriculture, Department of	786,545	0	786,545	0
Community and Economic Development, Department of	11,281,404	0	11,281,404	0
Conservation and Natural Resources, Department of	616,084	166,407	449,677	0
Environmental Protection, Department of	3,709,611	763,500	2,946,111	0
Fish and Boat Commission	737,805	664,712	73,093	0
Game Commission	4,762,801	4,517,420	245,381	0
Health, Department of	40,892,467	0	40,892,467	5,240,000
Transportation, Department of	3,642,683	563,419	3,079,264	0
Rhode Island	1,640,778	225,050	1,415,728	0
Commerce Corporation	810,541	0	810,541	0
Transportation, Department of	830,237	225,050	605,187	0
South Carolina	47,732,177	37,004,464	10,727,713	0
Agriculture, Department of	158,505	0	158,505	0
Mental Health, Department of	189,334	88,450	100,884	0
Natural Resources, Department of	35,068,126	33,965,413	1,102,713	0
Research Authority	9,055,708	2,643,670	6,412,038	0
Sea Grant Consortium	1,318,003	306,931	1,011,072	0
Transportation, Department of	1,942,501	0	1,942,501	0
South Dakota	3,660,854	114,425	3,546,429	0
Agriculture, Department of	75,000	0	75,000	0
Game, Fish and Parks	1,774,517	0	1,774,517	0
Transportation, Department of	1,811,337	114,425	1,696,912	0
Tennessee	3,430,476	784,848	2,645,628	0
Environment and Conservation, Division of Archaeology, Department of	58,348	58,348	0	0
Environment and Conservation, Division of Remediation, Department of	706,500	706,500	0	0
Environment and Conservation, Division of Water Resources, Department of	160,000	20,000	140,000	0
Transportation, Department of	2,505,628	0	2,505,628	0
Texas	185,199,541	11,746,259	173,453,282	0
Agriculture, Department of	1,695,975	0	1,695,975	0

TABLE 17. State agency expenditures for R&D and R&D plant, by state, department or agency, and R&D performer: FY 2013
(Dollars)

Department or agency	R&D performers[a] All	Intramural	Extramural	R&D plant
Cancer Prevention and Research Institute	154,841,396	7,796,727	147,044,669	0
Environmental Quality, Commission on	1,000,000	0	1,000,000	0
Health and Human Services Commission	175,000	175,000	0	0
Parks and Wildlife Department	3,964,934	1,346,054	2,618,880	0
Transportation, Department of	20,671,237	1,460,851	19,210,386	0
Water Development Board	2,850,999	967,627	1,883,372	0
Utah	53,636,842	17,979,931	35,656,911	0
Health, Department of	79,931	79,931	0	0
Natural Resources, Department of	16,900,000	16,900,000	0	0
Science Technology and Research Initiative, Governor's Office of Economic Development	34,226,911	0	34,226,911	0
Transportation, Department of	2,430,000	1,000,000	1,430,000	0
Vermont	1,827,562	1,160,193	667,369	0
Agriculture, Food, and Markets, Agency of	717,564	649,064	68,500	0
Human Services, Agency of	170,780	170,780	0	0
Natural Resources, Agency of	102,379	94,663	7,716	0
Transportation, Agency of	836,839	245,686	591,153	0
Virginia	25,917,935	13,046,471	12,871,464	0
Agriculture and Consumer Services, Department of	1,569,509	0	1,569,509	0
Consolidated Laboratory Services, Division of	118,000	118,000	0	0
Corrections, Department of	1,038,630	1,038,630	0	0
Forensic Science, Department of	143,396	143,396	0	0
Innovative Technology, Center for	3,320,000	220,000	3,100,000	0
Marine Resources Commission	2,655,774	0	2,655,774	0
Mines, Minerals and Energy, Department of	2,307,537	2,307,537	0	0
Natural History, Museum of	666,462	666,462	0	0
Transportation, Department of	14,098,627	8,552,446	5,546,181	0
Washington	47,122,876	12,820,150	34,302,726	150,000
Agriculture, Department of	464,626	0	464,626	0
Archaeology and Historic Preservation, Department of	372,376	372,376	0	0
Ecology, Department of	515,663	228,000	287,663	0
Fish and Wildlife, Department of	5,245,951	5,045,951	200,000	0
Grain Commission	2,821,984	0	2,821,984	0
Labor and Industries, Department of	2,998,176	2,998,176	0	0
Life Sciences Discovery Fund	19,586,521	1,348,000	18,238,521	0
Natural Resources, Department of	5,054,857	1,592,083	3,462,774	0
Potato Commission	986,084	116,400	869,684	0
Puget Sound Partnership	238,659	12,300	226,359	0
Red Raspberry Commission	164,600	0	164,600	0
Transportation, Department of	4,257,879	581,864	3,676,015	0
Tree Fruit Research Commission	4,025,000	525,000	3,500,000	0
Wine Commission	390,500	0	390,500	150,000
West Virginia	19,027,684	4,764,417	14,263,267	0
Agriculture, Department of	93,033	93,033	0	0
Geological and Economic Survey	2,904,573	1,252,692	1,651,881	0
Higher Education Policy Commission	13,289,192	677,806	12,611,386	0
Justice and Community Services, Division of	11,886	11,886	0	0
Transportation, Department of	2,729,000	2,729,000	0	0
Wisconsin	21,212,446	7,402,664	13,809,782	0
Agriculture, Trade and Consumer Protection, Department of	640,941	104,851	536,090	0
Economic Development Corporation	7,462,000	0	7,462,000	0
Natural Resources, Department of	8,894,211	6,778,381	2,115,830	0
Transportation, Department of	4,215,294	519,432	3,695,862	0

TABLE 17. State agency expenditures for R&D and R&D plant, by state, department or agency, and R&D performer: FY 2013
(Dollars)

Department or agency	R&D performers[a]			R&D plant
	All	Intramural	Extramural	
Wyoming	6,497,386	3,001,092	3,496,294	0
Agriculture, Department of	252,098	0	252,098	0
Environmental Quality, Department of	100,000	0	100,000	0
Game and Fish Department	1,881,499	431,877	1,449,622	0
State Geological Survey	2,225,936	2,225,936	0	0
Transportation, Department of	1,637,853	343,279	1,294,574	0
Water Development Commission	400,000	0	400,000	0
Puerto Rico[c]	7,949,965	6,084,344	1,865,621	0
Agriculture, Department of	649,048	649,048	0	0
Education Council	565,621	0	565,621	0
Health, Department of	2,705,482	2,705,482	0	0
Highways and Transportation Authority	200,000	0	200,000	0
Hospital San Juan[d, e]	1,962,118	1,962,118	0	0
Institute of Statistics	37,601	37,601	0	0
Manufacturing Extension, Incorporated[d]	319,379	319,379	0	0
Mental Health and Anti-Addiction Services Administration[d]	410,716	410,716	0	0
Science, Technology and Research Trust	1,100,000	0	1,100,000	0

[a] Intramural performers include employees within the same state department or agency in support of an internal R&D project. Extramural performers are those outside the department or agency who perform R&D under the administrative oversight or control of the department or agency; this may include projects for the department or agency performed by others or an extramural research program.

[b] U.S. total reflects all 50 states and the District of Columbia.

[c] Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

[d] Data are provided as imputed by the Puerto Rico Institute of Statistics.

[e] Operated by the San Juan municipal government.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FYs 2012 and 2013.

TABLE 18. State agency expenditures for R&D for all performers, by state, department or agency, and source of funds: FY 2012
(Dollars)

Department or agency	Total	Federal government	State and all others[a]
United States[b]	1,795,159,257	433,418,386	1,361,740,871
Alabama	17,352,984	12,966,760	4,386,224
Conservation and Natural Resources, Department of	6,511,092	5,961,640	549,452
Forensic Sciences, Department of	336,920	0	336,920
Geological Survey	2,588,932	1,194,261	1,394,671
Marine Environmental Science Consortium	4,567,961	3,034,395	1,533,566
Transportation, Department of	3,348,079	2,776,464	571,615
Alaska	5,467,944	206,004	5,261,940
Natural Resources, Department of	5,240,762	0	5,240,762
Transportation and Public Facilities, Department of	227,182	206,004	21,178
Arizona	22,809,895	12,004,585	10,805,310
Agriculture, Department of	753,581	603,598	149,983
Game and Fish Department	3,372,974	2,782,974	590,000
Geological Survey	7,804,412	6,975,013	829,399
Health Services, Department of	8,805,168	0	8,805,168
Transportation, Department of	2,073,760	1,643,000	430,760
Arkansas	15,518,374	8,031,452	7,486,922
Beef Council	67,450	0	67,450
Catfish Promotion Board	32,000	0	32,000
Corn and Grain Sorghum Board	668,900	0	668,900
Game and Fish Commission	692,557	692,557	0
Rice Research and Promotion Board	2,318,512	2,318,512	0
Science and Technology Authority	6,168,326	3,547,975	2,620,351
Soybean Promotion Board	3,250,921	0	3,250,921
State Highway and Transportation Department	2,057,208	1,472,408	584,800
Wheat Promotion Board	262,500	0	262,500
California	401,522,758	22,646,488	378,876,270
Air Resources Board	14,346,132	0	14,346,132
Children and Families Commission	770,468	0	770,468
Energy Commission	75,665,000	1,087,000	74,578,000
Environmental Health Hazard Assessment, Office of	12,705,197	0	12,705,197
Institute for Regenerative Medicine	231,753,694	0	231,753,694
Food and Agriculture, Department of	2,973,167	653,500	2,319,667
Forestry and Fire Protection, Department of	1,903,305	950,000	953,305
Motor Vehicles, Department of	1,437,293	907,810	529,483
Pesticide Regulation, Department of	8,369,000	21,000	8,348,000
Public Health, Genetic Disease, Department of	2,390,350	2,162,000	228,350
Public Health, Science and Education, Department of	800,000	50,000	750,000
Resources Recycling and Recovery, Department of	2,042,521	0	2,042,521
Seismic Safety Commission	459,827	0	459,827
Social Services, Department of	815,778	814,178	1,600
State Coastal Conservancy	1,564,593	0	1,564,593
State Hospitals, Department of	350,000	0	350,000
State Water Resources Control Board	200,000	0	200,000
Statewide Health Planning and Development, Office of	175,000	0	175,000
Transportation, Department of	36,897,000	15,863,000	21,034,000
Water Resources, Department of	5,904,433	138,000	5,766,433
Colorado	14,928,809	5,170,087	9,758,722
Economic Development and International Trade, Office of	3,986,305	0	3,986,305
Natural Resources, Department of	6,957,024	2,087,527	4,869,497
Public Health and Environment, Department of	1,459,114	1,459,114	0
Public Safety, Department of	902,386	152,386	750,000
Transportation, Department of	1,623,980	1,471,060	152,920
Connecticut	40,017,523	11,904,666	28,112,857
Agricultural Experiment Station	11,083,069	3,129,814	7,953,255

TABLE 18. State agency expenditures for R&D for all performers, by state, department or agency, and source of funds: FY 2012
(Dollars)

Department or agency	Total	Federal government	State and all others[a]
Energy and Environmental Protection, Department of	8,023,426	4,558,712	3,464,714
Mental Health and Addiction Services, Department of	4,492,470	1,391,140	3,101,330
Public Health, Department of	12,400,558	0	12,400,558
Transportation, Department of	4,018,000	2,825,000	1,193,000
Delaware	4,635,720	1,687,502	2,948,218
Geological Survey	1,392,201	216,788	1,175,413
Natural Resources and Environmental Control, Department of	839,492	336,315	503,177
Transportation, Department of	2,404,027	1,134,399	1,269,628
District of Columbia	2,018,447	1,712,507	305,940
Health, Department of	656,448	656,448	0
Transportation, Department of	1,361,999	1,056,059	305,940
Florida	136,706,540	26,701,503	110,005,037
Agriculture and Consumer Services, Department of	19,111,188	5,020,853	14,090,335
Citrus, Department of	11,250,400	105,794	11,144,606
Environmental Protection, Department of	3,228,954	387,085	2,841,869
Fish and Wildlife Conservation Commission	44,921,965	13,878,520	31,043,445
Health, Department of	46,122,505	0	46,122,505
Space Florida	737,383	0	737,383
Transportation, Department of	11,334,145	7,309,251	4,024,894
Georgia	12,820,412	8,600,759	4,219,653
Herty Advanced Materials Development Center	2,500,000	0	2,500,000
Natural Resources, Department of	2,607,843	2,002,655	605,188
Transportation, Department of	7,712,569	6,598,104	1,114,465
Hawaii	11,145,520	8,180,435	2,965,085
Agriculture, Department of	1,516,064	1,266,064	250,000
Business, Economic Development, and Tourism, Department of	4,024,303	4,024,303	0
Health, Department of	190,000	130,000	60,000
Land and Natural Resources, Department of	4,533,302	2,243,387	2,289,915
Transportation, Department of	881,851	516,681	365,170
Idaho	11,785,529	6,959,273	4,826,256
Barley Commission	129,566	0	129,566
Bean Commission	75,171	46,783	28,388
Environmental Quality, Department of	30,451	30,451	0
Fish and Game, Department of	7,391,714	5,617,839	1,773,875
Potato Commission	1,007,267	50,000	957,267
Transportation Department	1,368,700	1,214,200	154,500
Water Resources, Department of	782,660	0	782,660
Wheat Commission	1,000,000	0	1,000,000
Illinois	17,859,438	5,421,531	12,437,907
Children and Family Services, Department of	8,535,674	940,407	7,595,267
Commerce and Economic Opportunity, Department of	21,110	0	21,110
Public Health, Department of	1,947,822	0	1,947,822
Transportation, Department of	7,354,832	4,481,124	2,873,708
Indiana	7,667,988	6,187,545	1,480,443
Criminal Justice Institute	413,937	413,937	0
Economic Development Corporation	806,000	671,000	135,000
Natural Resources, Department of	192,000	15,000	177,000
Transportation, Department of	6,256,051	5,087,608	1,168,443
Iowa	16,147,249	3,370,143	12,777,106
Economic Development Authority, Energy Office	5,207,302	0	5,207,302
Human Rights, Criminal and Juvenile Justice Planning, Division of	22,475	12,106	10,369
Natural Resources, Department of	3,278,552	0	3,278,552
Transportation, Department of	7,638,920	3,358,037	4,280,883

TABLE 18. State agency expenditures for R&D for all performers, by state, department or agency, and source of funds: FY 2012
(Dollars)

Department or agency	Total	Federal government	State and all others[a]
Kansas	6,160,680	3,356,770	2,803,910
Transportation, Department of	5,147,330	3,356,770	1,790,560
Wheat Commission	1,013,350	0	1,013,350
Kentucky	19,886,257	6,170,250	13,716,007
Budget and Fiscal Management, Office of	4,074,600	3,724,600	350,000
Early Childhood, Governor's Office of	247,996	247,996	0
Economic Development, Cabinet for	7,634,353	0	7,634,353
Education Professional Standards Board	427,730	122,520	305,210
Energy Development and Independence, Department for	2,265,142	0	2,265,142
Fish and Wildlife Resources, Department of	2,569,823	2,037,134	532,689
Horse Racing Commission	478,313	0	478,313
Public Health, Department for	2,150,300	0	2,150,300
State Nature Preserves Commission	38,000	38,000	0
Louisiana	18,143,396	7,295,467	10,847,929
Coastal Protection and Restoration Authority	8,620,668	600,000	8,020,668
Transportation and Development, Department of	6,975,472	5,469,720	1,505,752
Wildlife and Fisheries, Department of	2,547,256	1,225,747	1,321,509
Maine	7,094,736	1,167,751	5,926,985
Agriculture, Conservation and Forestry, Department of	380,000	120,000	260,000
Drug Enforcement Agency	75,000	0	75,000
Environmental Protection, Department of	205,000	0	205,000
Inland Fisheries and Wildlife, Department of	27,000	27,000	0
Marine Resources, Department of	824,751	824,751	0
Technology Institute	5,228,522	0	5,228,522
Transportation, Department of	354,463	196,000	158,463
Maryland	21,890,225	1,888,327	20,001,898
Business and Economic Development, Department of	1,650,500	0	1,650,500
Health and Mental Hygiene, Department of	2,400,000	0	2,400,000
Natural Resources, Department of	763,777	345,838	417,939
Technology Development Corporation	15,147,837	0	15,147,837
Transportation, Department of	1,928,111	1,542,489	385,622
Massachusetts	3,918,500	1,328,828	2,589,672
Environmental Protection, Department of	236,527	18,054	218,473
Fish and Game, Department of	691,602	209,852	481,750
Mental Health, Department of	1,889,449	0	1,889,449
Public Health, Department of	1,100,922	1,100,922	0
Michigan	12,557,954	8,187,688	4,370,266
Agriculture and Rural Development, Department of	437,895	252,800	185,095
Natural Resources, Department of	3,220,059	1,534,888	1,685,171
Transportation, Department of	8,900,000	6,400,000	2,500,000
Minnesota	11,524,686	3,718,840	7,805,846
Agriculture, Department of	3,907,984	528,000	3,379,984
Forest Resources Council	45,273	0	45,273
Pollution Control Agency	63,177	0	63,177
Transportation, Department of	7,508,252	3,190,840	4,317,412
Mississippi	6,260,080	5,174,275	1,085,805
Transportation, Department of	4,801,812	4,080,574	721,238
Wildlife, Fisheries, and Parks, Department of	1,458,268	1,093,701	364,567
Missouri	13,041,450	3,702,943	9,338,507
Agriculture, Department of	349,210	0	349,210
Conservation, Department of	8,795,535	58,514	8,737,021
Natural Resources, Department of	706,697	644,639	62,058
Transportation, Department of	3,190,008	2,999,790	190,218

TABLE 18. State agency expenditures for R&D for all performers, by state, department or agency, and source of funds: FY 2012
(Dollars)

Department or agency	Total	Federal government	State and all others[a]
Montana	6,841,897	2,907,039	3,934,858
Agriculture, Department of	2,015,402	203,468	1,811,934
Commerce, Department of	87,163	0	87,163
Environmental Quality, Department of	33,472	13,247	20,225
Fish, Wildlife and Parks	1,757,432	1,256,577	500,855
Natural Resources and Conservation, Department of	1,327,228	0	1,327,228
Transportation, Department of	1,621,200	1,433,747	187,453
Nebraska	6,367,304	1,900,163	4,467,141
Agriculture, Department of	387,118	268,719	118,399
Corn Board	267,123	0	267,123
Dry Bean Commission	150,089	0	150,089
Economic Development, Department of	1,893,383	0	1,893,383
Grain Sorghum Board	15,000	0	15,000
Natural Resources, Department of	1,701,779	0	1,701,779
Roads, Department of	1,631,444	1,631,444	0
Wheat Board	321,368	0	321,368
Nevada	1,166,762	469,512	697,250
Transportation, Department of	1,119,857	452,160	667,697
Wildlife, Department of	46,905	17,352	29,553
New Hampshire	2,241,149	1,302,649	938,500
Agriculture, Markets and Food, Department of	100,066	37,881	62,185
Resources and Economic Development, Department of	761,000	77,000	684,000
Transportation, Department of	1,380,083	1,187,768	192,315
New Jersey	17,818,258	3,628,894	14,189,364
Brain Injury Research, Commission on	3,856,178	0	3,856,178
Cancer Research, Commission on	1,118,015	0	1,118,015
Environmental Protection, Department of	2,742,767	272,916	2,469,851
Medical Research and Treatment of Autism, Governor's Council for	3,930,000	0	3,930,000
Spinal Cord Research, Commission on	2,395,107	0	2,395,107
Transportation, Department of	3,776,191	3,355,978	420,213
New Mexico	1,793,561	1,434,849	358,712
Transportation, Department of	1,793,561	1,434,849	358,712
New York	171,841,187	47,591,963	124,249,224
Agriculture and Markets, Department of	4,166,404	4,096,404	70,000
Empire State Development	29,975,639	872,520	29,103,119
Energy Research and Development Authority	49,967,821	0	49,967,821
Environmental Conservation, Department of	7,342,873	3,878,398	3,464,475
Health, Department of	66,731,547	35,288,047	31,443,500
State Museum	9,911,688	460,422	9,451,266
Transportation, Department of	3,745,215	2,996,172	749,043
North Carolina	32,529,885	7,904,917	24,624,968
Agriculture and Consumer Services, Department of	17,944,847	0	17,944,847
Environment and Natural Resources, Department of	5,319,038	915,117	4,403,921
Transportation, Department of	9,266,000	6,989,800	2,276,200
North Dakota	6,034,991	540,086	5,494,905
Agriculture, Department of	137,903	0	137,903
Lignite Research Council	560,634	0	560,634
Mineral Resources, Department of	50,000	0	50,000
Oil and Gas Program	860,219	0	860,219
Renewable Energy Research Program	1,472,482	0	1,472,482
Soybean Council	904,207	0	904,207
Transportation, Department of	569,931	540,086	29,845
Wheat Commission	1,479,615	0	1,479,615

TABLE 18. State agency expenditures for R&D for all performers, by state, department or agency, and source of funds: FY 2012
(Dollars)

Department or agency	Total	Federal government	State and all others[a]
Ohio	153,382,845	6,415,795	146,967,050
Development Services Agency	143,949,463	0	143,949,463
Mental Health and Addiction Services, Department of	420,000	0	420,000
Natural Resources, Department of	4,952,239	3,404,558	1,547,681
Transportation, Department of	4,061,143	3,011,237	1,049,906
Oklahoma	23,133,843	5,283,506	17,850,337
Advancement of Science and Technology, Center for the	10,090,791	0	10,090,791
Agriculture, Food, and Forestry, Department of	1,008,868	126,473	882,395
Grand River Dam Authority	100,000	0	100,000
Health, State Department of	829,825	813,425	16,400
Sorghum Commission	12,500	0	12,500
Tobacco Settlement Endowment Trust	6,051,216	0	6,051,216
Transportation, Department of	2,721,721	2,721,721	0
Wheat Commission	200,860	33,340	167,520
Wildlife Conservation, Department of	2,118,062	1,588,547	529,515
Oregon	22,003,035	17,582,132	4,420,903
Agriculture, Department of	239,145	2,458	236,687
Fish and Wildlife, Department of	13,732,500	12,953,000	779,500
Forestry, Department of	325,868	6,229	319,639
Geology and Mineral Industries, Department of	3,995,911	1,827,541	2,168,370
Transportation, Department of	2,004,957	1,875,042	129,915
Watershed Enhancement Board	1,704,654	917,862	786,792
Pennsylvania	80,600,099	6,442,990	74,157,109
Agriculture, Department of	708,000	0	708,000
Community and Economic Development, Department of	13,876,129	230,226	13,645,903
Conservation and Natural Resources, Department of	752,315	185,230	567,085
Environmental Protection, Department of	2,135,435	1,149,157	986,278
Fish and Boat Commission	895,025	617,662	277,363
Game Commission	4,406,340	1,173,783	3,232,557
Health, Department of	54,088,921	0	54,088,921
Transportation, Department of	3,737,934	3,086,932	651,002
Rhode Island	2,028,402	487,305	1,541,097
Commerce Corporation	1,419,271	0	1,419,271
Transportation, Department of	609,131	487,305	121,826
South Carolina	72,467,293	59,056,716	13,410,577
Agriculture, Department of	402,388	0	402,388
Mental Health, Department of	189,334	0	189,334
Natural Resources, Department of	44,211,153	33,413,312	10,797,841
Research Authority	24,069,114	22,621,826	1,447,288
Sea Grant Consortium	1,826,972	1,519,965	307,007
Transportation, Department of	1,768,332	1,501,613	266,719
South Dakota	3,447,633	2,618,318	829,315
Agriculture, Department of	75,000	0	75,000
Game, Fish and Parks	1,894,989	1,558,097	336,892
Transportation, Department of	1,477,644	1,060,221	417,423
Tennessee	4,293,334	3,594,115	699,219
Environment and Conservation, Division of Archaeology, Department of	61,313	36,788	24,525
Environment and Conservation, Division of Remediation, Department of	681,000	681,000	0
Environment and Conservation, Division of Water Resources, Department of	175,000	175,000	0
Geological Survey	6,553	6,553	0
Transportation, Department of	3,369,468	2,694,774	674,694
Texas	146,989,380	20,949,356	126,040,024
Agriculture, Department of	2,147,725	209,367	1,938,358
Cancer Prevention and Research Institute	115,488,847	0	115,488,847
Environmental Quality, Commission on	1,000,000	0	1,000,000

TABLE 18. State agency expenditures for R&D for all performers, by state, department or agency, and source of funds: FY 2012
(Dollars)

Department or agency	Total	Federal government	State and all others[a]
Health and Human Services Commission	160,000	136,000	24,000
Parks and Wildlife Department	3,111,887	2,267,908	843,979
Transportation, Department of	22,715,697	18,336,081	4,379,616
Water Development Board	2,365,224	0	2,365,224
Utah	47,388,335	21,153,987	26,234,348
Health, Department of	274,475	274,475	0
Natural Resources, Department of	16,400,000	0	16,400,000
Science Technology and Research Initiative, Governor's Office of Economic Development	28,683,860	19,239,512	9,444,348
Transportation, Department of	2,030,000	1,640,000	390,000
Vermont	1,653,315	1,121,698	531,617
Agriculture, Food, and Markets, Agency of	671,077	300,000	371,077
Human Services, Agency of	160,853	160,853	0
Natural Resources, Agency of	115,469	88,300	27,169
Transportation, Agency of	705,916	572,545	133,371
Virginia	24,379,497	9,710,044	14,669,453
Agriculture and Consumer Services, Department of	1,552,434	154,158	1,398,276
Consolidated Laboratory Services, Division of	303,000	91,000	212,000
Corrections, Department of	1,085,144	0	1,085,144
Forensic Science, Department of	159,944	5,944	154,000
Innovative Technology, Center for	6,590,000	560,000	6,030,000
Marine Resources Commission	2,769,016	2,237,668	531,348
Mines, Minerals and Energy, Department of	1,446,394	771,563	674,831
Natural History, Museum of	559,119	1,614	557,505
Transportation, Department of	9,914,446	5,888,097	4,026,349
Washington	49,553,326	8,462,965	41,090,361
Agriculture, Department of	446,409	79,143	367,266
Archaeology and Historic Preservation, Department of	234,565	234,565	0
Ecology, Department of	332,220	22,000	310,220
Fish and Wildlife, Department of	5,005,913	2,566,271	2,439,642
Grain Commission	2,540,857	0	2,540,857
Labor and Industries, Department of	2,811,637	921,767	1,889,870
Life Sciences Discovery Fund	22,801,588	0	22,801,588
Natural Resources, Department of	5,247,161	278,500	4,968,661
Potato Commission	986,084	0	986,084
Puget Sound Partnership	282,647	138,248	144,399
Red Raspberry Commission	123,033	0	123,033
Transportation, Department of	4,893,607	4,222,471	671,136
Tree Fruit Research Commission	3,675,000	0	3,675,000
Wine Commission	172,605	0	172,605
West Virginia	33,580,156	8,139,084	25,441,072
Agriculture, Department of	206,137	206,137	0
Geological and Economic Survey	2,258,374	758,648	1,499,726
Higher Education Policy Commission	28,585,672	5,271,444	23,314,228
Justice and Community Services, Division of	11,973	2,855	9,118
Transportation, Department of	2,518,000	1,900,000	618,000
Wisconsin	17,861,390	9,632,605	8,228,785
Agriculture, Trade and Consumer Protection, Department of	864,399	44,302	820,097
Economic Development Corporation	3,781,450	0	3,781,450
Natural Resources, Department of	9,081,222	5,925,980	3,155,242
Transportation, Department of	4,134,319	3,662,323	471,996
Wyoming	6,879,286	1,345,319	5,533,967
Agriculture, Department of	293,909	8,724	285,185
Environmental Quality, Department of	100,000	0	100,000
Game and Fish Department	1,730,051	326,894	1,403,157

TABLE 18. State agency expenditures for R&D for all performers, by state, department or agency, and source of funds: FY 2012
(Dollars)

Department or agency	Total	Federal government	State and all others[a]
State Geological Survey	2,482,744	48,131	2,434,613
Transportation, Department of	1,872,582	961,570	911,012
Water Development Commission	400,000	0	400,000
Puerto Rico[c]	7,625,412	4,070,151	3,555,261
Agriculture, Department of	507,174	316,050	191,124
Health, Department of	3,122,975	2,276,005	846,970
Hospital San Juan[d, e]	1,933,258	966,629	966,629
Mental Health and Anti-Addiction Services Administration[d]	404,675	404,675	0
Highways and Transportation Authority	200,000	0	200,000
Institute of Statistics	11,774	0	11,774
Manufacturing Extension, Incorporated[d]	380,860	106,792	274,068
Science, Technology and Research Trust	1,064,696	0	1,064,696

[a] State and all others includes primarily other state governments and city, county, regional, township, or other local governments; it also includes nonprofit organizations and companies.

[b] U.S. total reflects all 50 states and the District of Columbia.

[c] Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

[d] Data are provided as imputed by the Puerto Rico Institute of Statistics.

[e] Operated by the San Juan municipal government.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FYs 2012 and 2013.

TABLE 19. State agency expenditures for R&D for all performers, by state, department or agency, and source of funds: FY 2013
(Dollars)

Department or agency	Total	Federal government	State and all others[a]
United States[b]	1,785,039,276	416,091,724	1,368,947,552
Alabama	13,292,741	6,682,218	6,610,523
Conservation and Natural Resources, Department of	2,307,054	1,846,841	460,213
Forensic Sciences, Department of	144,180	0	144,180
Geological Survey	3,196,187	1,391,883	1,804,304
Marine Environmental Science Consortium	4,991,024	1,222,057	3,768,967
Transportation, Department of	2,654,296	2,221,437	432,859
Alaska	6,689,384	395,154	6,294,230
Natural Resources, Department of	6,213,471	0	6,213,471
Transportation and Public Facilities, Department of	475,913	395,154	80,759
Arizona	27,810,970	14,307,201	13,503,769
Agriculture, Department of	668,045	565,548	102,497
Game and Fish Department	4,089,754	3,350,124	739,630
Geological Survey	9,538,303	8,612,629	925,674
Health Services, Department of	11,203,068	0	11,203,068
Transportation, Department of	2,311,800	1,778,900	532,900
Arkansas	16,518,947	8,588,120	7,930,827
Beef Council	18,730	0	18,730
Catfish Promotion Board	22,500	0	22,500
Corn and Grain Sorghum Board	805,000	0	805,000
Game and Fish Commission	891,397	891,397	0
Rice Research and Promotion Board	2,594,500	2,594,500	0
Science and Technology Authority	6,596,697	3,686,880	2,909,817
Soybean Promotion Board	3,412,674	0	3,412,674
State Highway and Transportation Department	1,915,324	1,415,343	499,981
Wheat Promotion Board	262,125	0	262,125
California	346,942,036	20,235,896	326,706,140
Air Resources Board	18,727,946	0	18,727,946
Children and Families Commission	750,000	0	750,000
Energy Commission	55,396,000	600,000	54,796,000
Environmental Health Hazard Assessment, Office of	12,737,703	0	12,737,703
Food and Agriculture, Department of	2,284,113	97,925	2,186,188
Forestry and Fire Protection, Department of	1,672,942	650,000	1,022,942
Institute for Regenerative Medicine	197,108,479	0	197,108,479
Motor Vehicles, Department of	1,554,440	780,507	773,933
Pesticide Regulation, Department of	7,822,000	72,000	7,750,000
Public Health, Genetic Disease, Department of	1,171,920	1,074,000	97,920
Public Health, Science and Education, Department of	800,000	50,000	750,000
Resources Recycling and Recovery, Department of	3,232,556	0	3,232,556
Social Services, Department of	1,059,872	1,033,464	26,408
Seismic Safety Commission	245,900	0	245,900
Sierra Nevada Conservancy	47,711	0	47,711
State Coastal Conservancy	1,638,868	0	1,638,868
State Hospitals, Department of	350,000	0	350,000
State Water Resources Control Board	1,400,000	0	1,400,000
Statewide Health Planning and Development, Office of	175,000	0	175,000
Transportation, Department of	35,038,000	15,778,000	19,260,000
Water Resources, Department of	3,728,586	100,000	3,628,586
Colorado	14,471,683	6,017,553	8,454,130
Economic Development and International Trade, Office of	3,107,542	0	3,107,542
Natural Resources, Department of	6,576,449	2,120,195	4,456,254
Public Health and Environment, Department of	1,459,114	1,459,114	0
Public Safety, Department of	989,741	239,741	750,000
Transportation, Department of	2,338,837	2,198,503	140,334

TABLE 19. State agency expenditures for R&D for all performers, by state, department or agency, and source of funds: FY 2013
(Dollars)

Department or agency	Total	Federal government	State and all others[a]
Connecticut	41,023,368	13,751,916	27,271,452
Agricultural Experiment Station	11,176,787	3,697,665	7,479,122
Energy and Environmental Protection, Department of	9,228,915	5,850,777	3,378,138
Mental Health and Addiction Services, Department of	4,895,486	1,328,474	3,567,012
Public Health, Department of	11,622,180	0	11,622,180
Transportation, Department of	4,100,000	2,875,000	1,225,000
Delaware	4,729,141	1,684,136	3,045,005
Geological Survey	1,784,107	227,421	1,556,686
Natural Resources and Environmental Control, Department of	970,438	423,495	546,943
Transportation, Department of	1,974,596	1,033,220	941,376
District of Columbia	1,848,800	1,467,091	381,709
Health, Department of	861,058	861,058	0
Transportation, Department of	987,742	606,033	381,709
Florida	118,781,266	25,537,040	93,244,226
Agriculture and Consumer Services, Department of	17,069,604	6,765,745	10,303,859
Citrus, Department of	5,843,133	24,995	5,818,138
Environmental Protection, Department of	3,068,175	249,464	2,818,711
Fish and Wildlife Conservation Commission	43,977,133	12,207,431	31,769,702
Health, Department of	38,382,971	0	38,382,971
Space Florida	1,160,380	0	1,160,380
Transportation, Department of	9,279,870	6,289,405	2,990,465
Georgia	12,697,846	10,454,723	2,243,123
Natural Resources, Department of	3,999,505	3,076,321	923,184
Transportation, Department of	8,698,341	7,378,402	1,319,939
Hawaii	13,094,794	9,594,181	3,500,613
Agriculture, Department of	1,516,064	1,266,064	250,000
Business, Economic Development, and Tourism, Department of	5,674,072	5,674,072	0
Health, Department of	190,000	130,000	60,000
Land and Natural Resources, Department of	4,484,602	1,997,840	2,486,762
Transportation, Department of	1,230,056	526,205	703,851
Idaho	12,929,174	7,971,555	4,957,619
Barley Commission	141,838	0	141,838
Bean Commission	106,035	55,732	50,303
Fish and Game, Department of	7,409,032	5,985,423	1,423,609
Potato Commission	1,332,536	350,000	982,536
Transportation Department	1,929,300	1,580,400	348,900
Water Resources, Department of	810,433	0	810,433
Wheat Commission	1,200,000	0	1,200,000
Illinois	17,999,229	6,176,896	11,822,333
Children and Family Services, Department of	7,748,399	765,655	6,982,744
Commerce and Economic Opportunity, Department of	225,000	0	225,000
Public Health, Department of	1,306,747	0	1,306,747
Transportation, Department of	8,719,083	5,411,241	3,307,842
Indiana	10,167,120	7,252,510	2,914,610
Criminal Justice Institute	360,000	360,000	0
Economic Development Corporation	1,763,216	671,287	1,091,929
Natural Resources, Department of	270,500	2,500	268,000
Transportation, Department of	7,773,404	6,218,723	1,554,681
Iowa	19,365,308	3,960,205	15,405,103
Economic Development Authority, Energy Office	6,340,014	0	6,340,014
Human Rights, Criminal and Juvenile Justice Planning, Division of	22,484	6,678	15,806
Natural Resources, Department of	3,517,000	0	3,517,000
Transportation, Department of	9,485,810	3,953,527	5,532,283

TABLE 19. State agency expenditures for R&D for all performers, by state, department or agency, and source of funds: FY 2013
(Dollars)

Department or agency	Total	Federal government	State and all others[a]
Kansas	5,708,223	2,983,235	2,724,988
Transportation, Department of	4,724,025	2,983,235	1,740,790
Wheat Commission	984,198	0	984,198
Kentucky	19,751,055	4,316,909	15,434,146
Budget and Fiscal Management, Office of	2,714,500	2,364,500	350,000
Early Childhood, Governor's Office of	228,618	0	228,618
Economic Development, Cabinet for	8,044,646	0	8,044,646
Education Professional Standards Board	401,544	142,960	258,584
Energy Development and Independence, Department for	3,294,541	0	3,294,541
Fish and Wildlife Resources, Department of	2,615,188	1,784,449	830,739
Horse Racing Commission	312,518	0	312,518
Public Health, Department for	2,111,500	0	2,111,500
State Nature Preserves Commission	28,000	25,000	3,000
Louisiana	15,713,110	7,412,982	8,300,128
Coastal Protection and Restoration Authority	5,731,257	600,000	5,131,257
Transportation and Development, Department of	6,965,116	5,410,704	1,554,412
Wildlife and Fisheries, Department of	3,016,737	1,402,278	1,614,459
Maine	6,109,793	1,158,805	4,950,988
Agriculture, Conservation and Forestry, Department of	460,000	200,000	260,000
Drug Enforcement Agency	30,000	0	30,000
Environmental Protection, Department of	235,000	0	235,000
Inland Fisheries and Wildlife, Department of	159,834	159,834	0
Marine Resources, Department of	431,240	408,971	22,269
Technology Institute	4,272,275	0	4,272,275
Transportation, Department of	521,444	390,000	131,444
Maryland	29,467,445	1,944,190	27,523,255
Business and Economic Development, Department of	1,647,108	0	1,647,108
Health and Mental Hygiene, Department of	5,800,000	0	5,800,000
Natural Resources, Department of	832,243	521,726	310,517
Technology Development Corporation	19,410,014	0	19,410,014
Transportation, Department of	1,778,080	1,422,464	355,616
Massachusetts	4,590,424	1,803,176	2,787,248
Environmental Protection, Department of	246,613	15,990	230,623
Fish and Game, Department of	784,707	170,632	614,075
Mental Health, Department of	1,892,550	0	1,892,550
Public Health, Department of	1,666,554	1,616,554	50,000
Michigan	12,830,423	8,454,896	4,375,527
Agriculture and Rural Development, Department of	513,396	302,900	210,496
Environmental Quality, Department of	45,745	0	45,745
Natural Resources, Department of	4,571,282	2,851,996	1,719,286
Transportation, Department of	7,700,000	5,300,000	2,400,000
Minnesota	14,855,954	3,652,840	11,203,114
Agriculture, Department of	2,526,558	462,000	2,064,558
Forest Resources Council	51,831	0	51,831
Pollution Control Agency	979,973	0	979,973
Transportation, Department of	11,297,592	3,190,840	8,106,752
Mississippi	4,863,312	3,937,121	926,191
Transportation, Department of	3,300,936	2,765,339	535,597
Wildlife, Fisheries, and Parks, Department of	1,562,376	1,171,782	390,594
Missouri	13,051,110	3,521,812	9,529,298
Agriculture, Department of	381,475	0	381,475
Conservation, Department of	9,030,901	43,080	8,987,821
Natural Resources, Department of	266,597	248,693	17,904
Transportation, Department of	3,372,137	3,230,039	142,098

TABLE 19. State agency expenditures for R&D for all performers, by state, department or agency, and source of funds: FY 2013
(Dollars)

Department or agency	Total	Federal government	State and all others[a]
Montana	6,570,018	3,463,568	3,106,450
Agriculture, Department of	1,929,948	112,742	1,817,206
Environmental Quality, Department of	237,328	182,931	54,397
Fish, Wildlife and Parks	2,160,798	1,342,102	818,696
Natural Resources and Conservation, Department of	140,945	0	140,945
Transportation, Department of	2,100,999	1,825,793	275,206
Nebraska	7,274,333	1,973,878	5,300,455
Agriculture, Department of	388,885	267,675	121,210
Corn Board	468,089	0	468,089
Dry Bean Commission	178,386	0	178,386
Economic Development, Department of	2,317,862	0	2,317,862
Grain Sorghum Board	15,000	0	15,000
Natural Resources, Department of	1,894,916	0	1,894,916
Roads, Department of	1,706,203	1,706,203	0
Wheat Board	304,992	0	304,992
Nevada	1,640,871	1,001,898	638,973
Transportation, Department of	1,595,463	983,367	612,096
Wildlife, Department of	45,408	18,531	26,877
New Hampshire	1,788,396	1,071,409	716,987
Agriculture, Markets and Food, Department of	121,435	28,981	92,454
Resources and Economic Development, Department of	440,000	56,000	384,000
Transportation, Department of	1,226,961	986,428	240,533
New Jersey	22,413,516	3,989,987	18,423,529
Brain Injury Research, Commission on	3,924,029	0	3,924,029
Cancer Research, Commission on	1,345,672	0	1,345,672
Environmental Protection, Department of	2,929,505	221,300	2,708,205
Medical Research and Treatment of Autism, Governor's Council for	6,883,804	0	6,883,804
Spinal Cord Research, Commission on	3,082,046	0	3,082,046
Transportation, Department of	4,248,460	3,768,687	479,773
New Mexico	2,015,961	1,592,483	423,478
State Engineer, Office of the	96,182	56,660	39,522
Transportation, Department of	1,919,779	1,535,823	383,956
New York	177,063,220	44,687,735	132,375,485
Agriculture and Markets, Department of	3,872,277	3,762,277	110,000
Empire State Development	46,870,153	1,573,933	45,296,220
Energy Research and Development Authority	40,614,938	0	40,614,938
Environmental Conservation, Department of	7,148,310	3,856,948	3,291,362
Health, Department of	64,264,233	31,673,060	32,591,173
State Museum	10,096,183	463,816	9,632,367
Transportation, Department of	4,197,126	3,357,701	839,425
North Carolina	30,649,974	6,075,886	24,574,088
Agriculture and Consumer Services, Department of	17,947,847	0	17,947,847
Environment and Natural Resources, Department of	5,382,127	859,286	4,522,841
Transportation, Department of	7,320,000	5,216,600	2,103,400
North Dakota	7,364,184	564,878	6,799,306
Agriculture, Department of	82,238	0	82,238
Lignite Research Council	2,145,106	0	2,145,106
Mineral Resources, Department of	65,000	0	65,000
Oil and Gas Program	1,447,730	0	1,447,730
Renewable Energy Research Program	645,926	0	645,926
Soybean Council	1,056,806	0	1,056,806
Transportation, Department of	584,875	564,878	19,997
Wheat Commission	1,336,503	0	1,336,503

TABLE 19. State agency expenditures for R&D for all performers, by state, department or agency, and source of funds: FY 2013
(Dollars)

Department or agency	Total	Federal government	State and all others[a]
Ohio	188,311,926	10,584,324	177,727,602
Development Services Agency	173,959,505	0	173,959,505
Mental Health and Addiction Services, Department of	320,000	0	320,000
Natural Resources, Department of	5,734,274	4,214,688	1,519,586
Transportation, Department of	8,298,147	6,369,636	1,928,511
Oklahoma	28,224,758	8,289,178	19,935,580
Advancement of Science and Technology, Center for the	8,795,761	0	8,795,761
Agriculture, Food, and Forestry, Department of	1,008,868	126,473	882,395
Grand River Dam Authority	100,000	0	100,000
Health, State Department of	834,153	818,425	15,728
Sorghum Commission	25,000	0	25,000
Tobacco Settlement Endowment Trust	8,271,695	0	8,271,695
Transportation, Department of	4,026,505	4,026,505	0
Wheat Commission	799,650	45,430	754,220
Wildlife Conservation, Department of	4,363,126	3,272,345	1,090,781
Oregon	23,083,506	16,942,402	6,141,104
Agriculture, Department of	330,243	2,500	327,743
Fish and Wildlife, Department of	14,034,000	12,701,000	1,333,000
Forestry, Department of	753,417	11,460	741,957
Geology and Mineral Industries, Department of	5,221,905	2,046,372	3,175,533
Transportation, Department of	2,639,702	2,111,762	527,940
Watershed Enhancement Board	104,239	69,308	34,931
Pennsylvania	66,429,400	6,002,259	60,427,141
Agriculture, Department of	786,545	0	786,545
Community and Economic Development, Department of	11,281,404	352,255	10,929,149
Conservation and Natural Resources, Department of	616,084	166,407	449,677
Environmental Protection, Department of	3,709,611	1,087,691	2,621,920
Fish and Boat Commission	737,805	537,410	200,395
Game Commission	4,762,801	808,921	3,953,880
Health, Department of	40,892,467	0	40,892,467
Transportation, Department of	3,642,683	3,049,575	593,108
Rhode Island	1,640,778	664,190	976,588
Commerce Corporation	810,541	0	810,541
Transportation, Department of	830,237	664,190	166,047
South Carolina	47,732,177	33,931,311	13,800,866
Agriculture, Department of	158,505	0	158,505
Mental Health, Department of	189,334	0	189,334
Natural Resources, Department of	35,068,126	23,899,148	11,168,978
Research Authority	9,055,708	7,371,579	1,684,129
Sea Grant Consortium	1,318,003	1,011,072	306,931
Transportation, Department of	1,942,501	1,649,512	292,989
South Dakota	3,660,854	2,840,315	820,539
Agriculture, Department of	75,000	0	75,000
Game, Fish and Parks	1,774,517	1,526,310	248,207
Transportation, Department of	1,811,337	1,314,005	497,332
Tennessee	3,430,476	2,906,011	524,465
Environment and Conservation, Division of Archaeology, Department of	58,348	35,009	23,339
Environment and Conservation, Division of Remediation, Department of	706,500	706,500	0
Environment and Conservation, Division of Water Resources, Department of	160,000	160,000	0
Geological Survey	0	0	0
Transportation, Department of	2,505,628	2,004,502	501,126
Texas	185,199,541	20,382,696	164,816,845
Agriculture, Department of	1,695,975	763,435	932,540
Cancer Prevention and Research Institute	154,841,396	0	154,841,396
Environmental Quality, Commission on	1,000,000	0	1,000,000

TABLE 19. State agency expenditures for R&D for all performers, by state, department or agency, and source of funds: FY 2013
(Dollars)

Department or agency	Total	Federal government	State and all others[a]
Health and Human Services Commission	175,000	148,750	26,250
Parks and Wildlife Department	3,964,934	2,757,868	1,207,066
Transportation, Department of	20,671,237	16,712,643	3,958,594
Water Development Board	2,850,999	0	2,850,999
Utah	53,636,842	25,727,343	27,909,499
Health, Department of	79,931	79,931	0
Natural Resources, Department of	16,900,000	0	16,900,000
Science Technology and Research Initiative, Governor's Office of Economic Development	34,226,911	23,717,412	10,509,499
Transportation, Department of	2,430,000	1,930,000	500,000
Vermont	1,827,562	1,240,063	587,499
Agriculture, Food, and Markets, Agency of	717,564	300,000	417,564
Human Services, Agency of	170,780	170,780	0
Natural Resources, Agency of	102,379	78,050	24,329
Transportation, Agency of	836,839	691,233	145,606
Virginia	25,917,935	8,149,554	17,768,381
Agriculture and Consumer Services, Department of	1,569,509	15,123	1,554,386
Consolidated Laboratory Services, Division of	118,000	69,000	49,000
Corrections, Department of	1,038,630	0	1,038,630
Forensic Science, Department of	143,396	396	143,000
Innovative Technology, Center for	3,320,000	60,000	3,260,000
Marine Resources Commission	2,655,774	1,896,816	758,958
Mines, Minerals and Energy, Department of	2,307,537	1,221,036	1,086,501
Natural History, Museum of	666,462	0	666,462
Transportation, Department of	14,098,627	4,887,183	9,211,444
Washington	47,122,876	8,292,342	38,830,534
Agriculture, Department of	464,626	286,586	178,040
Archaeology and Historic Preservation, Department of	372,376	372,376	0
Ecology, Department of	515,663	22,000	493,663
Fish and Wildlife, Department of	5,245,951	2,571,750	2,674,201
Grain Commission	2,821,984	0	2,821,984
Labor and Industries, Department of	2,998,176	1,003,585	1,994,591
Life Sciences Discovery Fund	19,586,521	0	19,586,521
Natural Resources, Department of	5,054,857	243,775	4,811,082
Potato Commission	986,084	0	986,084
Puget Sound Partnership	238,659	116,255	122,404
Red Raspberry Commission	164,600	0	164,600
Transportation, Department of	4,257,879	3,676,015	581,864
Tree Fruit Research Commission	4,025,000	0	4,025,000
Wine Commission	390,500	0	390,500
West Virginia	19,027,684	7,256,479	11,771,205
Agriculture, Department of	93,033	93,033	0
Geological and Economic Survey	2,904,573	1,076,881	1,827,692
Higher Education Policy Commission	13,289,192	3,993,730	9,295,462
Justice and Community Services, Division of	11,886	2,835	9,051
Transportation, Department of	2,729,000	2,090,000	639,000
Wisconsin	21,212,446	13,741,242	7,471,204
Agriculture, Trade and Consumer Protection, Department of	640,941	51,311	589,630
Economic Development Corporation	7,462,000	4,420,000	3,042,000
Natural Resources, Department of	8,894,211	5,470,153	3,424,058
Transportation, Department of	4,215,294	3,799,778	415,516
Wyoming	6,497,386	1,457,932	5,039,454
Agriculture, Department of	252,098	56,186	195,912
Environmental Quality, Department of	100,000	0	100,000
Game and Fish Department	1,881,499	331,870	1,549,629

TABLE 19. State agency expenditures for R&D for all performers, by state, department or agency, and source of funds: FY 2013
(Dollars)

Department or agency	Total	Federal government	State and all others[a]
State Geological Survey	2,225,936	95,478	2,130,458
Transportation, Department of	1,637,853	974,398	663,455
Water Development Commission	400,000	0	400,000
Puerto Rico[c]	7,949,965	3,931,918	4,018,047
Agriculture, Department of	649,048	457,924	191,124
Education Council	565,621	0	565,621
Health, Department of	2,705,482	1,992,666	712,816
Highways and Transportation Authority	200,000	0	200,000
Hospital San Juan[d, e]	1,962,118	981,059	981,059
Institute of Statistics	37,601	0	37,601
Manufacturing Extension, Incorporated[d]	319,379	89,553	229,826
Mental Health and Anti-Addiction Services Administration[d]	410,716	410,716	0
Science, Technology and Research Trust	1,100,000	0	1,100,000

[a] State and all others includes primarily other state governments and city, county, regional, township, or other local governments; it also includes nonprofit organizations and companies.

[b] U.S. total reflects all 50 states and the District of Columbia.

[c] Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

[d] Data are provided as imputed by the Puerto Rico Institute of Statistics.

[e] Operated by the San Juan municipal government.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FYs 2012 and 2013.

TABLE 20. State agency expenditures for R&D for intramural performers, by state, department or agency, and source of funds: FY 2012
(Dollars)

Department or agency	Total	Federal government	State	Other[a]
United States[b]	470,517,395	202,913,678	230,233,077	37,370,640
Alabama	8,612,718	5,140,528	1,954,202	1,517,988
Conservation and Natural Resources, Department of	1,118,905	911,872	207,033	0
Forensic Sciences, Department of	336,920	0	336,920	0
Geological Survey	2,588,932	1,194,261	1,061,542	333,129
Marine Environmental Science Consortium	4,567,961	3,034,395	348,707	1,184,859
Transportation, Department of	0	0	0	0
Alaska	5,346,296	1,096,722	4,108,526	141,048
Natural Resources, Department of	5,240,762	1,000,718	4,098,996	141,048
Transportation and Public Facilities, Department of	105,534	96,004	9,530	0
Arizona	13,303,829	10,639,826	2,190,203	473,800
Agriculture, Department of	0	0	0	0
Game and Fish Department	3,232,974	2,782,974	0	450,000
Geological Survey	7,333,195	6,813,352	519,843	0
Health Services, Department of	1,588,900	0	1,588,900	0
Transportation, Department of	1,148,760	1,043,500	81,460	23,800
Arkansas	3,006,648	1,972,971	1,033,677	0
Beef Council	0	0	0	0
Catfish Promotion Board	0	0	0	0
Corn and Grain Sorghum Board	0	0	0	0
Game and Fish Commission	568,314	568,314	0	0
Rice Research and Promotion Board	0	0	0	0
Science and Technology Authority	1,283,473	550,060	733,413	0
Soybean Promotion Board	0	0	0	0
State Highway and Transportation Department	1,154,861	854,597	300,264	0
Wheat Promotion Board	0	0	0	0
California	59,490,293	8,226,947	48,966,057	2,297,289
Air Resources Board	10,050,000	0	10,050,000	0
Children and Families Commission	0	0	0	0
Energy Commission	14,069,000	0	14,069,000	0
Environmental Health Hazard Assessment, Office of	12,430,573	0	10,149,624	2,280,949
Food and Agriculture, Department of	0	0	0	0
Forestry and Fire Protection, Department of	675,000	675,000	0	0
Institute for Regenerative Medicine	0	0	0	0
Motor Vehicles, Department of	1,437,293	907,810	526,143	3,340
Pesticide Regulation, Department of	5,395,000	0	5,395,000	0
Public Health, Genetic Disease, Department of	2,390,350	2,162,000	215,350	13,000
Public Health, Science and Education, Department of	800,000	50,000	750,000	0
Resources Recycling and Recovery, Department of	0	0	0	0
Seismic Safety Commission	0	0	0	0
Social Services, Department of	15,737	14,137	1,600	0
State Coastal Conservancy	0	0	0	0
State Hospitals, Department of	0	0	0	0
State Water Resources Control Board	0	0	0	0
Statewide Health Planning and Development, Office of	75,000	0	75,000	0
Transportation, Department of	10,997,000	4,418,000	6,579,000	0
Water Resources, Department of	1,155,340	0	1,155,340	0
Colorado	8,170,313	2,698,063	3,978,178	1,494,072
Economic Development and International Trade, Office of	0	0	0	0
Natural Resources, Department of	6,503,327	1,933,997	3,075,258	1,494,072
Public Health and Environment, Department of	0	0	0	0
Public Safety, Department of	902,386	152,386	750,000	0
Transportation, Department of	764,600	611,680	152,920	0
Connecticut	24,039,989	9,587,310	13,372,420	1,080,259
Agricultural Experiment Station	11,083,069	3,129,814	6,872,996	1,080,259

TABLE 20. State agency expenditures for R&D for intramural performers, by state, department or agency, and source of funds: FY 2012
(Dollars)

Department or agency	Total	Federal government	State	Other[a]
Energy and Environmental Protection, Department of	7,540,617	4,138,356	3,402,261	0
Mental Health and Addiction Services, Department of	3,327,278	1,391,140	1,936,138	0
Public Health, Department of	211,025	0	211,025	0
Transportation, Department of	1,878,000	928,000	950,000	0
Delaware	2,181,693	503,109	1,633,584	45,000
Geological Survey	1,392,201	216,794	1,175,407	0
Natural Resources and Environmental Control, Department of	789,492	286,315	458,177	45,000
Transportation, Department of	0	0	0	0
District of Columbia	354,612	312,687	41,925	0
Health, Department of	144,988	144,988	0	0
Transportation, Department of	209,624	167,699	41,925	0
Florida	48,910,954	16,143,563	30,371,167	2,396,224
Agriculture and Consumer Services, Department of	3,256,399	1,953,168	1,303,231	0
Citrus, Department of	256,182	0	256,182	0
Environmental Protection, Department of	2,369,670	311,875	2,057,795	0
Fish and Wildlife Conservation Commission	43,028,703	13,878,520	26,753,959	2,396,224
Health, Department of	0	0	0	0
Space Florida	0	0	0	0
Transportation, Department of	0	0	0	0
Georgia	4,145,859	1,154,156	491,044	2,500,659
Herty Advanced Materials Development Center	2,500,000	0	0	2,500,000
Natural Resources, Department of	1,645,859	1,154,156	491,044	659
Transportation, Department of	0	0	0	0
Hawaii	4,267,994	3,073,977	944,017	250,000
Agriculture, Department of	490,000	240,000	0	250,000
Business, Economic Development, and Tourism, Department of	460,590	460,590	0	0
Health, Department of	190,000	130,000	60,000	0
Land and Natural Resources, Department of	2,891,404	2,243,387	648,017	0
Transportation, Department of	236,000	0	236,000	0
Idaho	7,179,818	5,382,647	1,069,027	728,144
Barley Commission	35,486	0	0	35,486
Bean Commission	75,021	46,633	28,388	0
Environmental Quality, Department of	0	0	0	0
Fish and Game, Department of	6,460,259	4,918,962	848,639	692,658
Potato Commission	99,652	99,652	0	0
Transportation Department	209,400	167,400	42,000	0
Water Resources, Department of	300,000	150,000	150,000	0
Wheat Commission	0	0	0	0
Illinois	1,618,580	1,208,580	410,000	0
Children and Family Services, Department of	0	0	0	0
Commerce and Economic Opportunity, Department of	0	0	0	0
Public Health, Department of	0	0	0	0
Transportation, Department of	1,618,580	1,208,580	410,000	0
Indiana	870,605	770,605	100,000	0
Criminal Justice Institute	245,000	245,000	0	0
Economic Development Corporation	0	0	0	0
Natural Resources, Department of	0	0	0	0
Transportation, Department of	625,605	525,605	100,000	0
Iowa	4,376,976	85,100	4,286,876	5,000
Economic Development Authority, Energy Office	0	0	0	0
Human Rights, Criminal and Juvenile Justice Planning, Division of	22,475	12,106	5,369	5,000
Natural Resources, Department of	3,278,552	0	3,278,552	0
Transportation, Department of	1,075,949	72,994	1,002,955	0

TABLE 20. State agency expenditures for R&D for intramural performers, by state, department or agency, and source of funds: FY 2012
(Dollars)

Department or agency	Total	Federal government	State	Other[a]
Kansas	1,484,948	797,261	687,687	0
Transportation, Department of	1,484,948	797,261	687,687	0
Wheat Commission	0	0	0	0
Kentucky	2,893,270	1,785,044	1,108,226	0
Budget and Fiscal Management, Office of	350,000	0	350,000	0
Early Childhood, Governor's Office of	0	0	0	0
Economic Development, Cabinet for	0	0	0	0
Education Professional Standards Board	400,754	122,520	278,234	0
Energy Development and Independence, Department for	0	0	0	0
Fish and Wildlife Resources, Department of	2,104,516	1,624,524	479,992	0
Horse Racing Commission	0	0	0	0
Public Health, Department for	0	0	0	0
State Nature Preserves Commission	38,000	38,000	0	0
Louisiana	4,884,739	3,073,978	1,806,238	4,523
Coastal Protection and Restoration Authority	240,000	0	240,000	0
Transportation and Development, Department of	2,569,838	2,055,870	513,968	0
Wildlife and Fisheries, Department of	2,074,901	1,018,108	1,052,270	4,523
Maine	1,071,798	578,293	483,505	10,000
Agriculture, Conservation and Forestry, Department of	380,000	120,000	250,000	10,000
Drug Enforcement Agency	0	0	0	0
Environmental Protection, Department of	120,000	0	120,000	0
Inland Fisheries and Wildlife, Department of	0	0	0	0
Marine Resources, Department of	292,775	292,775	0	0
Technology Institute	0	0	0	0
Transportation, Department of	279,023	165,518	113,505	0
Maryland	513,661	255,161	258,500	0
Business and Economic Development, Department of	0	0	0	0
Health and Mental Hygiene, Department of	0	0	0	0
Natural Resources, Department of	323,661	103,161	220,500	0
Technology Development Corporation	0	0	0	0
Transportation, Department of	190,000	152,000	38,000	0
Massachusetts	917,177	222,525	608,251	86,401
Environmental Protection, Department of	172,480	12,673	159,807	0
Fish and Game, Department of	603,883	209,852	307,630	86,401
Mental Health, Department of	140,814	0	140,814	0
Public Health, Department of	0	0	0	0
Michigan	2,277,811	377,940	1,882,202	17,669
Agriculture and Rural Development, Department of	0	0	0	0
Natural Resources, Department of	577,811	377,940	182,202	17,669
Transportation, Department of	1,700,000	0	1,700,000	0
Minnesota	1,471,472	685,200	333,873	452,399
Agriculture, Department of	813,000	528,000	285,000	0
Forest Resources Council	45,273	0	45,273	0
Pollution Control Agency	0	0	0	0
Transportation, Department of	613,199	157,200	3,600	452,399
Mississippi	1,890,566	1,338,116	552,450	0
Transportation, Department of	939,416	751,533	187,883	0
Wildlife, Fisheries, and Parks, Department of	951,150	586,583	364,567	0
Missouri	7,274,626	536,210	6,738,416	0
Agriculture, Department of	0	0	0	0
Conservation, Department of	6,544,654	58,514	6,486,140	0
Natural Resources, Department of	135,541	73,483	62,058	0
Transportation, Department of	594,431	404,213	190,218	0

TABLE 20. State agency expenditures for R&D for intramural performers, by state, department or agency, and source of funds: FY 2012
(Dollars)

Department or agency	Total	Federal government	State	Other[a]
Montana	1,669,440	1,276,389	291,451	101,600
Agriculture, Department of	0	0	0	0
Commerce, Department of	0	0	0	0
Environmental Quality, Department of	24,624	5,753	18,871	0
Fish, Wildlife and Parks	1,376,828	1,056,246	218,982	101,600
Natural Resources and Conservation, Department of	0	0	0	0
Transportation, Department of	267,988	214,390	53,598	0
Nebraska	303,472	0	153,383	150,089
Agriculture, Department of	0	0	0	0
Corn Board	0	0	0	0
Dry Bean Commission	150,089	0	0	150,089
Economic Development, Department of	0	0	0	0
Grain Sorghum Board	0	0	0	0
Natural Resources, Department of	150,169	0	150,169	0
Roads, Department of	0	0	0	0
Wheat Board	3,214	0	3,214	0
Nevada	376,301	272,189	104,112	0
Transportation, Department of	374,743	270,631	104,112	0
Wildlife, Department of	1,558	1,558	0	0
New Hampshire	760,392	268,077	492,315	0
Agriculture, Markets and Food, Department of	0	0	0	0
Resources and Economic Development, Department of	377,000	77,000	300,000	0
Transportation, Department of	383,392	191,077	192,315	0
New Jersey	2,952,996	1,028,398	1,924,598	0
Brain Injury Research, Commission on	127,675	0	127,675	0
Cancer Research, Commission on	0	0	0	0
Environmental Protection, Department of	1,456,100	80,500	1,375,600	0
Medical Research and Treatment of Autism, Governor's Council for	183,080	0	183,080	0
Spinal Cord Research, Commission on	133,028	0	133,028	0
Transportation, Department of	1,053,113	947,898	105,215	0
New Mexico	671,314	537,051	134,263	0
Transportation, Department of	671,314	537,051	134,263	0
New York	76,176,309	40,407,043	31,445,790	4,323,476
Agriculture and Markets, Department of	2,520,000	2,520,000	0	0
Empire State Development	767,676	0	767,676	0
Energy Research and Development Authority	8,668,393	0	8,668,393	0
Environmental Conservation, Department of	1,952,180	490,450	1,461,730	0
Health, Department of	51,713,113	35,288,047	12,275,356	4,149,710
State Museum	8,430,806	409,233	7,847,807	173,766
Transportation, Department of	2,124,141	1,699,313	424,828	0
North Carolina	20,437,242	2,383,073	17,922,150	132,019
Agriculture and Consumer Services, Department of	13,544,847	0	13,544,847	0
Environment and Natural Resources, Department of	4,852,395	751,073	3,969,303	132,019
Transportation, Department of	2,040,000	1,632,000	408,000	0
North Dakota	530,023	53,515	476,508	0
Agriculture, Department of	0	0	0	0
Lignite Research Council	297,134	0	297,134	0
Mineral Resources, Department of	5,000	0	5,000	0
Oil and Gas Program	97,997	0	97,997	0
Renewable Energy Research Program	62,998	0	62,998	0
Soybean Council	0	0	0	0
Transportation, Department of	66,894	53,515	13,379	0
Wheat Commission	0	0	0	0

TABLE 20. State agency expenditures for R&D for intramural performers, by state, department or agency, and source of funds: FY 2012
(Dollars)

Department or agency	Total	Federal government	State	Other[a]
Ohio	2,246,092	750,847	1,495,245	0
Development Services Agency	0	0	0	0
Mental Health and Addiction Services, Department of	420,000	0	420,000	0
Natural Resources, Department of	1,528,995	750,847	778,148	0
Transportation, Department of	297,097	0	297,097	0
Oklahoma	1,057,822	936,422	21,400	100,000
Advancement of Science and Technology, Center for the	0	0	0	0
Agriculture, Food, and Forestry, Department of	5,000	0	5,000	0
Grand River Dam Authority	100,000	0	0	100,000
Health, State Department of	16,825	425	16,400	0
Sorghum Commission	0	0	0	0
Tobacco Settlement Endowment Trust	0	0	0	0
Transportation, Department of	935,997	935,997	0	0
Wheat Commission	0	0	0	0
Wildlife Conservation, Department of	0	0	0	0
Oregon	18,162,372	15,182,616	670,872	2,308,884
Agriculture, Department of	0	0	0	0
Fish and Wildlife, Department of	13,607,500	12,953,000	359,000	295,500
Forestry, Department of	21,379	0	21,379	0
Geology and Mineral Industries, Department of	3,853,022	1,684,652	154,986	2,013,384
Transportation, Department of	649,573	519,658	129,915	0
Watershed Enhancement Board	30,898	25,306	5,592	0
Pennsylvania	5,632,495	1,940,138	3,692,357	0
Agriculture, Department of	0	0	0	0
Community and Economic Development, Department of	0	0	0	0
Conservation and Natural Resources, Department of	210,638	25,402	185,236	0
Environmental Protection, Department of	468,953	414,327	54,626	0
Fish and Boat Commission	634,178	475,523	158,655	0
Game Commission	3,721,121	538,565	3,182,556	0
Health, Department of	0	0	0	0
Transportation, Department of	597,605	486,321	111,284	0
Rhode Island	20,000	16,000	4,000	0
Commerce Corporation	0	0	0	0
Transportation, Department of	20,000	16,000	4,000	0
South Carolina	49,917,998	39,696,933	9,355,856	865,209
Agriculture, Department of	0	0	0	0
Mental Health, Department of	88,450	0	0	88,450
Natural Resources, Department of	42,879,125	33,413,312	9,158,985	306,828
Research Authority	6,634,012	6,115,816	48,265	469,931
Sea Grant Consortium	307,007	160,000	147,007	0
Transportation, Department of	9,404	7,805	1,599	0
South Dakota	60,976	46,140	14,836	0
Agriculture, Department of	0	0	0	0
Game, Fish and Parks	0	0	0	0
Transportation, Department of	60,976	46,140	14,836	0
Tennessee	762,313	737,788	24,525	0
Environment and Conservation, Division of Archaeology, Department of	61,313	36,788	24,525	0
Environment and Conservation, Division of Remediation, Department of	681,000	681,000	0	0
Environment and Conservation, Division of Water Resources, Department of	20,000	20,000	0	0
Geological Survey	0	0	0	0
Transportation, Department of	0	0	0	0
Texas	12,375,067	1,458,020	10,903,691	13,356
Agriculture, Department of	0	0	0	0
Cancer Prevention and Research Institute	9,611,384	0	9,611,384	0
Environmental Quality, Commission on	0	0	0	0

TABLE 20. State agency expenditures for R&D for intramural performers, by state, department or agency, and source of funds: FY 2012
(Dollars)

Department or agency	Total	Federal government	State	Other[a]
Health and Human Services Commission	160,000	136,000	24,000	0
Parks and Wildlife Department	1,085,874	714,338	358,180	13,356
Transportation, Department of	760,430	607,682	152,748	0
Water Development Board	757,379	0	757,379	0
Utah	17,654,475	864,475	3,890,000	12,900,000
Health, Department of	274,475	274,475	0	0
Natural Resources, Department of	16,400,000	0	3,500,000	12,900,000
Science Technology and Research Initiative, Governor's Office of Economic Development	0	0	0	0
Transportation, Department of	980,000	590,000	390,000	0
Vermont	1,074,198	703,760	370,438	0
Agriculture, Food, and Markets, Agency of	602,577	300,000	302,577	0
Human Services, Agency of	160,853	160,853	0	0
Natural Resources, Agency of	107,310	80,141	27,169	0
Transportation, Agency of	203,458	162,766	40,692	0
Virginia	8,766,523	3,424,350	5,336,629	5,544
Agriculture and Consumer Services, Department of	0	0	0	0
Consolidated Laboratory Services, Department of	303,000	91,000	212,000	0
Corrections, Department of	1,085,144	0	1,085,144	0
Forensic Science, Department of	159,944	5,944	154,000	0
Innovative Technology, Center for	260,000	60,000	200,000	0
Marine Resources Commission	0	0	0	0
Mines, Minerals and Energy, Department of	1,446,394	771,563	674,831	0
Natural History, Museum of	559,119	1,614	551,961	5,544
Transportation, Department of	4,952,922	2,494,229	2,458,693	0
Washington	12,875,297	5,328,219	5,336,236	2,210,842
Agriculture, Department of	0	0	0	0
Archaeology and Historic Preservation, Department of	234,565	234,565	0	0
Ecology, Department of	144,000	12,000	132,000	0
Fish and Wildlife, Department of	4,805,913	2,566,271	782,297	1,457,345
Grain Commission	0	0	0	0
Labor and Industries, Department of	2,811,637	921,767	1,889,870	0
Life Sciences Discovery Fund	1,525,000	0	1,525,000	0
Natural Resources, Department of	1,283,464	278,500	792,867	212,097
Potato Commission	116,400	0	0	116,400
Puget Sound Partnership	12,300	6,150	6,150	0
Red Raspberry Commission	0	0	0	0
Transportation, Department of	1,517,018	1,308,966	208,052	0
Tree Fruit Research Commission	425,000	0	0	425,000
Wine Commission	0	0	0	0
West Virginia	4,965,278	3,011,107	1,591,497	362,674
Agriculture, Department of	206,137	206,137	0	0
Geological and Economic Survey	1,252,640	489,908	675,058	87,674
Higher Education Policy Commission	976,528	412,207	564,321	0
Justice and Community Services, Division of	11,973	2,855	9,118	0
Transportation, Department of	2,518,000	1,900,000	343,000	275,000
Wisconsin	6,896,219	4,694,776	2,128,209	73,234
Agriculture, Trade and Consumer Protection, Department of	213,915	213,915	0	0
Economic Development Corporation	0	0	0	0
Natural Resources, Department of	6,350,648	4,215,536	2,061,878	73,234
Transportation, Department of	331,656	265,325	66,331	0
Wyoming	3,615,536	249,833	3,042,465	323,238
Agriculture, Department of	0	0	0	0
Environmental Quality, Department of	0	0	0	0
State Geological Survey	2,482,744	48,131	2,111,375	323,238

TABLE 20. State agency expenditures for R&D for intramural performers, by state, department or agency, and source of funds: FY 2012
(Dollars)

Department or agency	Total	Federal government	State	Other[a]
Game and Fish Department	380,424	24,439	355,985	0
Transportation, Department of	752,368	177,263	575,105	0
Water Development Commission	0	0	0	0
Puerto Rico[c]	6,360,716	4,070,151	1,323,936	966,629
Agriculture, Department of	507,174	316,050	191,124	0
Health, Department of	3,122,975	2,276,005	846,970	0
Highways and Transportation Authority	0	0	0	0
Hospital San Juan[d, e]	1,933,258	966,629	0	966,629
Institute of Statistics	11,774	0	11,774	0
Manufacturing Extension, Incorporated[d]	380,860	106,792	274,068	0
Mental Health and Anti-Addiction Services Administration[d]	404,675	404,675	0	0
Science, Technology and Research Trust	0	0	0	0

[a] Other includes primarily other state governments and city, county, regional, township, or other local governments; it also includes nonprofit organizations and companies.

[b] U.S. total reflects all 50 states and the District of Columbia.

[c] Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

[d] Data are provided as imputed by the Puerto Rico Institute of Statistics.

[e] Operated by the San Juan municipal government.

NOTE: Intramural performers include employees within the same state department or agency in support of an internal R&D project.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FYs 2012 and 2013.

TABLE 21. State agency expenditures for R&D for intramural performers, by state, department or agency, and source of funds: FY 2013
(Dollars)

Department or agency	Total	Federal government	State	Other[a]
United States[b]	464,434,423	185,630,088	238,499,696	40,304,639
Alabama	9,160,769	3,285,307	2,488,274	3,387,188
Conservation and Natural Resources, Department of	829,378	671,367	158,011	0
Forensic Sciences, Department of	144,180	0	144,180	0
Geological Survey	3,196,187	1,391,883	1,526,044	278,260
Marine Environmental Science Consortium	4,991,024	1,222,057	660,039	3,108,928
Transportation, Department of	0	0	0	0
Alaska	5,963,195	1,681,853	3,635,213	646,129
Natural Resources, Department of	5,558,195	1,313,425	3,598,641	646,129
Transportation and Public Facilities, Department of	405,000	368,428	36,572	0
Arizona	16,141,770	12,780,215	2,839,155	522,400
Agriculture, Department of	0	0	0	0
Game and Fish Department	3,964,254	3,350,124	164,130	450,000
Geological Survey	8,770,816	8,225,391	545,425	0
Health Services, Department of	2,059,700	0	2,059,700	0
Transportation, Department of	1,347,000	1,204,700	69,900	72,400
Arkansas	2,992,079	1,886,996	1,105,083	0
Beef Council	0	0	0	0
Catfish Promotion Board	0	0	0	0
Corn and Grain Sorghum Board	0	0	0	0
Game and Fish Commission	528,338	528,338	0	0
Rice Research and Promotion Board	0	0	0	0
Science and Technology Authority	1,491,546	639,234	852,312	0
Soybean Promotion Board	0	0	0	0
State Highway and Transportation Department	972,195	719,424	252,771	0
Wheat Promotion Board	0	0	0	0
California	57,262,060	7,002,831	47,871,582	2,387,647
Air Resources Board	10,650,000	0	10,650,000	0
Children and Families Commission	0	0	0	0
Energy Commission	12,198,000	0	12,198,000	0
Environmental Health Hazard Assessment, Office of	12,659,938	0	10,275,541	2,384,397
Food and Agriculture, Department of	0	0	0	0
Forestry and Fire Protection, Department of	675,000	675,000	0	0
Institute for Regenerative Medicine	0	0	0	0
Motor Vehicles, Department of	1,554,440	780,507	770,683	3,250
Pesticide Regulation, Department of	5,476,000	0	5,476,000	0
Public Health, Genetic Disease, Department of	1,171,920	1,074,000	97,920	0
Public Health, Science and Education, Department of	800,000	50,000	750,000	0
Resources Recycling and Recovery, Department of	0	0	0	0
Seismic Safety Commission	0	0	0	0
Sierra Nevada Conservancy	0	0	0	0
Social Services, Department of	75,732	49,324	26,408	0
State Coastal Conservancy	0	0	0	0
State Hospitals, Department of	0	0	0	0
State Water Resources Control Board	0	0	0	0
Statewide Health Planning and Development, Office of	75,000	0	75,000	0
Transportation, Department of	10,506,000	4,374,000	6,132,000	0
Water Resources, Department of	1,420,030	0	1,420,030	0
Colorado	8,248,707	2,921,271	3,832,593	1,494,843
Economic Development and International Trade, Office of	0	0	0	0
Natural Resources, Department of	6,557,297	2,120,195	2,942,259	1,494,843
Public Health and Environment, Department of	0	0	0	0
Public Safety, Department of	989,741	239,741	750,000	0
Transportation, Department of	701,669	561,335	140,334	0

TABLE 21. State agency expenditures for R&D for intramural performers, by state, department or agency, and source of funds: FY 2013
(Dollars)

Department or agency	Total	Federal government	State	Other[a]
Connecticut	25,612,853	11,344,491	13,545,431	722,931
Agricultural Experiment Station	11,176,787	3,697,665	6,775,556	703,566
Energy and Environmental Protection, Department of	8,693,860	5,393,352	3,300,508	0
Mental Health and Addiction Services, Department of	3,710,504	1,328,474	2,362,665	19,365
Public Health, Department of	156,702	0	156,702	0
Transportation, Department of	1,875,000	925,000	950,000	0
Delaware	2,514,545	410,916	2,015,629	88,000
Geological Survey	1,784,107	227,421	1,556,686	0
Natural Resources and Environmental Control, Department of	730,438	183,495	458,943	88,000
Transportation, Department of	0	0	0	0
District of Columbia	435,813	305,613	130,200	0
Health, Department of	184,813	184,813	0	0
Transportation, Department of	251,000	120,800	130,200	0
Florida	47,372,831	14,036,238	30,688,479	2,648,114
Agriculture and Consumer Services, Department of	2,824,529	1,579,343	1,245,186	0
Citrus, Department of	161,909	0	161,909	0
Environmental Protection, Department of	2,262,702	249,464	2,013,238	0
Fish and Wildlife Conservation Commission	42,123,691	12,207,431	27,268,146	2,648,114
Health, Department of	0	0	0	0
Space Florida	0	0	0	0
Transportation, Department of	0	0	0	0
Georgia	2,041,101	1,380,880	635,030	25,191
Natural Resources, Department of	2,041,101	1,380,880	635,030	25,191
Transportation, Department of	0	0	0	0
Hawaii	4,320,992	2,871,327	1,199,665	250,000
Agriculture, Department of	490,000	240,000	0	250,000
Business, Economic Development, and Tourism, Department of	503,487	503,487	0	0
Health, Department of	190,000	130,000	60,000	0
Land and Natural Resources, Department of	2,565,206	1,997,840	567,366	0
Transportation, Department of	572,299	0	572,299	0
Idaho	7,836,031	6,311,134	1,002,653	522,244
Barley Commission	37,321	0	0	37,321
Bean Commission	105,885	55,582	50,303	0
Fish and Game, Department of	6,687,059	5,441,086	761,050	484,923
Potato Commission	499,366	499,366	0	0
Transportation Department	206,400	165,100	41,300	0
Water Resources, Department of	300,000	150,000	150,000	0
Wheat Commission	0	0	0	0
Illinois	1,663,080	1,243,080	420,000	0
Children and Family Services, Department of	0	0	0	0
Commerce and Economic Opportunity, Department of	0	0	0	0
Public Health, Department of	0	0	0	0
Transportation, Department of	1,663,080	1,243,080	420,000	0
Indiana	1,022,370	922,370	100,000	0
Criminal Justice Institute	245,000	245,000	0	0
Economic Development Corporation	0	0	0	0
Natural Resources, Department of	0	0	0	0
Transportation, Department of	777,370	677,370	100,000	0
Iowa	5,603,029	7,538	5,585,963	9,528
Economic Development Authority, Energy Office	0	0	0	0
Human Rights, Criminal and Juvenile Justice Planning, Division of	22,484	6,678	6,278	9,528
Natural Resources, Department of	3,517,000	0	3,517,000	0
Transportation, Department of	2,063,545	860	2,062,685	0

TABLE 21. State agency expenditures for R&D for intramural performers, by state, department or agency, and source of funds: FY 2013
(Dollars)

Department or agency	Total	Federal government	State	Other[a]
Kansas	1,577,722	911,510	666,212	0
Transportation, Department of	1,577,722	911,510	666,212	0
Wheat Commission	0	0	0	0
Kentucky	2,962,965	1,623,275	1,339,690	0
Budget and Fiscal Management, Office of	350,000	0	350,000	0
Early Childhood, Governor's Office of	0	0	0	0
Economic Development, Cabinet for	0	0	0	0
Education Professional Standards Board	373,847	142,960	230,887	0
Energy Development and Independence, Department for	0	0	0	0
Fish and Wildlife Resources, Department of	2,214,118	1,455,315	758,803	0
Horse Racing Commission	0	0	0	0
Public Health, Department for	0	0	0	0
State Nature Preserves Commission	25,000	25,000	0	0
Louisiana	5,081,221	3,058,920	2,021,748	553
Coastal Protection and Restoration Authority	240,000	0	240,000	0
Transportation and Development, Department of	2,559,170	2,047,336	511,834	0
Wildlife and Fisheries, Department of	2,282,051	1,011,584	1,269,914	553
Maine	1,154,177	688,790	455,387	10,000
Agriculture, Conservation and Forestry, Department of	460,000	200,000	250,000	10,000
Drug Enforcement Agency	0	0	0	0
Environmental Protection, Department of	160,000	0	160,000	0
Inland Fisheries and Wildlife, Department of	0	0	0	0
Marine Resources, Department of	222,030	222,030	0	0
Technology Institute	0	0	0	0
Transportation, Department of	312,147	266,760	45,387	0
Maryland	572,247	293,747	278,500	0
Business and Economic Development, Department of	0	0	0	0
Health and Mental Hygiene, Department of	0	0	0	0
Natural Resources, Department of	382,247	141,747	240,500	0
Technology Development Corporation	0	0	0	0
Transportation, Department of	190,000	152,000	38,000	0
Massachusetts	1,083,202	183,225	859,078	40,899
Environmental Protection, Department of	186,186	12,593	173,593	0
Fish and Game, Department of	749,161	170,632	537,630	40,899
Mental Health, Department of	147,855	0	147,855	0
Public Health, Department of	0	0	0	0
Michigan	2,651,063	596,704	2,045,749	8,610
Agriculture and Rural Development, Department of	0	0	0	0
Environmental Quality, Department of	0	0	0	0
Natural Resources, Department of	951,063	596,704	345,749	8,610
Transportation, Department of	1,700,000	0	1,700,000	0
Minnesota	1,007,122	544,000	402,972	60,150
Agriculture, Department of	801,791	462,000	339,791	0
Forest Resources Council	51,831	0	51,831	0
Pollution Control Agency	0	0	0	0
Transportation, Department of	153,500	82,000	11,350	60,150
Mississippi	2,094,537	1,478,543	615,994	0
Transportation, Department of	1,127,000	901,600	225,400	0
Wildlife, Fisheries, and Parks, Department of	967,537	576,943	390,594	0
Missouri	6,696,607	370,451	6,326,156	0
Agriculture, Department of	0	0	0	0
Conservation, Department of	6,209,234	43,080	6,166,154	0
Natural Resources, Department of	43,315	25,411	17,904	0
Transportation, Department of	444,058	301,960	142,098	0

TABLE 21. State agency expenditures for R&D for intramural performers, by state, department or agency, and source of funds: FY 2013
(Dollars)

Department or agency	Total	Federal government	State	Other[a]
Montana	2,035,229	1,497,221	433,955	104,053
Agriculture, Department of	0	0	0	0
Environmental Quality, Department of	122,464	96,397	26,067	0
Fish, Wildlife and Parks	1,650,054	1,190,655	355,346	104,053
Natural Resources and Conservation, Department of	0	0	0	0
Transportation, Department of	262,711	210,169	52,542	0
Nebraska	368,009	0	189,623	178,386
Agriculture, Department of	0	0	0	0
Corn Board	0	0	0	0
Dry Bean Commission	178,386	0	0	178,386
Economic Development, Department of	0	0	0	0
Grain Sorghum Board	0	0	0	0
Natural Resources, Department of	186,573	0	186,573	0
Roads, Department of	0	0	0	0
Wheat Board	3,050	0	3,050	0
Nevada	366,804	278,367	88,437	0
Transportation, Department of	365,395	276,958	88,437	0
Wildlife, Department of	1,409	1,409	0	0
New Hampshire	683,882	182,349	501,533	0
Agriculture, Markets and Food, Department of	0	0	0	0
Resources and Economic Development, Department of	317,000	56,000	261,000	0
Transportation, Department of	366,882	126,349	240,533	0
New Jersey	2,920,843	954,178	1,966,665	0
Brain Injury Research, Commission on	110,750	0	110,750	0
Cancer Research, Commission on	0	0	0	0
Environmental Protection, Department of	1,527,000	88,300	1,438,700	0
Medical Research and Treatment of Autism, Governor's Council for	194,600	0	194,600	0
Spinal Cord Research, Commission on	117,400	0	117,400	0
Transportation, Department of	971,093	865,878	105,215	0
New Mexico	768,893	588,276	180,617	0
State Engineer, Office of the	63,418	23,896	39,522	0
Transportation, Department of	705,475	564,380	141,095	0
New York	73,922,295	36,789,376	31,993,876	5,139,043
Agriculture and Markets, Department of	2,520,000	2,520,000	0	0
Empire State Development	785,139	0	785,139	0
Energy Research and Development Authority	9,459,782	0	9,459,782	0
Environmental Conservation, Department of	2,134,100	519,000	1,615,100	0
Health, Department of	48,381,213	31,673,060	11,848,458	4,859,695
State Museum	8,556,407	408,793	7,868,266	279,348
Transportation, Department of	2,085,654	1,668,523	417,131	0
North Carolina	20,501,169	2,432,718	17,993,075	75,376
Agriculture and Consumer Services, Department of	13,544,847	0	13,544,847	0
Environment and Natural Resources, Department of	4,916,322	800,718	4,040,228	75,376
Transportation, Department of	2,040,000	1,632,000	408,000	0
North Dakota	429,670	66,082	363,588	0
Agriculture, Department of	0	0	0	0
Lignite Research Council	245,000	0	245,000	0
Mineral Resources, Department of	20,000	0	20,000	0
Oil and Gas Program	45,863	0	45,863	0
Renewable Energy Research Program	36,204	0	36,204	0
Soybean Council	0	0	0	0
Transportation, Department of	82,603	66,082	16,521	0
Wheat Commission	0	0	0	0

TABLE 21. State agency expenditures for R&D for intramural performers, by state, department or agency, and source of funds: FY 2013
(Dollars)

Department or agency	Total	Federal government	State	Other[a]
Ohio	2,040,795	739,659	1,266,011	35,125
Development Services Agency	0	0	0	0
Mental Health and Addiction Services, Department of	320,000	0	320,000	0
Natural Resources, Department of	1,344,563	728,131	581,307	35,125
Transportation, Department of	376,232	11,528	364,704	0
Oklahoma	1,074,816	954,088	20,728	100,000
Advancement of Science and Technology, Center for the	0	0	0	0
Agriculture, Food, and Forestry, Department of	5,000	0	5,000	0
Grand River Dam Authority	100,000	0	0	100,000
Health, State Department of	16,153	425	15,728	0
Sorghum Commission	0	0	0	0
Tobacco Settlement Endowment Trust	0	0	0	0
Transportation, Department of	953,663	953,663	0	0
Wheat Commission	0	0	0	0
Wildlife Conservation, Department of	0	0	0	0
Oregon	19,524,508	14,806,474	930,127	3,787,907
Agriculture, Department of	0	0	0	0
Fish and Wildlife, Department of	13,974,000	12,701,000	593,000	680,000
Forestry, Department of	146,459	1,460	144,999	0
Geology and Mineral Industries, Department of	4,786,832	1,611,299	67,626	3,107,907
Transportation, Department of	592,096	473,677	118,419	0
Watershed Enhancement Board	25,121	19,038	6,083	0
Pennsylvania	6,675,458	2,059,409	4,616,049	0
Agriculture, Department of	0	0	0	0
Community and Economic Development, Department of	0	0	0	0
Conservation and Natural Resources, Department of	166,407	0	166,407	0
Environmental Protection, Department of	763,500	489,867	273,633	0
Fish and Boat Commission	664,712	498,170	166,542	0
Game Commission	4,517,420	613,540	3,903,880	0
Health, Department of	0	0	0	0
Transportation, Department of	563,419	457,832	105,587	0
Rhode Island	225,050	180,040	45,010	0
Commerce Corporation	0	0	0	0
Transportation, Department of	225,050	180,040	45,010	0
South Carolina	37,004,464	26,054,370	9,831,851	1,118,243
Agriculture, Department of	0	0	0	0
Mental Health, Department of	88,450	0	0	88,450
Natural Resources, Department of	33,965,413	23,899,148	9,613,070	453,195
Sea Grant Consortium	306,931	160,000	146,931	0
Research Authority	2,643,670	1,995,222	71,850	576,598
Transportation, Department of	0	0	0	0
South Dakota	114,425	58,395	56,030	0
Agriculture, Department of	0	0	0	0
Game, Fish and Parks	0	0	0	0
Transportation, Department of	114,425	58,395	56,030	0
Tennessee	784,848	761,509	23,339	0
Environment and Conservation, Division of Archaeology, Department of	58,348	35,009	23,339	0
Environment and Conservation, Division of Remediation, Department of	706,500	706,500	0	0
Environment and Conservation, Division of Water Resources, Department of	20,000	20,000	0	0
Geological Survey	0	0	0	0
Transportation, Department of	0	0	0	0
Texas	11,746,259	2,185,854	9,425,713	134,692
Agriculture, Department of	0	0	0	0
Cancer Prevention and Research Institute	7,796,727	0	7,796,727	0
Environmental Quality, Commission on	0	0	0	0

TABLE 21. State agency expenditures for R&D for intramural performers, by state, department or agency, and source of funds: FY 2013
(Dollars)

Department or agency	Total	Federal government	State	Other[a]
Health and Human Services Commission	175,000	148,750	26,250	0
Parks and Wildlife Department	1,346,054	868,951	342,411	134,692
Transportation, Department of	1,460,851	1,168,153	292,698	0
Water Development Board	967,627	0	967,627	0
Utah	17,979,931	579,931	4,100,000	13,300,000
Health, Department of	79,931	79,931	0	0
Natural Resources, Department of	16,900,000	0	3,600,000	13,300,000
Science Technology and Research Initiative, Governor's Office of Economic Development	0	0	0	0
Transportation, Department of	1,000,000	500,000	500,000	0
Vermont	1,160,193	748,111	412,082	0
Agriculture, Food, and Markets, Agency of	649,064	300,000	349,064	0
Human Services, Agency of	170,780	170,780	0	0
Natural Resources, Agency of	94,663	70,334	24,329	0
Transportation, Agency of	245,686	206,997	38,689	0
Virginia	13,046,471	3,374,530	9,607,956	63,985
Agriculture and Consumer Services, Department of	0	0	0	0
Consolidated Laboratory Services, Division of	118,000	69,000	49,000	0
Corrections, Department of	1,038,630	0	1,038,630	0
Forensic Science, Department of	143,396	396	143,000	0
Innovative Technology, Center for	220,000	20,000	200,000	0
Marine Resources Commission	0	0	0	0
Mines, Minerals and Energy, Department of	2,307,537	1,221,036	1,086,501	0
Natural History, Museum of	666,462	0	602,477	63,985
Transportation, Department of	8,552,446	2,064,098	6,488,348	0
Washington	12,820,150	4,616,941	5,646,199	2,557,010
Agriculture, Department of	0	0	0	0
Archaeology and Historic Preservation, Department of	372,376	372,376	0	0
Ecology, Department of	228,000	12,000	216,000	0
Fish and Wildlife, Department of	5,045,951	2,571,750	759,640	1,714,561
Grain Commission	0	0	0	0
Labor and Industries, Department of	2,998,176	1,003,585	1,994,591	0
Life Sciences Discovery Fund	1,348,000	0	1,348,000	0
Natural Resources, Department of	1,592,083	243,775	1,147,259	201,049
Potato Commission	116,400	0	0	116,400
Puget Sound Partnership	12,300	6,150	6,150	0
Red Raspberry Commission	0	0	0	0
Transportation, Department of	581,864	407,305	174,559	0
Tree Fruit Research Commission	525,000	0	0	525,000
Wine Commission	0	0	0	0
West Virginia	4,764,417	2,808,333	1,567,046	389,038
Agriculture, Department of	93,033	93,033	0	0
Geological and Economic Survey	1,252,692	375,082	763,572	114,038
Higher Education Policy Commission	677,806	247,383	430,423	0
Justice and Community Services, Division of	11,886	2,835	9,051	0
Transportation, Department of	2,729,000	2,090,000	364,000	275,000
Wisconsin	7,402,664	4,651,291	2,552,772	198,601
Agriculture, Trade and Consumer Protection, Department of	104,851	104,851	0	0
Economic Development Corporation	0	0	0	0
Natural Resources, Department of	6,778,381	4,130,894	2,448,886	198,601
Transportation, Department of	519,432	415,546	103,886	0
Wyoming	3,001,092	121,361	2,580,978	298,753
Agriculture, Department of	0	0	0	0
Environmental Quality, Department of	0	0	0	0
Game and Fish Department	431,877	3,101	425,755	3,021

TABLE 21. State agency expenditures for R&D for intramural performers, by state, department or agency, and source of funds: FY 2013
(Dollars)

Department or agency	Total	Federal government	State	Other[a]
State Geological Survey	2,225,936	95,478	1,834,726	295,732
Transportation, Department of	343,279	22,782	320,497	0
Water Development Commission	0	0	0	0
Puerto Rico[c]	6,084,344	3,931,918	1,171,367	981,059
Agriculture, Department of	649,048	457,924	191,124	0
Education Council	0	0	0	0
Health, Department of	2,705,482	1,992,666	712,816	0
Highways and Transportation Authority	0	0	0	0
Hospital San Juan[d, e]	1,962,118	981,059	0	981,059
Institute of Statistics	37,601	0	37,601	0
Manufacturing Extension, Incorporated[d]	319,379	89,553	229,826	0
Mental Health and Anti-Addiction Services Administration[d]	410,716	410,716	0	0
Science, Technology and Research Trust	0	0	0	0

[a] Other includes nonprofit organizations; other state governments; and city, county, regional, township, or other local governments.

[b] U.S. total reflects all 50 states and the District of Columbia.

[c] Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

[d] Data are provided as imputed by the Puerto Rico Institute of Statistics.

[e] Operated by the San Juan municipal government.

NOTE: Intramural performers include employees within the same state department or agency in support of an internal R&D project.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FYs 2012 and 2013.

TABLE 22. State agency expenditures for R&D, by state, department or agency, and performer: FY 2012
(Dollars)

Department or agency	All R&D expenditures	Intramural performers[a]	Extramural performers			
			Total	Academic	Companies or individuals[b]	Other[c]
United States[d]	1,795,159,257	470,517,395	1,324,641,862	766,333,104	390,920,114	167,388,644
Alabama	17,352,984	8,612,718	8,740,266	4,766,607	3,730,211	243,448
Conservation and Natural Resources, Department of	6,511,092	1,118,905	5,392,187	1,418,528	3,730,211	243,448
Forensic Sciences, Department of	336,920	336,920	0	0	0	0
Geological Survey	2,588,932	2,588,932	0	0	0	0
Marine Environmental Science Consortium	4,567,961	4,567,961	0	0	0	0
Transportation, Department of	3,348,079	0	3,348,079	3,348,079	0	0
Alaska	5,467,944	5,346,296	121,648	121,648	0	0
Natural Resources, Department of	5,240,762	5,240,762	0	0	0	0
Transportation and Public Facilities, Department of	227,182	105,534	121,648	121,648	0	0
Arizona	22,809,895	13,303,829	9,506,066	2,434,141	6,747,817	324,108
Agriculture, Department of	753,581	0	753,581	721,578	0	32,003
Game and Fish Department	3,372,974	3,232,974	140,000	50,000	90,000	0
Geological Survey	7,804,412	7,333,195	471,217	95,722	240,290	135,205
Health Services, Department of	8,805,168	1,588,900	7,216,268	1,288,241	5,928,027	0
Transportation, Department of	2,073,760	1,148,760	925,000	278,600	489,500	156,900
Arkansas	15,518,374	3,006,648	12,511,726	12,001,448	510,278	0
Beef Council	67,450	0	67,450	67,450	0	0
Catfish Promotion Board	32,000	0	32,000	32,000	0	0
Corn and Grain Sorghum Board	668,900	0	668,900	618,900	50,000	0
Game and Fish Commission	692,557	568,314	124,243	99,843	24,400	0
Rice Research and Promotion Board	2,318,512	0	2,318,512	2,318,512	0	0
Science and Technology Authority	6,168,326	1,283,473	4,884,853	4,448,975	435,878	0
Soybean Promotion Board	3,250,921	0	3,250,921	3,250,921	0	0
State Highway and Transportation Department	2,057,208	1,154,861	902,347	902,347	0	0
Wheat Promotion Board	262,500	0	262,500	262,500	0	0
California	401,522,758	59,490,293	342,032,465	194,662,355	61,160,057	86,210,053
Air Resources Board	14,346,132	10,050,000	4,296,132	3,453,626	842,506	0
Children and Families Commission	770,468	0	770,468	770,468	0	0
Energy Commission	75,665,000	14,069,000	61,596,000	17,180,570	39,510,563	4,904,867
Environmental Health Hazard Assessment, Office of	12,705,197	12,430,573	274,624	182,543	0	92,081
Food and Agriculture, Department of	2,973,167	0	2,973,167	2,176,158	754,462	42,547
Forestry and Fire Protection, Department of	1,903,305	675,000	1,228,305	320,000	0	908,305
Institute for Regenerative Medicine	231,753,694	0	231,753,694	143,973,753	18,308,090	69,471,851
Motor Vehicles, Department of	1,437,293	1,437,293	0	0	0	0
Pesticide Regulation, Department of	8,369,000	5,395,000	2,974,000	1,422,000	0	1,552,000
Public Health, Genetic Disease, Department of	2,390,350	2,390,350	0	0	0	0
Public Health, Science and Education, Department of	800,000	800,000	0	0	0	0
Resources Recycling and Recovery, Department of	2,042,521	0	2,042,521	1,754,250	245,398	42,873
Social Services, Department of	815,778	15,737	800,041	800,041	0	0
Seismic Safety Commission	459,827	0	459,827	459,827	0	0
State Coastal Conservancy	1,564,593	0	1,564,593	1,050,900	105,533	408,160
State Hospitals, Department of	350,000	0	350,000	350,000	0	0
State Water Resources Control Board	200,000	0	200,000	0	0	200,000
Statewide Health Planning and Development, Office of	175,000	75,000	100,000	100,000	0	0
Transportation, Department of	36,897,000	10,997,000	25,900,000	19,070,000	1,242,000	5,588,000
Water Resources, Department of	5,904,433	1,155,340	4,749,093	1,598,219	151,505	2,999,369
Colorado	14,928,809	8,170,313	6,758,496	2,598,937	1,844,993	2,314,566
Economic Development and International Trade, Office of	3,986,305	0	3,986,305	1,565,353	1,575,000	845,952
Natural Resources, Department of	6,957,024	6,503,327	453,697	453,697	0	0
Public Health and Environment, Department of	1,459,114	0	1,459,114	0	0	1,459,114
Public Safety, Department of	902,386	902,386	0	0	0	0
Transportation, Department of	1,623,980	764,600	859,380	579,887	269,993	9,500

TABLE 22. State agency expenditures for R&D, by state, department or agency, and performer: FY 2012
(Dollars)

Department or agency	All R&D expenditures	Intramural performers[a]	Extramural performers			
			Total	Academic	Companies or individuals[b]	Other[c]
Connecticut	40,017,523	24,039,989	15,977,534	10,223,022	4,612,846	1,141,666
Agricultural Experiment Station	11,083,069	11,083,069	0	0	0	0
Energy and Environmental Protection, Department of	8,023,426	7,540,617	482,809	284,499	11,528	186,782
Mental Health and Addiction Services, Department of	4,492,470	3,327,278	1,165,192	1,165,192	0	0
Public Health, Department of	12,400,558	211,025	12,189,533	7,448,331	4,601,318	139,884
Transportation, Department of	4,018,000	1,878,000	2,140,000	1,325,000	0	815,000
Delaware	4,635,720	2,181,693	2,454,027	2,454,027	0	0
Geological Survey	1,392,201	1,392,201	0	0	0	0
Natural Resources and Environmental Control, Department of	839,492	789,492	50,000	50,000	0	0
Transportation, Department of	2,404,027	0	2,404,027	2,404,027	0	0
District of Columbia	2,018,447	354,612	1,663,835	1,004,685	659,150	0
Health, Department of	656,448	144,988	511,460	21,507	489,953	0
Transportation, Department of	1,361,999	209,624	1,152,375	983,178	169,197	0
Florida	136,706,540	48,910,954	87,795,586	52,772,948	31,169,945	3,852,693
Agriculture and Consumer Services, Department of	19,111,188	3,256,399	15,854,789	4,349,441	7,862,381	3,642,967
Citrus, Department of	11,250,400	256,182	10,994,218	10,184,145	810,073	0
Environmental Protection, Department of	3,228,954	2,369,670	859,284	710,791	148,493	0
Fish and Wildlife Conservation Commission	44,921,965	43,028,703	1,893,262	1,893,262	0	0
Health, Department of	46,122,505	0	46,122,505	24,233,131	21,889,374	0
Space Florida	737,383	0	737,383	424,262	290,696	22,425
Transportation, Department of	11,334,145	0	11,334,145	10,977,916	168,928	187,301
Georgia	12,820,412	4,145,859	8,674,553	8,674,553	0	0
Herty Advanced Materials Development Center	2,500,000	2,500,000	0	0	0	0
Natural Resources, Department of	2,607,843	1,645,859	961,984	961,984	0	0
Transportation, Department of	7,712,569	0	7,712,569	7,712,569	0	0
Hawaii	11,145,520	4,267,994	6,877,526	2,863,813	3,563,713	450,000
Agriculture, Department of	1,516,064	490,000	1,026,064	576,064	0	450,000
Business, Economic Development, and Tourism, Department of	4,024,303	460,590	3,563,713	0	3,563,713	0
Health, Department of	190,000	190,000	0	0	0	0
Land and Natural Resources, Department of	4,533,302	2,891,404	1,641,898	1,641,898	0	0
Transportation, Department of	881,851	236,000	645,851	645,851	0	0
Idaho	11,785,529	7,179,818	4,605,711	3,366,115	492,416	747,180
Barley Commission	129,566	35,486	94,080	0	0	94,080
Bean Commission	75,171	75,021	150	0	150	0
Environmental Quality, Department of	30,451	0	30,451	0	30,451	0
Fish and Game, Department of	7,391,714	6,460,259	931,455	931,455	0	0
Potato Commission	1,007,267	99,652	907,615	626,000	281,615	0
Transportation Department	1,368,700	209,400	1,159,300	496,000	10,200	653,100
Water Resources, Department of	782,660	300,000	482,660	482,660	0	0
Wheat Commission	1,000,000	0	1,000,000	830,000	170,000	0
Illinois	17,859,438	1,618,580	16,240,858	11,822,012	102,063	4,316,783
Children and Family Services, Department of	8,535,674	0	8,535,674	8,535,674	0	0
Commerce and Economic Opportunity, Department of	21,110	0	21,110	21,110	0	0
Public Health, Department of	1,947,822	0	1,947,822	0	0	1,947,822
Transportation, Department of	7,354,832	1,618,580	5,736,252	3,265,228	102,063	2,368,961
Indiana	7,667,988	870,605	6,797,383	6,111,383	686,000	0
Criminal Justice Institute	413,937	245,000	168,937	168,937	0	0
Economic Development Corporation	806,000	0	806,000	135,000	671,000	0
Natural Resources, Department of	192,000	0	192,000	177,000	15,000	0
Transportation, Department of	6,256,051	625,605	5,630,446	5,630,446	0	0
Iowa	16,147,249	4,376,976	11,770,273	5,298,355	5,448,031	1,023,887
Economic Development Authority, Energy Office	5,207,302	0	5,207,302	484,867	4,722,435	0

TABLE 22. State agency expenditures for R&D, by state, department or agency, and performer: FY 2012
(Dollars)

Department or agency	All R&D expenditures	Intramural performers[a]	Extramural performers			
			Total	Academic	Companies or individuals[b]	Other[c]
Human Rights, Criminal and Juvenile Justice Planning, Division of	22,475	22,475	0	0	0	0
Natural Resources, Department of	3,278,552	3,278,552	0	0	0	0
Transportation, Department of	7,638,920	1,075,949	6,562,971	4,813,488	725,596	1,023,887
Kansas	6,160,680	1,484,948	4,675,732	3,731,670	0	944,062
Transportation, Department of	5,147,330	1,484,948	3,662,382	2,718,320	0	944,062
Wheat Commission	1,013,350	0	1,013,350	1,013,350	0	0
Kentucky	19,886,257	2,893,270	16,992,987	9,221,242	7,771,745	0
Budget and Fiscal Management, Office of	4,074,600	350,000	3,724,600	3,724,600	0	0
Early Childhood, Governor's Office of	247,996	0	247,996	247,996	0	0
Economic Development, Cabinet for	7,634,353	0	7,634,353	0	7,634,353	0
Education Professional Standards Board	427,730	400,754	26,976	26,976	0	0
Energy Development and Independence, Department for	2,265,142	0	2,265,142	2,265,142	0	0
Fish and Wildlife Resources, Department of	2,569,823	2,104,516	465,307	327,915	137,392	0
Horse Racing Commission	478,313	0	478,313	478,313	0	0
Public Health, Department for	2,150,300	0	2,150,300	2,150,300	0	0
State Nature Preserves Commission	38,000	38,000	0	0	0	0
Louisiana	18,143,396	4,884,739	13,258,657	4,896,322	8,362,335	0
Coastal Protection and Restoration Authority	8,620,668	240,000	8,380,668	740,000	7,640,668	0
Transportation and Development, Department of	6,975,472	2,569,838	4,405,634	3,754,478	651,156	0
Wildlife and Fisheries, Department of	2,547,256	2,074,901	472,355	401,844	70,511	0
Maine	7,094,736	1,071,798	6,022,938	774,416	20,000	5,228,522
Agriculture, Conservation and Forestry, Department of	380,000	380,000	0	0	0	0
Drug Enforcement Agency	75,000	0	75,000	75,000	0	0
Environmental Protection, Department of	205,000	120,000	85,000	65,000	20,000	0
Inland Fisheries and Wildlife, Department of	27,000	0	27,000	27,000	0	0
Marine Resources, Department of	824,751	292,775	531,976	531,976	0	0
Technology Institute	5,228,522	0	5,228,522	0	0	5,228,522
Transportation, Department of	354,463	279,023	75,440	75,440	0	0
Maryland	21,890,225	513,661	21,376,564	19,177,600	1,800,500	398,464
Business and Economic Development, Department of	1,650,500	0	1,650,500	0	1,650,500	0
Health and Mental Hygiene, Department of	2,400,000	0	2,400,000	2,400,000	0	0
Natural Resources, Department of	763,777	323,661	440,116	219,763	150,000	70,353
Technology Development Corporation	15,147,837	0	15,147,837	15,147,837	0	0
Transportation, Department of	1,928,111	190,000	1,738,111	1,410,000	0	328,111
Massachusetts	3,918,500	917,177	3,001,323	1,896,714	368,040	736,569
Environmental Protection, Department of	236,527	172,480	64,047	23,998	40,049	0
Fish and Game, Department of	691,602	603,883	87,719	0	87,719	0
Mental Health, Department of	1,889,449	140,814	1,748,635	1,748,635	0	0
Public Health, Department of	1,100,922	0	1,100,922	124,081	240,272	736,569
Michigan	12,557,954	2,277,811	10,280,143	6,062,378	1,017,765	3,200,000
Agriculture and Rural Development, Department of	437,895	0	437,895	420,130	17,765	0
Natural Resources, Department of	3,220,059	577,811	2,642,248	2,642,248	0	0
Transportation, Department of	8,900,000	1,700,000	7,200,000	3,000,000	1,000,000	3,200,000
Minnesota	11,524,686	1,471,472	10,053,214	5,625,911	3,432,597	994,706
Agriculture Department	3,907,984	813,000	3,094,984	1,141,674	1,794,893	158,417
Forest Resources Council	45,273	45,273	0	0	0	0
Pollution Control Agency	63,177	0	63,177	63,177	0	0
Transportation, Department of	7,508,252	613,199	6,895,053	4,421,060	1,637,704	836,289
Mississippi	6,260,080	1,890,566	4,369,514	1,702,322	1,471,567	1,195,625
Transportation, Department of	4,801,812	939,416	3,862,396	1,265,555	1,401,216	1,195,625
Wildlife, Fisheries, and Parks, Department of	1,458,268	951,150	507,118	436,767	70,351	0

TABLE 22. State agency expenditures for R&D, by state, department or agency, and performer: FY 2012
(Dollars)

Department or agency	All R&D expenditures	Intramural performers[a]	Extramural performers			
			Total	Academic	Companies or individuals[b]	Other[c]
Missouri	13,041,450	7,274,626	5,766,824	3,770,795	1,563,887	432,142
Agriculture, Department of	349,210	0	349,210	349,210	0	0
Conservation, Department of	8,795,535	6,544,654	2,250,881	2,115,501	0	135,380
Natural Resources, Department of	706,697	135,541	571,156	446,503	55,448	69,205
Transportation, Department of	3,190,008	594,431	2,595,577	859,581	1,508,439	227,557
Montana	6,841,897	1,669,440	5,172,457	3,197,818	943,223	1,031,416
Agriculture, Department of	2,015,402	0	2,015,402	1,404,745	610,657	0
Commerce, Department of	87,163	0	87,163	87,163	0	0
Environmental Quality, Department of	33,472	24,624	8,848	6,128	2,720	0
Fish, Wildlife and Parks	1,757,432	1,376,828	380,604	372,604	0	8,000
Natural Resources and Conservation, Department of	1,327,228	0	1,327,228	385,792	0	941,436
Transportation, Department of	1,621,200	267,988	1,353,212	941,386	329,846	81,980
Nebraska	6,367,304	303,472	6,063,832	2,910,814	1,895,848	1,257,170
Agriculture, Department of	387,118	0	387,118	305,577	81,541	0
Corn Board	267,123	0	267,123	267,123	0	0
Dry Bean Commission	150,089	150,089	0	0	0	0
Economic Development, Department of	1,893,383	0	1,893,383	298,450	1,594,933	0
Grain Sorghum Board	15,000	0	15,000	15,000	0	0
Natural Resources, Department of	1,701,779	150,169	1,551,610	87,920	206,520	1,257,170
Roads, Department of	1,631,444	0	1,631,444	1,631,444	0	0
Wheat Board	321,368	3,214	318,154	305,300	12,854	0
Nevada	1,166,762	376,301	790,461	694,670	95,791	0
Transportation, Department of	1,119,857	374,743	745,114	649,323	95,791	0
Wildlife, Department of	46,905	1,558	45,347	45,347	0	0
New Hampshire	2,241,149	760,392	1,480,757	797,750	583,338	99,669
Agriculture, Markets and Food, Department of	100,066	0	100,066	100,066	0	0
Resources and Economic Development, Department of	761,000	377,000	384,000	0	384,000	0
Transportation, Department of	1,380,083	383,392	996,691	697,684	199,338	99,669
New Jersey	17,818,258	2,952,996	14,865,262	14,103,395	100,000	661,867
Brain Injury Research, Commission on	3,856,178	127,675	3,728,503	3,066,636	0	661,867
Cancer Research, Commission on	1,118,015	0	1,118,015	1,118,015	0	0
Environmental Protection, Department of	2,742,767	1,456,100	1,286,667	1,286,667	0	0
Medical Research and Treatment of Autism, Governor's Council for	3,930,000	183,080	3,746,920	3,746,920	0	0
Spinal Cord Research, Commission on	2,395,107	133,028	2,262,079	2,262,079	0	0
Transportation, Department of	3,776,191	1,053,113	2,723,078	2,623,078	100,000	0
New Mexico	1,793,561	671,314	1,122,247	1,036,528	85,719	0
Transportation, Department of	1,793,561	671,314	1,122,247	1,036,528	85,719	0
New York	171,841,187	76,176,309	95,664,878	47,328,762	27,392,780	20,943,336
Agriculture and Markets, Department of	4,166,404	2,520,000	1,646,404	1,596,404	0	50,000
Empire State Development	29,975,639	767,676	29,207,963	27,441,600	0	1,766,363
Energy Research and Development Authority	49,967,821	8,668,393	41,299,428	5,810,524	25,983,120	9,505,784
Environmental Conservation, Department of	7,342,873	1,952,180	5,390,693	4,754,917	185,776	450,000
Health, Department of	66,731,547	51,713,113	15,018,434	5,557,171	341,263	9,120,000
State Museum	9,911,688	8,430,806	1,480,882	1,384,567	45,126	51,189
Transportation, Department of	3,745,215	2,124,141	1,621,074	783,579	837,495	0
North Carolina	32,529,885	20,437,242	12,092,643	11,992,983	39,801	59,859
Agriculture and Consumer Services, Department of	17,944,847	13,544,847	4,400,000	4,400,000	0	0
Environment and Natural Resources, Department of	5,319,038	4,852,395	466,643	366,983	39,801	59,859
Transportation, Department of	9,266,000	2,040,000	7,226,000	7,226,000	0	0
North Dakota	6,034,991	530,023	5,504,968	3,808,257	1,140,311	556,400
Agriculture, Department of	137,903	0	137,903	137,903	0	0
Lignite Research Council	560,634	297,134	263,500	98,500	85,000	80,000

TABLE 22. State agency expenditures for R&D, by state, department or agency, and performer: FY 2012
(Dollars)

Department or agency	All R&D expenditures	Intramural performers[a]	Extramural performers			
			Total	Academic	Companies or individuals[b]	Other[c]
Mineral Resources, Department of	50,000	5,000	45,000	25,000	20,000	0
Oil and Gas Program	860,219	97,997	762,222	434,892	107,330	220,000
Renewable Energy Research Program	1,472,482	62,998	1,409,484	690,859	507,225	211,400
Soybean Council	904,207	0	904,207	904,207	0	0
Transportation, Department of	569,931	66,894	503,037	82,281	420,756	0
Wheat Commission	1,479,615	0	1,479,615	1,434,615	0	45,000
Ohio	153,382,845	2,246,092	151,136,753	6,583,380	144,370,849	182,524
Development Services Agency	143,949,463	0	143,949,463	0	143,949,463	0
Mental Health and Addiction Services, Department of	420,000	420,000	0	0	0	0
Natural Resources, Department of	4,952,239	1,528,995	3,423,244	3,423,244	0	0
Transportation, Department of	4,061,143	297,097	3,764,046	3,160,136	421,386	182,524
Oklahoma	23,133,843	1,057,822	22,076,021	17,116,145	3,786,126	1,173,750
Advancement of Science and Technology, Center for the	10,090,791	0	10,090,791	5,431,748	3,485,293	1,173,750
Agriculture, Food, and Forestry, Department of	1,008,868	5,000	1,003,868	882,395	121,473	0
Grand River Dam Authority	100,000	100,000	0	0	0	0
Health, State Department of	829,825	16,825	813,000	813,000	0	0
Sorghum Commission	12,500	0	12,500	12,500	0	0
Tobacco Settlement Endowment Trust	6,051,216	0	6,051,216	6,051,216	0	0
Transportation, Department of	2,721,721	935,997	1,785,724	1,785,724	0	0
Wheat Commission	200,860	0	200,860	21,500	179,360	0
Wildlife Conservation, Department of	2,118,062	0	2,118,062	2,118,062	0	0
Oregon	22,003,035	18,162,372	3,840,663	2,886,908	25,956	927,799
Agriculture, Department of	239,145	0	239,145	139,145	0	100,000
Fish and Wildlife, Department of	13,732,500	13,607,500	125,000	125,000	0	0
Forestry, Department of	325,868	21,379	304,489	303,482	1,007	0
Geology and Mineral Industries, Department of	3,995,911	3,853,022	142,889	142,889	0	0
Transportation, Department of	2,004,957	649,573	1,355,384	1,355,384	0	0
Watershed Enhancement Board	1,704,654	30,898	1,673,756	821,008	24,949	827,799
Pennsylvania	80,600,099	5,632,495	74,967,604	41,556,324	12,796,777	20,614,503
Agriculture, Department of	708,000	0	708,000	591,714	0	116,286
Community and Economic Development, Department of	13,876,129	0	13,876,129	6,163,627	7,712,502	0
Conservation and Natural Resources, Department of	752,315	210,638	541,677	129,693	238,485	173,499
Environmental Protection, Department of	2,135,435	468,953	1,666,482	1,532,522	133,960	0
Fish and Boat Commission	895,025	634,178	260,847	9,228	0	251,619
Game Commission	4,406,340	3,721,121	685,219	685,219	0	0
Health, Department of	54,088,921	0	54,088,921	31,009,324	3,006,498	20,073,099
Transportation, Department of	3,737,934	597,605	3,140,329	1,434,997	1,705,332	0
Rhode Island	2,028,402	20,000	2,008,402	1,830,857	177,545	0
Commerce Corporation	1,419,271	0	1,419,271	1,241,726	177,545	0
Transportation, Department of	609,131	20,000	589,131	589,131	0	0
South Carolina	72,467,293	49,917,998	22,549,295	11,758,222	10,685,654	105,419
Agriculture, Department of	402,388	0	402,388	222,388	180,000	0
Mental Health, Department of	189,334	88,450	100,884	100,884	0	0
Natural Resources, Department of	44,211,153	42,879,125	1,332,028	1,332,028	0	0
Research Authority	24,069,114	6,634,012	17,435,102	6,824,029	10,505,654	105,419
Sea Grant Consortium	1,826,972	307,007	1,519,965	1,519,965	0	0
Transportation, Department of	1,768,332	9,404	1,758,928	1,758,928	0	0
South Dakota	3,447,633	60,976	3,386,657	2,102,173	1,284,484	0
Agriculture, Department of	75,000	0	75,000	75,000	0	0
Game, Fish and Parks	1,894,989	0	1,894,989	1,835,050	59,939	0
Transportation, Department of	1,477,644	60,976	1,416,668	192,123	1,224,545	0
Tennessee	4,293,334	762,313	3,531,021	3,531,021	0	0
Environment and Conservation, Division of Archaeology, Department of	61,313	61,313	0	0	0	0

TABLE 22. State agency expenditures for R&D, by state, department or agency, and performer: FY 2012
(Dollars)

Department or agency	All R&D expenditures	Intramural performers[a]	Extramural performers			
			Total	Academic	Companies or individuals[b]	Other[c]
Environment and Conservation, Division of Remediation, Department of	681,000	681,000	0	0	0	0
Environment and Conservation, Division of Water Resources, Department of	175,000	20,000	155,000	155,000	0	0
Geological Survey	6,553	0	6,553	6,553	0	0
Transportation, Department of	3,369,468	0	3,369,468	3,369,468	0	0
Texas	146,989,380	12,375,067	134,614,313	112,740,527	21,428,113	445,673
Agriculture, Department of	2,147,725	0	2,147,725	2,114,775	0	32,950
Cancer Prevention and Research Institute	115,488,847	9,611,384	105,877,463	84,851,043	21,026,420	0
Environmental Quality, Commission on	1,000,000	0	1,000,000	1,000,000	0	0
Health and Human Services Commission	160,000	160,000	0	0	0	0
Parks and Wildlife Department	3,111,887	1,085,874	2,026,013	1,945,429	80,584	0
Transportation, Department of	22,715,697	760,430	21,955,267	21,955,267	0	0
Water Development Board	2,365,224	757,379	1,607,845	874,013	321,109	412,723
Utah	47,388,335	17,654,475	29,733,860	29,508,860	225,000	0
Health, Department of	274,475	274,475	0	0	0	0
Natural Resources, Department of	16,400,000	16,400,000	0	0	0	0
Science Technology and Research Initiative, Governor's Office of Economic Development	28,683,860	0	28,683,860	28,563,860	120,000	0
Transportation, Department of	2,030,000	980,000	1,050,000	945,000	105,000	0
Vermont	1,653,315	1,074,198	579,117	461,772	117,345	0
Agriculture, Food, and Markets, Agency of	671,077	602,577	68,500	34,250	34,250	0
Human Services, Agency of	160,853	160,853	0	0	0	0
Natural Resources, Agency of	115,469	107,310	8,159	8,159	0	0
Transportation, Agency of	705,916	203,458	502,458	419,363	83,095	0
Virginia	24,379,497	8,766,523	15,612,974	11,505,595	3,700,000	407,379
Agriculture and Consumer Services, Department of	1,552,434	0	1,552,434	1,545,055	0	7,379
Consolidated Laboratory Services, Division of	303,000	303,000	0	0	0	0
Corrections, Department of	1,085,144	1,085,144	0	0	0	0
Forensic Science, Department of	159,944	159,944	0	0	0	0
Innovative Technology, Center for	6,590,000	260,000	6,330,000	2,230,000	3,700,000	400,000
Marine Resources Commission	2,769,016	0	2,769,016	2,769,016	0	0
Mines, Minerals and Energy, Department of	1,446,394	1,446,394	0	0	0	0
Natural History, Museum of	559,119	559,119	0	0	0	0
Transportation, Department of	9,914,446	4,952,922	4,961,524	4,961,524	0	0
Washington	49,553,326	12,875,297	36,678,029	25,152,740	8,949,782	2,575,507
Archaeology and Historic Preservation, Department of	234,565	234,565	0	0	0	0
Agriculture, Department of	446,409	0	446,409	400,832	41,818	3,759
Ecology, Department of	332,220	144,000	188,220	152,500	720	35,000
Fish and Wildlife, Department of	5,005,913	4,805,913	200,000	200,000	0	0
Grain Commission	2,540,857	0	2,540,857	2,540,857	0	0
Labor and Industries, Department of	2,811,637	2,811,637	0	0	0	0
Life Sciences Discovery Fund	22,801,588	1,525,000	21,276,588	16,981,988	4,294,600	0
Natural Resources, Department of	5,247,161	1,283,464	3,963,697	4,132	1,422,817	2,536,748
Potato Commission	986,084	116,400	869,684	869,684	0	0
Puget Sound Partnership	282,647	12,300	270,347	2,795	267,552	0
Red Raspberry Commission	123,033	0	123,033	114,263	8,770	0
Transportation, Department of	4,893,607	1,517,018	3,376,589	463,084	2,913,505	0
Tree Fruit Research Commission	3,675,000	425,000	3,250,000	3,250,000	0	0
Wine Commission	172,605	0	172,605	172,605	0	0
West Virginia	33,580,156	4,965,278	28,614,878	28,069,044	134,098	411,736
Agriculture, Department of	206,137	206,137	0	0	0	0
Geological and Economic Survey	2,258,374	1,252,640	1,005,734	459,900	134,098	411,736
Higher Education Policy Commission	28,585,672	976,528	27,609,144	27,609,144	0	0
Justice and Community Services, Division of	11,973	11,973	0	0	0	0

TABLE 22. State agency expenditures for R&D, by state, department or agency, and performer: FY 2012
(Dollars)

Department or agency	All R&D expenditures	Intramural performers[a]	Extramural performers			
			Total	Academic	Companies or individuals[b]	Other[c]
Transportation, Department of	2,518,000	2,518,000	0	0	0	0
Wisconsin	17,861,390	6,896,219	10,965,171	4,839,791	4,117,217	2,008,163
Agriculture, Trade and Consumer Protection, Department of	864,399	213,915	650,484	626,674	23,810	0
Economic Development Corporation	3,781,450	0	3,781,450	0	3,781,450	0
Natural Resources, Department of	9,081,222	6,350,648	2,730,574	2,388,805	107,970	233,799
Transportation, Department of	4,134,319	331,656	3,802,663	1,824,312	203,987	1,774,364
Wyoming	6,879,286	3,615,536	3,263,750	2,783,349	308,401	172,000
Agriculture, Department of	293,909	0	293,909	121,909	0	172,000
Environmental Quality, Department of	100,000	0	100,000	100,000	0	0
Game and Fish Department	1,730,051	380,424	1,349,627	1,290,325	59,302	0
State Geological Survey	2,482,744	2,482,744	0	0	0	0
Transportation, Department of	1,872,582	752,368	1,120,214	871,115	249,099	0
Water Development Commission	400,000	0	400,000	400,000	0	0
Puerto Rico[e]	7,625,412	6,360,716	1,264,696	1,051,756	106,470	106,470
Agriculture, Department of	507,174	507,174	0	0	0	0
Health, Department of	3,122,975	3,122,975	0	0	0	0
Highways and Transportation Authority	200,000	0	200,000	200,000	0	0
Hospital San Juan[f, g]	1,933,258	1,933,258	0	0	0	0
Institute of Statistics	11,774	11,774	0	0	0	0
Manufacturing Extension, Incorporated[f]	380,860	380,860	0	0	0	0
Mental Health and Anti-Addiction Services Administration[f]	404,675	404,675	0	0	0	0
Science, Technology and Research Trust	1,064,696	0	1,064,696	851,756	106,470	106,470

[a] Intramural performers include employees within the same state department or agency in support of an internal R&D project.

[b] Companies and individuals include individuals under contract for research projects.

[c] Other includes federal government; nonprofit organizations; city, county, regional, or other local governments; other departments or agencies within the same state; and other state governments.

[d] U.S. total reflects all 50 states and the District of Columbia.

[e] Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

[f] Data are provided as imputed by the Puerto Rico Institute of Statistics.

[g] Operated by the San Juan municipal government.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FYs 2012 and 2013.

TABLE 23. State agency expenditures for R&D, by state, department or agency, and performer: FY 2013
(Dollars)

Department or agency	All R&D expenditures	Intramural performers[a]	Extramural performers			
			Total	Academic	Companies or individuals[b]	Other[c]
United States[d]	1,785,039,276	464,434,423	1,320,604,853	813,829,586	363,225,934	143,549,333
Alabama	13,292,741	9,160,769	4,131,972	3,985,785	60,082	86,105
Conservation and Natural Resources, Department of	2,307,054	829,378	1,477,676	1,331,489	60,082	86,105
Forensic Sciences, Department of	144,180	144,180	0	0	0	0
Geological Survey	3,196,187	3,196,187	0	0	0	0
Marine Environmental Science Consortium	4,991,024	4,991,024	0	0	0	0
Transportation, Department of	2,654,296	0	2,654,296	2,654,296	0	0
Alaska	6,689,384	5,963,195	726,189	726,189	0	0
Natural Resources, Department of	6,213,471	5,558,195	655,276	655,276	0	0
Transportation and Public Facilities, Department of	475,913	405,000	70,913	70,913	0	0
Arizona	27,810,970	16,141,770	11,669,200	4,130,964	7,246,255	291,981
Agriculture, Department of	668,045	0	668,045	643,576	0	24,469
Game and Fish Department	4,089,754	3,964,254	125,500	50,000	75,500	0
Geological Survey	9,538,303	8,770,816	767,487	387,238	328,837	51,412
Health Services, Department of	11,203,068	2,059,700	9,143,368	2,937,950	6,205,418	0
Transportation, Department of	2,311,800	1,347,000	964,800	112,200	636,500	216,100
Arkansas	16,518,947	2,992,079	13,526,868	12,551,097	975,771	0
Beef Council	18,730	0	18,730	18,730	0	0
Catfish Promotion Board	22,500	0	22,500	22,500	0	0
Corn and Grain Sorghum Board	805,000	0	805,000	746,500	58,500	0
Game and Fish Commission	891,397	528,338	363,059	363,059	0	0
Rice Research and Promotion Board	2,594,500	0	2,594,500	2,594,500	0	0
Science and Technology Authority	6,596,697	1,491,546	5,105,151	4,187,880	917,271	0
Soybean Promotion Board	3,412,674	0	3,412,674	3,412,674	0	0
State Highway and Transportation Department	1,915,324	972,195	943,129	943,129	0	0
Wheat Promotion Board	262,125	0	262,125	262,125	0	0
California	346,942,036	57,262,060	289,679,976	181,528,472	41,509,436	66,642,068
Air Resources Board	18,727,946	10,650,000	8,077,946	5,398,066	2,679,880	0
Children and Families Commission	750,000	0	750,000	750,000	0	0
Energy Commission	55,396,000	12,198,000	43,198,000	11,540,856	25,520,103	6,137,041
Environmental Health Hazard Assessment, Office of	12,737,703	12,659,938	77,765	21,751	0	56,014
Food and Agriculture, Department of	2,284,113	0	2,284,113	2,018,947	195,258	69,908
Forestry and Fire Protection, Department of	1,672,942	675,000	997,942	81,630	0	916,312
Institute for Regenerative Medicine	197,108,479	0	197,108,479	136,936,380	10,245,131	49,926,968
Motor Vehicles, Department of	1,554,440	1,554,440	0	0	0	0
Pesticide Regulation, Department of	7,822,000	5,476,000	2,346,000	1,139,000	100,000	1,107,000
Public Health, Genetic Disease, Department of	1,171,920	1,171,920	0	0	0	0
Public Health, Science and Education, Department of	800,000	800,000	0	0	0	0
Resources Recycling and Recovery, Department of	3,232,556	0	3,232,556	2,134,172	943,384	155,000
Seismic Safety Commission	245,900	0	245,900	245,900	0	0
Sierra Nevada Conservancy	47,711	0	47,711	47,711	0	0
Social Services, Department of	1,059,872	75,732	984,140	984,140	0	0
State Coastal Conservancy	1,638,868	0	1,638,868	724,511	207,885	706,472
State Hospitals, Department of	350,000	0	350,000	350,000	0	0
State Water Resources Control Board	1,400,000	0	1,400,000	0	0	1,400,000
Statewide Health Planning and Development, Office of	175,000	75,000	100,000	100,000	0	0
Transportation, Department of	35,038,000	10,506,000	24,532,000	18,000,000	1,304,000	5,228,000
Water Resources, Department of	3,728,586	1,420,030	2,308,556	1,055,408	313,795	939,353
Colorado	14,471,683	8,248,707	6,222,976	1,932,754	1,974,277	2,315,945
Economic Development and International Trade, Office of	3,107,542	0	3,107,542	1,117,206	1,217,105	773,231
Natural Resources, Department of	6,576,449	6,557,297	19,152	19,152	0	0
Public Health and Environment, Department of	1,459,114	0	1,459,114	0	0	1,459,114
Public Safety, Department of	989,741	989,741	0	0	0	0

TABLE 23. State agency expenditures for R&D, by state, department or agency, and performer: FY 2013
(Dollars)

Department or agency	All R&D expenditures	Intramural performers[a]	Extramural performers			
			Total	Academic	Companies or individuals[b]	Other[c]
Transportation, Department of	2,338,837	701,669	1,637,168	796,396	757,172	83,600
Connecticut	41,023,368	25,612,853	15,410,515	10,187,016	4,090,116	1,133,383
Agricultural Experiment Station	11,176,787	11,176,787	0	0	0	0
Energy and Environmental Protection, Department of	9,228,915	8,693,860	535,055	385,356	12,620	137,079
Mental Health and Addiction Services, Department of	4,895,486	3,710,504	1,184,982	1,184,982	0	0
Public Health, Department of	11,622,180	156,702	11,465,478	7,216,678	4,077,496	171,304
Transportation, Department of	4,100,000	1,875,000	2,225,000	1,400,000	0	825,000
Delaware	4,729,141	2,514,545	2,214,596	2,024,596	190,000	0
Geological Survey	1,784,107	1,784,107	0	0	0	0
Natural Resources and Environmental Control, Department of	970,438	730,438	240,000	50,000	190,000	0
Transportation, Department of	1,974,596	0	1,974,596	1,974,596	0	0
District of Columbia	1,848,800	435,813	1,412,987	864,989	547,998	0
Health, Department of	861,058	184,813	676,245	284,989	391,256	0
Transportation, Department of	987,742	251,000	736,742	580,000	156,742	0
Florida	118,781,266	47,372,831	71,408,435	39,786,696	24,263,813	7,357,926
Agriculture and Consumer Services, Department of	17,069,604	2,824,529	14,245,075	5,715,709	1,173,715	7,355,651
Citrus, Department of	5,843,133	161,909	5,681,224	5,409,732	271,492	0
Environmental Protection, Department of	3,068,175	2,262,702	805,473	700,000	105,473	0
Fish and Wildlife Conservation Commission	43,977,133	42,123,691	1,853,442	1,853,442	0	0
Health, Department of	38,382,971	0	38,382,971	15,775,884	22,607,087	0
Space Florida	1,160,380	0	1,160,380	1,052,059	106,046	2,275
Transportation, Department of	9,279,870	0	9,279,870	9,279,870	0	0
Georgia	12,697,846	2,041,101	10,656,745	10,656,745	0	0
Natural Resources, Department of	3,999,505	2,041,101	1,958,404	1,958,404	0	0
Transportation, Department of	8,698,341	0	8,698,341	8,698,341	0	0
Hawaii	13,094,794	4,320,992	8,773,802	3,153,217	5,170,585	450,000
Agriculture, Department of	1,516,064	490,000	1,026,064	576,064	0	450,000
Business, Economic Development, and Tourism, Department of	5,674,072	503,487	5,170,585	0	5,170,585	0
Health, Department of	190,000	190,000	0	0	0	0
Land and Natural Resources, Department of	4,484,602	2,565,206	1,919,396	1,919,396	0	0
Transportation, Department of	1,230,056	572,299	657,757	657,757	0	0
Idaho	12,929,174	7,836,031	5,093,143	3,629,206	576,020	887,917
Barley Commission	141,838	37,321	104,517	0	0	104,517
Bean Commission	106,035	105,885	150	0	150	0
Fish and Game, Department of	7,409,032	6,687,059	721,973	721,973	0	0
Potato Commission	1,332,536	499,366	833,170	610,000	223,170	0
Transportation Department	1,929,300	206,400	1,722,900	786,800	152,700	783,400
Water Resources, Department of	810,433	300,000	510,433	510,433	0	0
Wheat Commission	1,200,000	0	1,200,000	1,000,000	200,000	0
Illinois	17,999,229	1,663,080	16,336,149	12,316,808	224,060	3,795,281
Children and Family Services, Department of	7,748,399	0	7,748,399	7,748,399	0	0
Commerce and Economic Opportunity, Department of	225,000	0	225,000	225,000	0	0
Public Health, Department of	1,306,747	0	1,306,747	0	0	1,306,747
Transportation, Department of	8,719,083	1,663,080	7,056,003	4,343,409	224,060	2,488,534
Indiana	10,167,120	1,022,370	9,144,750	8,087,531	1,057,219	0
Criminal Justice Institute	360,000	245,000	115,000	115,000	0	0
Economic Development Corporation	1,763,216	0	1,763,216	708,497	1,054,719	0
Natural Resources, Department of	270,500	0	270,500	268,000	2,500	0
Transportation, Department of	7,773,404	777,370	6,996,034	6,996,034	0	0
Iowa	19,365,308	5,603,029	13,762,279	6,719,963	5,776,990	1,265,326
Economic Development Authority, Energy Office	6,340,014	0	6,340,014	1,531,270	4,808,744	0
Human Rights, Criminal and Juvenile Justice Planning, Division of	22,484	22,484	0	0	0	0

TABLE 23. State agency expenditures for R&D, by state, department or agency, and performer: FY 2013
(Dollars)

Department or agency	All R&D expenditures	Intramural performers[a]	Extramural performers			
			Total	Academic	Companies or individuals[b]	Other[c]
Natural Resources, Department of	3,517,000	3,517,000	0	0	0	0
Transportation, Department of	9,485,810	2,063,545	7,422,265	5,188,693	968,246	1,265,326
Kansas	5,708,223	1,577,722	4,130,501	3,171,725	0	958,776
Transportation, Department of	4,724,025	1,577,722	3,146,303	2,187,527	0	958,776
Wheat Commission	984,198	0	984,198	984,198	0	0
Kentucky	19,751,055	2,962,965	16,788,090	8,629,050	8,159,040	0
Budget and Fiscal Management, Office of	2,714,500	350,000	2,364,500	2,364,500	0	0
Early Childhood, Governor's Office of	228,618	0	228,618	228,618	0	0
Economic Development, Cabinet for	8,044,646	0	8,044,646	0	8,044,646	0
Education Professional Standards Board	401,544	373,847	27,697	27,697	0	0
Energy Development and Independence, Department for	3,294,541	0	3,294,541	3,294,541	0	0
Fish and Wildlife Resources, Department of	2,615,188	2,214,118	401,070	286,676	114,394	0
Horse Racing Commission	312,518	0	312,518	312,518	0	0
Public Health, Department for	2,111,500	0	2,111,500	2,111,500	0	0
State Nature Preserves Commission	28,000	25,000	3,000	3,000	0	0
Louisiana	15,713,110	5,081,221	10,631,889	5,662,081	3,139,795	1,830,013
Coastal Protection and Restoration Authority	5,731,257	240,000	5,491,257	1,040,000	2,621,244	1,830,013
Transportation and Development, Department of	6,965,116	2,559,170	4,405,946	3,994,895	411,051	0
Wildlife and Fisheries, Department of	3,016,737	2,282,051	734,686	627,186	107,500	0
Maine	6,109,793	1,154,177	4,955,616	658,341	25,000	4,272,275
Agriculture, Conservation and Forestry, Department of	460,000	460,000	0	0	0	0
Drug Enforcement Agency	30,000	0	30,000	30,000	0	0
Environmental Protection, Department of	235,000	160,000	75,000	50,000	25,000	0
Inland Fisheries and Wildlife, Department of	159,834	0	159,834	159,834	0	0
Marine Resources, Department of	431,240	222,030	209,210	209,210	0	0
Technology Institute	4,272,275	0	4,272,275	0	0	4,272,275
Transportation, Department of	521,444	312,147	209,297	209,297	0	0
Maryland	29,467,445	572,247	28,895,198	26,860,408	1,887,108	147,682
Business and Economic Development, Department of	1,647,108	0	1,647,108	0	1,647,108	0
Health and Mental Hygiene, Department of	5,800,000	0	5,800,000	5,800,000	0	0
Natural Resources, Department of	832,243	382,247	449,996	397,314	40,000	12,682
Technology Development Corporation	19,410,014	0	19,410,014	19,410,014	0	0
Transportation, Department of	1,778,080	190,000	1,588,080	1,253,080	200,000	135,000
Massachusetts	4,590,424	1,083,202	3,507,222	2,012,271	243,488	1,251,463
Environmental Protection, Department of	246,613	186,186	60,427	27,209	33,218	0
Fish and Game, Department of	784,707	749,161	35,546	0	35,546	0
Mental Health, Department of	1,892,550	147,855	1,744,695	1,744,695	0	0
Public Health, Department of	1,666,554	0	1,666,554	240,367	174,724	1,251,463
Michigan	12,830,423	2,651,063	10,179,360	7,017,934	661,426	2,500,000
Agriculture and Rural Development, Department of	513,396	0	513,396	451,970	61,426	0
Environmental Quality, Department of	45,745	0	45,745	45,745	0	0
Natural Resources, Department of	4,571,282	951,063	3,620,219	3,620,219	0	0
Transportation, Department of	7,700,000	1,700,000	6,000,000	2,900,000	600,000	2,500,000
Minnesota	14,855,954	1,007,122	13,848,832	8,198,550	3,398,510	2,251,772
Agriculture, Department of	2,526,558	801,791	1,724,767	1,145,430	458,354	120,983
Forest Resources Council	51,831	51,831	0	0	0	0
Pollution Control Agency	979,973	0	979,973	394,821	266,308	318,844
Transportation, Department of	11,297,592	153,500	11,144,092	6,658,299	2,673,848	1,811,945
Mississippi	4,863,312	2,094,537	2,768,775	1,446,282	699,542	622,951
Transportation, Department of	3,300,936	1,127,000	2,173,936	940,934	610,051	622,951
Wildlife, Fisheries, and Parks, Department of	1,562,376	967,537	594,839	505,348	89,491	0

TABLE 23. State agency expenditures for R&D, by state, department or agency, and performer: FY 2013
(Dollars)

Department or agency	All R&D expenditures	Intramural performers[a]	Extramural performers			
			Total	Academic	Companies or individuals[b]	Other[c]
Missouri	13,051,110	6,696,607	6,354,503	4,065,979	1,888,646	399,878
Agriculture, Department of	381,475	0	381,475	381,475	0	0
Conservation, Department of	9,030,901	6,209,234	2,821,667	2,565,139	0	256,528
Natural Resources, Department of	266,597	43,315	223,282	147,232	0	76,050
Transportation, Department of	3,372,137	444,058	2,928,079	972,133	1,888,646	67,300
Montana	6,570,018	2,035,229	4,534,789	2,846,679	1,229,298	458,812
Agriculture, Department of	1,929,948	0	1,929,948	1,260,128	669,820	0
Environmental Quality, Department of	237,328	122,464	114,864	38,775	7,449	68,640
Fish, Wildlife and Parks	2,160,798	1,650,054	510,744	311,757	0	198,987
Natural Resources and Conservation, Department of	140,945	0	140,945	6,000	0	134,945
Transportation, Department of	2,100,999	262,711	1,838,288	1,230,019	552,029	56,240
Nebraska	7,274,333	368,009	6,906,324	3,333,011	2,911,347	661,966
Agriculture, Department of	388,885	0	388,885	307,977	80,908	0
Corn Board	468,089	0	468,089	468,089	0	0
Dry Bean Commission	178,386	178,386	0	0	0	0
Economic Development, Department of	2,317,862	0	2,317,862	546,000	1,771,862	0
Grain Sorghum Board	15,000	0	15,000	15,000	0	0
Natural Resources, Department of	1,894,916	186,573	1,708,343	0	1,046,377	661,966
Roads, Department of	1,706,203	0	1,706,203	1,706,203	0	0
Wheat Board	304,992	3,050	301,942	289,742	12,200	0
Nevada	1,640,871	366,804	1,274,067	1,214,270	59,797	0
Transportation, Department of	1,595,463	365,395	1,230,068	1,170,271	59,797	0
Wildlife, Department of	45,408	1,409	43,999	43,999	0	0
New Hampshire	1,788,396	683,882	1,104,514	723,490	295,016	86,008
Agriculture, Markets and Food, Department of	121,435	0	121,435	121,435	0	0
Resources and Economic Development, Department of	440,000	317,000	123,000	0	123,000	0
Transportation, Department of	1,226,961	366,882	860,079	602,055	172,016	86,008
New Jersey	22,413,516	2,920,843	19,492,673	15,010,540	42,158	4,439,975
Brain Injury Research, Commission on	3,924,029	110,750	3,813,279	3,245,228	0	568,051
Cancer Research, Commission on	1,345,672	0	1,345,672	1,345,672	0	0
Environmental Protection, Department of	2,929,505	1,527,000	1,402,505	1,402,505	0	0
Medical Research and Treatment of Autism, Governor's Council for	6,883,804	194,600	6,689,204	4,039,358	0	2,649,846
Spinal Cord Research, Commission on	3,082,046	117,400	2,964,646	1,742,568	0	1,222,078
Transportation, Department of	4,248,460	971,093	3,277,367	3,235,209	42,158	0
New Mexico	2,015,961	768,893	1,247,068	899,274	347,794	0
State Engineer, Office of the	96,182	63,418	32,764	509	32,255	0
Transportation, Department of	1,919,779	705,475	1,214,304	898,765	315,539	0
New York	177,063,220	73,922,295	103,140,925	63,917,143	21,302,230	17,921,552
Agriculture and Markets, Department of	3,872,277	2,520,000	1,352,277	1,302,277	0	50,000
Empire State Development	46,870,153	785,139	46,085,014	43,110,139	0	2,974,875
Energy Research and Development Authority	40,614,938	9,459,782	31,155,156	5,224,219	20,125,263	5,805,674
Environmental Conservation, Department of	7,148,310	2,134,100	5,014,210	4,404,454	185,776	423,980
Health, Department of	64,264,233	48,381,213	15,883,020	7,043,244	227,776	8,612,000
State Museum	10,096,183	8,556,407	1,539,776	1,467,628	17,125	55,023
Transportation, Department of	4,197,126	2,085,654	2,111,472	1,365,182	746,290	0
North Carolina	30,649,974	20,501,169	10,148,805	10,114,063	3,000	31,742
Agriculture and Consumer Services, Department of	17,947,847	13,544,847	4,403,000	4,400,000	3,000	0
Environment and Natural Resources, Department of	5,382,127	4,916,322	465,805	434,063	0	31,742
Transportation, Department of	7,320,000	2,040,000	5,280,000	5,280,000	0	0
North Dakota	7,364,184	429,670	6,934,514	4,770,522	1,678,992	485,000
Agriculture, Department of	82,238	0	82,238	82,238	0	0
Lignite Research Council	2,145,106	245,000	1,900,106	1,042,506	737,600	120,000

TABLE 23. State agency expenditures for R&D, by state, department or agency, and performer: FY 2013
(Dollars)

Department or agency	All R&D expenditures	Intramural performers[a]	Extramural performers			
			Total	Academic	Companies or individuals[b]	Other[c]
Mineral Resources, Department of	65,000	20,000	45,000	25,000	20,000	0
Oil and Gas Program	1,447,730	45,863	1,401,867	981,867	180,000	240,000
Renewable Energy Research Program	645,926	36,204	609,722	278,222	256,500	75,000
Soybean Council	1,056,806	0	1,056,806	1,056,806	0	0
Transportation, Department of	584,875	82,603	502,272	17,380	484,892	0
Wheat Commission	1,336,503	0	1,336,503	1,286,503	0	50,000
Ohio	188,311,926	2,040,795	186,271,131	11,137,148	174,949,894	184,089
Development Services Agency	173,959,505	0	173,959,505	0	173,959,505	0
Mental Health and Addiction Services, Department of	320,000	320,000	0	0	0	0
Natural Resources, Department of	5,734,274	1,344,563	4,389,711	4,389,711	0	0
Transportation, Department of	8,298,147	376,232	7,921,915	6,747,437	990,389	184,089
Oklahoma	28,224,758	1,074,816	27,149,942	22,220,618	1,271,123	3,658,201
Advancement of Science and Technology, Center for the	8,795,761	0	8,795,761	4,497,560	650,000	3,648,201
Agriculture, Food, and Forestry, Department of	1,008,868	5,000	1,003,868	882,395	121,473	0
Grand River Dam Authority	100,000	100,000	0	0	0	0
Health, State Department of	834,153	16,153	818,000	818,000	0	0
Sorghum Commission	25,000	0	25,000	15,000	0	10,000
Tobacco Settlement Endowment Trust	8,271,695	0	8,271,695	8,271,695	0	0
Transportation, Department of	4,026,505	953,663	3,072,842	3,072,842	0	0
Wheat Commission	799,650	0	799,650	300,000	499,650	0
Wildlife Conservation, Department of	4,363,126	0	4,363,126	4,363,126	0	0
Oregon	23,083,506	19,524,508	3,558,998	3,036,359	187,550	335,089
Agriculture, Department of	330,243	0	330,243	74,272	0	255,971
Fish and Wildlife, Department of	14,034,000	13,974,000	60,000	60,000	0	0
Forestry, Department of	753,417	146,459	606,958	561,990	44,968	0
Geology and Mineral Industries, Department of	5,221,905	4,786,832	435,073	435,073	0	0
Transportation, Department of	2,639,702	592,096	2,047,606	1,905,024	142,582	0
Watershed Enhancement Board	104,239	25,121	79,118	0	0	79,118
Pennsylvania	66,429,400	6,675,458	59,753,942	36,145,510	12,964,338	10,644,094
Agriculture, Department of	786,545	0	786,545	564,634	0	221,911
Community and Economic Development, Department of	11,281,404	0	11,281,404	2,155,259	8,426,145	700,000
Conservation and Natural Resources, Department of	616,084	166,407	449,677	93,866	273,048	82,763
Environmental Protection, Department of	3,709,611	763,500	2,946,111	2,232,399	343,744	369,968
Fish and Boat Commission	737,805	664,712	73,093	5,388	0	67,705
Game Commission	4,762,801	4,517,420	245,381	245,381	0	0
Health, Department of	40,892,467	0	40,892,467	29,490,720	2,200,000	9,201,747
Transportation, Department of	3,642,683	563,419	3,079,264	1,357,863	1,721,401	0
Rhode Island	1,640,778	225,050	1,415,728	1,415,728	0	0
Commerce Corporation	810,541	0	810,541	810,541	0	0
Transportation, Department of	830,237	225,050	605,187	605,187	0	0
South Carolina	47,732,177	37,004,464	10,727,713	7,144,089	3,502,057	81,567
Agriculture, Department of	158,505	0	158,505	112,692	45,813	0
Mental Health, Department of	189,334	88,450	100,884	100,884	0	0
Natural Resources, Department of	35,068,126	33,965,413	1,102,713	1,102,713	0	0
Research Authority	9,055,708	2,643,670	6,412,038	2,874,227	3,456,244	81,567
Sea Grant Consortium	1,318,003	306,931	1,011,072	1,011,072	0	0
Transportation, Department of	1,942,501	0	1,942,501	1,942,501	0	0
South Dakota	3,660,854	114,425	3,546,429	2,110,564	1,418,365	17,500
Agriculture, Department of	75,000	0	75,000	75,000	0	0
Game, Fish and Parks	1,774,517	0	1,774,517	1,756,145	18,372	0
Transportation, Department of	1,811,337	114,425	1,696,912	279,419	1,399,993	17,500
Tennessee	3,430,476	784,848	2,645,628	2,645,628	0	0
Environment and Conservation, Division of Archaeology, Department of	58,348	58,348	0	0	0	0

TABLE 23. State agency expenditures for R&D, by state, department or agency, and performer: FY 2013
(Dollars)

Department or agency	All R&D expenditures	Intramural performers[a]	Extramural performers			
			Total	Academic	Companies or individuals[b]	Other[c]
Environment and Conservation, Division of Remediation, Department of	706,500	706,500	0	0	0	0
Environment and Conservation, Division of Water Resources, Department of	160,000	20,000	140,000	140,000	0	0
Geological Survey	0	0	0	0	0	0
Transportation, Department of	2,505,628	0	2,505,628	2,505,628	0	0
Texas	185,199,541	11,746,259	173,453,282	160,260,834	12,419,381	773,067
Agriculture, Department of	1,695,975	0	1,695,975	1,569,819	0	126,156
Cancer Prevention and Research Institute	154,841,396	7,796,727	147,044,669	134,779,706	12,264,963	0
Environmental Quality, Commission on	1,000,000	0	1,000,000	1,000,000	0	0
Health and Human Services Commission	175,000	175,000	0	0	0	0
Parks and Wildlife Department	3,964,934	1,346,054	2,618,880	2,527,691	85,319	5,870
Transportation, Department of	20,671,237	1,460,851	19,210,386	19,210,386	0	0
Water Development Board	2,850,999	967,627	1,883,372	1,173,232	69,099	641,041
Utah	53,636,842	17,979,931	35,656,911	35,041,910	615,001	0
Health, Department of	79,931	79,931	0	0	0	0
Natural Resources, Department of	16,900,000	16,900,000	0	0	0	0
Science Technology and Research Initiative, Governor's Office of Economic Development	34,226,911	0	34,226,911	33,791,910	435,001	0
Transportation, Department of	2,430,000	1,000,000	1,430,000	1,250,000	180,000	0
Vermont	1,827,562	1,160,193	667,369	506,746	160,623	0
Agriculture, Food, and Markets, Agency of	717,564	649,064	68,500	34,250	34,250	0
Human Services, Agency of	170,780	170,780	0	0	0	0
Natural Resources, Agency of	102,379	94,663	7,716	7,716	0	0
Transportation, Agency of	836,839	245,686	591,153	464,780	126,373	0
Virginia	25,917,935	13,046,471	12,871,464	11,461,436	1,100,000	310,028
Agriculture and Consumer Services, Department	1,569,509	0	1,569,509	1,559,481	0	10,028
Consolidated Laboratory Services, Division of	118,000	118,000	0	0	0	0
Corrections, Department of	1,038,630	1,038,630	0	0	0	0
Forensic Science, Department of	143,396	143,396	0	0	0	0
Innovative Technology, Center for	3,320,000	220,000	3,100,000	1,700,000	1,100,000	300,000
Marine Resources Commission	2,655,774	0	2,655,774	2,655,774	0	0
Mines, Minerals and Energy, Department of	2,307,537	2,307,537	0	0	0	0
Natural History, Museum of	666,462	666,462	0	0	0	0
Transportation, Department of	14,098,627	8,552,446	5,546,181	5,546,181	0	0
Washington	47,122,876	12,820,150	34,302,726	28,032,951	4,314,094	1,955,681
Agriculture, Department of	464,626	0	464,626	335,455	116,119	13,052
Archaeology and Historic Preservation, Department of	372,376	372,376	0	0	0	0
Ecology, Department of	515,663	228,000	287,663	152,500	100,163	35,000
Fish and Wildlife, Department of	5,245,951	5,045,951	200,000	200,000	0	0
Grain Commission	2,821,984	0	2,821,984	2,821,984	0	0
Labor and Industries, Department of	2,998,176	2,998,176	0	0	0	0
Life Sciences Discovery Fund	19,586,521	1,348,000	18,238,521	18,238,521	0	0
Natural Resources, Department of	5,054,857	1,592,083	3,462,774	86,882	1,468,263	1,907,629
Potato Commission	986,084	116,400	869,684	869,684	0	0
Puget Sound Partnership	238,659	12,300	226,359	147,760	78,599	0
Red Raspberry Commission	164,600	0	164,600	150,100	14,500	0
Transportation, Department of	4,257,879	581,864	3,676,015	1,139,565	2,536,450	0
Tree Fruit Research Commission	4,025,000	525,000	3,500,000	3,500,000	0	0
Wine Commission	390,500	0	390,500	390,500	0	0
West Virginia	19,027,684	4,764,417	14,263,267	13,008,092	676,365	578,810
Agriculture, Department of	93,033	93,033	0	0	0	0
Geological and Economic Survey	2,904,573	1,252,692	1,651,881	396,706	676,365	578,810
Higher Education Policy Commission	13,289,192	677,806	12,611,386	12,611,386	0	0
Justice and Community Services, Division of	11,886	11,886	0	0	0	0

TABLE 23. State agency expenditures for R&D, by state, department or agency, and performer: FY 2013
(Dollars)

Department or agency	All R&D expenditures	Intramural performers[a]	Extramural performers			
			Total	Academic	Companies or individuals[b]	Other[c]
Transportation, Department of	2,729,000	2,729,000	0	0	0	0
Wisconsin	21,212,446	7,402,664	13,809,782	3,681,533	7,792,839	2,335,410
Agriculture, Trade and Consumer Protection, Department of	640,941	104,851	536,090	498,875	37,215	0
Economic Development Corporation	7,462,000	0	7,462,000	0	7,462,000	0
Natural Resources, Department of	8,894,211	6,778,381	2,115,830	1,862,040	56,090	197,700
Transportation, Department of	4,215,294	519,432	3,695,862	1,320,618	237,534	2,137,710
Wyoming	6,497,386	3,001,092	3,496,294	3,146,799	219,495	130,000
Agriculture, Department of	252,098	0	252,098	122,098	0	130,000
Environmental Quality, Department of	100,000	0	100,000	100,000	0	0
Game and Fish Department	1,881,499	431,877	1,449,622	1,372,438	77,184	0
State Geological Survey	2,225,936	2,225,936	0	0	0	0
Transportation, Department of	1,637,853	343,279	1,294,574	1,152,263	142,311	0
Water Development Commission	400,000	0	400,000	400,000	0	0
Puerto Rico[e]	7,949,965	6,084,344	1,865,621	1,645,621	110,000	110,000
Agriculture, Department of	649,048	649,048	0	0	0	0
Education Council	565,621	0	565,621	565,621	0	0
Health, Department of	2,705,482	2,705,482	0	0	0	0
Highways and Transportation Authority	200,000	0	200,000	200,000	0	0
Hospital San Juan[f, g]	1,962,118	1,962,118	0	0	0	0
Institute of Statistics	37,601	37,601	0	0	0	0
Manufacturing Extension, Incorporated[f]	319,379	319,379	0	0	0	0
Mental Health and Anti-Addiction Services Administration[f]	410,716	410,716	0	0	0	0
Science, Technology and Research Trust	1,100,000	0	1,100,000	880,000	110,000	110,000

[a] Intramural performers include employees within the same state department or agency in support of an internal R&D project.

[b] Companies and individuals include individuals under contract for research projects.

[c] Other includes federal government; nonprofit organizations; city, county, regional, or other local governments; other departments or agencies within the same state; and other state governments.

[d] U.S. total reflects all 50 states and the District of Columbia.

[e] Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

[f] Data are provided as imputed by the Puerto Rico Institute of Statistics.

[g] Operated by the San Juan municipal government.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FYs 2012 and 2013.

TABLE 24. State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2012
(Dollars)

Department or agency	Total	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other[a]
United States[b]	1,795,159,257	96,578,888	230,393,936	357,528,082	689,781,239	252,070,334	168,806,778
Alabama	17,352,984	0	788,212	12,879,773	0	3,348,079	336,920
Conservation and Natural Resources, Department of	6,511,092	0	0	6,511,092	0	0	0
Forensic Sciences, Department of	336,920	0	0	0	0	0	336,920
Geological Survey	2,588,932	0	788,212	1,800,720	0	0	0
Marine Environmental Science Consortium	4,567,961	0	0	4,567,961	0	0	0
Transportation, Department of	3,348,079	0	0	0	0	3,348,079	0
Alaska	5,467,944	99,934	1,438,817	3,702,011	0	227,182	0
Natural Resources, Department of	5,240,762	99,934	1,438,817	3,702,011	0	0	0
Transportation and Public Facilities, Department of	227,182	0	0	0	0	227,182	0
Arizona	22,809,895	616,827	6,243,529	5,327,071	8,805,168	1,817,300	0
Agriculture, Department of	753,581	616,827	0	136,754	0	0	0
Game and Fish Department	3,372,974	0	0	3,372,974	0	0	0
Geological Survey	7,804,412	0	6,243,529	1,560,883	0	0	0
Health Services, Department of	8,805,168	0	0	0	8,805,168	0	0
Transportation, Department of	2,073,760	0	0	256,460	0	1,817,300	0
Arkansas	15,518,374	8,803,765	2,913,191	707,557	479,000	2,057,208	557,653
Beef Council	67,450	67,450	0	0	0	0	0
Catfish Promotion Board	32,000	32,000	0	0	0	0	0
Corn and Grain Sorghum Board	668,900	668,900	0	0	0	0	0
Game and Fish Commission	692,557	0	0	692,557	0	0	0
Rice Research and Promotion Board	2,318,512	2,318,512	0	0	0	0	0
Science and Technology Authority	6,168,326	2,203,482	2,913,191	15,000	479,000	0	557,653
Soybean Promotion Board	3,250,921	3,250,921	0	0	0	0	0
State Highway and Transportation Department	2,057,208	0	0	0	0	2,057,208	0
Wheat Promotion Board	262,500	262,500	0	0	0	0	0
California	401,522,758	5,640,401	75,756,774	26,096,846	253,217,501	36,897,000	3,914,236
Air Resources Board	14,346,132	0	0	14,346,132	0	0	0
Children and Families Commission	770,468	0	0	0	385,234	0	385,234
Energy Commission	75,665,000	0	75,665,000	0	0	0	0
Environmental Health Hazard Assessment, Office of	12,705,197	0	91,774	193,493	12,419,930	0	0
Food and Agriculture, Department of	2,973,167	2,973,167	0	0	0	0	0
Forestry and Fire Protection, Department of	1,903,305	0	0	578,305	0	0	1,325,000
Institute for Regenerative Medicine	231,753,694	0	0	0	231,753,694	0	0
Motor Vehicles, Department of	1,437,293	0	0	0	1,437,293	0	0
Pesticide Regulation, Department of	8,369,000	1,844,000	0	2,269,000	4,256,000	0	0
Public Health, Genetic Disease, Department of	2,390,350	0	0	0	2,390,350	0	0
Public Health, Science and Education, Department of	800,000	750,000	0	0	50,000	0	0
Resources Recycling and Recovery, Department of	2,042,521	0	0	2,042,521	0	0	0
Seismic Safety Commission	459,827	0	0	0	0	0	459,827
Social Services, Department of	815,778	0	0	0	0	0	815,778

TABLE 24. State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2012
(Dollars)

Department or agency	Total	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other[a]
State Coastal Conservancy	1,564,593	0	0	1,564,593	0	0	0
State Hospitals, Department of	350,000	0	0	0	350,000	0	0
State Water Resources Control Board	200,000	0	0	200,000	0	0	0
Statewide Health Planning and Development, Office of	175,000	0	0	0	175,000	0	0
Transportation, Department of	36,897,000	0	0	0	0	36,897,000	0
Water Resources, Department of	5,904,433	73,234	0	4,902,802	0	0	928,397
Colorado	14,928,809	0	313,762	6,957,024	5,131,657	1,623,980	902,386
Economic Development and International Trade, Office of	3,986,305	0	313,762	0	3,672,543	0	0
Natural Resources, Department of	6,957,024	0	0	6,957,024	0	0	0
Public Health and Environment, Department of	1,459,114	0	0	0	1,459,114	0	0
Public Safety, Department of	902,386	0	0	0	0	0	902,386
Transportation, Department of	1,623,980	0	0	0	0	1,623,980	0
Connecticut	40,017,523	3,256,124	571,414	12,661,538	19,510,447	4,018,000	0
Agricultural Experiment Station	11,083,069	3,256,124	571,414	4,638,112	2,617,419	0	0
Energy and Environmental Protection, Department of	8,023,426	0	0	8,023,426	0	0	0
Mental Health and Addiction Services, Department of	4,492,470	0	0	0	4,492,470	0	0
Public Health, Department of	12,400,558	0	0	0	12,400,558	0	0
Transportation, Department of	4,018,000	0	0	0	0	4,018,000	0
Delaware	4,635,720	0	0	2,231,693	0	2,404,027	0
Geological Survey	1,392,201	0	0	1,392,201	0	0	0
Natural Resources and Environmental Control, Department of	839,492	0	0	839,492	0	0	0
Transportation, Department of	2,404,027	0	0	0	0	2,404,027	0
District of Columbia	2,018,447	0	0	0	656,448	1,361,999	0
Health, Department of	656,448	0	0	0	656,448	0	0
Transportation, Department of	1,361,999	0	0	0	0	1,361,999	0
Florida	136,706,540	19,671,322	8,476,266	48,709,314	47,079,479	11,836,984	933,175
Agriculture and Consumer Services, Department of	19,111,188	9,173,987	8,241,722	558,395	203,909	0	933,175
Citrus, Department of	11,250,400	10,497,335	0	0	753,065	0	0
Environmental Protection, Department of	3,228,954	0	0	3,228,954	0	0	0
Fish and Wildlife Conservation Commission	44,921,965	0	0	44,921,965	0	0	0
Health, Department of	46,122,505	0	0	0	46,122,505	0	0
Space Florida	737,383	0	234,544	0	0	502,839	0
Transportation, Department of	11,334,145	0	0	0	0	11,334,145	0
Georgia	12,820,412	0	800,000	2,607,843	0	9,012,569	400,000
Herty Advanced Materials Development Center	2,500,000	0	800,000	0	0	1,300,000	400,000
Natural Resources, Department of	2,607,843	0	0	2,607,843	0	0	0
Transportation, Department of	7,712,569	0	0	0	0	7,712,569	0
Hawaii	11,145,520	1,516,064	4,024,303	4,533,302	190,000	881,851	0
Agriculture, Department of	1,516,064	1,516,064	0	0	0	0	0
Business, Economic Development, and Tourism, Department of	4,024,303	0	4,024,303	0	0	0	0

TABLE 24. State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2012
(Dollars)

Department or agency	Total	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other[a]
Health, Department of	190,000	0	0	0	190,000	0	0
Land and Natural Resources, Department of	4,533,302	0	0	4,533,302	0	0	0
Transportation, Department of	881,851	0	0	0	0	881,851	0
Idaho	11,785,529	2,344,664	0	8,072,165	0	1,368,700	0
Barley Commission	129,566	129,566	0	0	0	0	0
Bean Commission	75,171	75,171	0	0	0	0	0
Environmental Quality, Department of	30,451	0	0	30,451	0	0	0
Fish and Game, Department of	7,391,714	0	0	7,391,714	0	0	0
Potato Commission	1,007,267	1,007,267	0	0	0	0	0
Transportation Department	1,368,700	0	0	0	0	1,368,700	0
Water Resources, Department of	782,660	132,660	0	650,000	0	0	0
Wheat Commission	1,000,000	1,000,000	0	0	0	0	0
Illinois	17,859,438	0	21,110	0	4,383,094	7,354,832	6,100,402
Children and Family Services, Department of	8,535,674	0	0	0	2,435,272	0	6,100,402
Commerce and Economic Opportunity, Department of	21,110	0	21,110	0	0	0	0
Public Health, Department of	1,947,822	0	0	0	1,947,822	0	0
Transportation, Department of	7,354,832	0	0	0	0	7,354,832	0
Indiana	7,667,988	177,000	0	15,000	135,000	6,927,051	413,937
Criminal Justice Institute	413,937	0	0	0	0	0	413,937
Economic Development Corporation	806,000	0	0	0	135,000	671,000	0
Natural Resources, Department of	192,000	177,000	0	15,000	0	0	0
Transportation, Department of	6,256,051	0	0	0	0	6,256,051	0
Iowa	16,147,249	0	5,207,302	3,278,552	0	7,638,920	22,475
Economic Development Authority, Energy Office	5,207,302	0	5,207,302	0	0	0	0
Human Rights, Criminal and Juvenile Justice Planning, Division of	22,475	0	0	0	0	0	22,475
Natural Resources, Department of	3,278,552	0	0	3,278,552	0	0	0
Transportation, Department of	7,638,920	0	0	0	0	7,638,920	0
Kansas	6,160,680	1,013,350	0	0	0	5,147,330	0
Transportation, Department of	5,147,330	0	0	0	0	5,147,330	0
Wheat Commission	1,013,350	1,013,350	0	0	0	0	0
Kentucky	19,886,257	478,313	4,809,927	5,902,607	4,695,084	3,324,600	675,726
Budget and Fiscal Management, Office of	4,074,600	0	0	750,000	0	3,324,600	0
Early Childhood, Governor's Office of	247,996	0	0	0	0	0	247,996
Economic Development, Cabinet for	7,634,353	0	2,544,785	2,544,784	2,544,784	0	0
Education Professional Standards Board	427,730	0	0	0	0	0	427,730
Energy Development and Independence, Department for	2,265,142	0	2,265,142	0	0	0	0
Fish and Wildlife Resources, Department of	2,569,823	0	0	2,569,823	0	0	0
Horse Racing Commission	478,313	478,313	0	0	0	0	0
Public Health, Department for	2,150,300	0	0	0	2,150,300	0	0
State Nature Preserves Commission	38,000	0	0	38,000	0	0	0

TABLE 24. State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2012
(Dollars)

Department or agency	Total	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other[a]
Louisiana	18,143,396	0	0	10,305,857	0	6,975,472	862,067
Coastal Protection and Restoration Authority	8,620,668	0	0	7,758,601	0	0	862,067
Transportation and Development, Department of	6,975,472	0	0	0	0	6,975,472	0
Wildlife and Fisheries, Department of	2,547,256	0	0	2,547,256	0	0	0
Maine	7,094,736	933,637	821,675	1,615,411	414,740	354,463	2,954,810
Agriculture, Conservation and Forestry, Department of	380,000	0	0	380,000	0	0	0
Drug Enforcement Agency	75,000	0	0	0	0	0	75,000
Environmental Protection, Department of	205,000	10,000	10,000	185,000	0	0	0
Inland Fisheries and Wildlife, Department of	27,000	0	0	27,000	0	0	0
Marine Resources, Department of	824,751	0	0	824,751	0	0	0
Technology Institute	5,228,522	923,637	811,675	198,660	414,740	0	2,879,810
Transportation, Department of	354,463	0	0	0	0	354,463	0
Maryland	21,890,225	300,000	300,000	963,777	17,851,235	1,928,111	547,102
Business and Economic Development, Department of	1,650,500	0	0	0	1,650,500	0	0
Health and Mental Hygiene, Department of	2,400,000	0	0	0	2,400,000	0	0
Natural Resources, Department of	763,777	0	0	763,777	0	0	0
Technology Development Corporation	15,147,837	300,000	300,000	200,000	13,800,735	0	547,102
Transportation, Department of	1,928,111	0	0	0	0	1,928,111	0
Massachusetts	3,918,500	0	0	928,129	2,990,371	0	0
Environmental Protection, Department of	236,527	0	0	236,527	0	0	0
Fish and Game, Department of	691,602	0	0	691,602	0	0	0
Mental Health, Department of	1,889,449	0	0	0	1,889,449	0	0
Public Health, Department of	1,100,922	0	0	0	1,100,922	0	0
Michigan	12,557,954	493,895	0	3,164,059	0	8,900,000	0
Agriculture and Rural Development, Department of	437,895	437,895	0	0	0	0	0
Natural Resources, Department of	3,220,059	56,000	0	3,164,059	0	0	0
Transportation, Department of	8,900,000	0	0	0	0	8,900,000	0
Minnesota	11,524,686	1,721,463	1,702,500	673,544	0	7,427,179	0
Agriculture, Department of	3,907,984	1,621,282	1,702,500	584,202	0	0	0
Forest Resources Council	45,273	19,108	0	26,165	0	0	0
Pollution Control Agency	63,177	0	0	63,177	0	0	0
Transportation, Department of	7,508,252	81,073	0	0	0	7,427,179	0
Mississippi	6,260,080	0	0	1,458,268	0	4,801,812	0
Transportation, Department of	4,801,812	0	0	0	0	4,801,812	0
Wildlife, Fisheries, and Parks, Department of	1,458,268	0	0	1,458,268	0	0	0
Missouri	13,041,450	349,210	0	9,502,232	0	3,190,008	0
Agriculture, Department of	349,210	349,210	0	0	0	0	0
Conservation, Department of	8,795,535	0	0	8,795,535	0	0	0
Natural Resources, Department of	706,697	0	0	706,697	0	0	0
Transportation, Department of	3,190,008	0	0	0	0	3,190,008	0

TABLE 24. State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2012
(Dollars)

Department or agency	Total	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other[a]
Montana	6,841,897	2,105,602	187,163	2,920,932	202,778	1,418,422	7,000
Agriculture, Department of	2,015,402	2,006,602	0	1,800	0	0	7,000
Commerce, Department of	87,163	0	87,163	0	0	0	0
Environmental Quality, Department of	33,472	0	0	33,472	0	0	0
Fish, Wildlife and Parks	1,757,432	0	0	1,757,432	0	0	0
Natural Resources and Conservation, Department of	1,327,228	99,000	100,000	1,128,228	0	0	0
Transportation, Department of	1,621,200	0	0	0	202,778	1,418,422	0
Nebraska	6,367,304	1,399,997	196,427	1,818,917	256,068	1,647,512	1,048,383
Agriculture, Department of	387,118	387,118	0	0	0	0	0
Corn Board	267,123	217,123	0	0	50,000	0	0
Dry Bean Commission	150,089	150,089	0	0	0	0	0
Economic Development, Department of	1,893,383	380,000	190,000	85,000	190,000	0	1,048,383
Grain Sorghum Board	15,000	15,000	0	0	0	0	0
Natural Resources, Department of	1,701,779	0	0	1,701,779	0	0	0
Roads, Department of	1,631,444	0	0	0	0	1,631,444	0
Wheat Board	321,368	250,667	6,427	32,138	16,068	16,068	0
Nevada	1,166,762	0	0	46,905	0	1,119,857	0
Transportation, Department of	1,119,857	0	0	0	0	1,119,857	0
Wildlife, Department of	46,905	0	0	46,905	0	0	0
New Hampshire	2,241,149	477,066	0	0	0	1,380,083	384,000
Agriculture, Markets and Food, Department of	100,066	100,066	0	0	0	0	0
Resources and Economic Development, Department of	761,000	377,000	0	0	0	0	384,000
Transportation, Department of	1,380,083	0	0	0	0	1,380,083	0
New Jersey	17,818,258	0	437,685	2,837,940	11,299,300	3,243,333	0
Brain Injury Research, Commission on	3,856,178	0	0	0	3,856,178	0	0
Cancer Research, Commission on	1,118,015	0	0	0	1,118,015	0	0
Environmental Protection, Department of	2,742,767	0	0	2,742,767	0	0	0
Medical Research and Treatment of Autism, Governor's Council for	3,930,000	0	0	0	3,930,000	0	0
Spinal Cord Research, Commission on	2,395,107	0	0	0	2,395,107	0	0
Transportation, Department of	3,776,191	0	437,685	95,173	0	3,243,333	0
New Mexico	1,793,561	0	0	312,918	0	941,856	538,787
Transportation, Department of	1,793,561	0	0	312,918	0	941,856	538,787
New York	171,841,187	1,748,998	41,789,076	25,121,628	67,134,590	6,071,256	29,975,639
Agriculture and Markets, Department of	4,166,404	1,666,404	0	0	2,500,000	0	0
Empire State Development	29,975,639	0	0	0	0	0	29,975,639
Energy Research and Development Authority	49,967,821	82,594	41,789,076	4,921,162	848,948	2,326,041	0
Environmental Conservation, Department of	7,342,873	0	0	7,342,873	0	0	0
Health, Department of	66,731,547	0	0	2,945,905	63,785,642	0	0
State Museum	9,911,688	0	0	9,911,688	0	0	0
Transportation, Department of	3,745,215	0	0	0	0	3,745,215	0

TABLE 24. State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2012
(Dollars)

Department or agency	Total	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other[a]
North Carolina	32,529,885	17,944,847	0	3,011,692	0	8,884,000	2,689,346
Agriculture and Consumer Services, Department of	17,944,847	17,944,847	0	0	0	0	0
Environment and Natural Resources, Department of	5,319,038	0	0	2,629,692	0	0	2,689,346
Transportation, Department of	9,266,000	0	0	382,000	0	8,884,000	0
North Dakota	6,034,991	2,521,725	2,778,935	0	0	569,931	164,400
Agriculture, Department of	137,903	137,903	0	0	0	0	0
Lignite Research Council	560,634	0	480,634	0	0	0	80,000
Mineral Resources, Department of	50,000	0	50,000	0	0	0	0
Oil and Gas Program	860,219	0	820,219	0	0	0	40,000
Renewable Energy Research Program	1,472,482	0	1,428,082	0	0	0	44,400
Soybean Council	904,207	904,207	0	0	0	0	0
Transportation, Department of	569,931	0	0	0	0	569,931	0
Wheat Commission	1,479,615	1,479,615	0	0	0	0	0
Ohio	153,382,845	0	62,348,681	15,477,600	12,112,168	20,745,056	42,699,340
Development Services Agency	143,949,463	0	62,232,539	10,641,503	11,692,168	16,683,913	42,699,340
Mental Health and Addiction Services, Department of	420,000	0	0	0	420,000	0	0
Natural Resources, Department of	4,952,239	0	116,142	4,836,097	0	0	0
Transportation, Department of	4,061,143	0	0	0	0	4,061,143	0
Oklahoma	23,133,843	1,862,336	330,000	2,248,062	12,107,346	2,497,372	4,088,727
Advancement of Science and Technology, Center for the	10,090,791	370,759	330,000	30,000	5,235,695	45,000	4,079,337
Agriculture, Food, and Forestry, Department of	1,008,868	1,008,868	0	0	0	0	0
Grand River Dam Authority	100,000	0	0	100,000	0	0	0
Health, State Department of	829,825	0	0	0	820,435	0	9,390
Sorghum Commission	12,500	12,500	0	0	0	0	0
Tobacco Settlement Endowment Trust	6,051,216	0	0	0	6,051,216	0	0
Transportation, Department of	2,721,721	269,349	0	0	0	2,452,372	0
Wheat Commission	200,860	200,860	0	0	0	0	0
Wildlife Conservation, Department of	2,118,062	0	0	2,118,062	0	0	0
Oregon	22,003,035	218,038	0	19,780,040	0	2,004,957	0
Agriculture, Department of	239,145	218,038	0	21,107	0	0	0
Fish and Wildlife, Department of	13,732,500	0	0	13,732,500	0	0	0
Forestry, Department of	325,868	0	0	325,868	0	0	0
Geology and Mineral Industries, Department of	3,995,911	0	0	3,995,911	0	0	0
Transportation, Department of	2,004,957	0	0	0	0	2,004,957	0
Watershed Enhancement Board	1,704,654	0	0	1,704,654	0	0	0
Pennsylvania	80,600,099	1,512,706	2,070,343	8,058,329	56,902,179	4,034,828	8,021,714
Agriculture, Department of	708,000	708,000	0	0	0	0	0
Community and Economic Development, Department of	13,876,129	263,970	2,070,343	409,950	2,813,258	296,894	8,021,714
Conservation and Natural Resources, Department of	752,315	0	0	752,315	0	0	0
Environmental Protection, Department of	2,135,435	0	0	2,135,435	0	0	0
Fish and Boat Commission	895,025	0	0	895,025	0	0	0

TABLE 24. State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2012
(Dollars)

Department or agency	Total	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other[a]
Game Commission	4,406,340	540,736	0	3,865,604	0	0	0
Health, Department of	54,088,921	0	0	0	54,088,921	0	0
Transportation, Department of	3,737,934	0	0	0	0	3,737,934	0
Rhode Island	2,028,402	166,820	0	927,489	400,000	334,093	200,000
Commerce Corporation	1,419,271	166,820	0	652,451	400,000	0	200,000
Transportation, Department of	609,131	0	0	275,038	0	334,093	0
South Carolina	72,467,293	62,024	484,124	46,038,125	1,444,209	1,967,442	22,471,369
Agriculture, Department of	402,388	0	402,388	0	0	0	0
Mental Health, Department of	189,334	0	0	0	189,334	0	0
Natural Resources, Department of	44,211,153	0	0	44,211,153	0	0	0
Sea Grant Consortium	1,826,972	0	0	1,826,972	0	0	0
Research Authority	24,069,114	62,024	81,736	0	1,254,875	199,110	22,471,369
Transportation, Department of	1,768,332	0	0	0	0	1,768,332	0
South Dakota	3,447,633	75,000	0	1,894,989	0	1,477,644	0
Agriculture, Department of	75,000	75,000	0	0	0	0	0
Game, Fish and Parks	1,894,989	0	0	1,894,989	0	0	0
Transportation, Department of	1,477,644	0	0	0	0	1,477,644	0
Tennessee	4,293,334	0	6,553	856,000	0	3,369,468	61,313
Environment and Conservation, Division of Archaeology, Department of	61,313	0	0	0	0	0	61,313
Environment and Conservation, Division of Remediation, Department of	681,000	0	0	681,000	0	0	0
Environment and Conservation, Division of Water Resources, Department of	175,000	0	0	175,000	0	0	0
Geological Survey	6,553	0	6,553	0	0	0	0
Transportation, Department of	3,369,468	0	0	0	0	3,369,468	0
Texas	146,989,380	2,758,683	374,013	5,492,140	115,648,847	22,715,697	0
Agriculture, Department of	2,147,725	2,147,725	0	0	0	0	0
Cancer Prevention and Research Institute	115,488,847	0	0	0	115,488,847	0	0
Environmental Quality, Commission on	1,000,000	0	0	1,000,000	0	0	0
Health and Human Services Commission	160,000	0	0	0	160,000	0	0
Parks and Wildlife Department	3,111,887	0	0	3,111,887	0	0	0
Transportation, Department of	22,715,697	0	0	0	0	22,715,697	0
Water Development Board	2,365,224	610,958	374,013	1,380,253	0	0	0
Utah	47,388,335	4,508,902	4,125,214	17,978,580	18,745,639	2,030,000	0
Health, Department of	274,475	0	0	0	274,475	0	0
Natural Resources, Department of	16,400,000	0	0	16,400,000	0	0	0
Science Technology and Research Initiative, Governor's Office of Economic Development	28,683,860	4,508,902	4,125,214	1,578,580	18,471,164	0	0
Transportation, Department of	2,030,000	0	0	0	0	2,030,000	0
Vermont	1,653,315	503,308	167,769	115,469	160,853	705,916	0
Agriculture, Food, and Markets, Agency of	671,077	503,308	167,769	0	0	0	0
Human Services, Agency of	160,853	0	0	0	160,853	0	0

TABLE 24. State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2012
(Dollars)

Department or agency	Total	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other[a]
Natural Resources, Agency of	115,469	0	0	115,469	0	0	0
Transportation, Agency of	705,916	0	0	0	0	705,916	0
Virginia	24,379,497	1,633,434	170,000	4,874,529	3,509,000	9,974,446	4,218,088
Agriculture and Consumer Services, Department of	1,552,434	1,552,434	0	0	0	0	0
Consolidated Laboratory Services, Division of	303,000	81,000	0	0	9,000	0	213,000
Corrections, Department of	1,085,144	0	0	0	0	0	1,085,144
Forensic Science, Department of	159,944	0	0	0	0	0	159,944
Innovative Technology, Center for	6,590,000	0	170,000	100,000	3,500,000	60,000	2,760,000
Marine Resources Commission	2,769,016	0	0	2,769,016	0	0	0
Mines, Minerals and Energy, Department of	1,446,394	0	0	1,446,394	0	0	0
Natural History, Museum of	559,119	0	0	559,119	0	0	0
Transportation, Department of	9,914,446	0	0	0	0	9,914,446	0
Washington	49,553,326	8,098,988	0	10,712,941	22,801,588	4,893,607	3,046,202
Agriculture, Department of	446,409	446,409	0	0	0	0	0
Archaeology and Historic Preservation, Department of	234,565	0	0	0	0	0	234,565
Ecology, Department of	332,220	0	0	332,220	0	0	0
Fish and Wildlife, Department of	5,005,913	0	0	5,005,913	0	0	0
Grain Commission	2,540,857	2,540,857	0	0	0	0	0
Labor and Industries, Department of	2,811,637	0	0	0	0	0	2,811,637
Life Sciences Discovery Fund	22,801,588	0	0	0	22,801,588	0	0
Natural Resources, Department of	5,247,161	155,000	0	5,092,161	0	0	0
Potato Commission	986,084	986,084	0	0	0	0	0
Puget Sound Partnership	282,647	0	0	282,647	0	0	0
Red Raspberry Commission	123,033	123,033	0	0	0	0	0
Transportation, Department of	4,893,607	0	0	0	0	4,893,607	0
Tree Fruit Research Commission	3,675,000	3,675,000	0	0	0	0	0
Wine Commission	172,605	172,605	0	0	0	0	0
West Virginia	33,580,156	206,137	102,719	1,501,719	0	2,518,000	29,251,581
Agriculture, Department of	206,137	206,137	0	0	0	0	0
Geological and Economic Survey	2,258,374	0	102,719	1,501,719	0	0	653,936
Higher Education Policy Commission	28,585,672	0	0	0	0	0	28,585,672
Justice and Community Services, Division of	11,973	0	0	0	0	0	11,973
Transportation, Department of	2,518,000	0	0	0	0	2,518,000	0
Wisconsin	17,861,390	864,399	250,000	9,081,222	1,517,450	4,828,319	1,320,000
Agriculture, Trade and Consumer Protection, Department of	864,399	864,399	0	0	0	0	0
Economic Development Corporation	3,781,450	0	250,000	0	1,517,450	694,000	1,320,000
Natural Resources, Department of	9,081,222	0	0	9,081,222	0	0	0
Transportation, Department of	4,134,319	0	0	0	0	4,134,319	0
Wyoming	6,879,286	493,909	386,452	4,126,343	0	1,872,582	0
Agriculture, Department of	293,909	293,909	0	0	0	0	0
Environmental Quality, Department of	100,000	0	0	100,000	0	0	0

TABLE 24. State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2012
(Dollars)

Department or agency	Total	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other[a]
Game and Fish Department	1,730,051	0	0	1,730,051	0	0	0
State Geological Survey	2,482,744	0	286,452	2,196,292	0	0	0
Transportation, Department of	1,872,582	0	0	0	0	1,872,582	0
Water Development Commission	400,000	200,000	100,000	100,000	0	0	0
Puerto Rico[c]	7,625,412	507,174	106,470	201,685	6,259,429	200,000	350,654
Agriculture, Department of	507,174	507,174	0	0	0	0	0
Health, Department of	3,122,975	0	0	0	3,122,975	0	0
Highways and Transportation Authority	200,000	0	0	0	0	200,000	0
Hospital San Juan[d, e]	1,933,258	0	0	0	1,933,258	0	0
Institute of Statistics	11,774	0	0	0	0	0	11,774
Manufacturing Extension, Incorporated[d]	380,860	0	0	95,215	0	0	285,645
Mental Health and Anti-Addiction Services Administration[d]	404,675	0	0	0	404,675	0	0
Science, Technology and Research Trust	1,064,696	0	106,470	106,470	798,521	0	53,235

[a] Other functions include, but are not limited to, corrections, criminal justice, education, forensic science, labor, public safety, and social services.

[b] U.S. total reflects all 50 states and the District of Columbia.

[c] Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

[d] Data are provided as imputed by the Puerto Rico Institute of Statistics.

[e] Operated by the San Juan municipal government.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FYs 2012 and 2013.

TABLE 25. State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2013
(Dollars)

Department or agency	Total	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other[a]
United States[b]	1,785,039,276	97,316,191	182,880,008	379,645,106	683,932,584	265,514,142	175,751,245
Alabama	13,292,741	0	509,974	9,984,291	0	2,654,296	144,180
Conservation and Natural Resources, Department of	2,307,054	0	0	2,307,054	0	0	0
Forensic Sciences, Department of	144,180	0	0	0	0	0	144,180
Geological Survey	3,196,187	0	509,974	2,686,213	0	0	0
Marine Environmental Science Consortium	4,991,024	0	0	4,991,024	0	0	0
Transportation, Department of	2,654,296	0	0	0	0	2,654,296	0
Alaska	6,689,384	750,856	1,799,951	3,662,664	0	475,913	0
Natural Resources, Department of	6,213,471	750,856	1,799,951	3,662,664	0	0	0
Transportation and Public Facilities, Department of	475,913	0	0	0	0	475,913	0
Arizona	27,810,970	549,556	7,630,643	6,689,903	11,203,068	1,737,800	0
Agriculture, Department of	668,045	549,556	0	118,489	0	0	0
Game and Fish Department	4,089,754	0	0	4,089,754	0	0	0
Geological Survey	9,538,303	0	7,630,643	1,907,660	0	0	0
Health Services, Department of	11,203,068	0	0	0	11,203,068	0	0
Transportation, Department of	2,311,800	0	0	574,000	0	1,737,800	0
Arkansas	16,518,947	8,857,097	3,620,296	942,106	806,060	1,915,324	378,064
Beef Council	18,730	18,730	0	0	0	0	0
Catfish Promotion Board	22,500	22,500	0	0	0	0	0
Corn and Grain Sorghum Board	805,000	805,000	0	0	0	0	0
Game and Fish Commission	891,397	0	0	891,397	0	0	0
Rice Research and Promotion Board	2,594,500	2,594,500	0	0	0	0	0
Science and Technology Authority	6,596,697	1,741,568	3,620,296	50,709	806,060	0	378,064
Soybean Promotion Board	3,412,674	3,412,674	0	0	0	0	0
State Highway and Transportation Department	1,915,324	0	0	0	0	1,915,324	0
Wheat Promotion Board	262,125	262,125	0	0	0	0	0
California	346,942,036	5,039,599	55,577,129	30,615,059	217,140,177	35,038,000	3,532,072
Air Resources Board	18,727,946	0	0	18,727,946	0	0	0
Children and Families Commission	750,000	0	0	0	375,000	0	375,000
Energy Commission	55,396,000	0	55,396,000	0	0	0	0
Environmental Health Hazard Assessment, Office of	12,737,703	0	173,787	158,578	12,405,338	0	0
Food and Agriculture, Department of	2,284,113	2,284,113	0	0	0	0	0
Forestry and Fire Protection, Department of	1,672,942	0	0	347,942	0	0	1,325,000
Institute for Regenerative Medicine	197,108,479	0	0	0	197,108,479	0	0
Motor Vehicles, Department of	1,554,440	0	0	0	1,554,440	0	0
Public Health, Genetic Disease, Department of	1,171,920	0	0	0	1,171,920	0	0
Public Health, Science and Education, Department of	800,000	750,000	0	0	50,000	0	0
Pesticide Regulation, Department of	7,822,000	1,930,000	0	1,942,000	3,950,000	0	0
Resources Recycling and Recovery, Department of	3,232,556	0	0	3,232,556	0	0	0
Seismic Safety Commission	245,900	49,000	0	73,700	0	0	123,200
Sierra Nevada Conservancy	47,711	0	0	47,711	0	0	0

TABLE 25. State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2013
(Dollars)

Department or agency	Total	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other[a]
Social Services, Department of	1,059,872	0	0	0	0	0	1,059,872
State Coastal Conservancy	1,638,868	0	0	1,638,868	0	0	0
State Hospitals, Department of	350,000	0	0	0	350,000	0	0
State Water Resources Control Board	1,400,000	0	0	1,400,000	0	0	0
Statewide Health Planning and Development, Office of	175,000	0	0	0	175,000	0	0
Transportation, Department of	35,038,000	0	0	0	0	35,038,000	0
Water Resources, Department of	3,728,586	26,486	7,342	3,045,758	0	0	649,000
Colorado	14,471,683	50,000	254,860	6,576,449	4,261,796	2,338,837	989,741
Economic Development and International Trade, Office of	3,107,542	50,000	254,860	0	2,802,682	0	0
Natural Resources, Department of	6,576,449	0	0	6,576,449	0	0	0
Public Health and Environment, Department of	1,459,114	0	0	0	1,459,114	0	0
Public Safety, Department of	989,741	0	0	0	0	0	989,741
Transportation, Department of	2,338,837	0	0	0	0	2,338,837	0
Connecticut	41,023,368	3,314,695	588,724	13,780,616	19,239,333	4,100,000	0
Agricultural Experiment Station	11,176,787	3,314,695	588,724	4,551,701	2,721,667	0	0
Energy and Environmental Protection, Department of	9,228,915	0	0	9,228,915	0	0	0
Mental Health and Addiction Services, Department of	4,895,486	0	0	0	4,895,486	0	0
Public Health, Department of	11,622,180	0	0	0	11,622,180	0	0
Transportation, Department of	4,100,000	0	0	0	0	4,100,000	0
Delaware	4,729,141	0	0	2,754,545	0	1,974,596	0
Geological Survey	1,784,107	0	0	1,784,107	0	0	0
Natural Resources and Environmental Control, Department of	970,438	0	0	970,438	0	0	0
Transportation, Department of	1,974,596	0	0	0	0	1,974,596	0
District of Columbia	1,848,800	0	0	0	861,058	987,742	0
Health, Department of	861,058	0	0	0	861,058	0	0
Transportation, Department of	987,742	0	0	0	0	987,742	0
Florida	118,781,266	19,046,571	990,320	47,462,678	38,775,780	10,300,582	2,205,335
Agriculture and Consumer Services, Department of	17,069,604	13,454,817	910,083	417,370	81,999	0	2,205,335
Citrus, Department of	5,843,133	5,532,323	0	0	310,810	0	0
Environmental Protection, Department of	3,068,175	0	0	3,068,175	0	0	0
Fish and Wildlife Conservation Commission	43,977,133	0	0	43,977,133	0	0	0
Health, Department of	38,382,971	0	0	0	38,382,971	0	0
Space Florida	1,160,380	59,431	80,237	0	0	1,020,712	0
Transportation, Department of	9,279,870	0	0	0	0	9,279,870	0
Georgia	12,697,846	0	0	3,999,505	0	8,698,341	0
Natural Resources, Department of	3,999,505	0	0	3,999,505	0	0	0
Transportation, Department of	8,698,341	0	0	0	0	8,698,341	0
Hawaii	13,094,794	1,516,064	5,674,072	4,484,602	190,000	1,230,056	0
Agriculture, Department of	1,516,064	1,516,064	0	0	0	0	0
Business, Economic Development, and Tourism, Department of	5,674,072	0	5,674,072	0	0	0	0

TABLE 25. State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2013
(Dollars)

Department or agency	Total	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other[a]
Health, Department of	190,000	0	0	0	190,000	0	0
Land and Natural Resources, Department of	4,484,602	0	0	4,484,602	0	0	0
Transportation, Department of	1,230,056	0	0	0	0	1,230,056	0
Idaho	12,929,174	2,940,842	0	8,059,032	0	1,929,300	0
Barley Commission	141,838	141,838	0	0	0	0	0
Bean Commission	106,035	106,035	0	0	0	0	0
Fish and Game, Department of	7,409,032	0	0	7,409,032	0	0	0
Potato Commission	1,332,536	1,332,536	0	0	0	0	0
Transportation Department	1,929,300	0	0	0	0	1,929,300	0
Water Resources, Department of	810,433	160,433	0	650,000	0	0	0
Wheat Commission	1,200,000	1,200,000	0	0	0	0	0
Illinois	17,999,229	0	225,000	0	3,550,718	8,719,083	5,504,428
Children and Family Services, Department of	7,748,399	0	0	0	2,243,971	0	5,504,428
Commerce and Economic Opportunity, Department of	225,000	0	225,000	0	0	0	0
Public Health, Department of	1,306,747	0	0	0	1,306,747	0	0
Transportation, Department of	8,719,083	0	0	0	0	8,719,083	0
Indiana	10,167,120	268,000	383,432	2,500	708,497	8,444,691	360,000
Criminal Justice Institute	360,000	0	0	0	0	0	360,000
Economic Development Corporation	1,763,216	0	383,432	0	708,497	671,287	0
Natural Resources, Department of	270,500	268,000	0	2,500	0	0	0
Transportation, Department of	7,773,404	0	0	0	0	7,773,404	0
Iowa	19,365,308	0	6,340,014	3,517,000	0	9,485,810	22,484
Economic Development Authority, Energy Office	6,340,014	0	6,340,014	0	0	0	0
Human Rights, Criminal and Juvenile Justice Planning, Division of	22,484	0	0	0	0	0	22,484
Natural Resources, Department of	3,517,000	0	0	3,517,000	0	0	0
Transportation, Department of	9,485,810	0	0	0	0	9,485,810	0
Kansas	5,708,223	984,198	0	0	0	4,724,025	0
Transportation, Department of	4,724,025	0	0	0	0	4,724,025	0
Wheat Commission	984,198	984,198	0	0	0	0	0
Kentucky	19,751,055	312,518	5,976,089	6,074,737	4,793,049	1,964,500	630,162
Budget and Fiscal Management, Office of	2,714,500	0	0	750,000	0	1,964,500	0
Early Childhood, Governor's Office of	228,618	0	0	0	0	0	228,618
Economic Development, Cabinet for	8,044,646	0	2,681,548	2,681,549	2,681,549	0	0
Education Professional Standards Board	401,544	0	0	0	0	0	401,544
Energy Development and Independence, Department for	3,294,541	0	3,294,541	0	0	0	0
Fish and Wildlife Resources, Department of	2,615,188	0	0	2,615,188	0	0	0
Horse Racing Commission	312,518	312,518	0	0	0	0	0
Public Health, Department for	2,111,500	0	0	0	2,111,500	0	0
State Nature Preserves Commission	28,000	0	0	28,000	0	0	0

TABLE 25. State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2013
(Dollars)

Department or agency	Total	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other[a]
Louisiana	15,713,110	0	0	8,174,868	0	6,965,116	573,126
Coastal Protection and Restoration Authority	5,731,257	0	0	5,158,131	0	0	573,126
Transportation and Development, Department of	6,965,116	0	0	0	0	6,965,116	0
Wildlife and Fisheries, Department of	3,016,737	0	0	3,016,737	0	0	0
Maine	6,109,793	373,257	480,594	1,434,954	1,115,608	521,444	2,183,936
Agriculture, Conservation and Forestry, Department of	460,000	0	0	460,000	0	0	0
Drug Enforcement Agency	30,000	0	0	0	0	0	30,000
Environmental Protection, Department of	235,000	8,000	12,000	215,000	0	0	0
Inland Fisheries and Wildlife, Department of	159,834	0	0	159,834	0	0	0
Marine Resources, Department of	431,240	0	0	431,240	0	0	0
Technology Institute	4,272,275	365,257	468,594	168,880	1,115,608	0	2,153,936
Transportation, Department of	521,444	0	0	0	0	521,444	0
Maryland	29,467,445	384,771	300,000	947,472	24,603,993	1,778,080	1,453,129
Business and Economic Development, Department of	1,647,108	0	0	0	1,647,108	0	0
Health and Mental Hygiene, Department of	5,800,000	0	0	0	5,800,000	0	0
Natural Resources, Department of	832,243	84,771	0	747,472	0	0	0
Technology Development Corporation	19,410,014	300,000	300,000	200,000	17,156,885	0	1,453,129
Transportation, Department of	1,778,080	0	0	0	0	1,778,080	0
Massachusetts	4,590,424	0	0	1,031,320	3,559,104	0	0
Environmental Protection, Department of	246,613	0	0	246,613	0	0	0
Fish and Game, Department of	784,707	0	0	784,707	0	0	0
Mental Health, Department of	1,892,550	0	0	0	1,892,550	0	0
Public Health, Department of	1,666,554	0	0	0	1,666,554	0	0
Michigan	12,830,423	548,396	0	4,582,027	0	7,700,000	0
Agriculture and Rural Development, Department of	513,396	513,396	0	0	0	0	0
Environmental Quality, Department of	45,745	0	0	45,745	0	0	0
Natural Resources, Department of	4,571,282	35,000	0	4,536,282	0	0	0
Transportation, Department of	7,700,000	0	0	0	0	7,700,000	0
Minnesota	14,855,954	1,981,417	122,084	1,662,951	0	11,089,502	0
Agriculture, Department of	2,526,558	1,752,259	122,084	652,215	0	0	0
Forest Resources Council	51,831	21,068	0	30,763	0	0	0
Pollution Control Agency	979,973	0	0	979,973	0	0	0
Transportation, Department of	11,297,592	208,090	0	0	0	11,089,502	0
Mississippi	4,863,312	0	0	1,562,376	0	3,300,936	0
Transportation, Department of	3,300,936	0	0	0	0	3,300,936	0
Wildlife, Fisheries, and Parks, Department of	1,562,376	0	0	1,562,376	0	0	0
Missouri	13,051,110	381,475	0	9,297,498	0	3,372,137	0
Agriculture, Department of	381,475	381,475	0	0	0	0	0
Conservation, Department of	9,030,901	0	0	9,030,901	0	0	0
Natural Resources, Department of	266,597	0	0	266,597	0	0	0

TABLE 25. State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2013
(Dollars)

Department or agency	Total	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other[a]
Transportation, Department of	3,372,137	0	0	0	0	3,372,137	0
Montana	6,570,018	1,975,948	1,200	2,479,271	39,483	2,061,516	12,600
Agriculture, Department of	1,929,948	1,909,948	0	7,400	0	0	12,600
Environmental Quality, Department of	237,328	0	0	237,328	0	0	0
Fish, Wildlife and Parks	2,160,798	0	0	2,160,798	0	0	0
Natural Resources and Conservation, Department of	140,945	66,000	1,200	73,745	0	0	0
Transportation, Department of	2,100,999	0	0	0	39,483	2,061,516	0
Nebraska	7,274,333	1,748,254	236,100	2,040,414	245,250	1,721,453	1,282,862
Agriculture, Department of	388,885	388,885	0	0	0	0	0
Corn Board	468,089	468,089	0	0	0	0	0
Dry Bean Commission	178,386	178,386	0	0	0	0	0
Economic Development, Department of	2,317,862	460,000	230,000	115,000	230,000	0	1,282,862
Grain Sorghum Board	15,000	15,000	0	0	0	0	0
Natural Resources, Department of	1,894,916	0	0	1,894,916	0	0	0
Roads, Department of	1,706,203	0	0	0	0	1,706,203	0
Wheat Board	304,992	237,894	6,100	30,498	15,250	15,250	0
Nevada	1,640,871	0	0	45,408	0	1,595,463	0
Transportation, Department of	1,595,463	0	0	0	0	1,595,463	0
Wildlife, Department of	45,408	0	0	45,408	0	0	0
New Hampshire	1,788,396	438,435	0	0	0	1,226,961	123,000
Agriculture, Markets and Food, Department of	121,435	121,435	0	0	0	0	0
Resources and Economic Development, Department of	440,000	317,000	0	0	0	0	123,000
Transportation, Department of	1,226,961	0	0	0	0	1,226,961	0
New Jersey	22,413,516	0	0	3,192,669	15,235,551	3,985,296	0
Brain Injury Research, Commission on	3,924,029	0	0	0	3,924,029	0	0
Cancer Research, Commission on	1,345,672	0	0	0	1,345,672	0	0
Environmental Protection, Department of	2,929,505	0	0	2,929,505	0	0	0
Medical Research and Treatment of Autism, Governor's Council for	6,883,804	0	0	0	6,883,804	0	0
Spinal Cord Research, Commission on	3,082,046	0	0	0	3,082,046	0	0
Transportation, Department of	4,248,460	0	0	263,164	0	3,985,296	0
New Mexico	2,015,961	0	57,083	502,068	0	1,249,365	207,445
State Engineer, Office of the	96,182	0	0	96,182	0	0	0
Transportation, Department of	1,919,779	0	57,083	405,886	0	1,249,365	207,445
New York	177,063,220	1,383,413	27,061,407	23,232,954	65,676,902	12,838,391	46,870,153
Agriculture and Markets, Department of	3,872,277	1,372,277	0	0	2,500,000	0	0
Empire State Development	46,870,153	0	0	0	0	0	46,870,153
Energy Research and Development Authority	40,614,938	11,136	26,941,407	3,430,040	1,591,090	8,641,265	0
Environmental Conservation, Department of	7,148,310	0	0	7,148,310	0	0	0
Health, Department of	64,264,233	0	0	2,678,421	61,585,812	0	0
State Museum	10,096,183	0	120,000	9,976,183	0	0	0

TABLE 25. State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2013
(Dollars)

Department or agency	Total	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other[a]
Transportation, Department of	4,197,126	0	0	0	0	4,197,126	0
North Carolina	30,649,974	17,947,847	0	3,136,983	0	6,548,000	3,017,144
Agriculture and Consumer Services, Department of	17,947,847	17,947,847	0	0	0	0	0
Environment and Natural Resources, Department of	5,382,127	0	0	2,364,983	0	0	3,017,144
Transportation, Department of	7,320,000	0	0	772,000	0	6,548,000	0
North Dakota	7,364,184	2,475,547	3,931,762	0	0	584,875	372,000
Agriculture, Department of	82,238	82,238	0	0	0	0	0
Lignite Research Council	2,145,106	0	2,025,106	0	0	0	120,000
Mineral Resources, Department of	65,000	0	65,000	0	0	0	0
Oil and Gas Program	1,447,730	0	1,270,730	0	0	0	177,000
Renewable Energy Research Program	645,926	0	570,926	0	0	0	75,000
Soybean Council	1,056,806	1,056,806	0	0	0	0	0
Transportation, Department of	584,875	0	0	0	0	584,875	0
Wheat Commission	1,336,503	1,336,503	0	0	0	0	0
Ohio	188,311,926	0	52,267,399	38,073,964	9,039,545	22,035,664	66,895,354
Development Services Agency	173,959,505	0	51,912,510	32,694,579	8,719,545	13,737,517	66,895,354
Mental Health and Addiction Services, Department of	320,000	0	0	0	320,000	0	0
Natural Resources, Department of	5,734,274	0	354,889	5,379,385	0	0	0
Transportation, Department of	8,298,147	0	0	0	0	8,298,147	0
Oklahoma	28,224,758	2,500,477	323,800	4,765,208	14,185,074	4,030,997	2,419,202
Advancement of Science and Technology, Center for the	8,795,761	368,756	323,800	302,082	5,082,646	302,695	2,415,782
Agriculture, Food, and Forestry, Department of	1,008,868	1,008,868	0	0	0	0	0
Grand River Dam Authority	100,000	0	0	100,000	0	0	0
Health, State Department of	834,153	0	0	0	830,733	0	3,420
Sorghum Commission	25,000	25,000	0	0	0	0	0
Tobacco Settlement Endowment Trust	8,271,695	0	0	0	8,271,695	0	0
Transportation, Department of	4,026,505	298,203	0	0	0	3,728,302	0
Wheat Commission	799,650	799,650	0	0	0	0	0
Wildlife Conservation, Department of	4,363,126	0	0	4,363,126	0	0	0
Oregon	23,083,506	290,595	0	20,153,209	0	2,639,702	0
Agriculture, Department of	330,243	290,595	0	39,648	0	0	0
Fish and Wildlife, Department of	14,034,000	0	0	14,034,000	0	0	0
Forestry, Department of	753,417	0	0	753,417	0	0	0
Geology and Mineral Industries, Department of	5,221,905	0	0	5,221,905	0	0	0
Transportation, Department of	2,639,702	0	0	0	0	2,639,702	0
Watershed Enhancement Board	104,239	0	0	104,239	0	0	0
Pennsylvania	66,429,400	2,033,013	1,699,984	9,069,833	44,055,514	3,842,683	5,728,373
Agriculture, Department of	786,545	786,545	0	0	0	0	0
Community Economic Development, Department of	11,281,404	490,000	1,699,984	0	3,163,047	200,000	5,728,373
Conservation and Natural Resources, Department of	616,084	0	0	616,084	0	0	0

TABLE 25. State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2013
(Dollars)

Department or agency	Total	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other[a]
Environmental Protection, Department of	3,709,611	0	0	3,709,611	0	0	0
Fish and Boat Commission	737,805	0	0	737,805	0	0	0
Game Commission	4,762,801	756,468	0	4,006,333	0	0	0
Health, Department of	40,892,467	0	0	0	40,892,467	0	0
Transportation, Department of	3,642,683	0	0	0	0	3,642,683	0
Rhode Island	1,640,778	40,000	0	1,059,308	0	541,470	0
Commerce Corporation	810,541	40,000	0	770,541	0	0	0
Transportation, Department of	830,237	0	0	288,767	0	541,470	0
South Carolina	47,732,177	157,702	251,410	36,316,203	1,176,021	1,942,501	7,888,340
Agriculture, Department of	158,505	0	158,505	0	0	0	0
Mental Health, Department of	189,334	0	0	0	189,334	0	0
Natural Resources, Department of	35,068,126	0	0	35,068,126	0	0	0
Research Authority	9,055,708	87,776	92,905	0	986,687	0	7,888,340
Sea Grant Consortium	1,318,003	69,926	0	1,248,077	0	0	0
Transportation, Department of	1,942,501	0	0	0	0	1,942,501	0
South Dakota	3,660,854	75,000	0	1,774,517	0	1,811,337	0
Agriculture, Department of	75,000	75,000	0	0	0	0	0
Game, Fish and Parks	1,774,517	0	0	1,774,517	0	0	0
Transportation, Department of	1,811,337	0	0	0	0	1,811,337	0
Tennessee	3,430,476	0	0	866,500	0	2,505,628	58,348
Environment and Conservation, Division of Archaeology, Department of	58,348	0	0	0	0	0	58,348
Environment and Conservation, Division of Remediation, Department of	706,500	0	0	706,500	0	0	0
Environment and Conservation, Division of Water Resources, Department of	160,000	0	0	160,000	0	0	0
Geological Survey	0	0	0	0	0	0	0
Transportation, Department of	2,505,628	0	0	0	0	2,505,628	0
Texas	185,199,541	2,650,989	447,132	6,428,787	155,001,396	20,671,237	0
Agriculture, Department of	1,695,975	1,695,975	0	0	0	0	0
Cancer Prevention and Research Institute	154,841,396	0	0	0	154,841,396	0	0
Environmental Quality, Commission	1,000,000	0	0	1,000,000	0	0	0
Health and Human Services Commission	175,000	0	0	15,000	160,000	0	0
Parks and Wildlife Department	3,964,934	0	0	3,964,934	0	0	0
Transportation, Department of	20,671,237	0	0	0	0	20,671,237	0
Water Development Board	2,850,999	955,014	447,132	1,448,853	0	0	0
Utah	53,636,842	3,989,111	4,558,744	18,312,681	24,346,306	2,430,000	0
Health, Department of	79,931	0	0	0	79,931	0	0
Natural Resources, Department of	16,900,000	0	0	16,900,000	0	0	0
Science Technology and Research Initiative, Governor's Office of Economic Development	34,226,911	3,989,111	4,558,744	1,412,681	24,266,375	0	0
Transportation, Department of	2,430,000	0	0	0	0	2,430,000	0

TABLE 25. State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2013
(Dollars)

Department or agency	Total	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other[a]
Vermont	1,827,562	538,173	179,391	102,379	170,780	836,839	0
Agriculture, Food, and Markets, Agency of	717,564	538,173	179,391	0	0	0	0
Human Services, Agency of	170,780	0	0	0	170,780	0	0
Natural Resources, Agency of	102,379	0	0	102,379	0	0	0
Transportation, Agency of	836,839	0	0	0	0	836,839	0
Virginia	25,917,935	1,631,509	900,000	5,109,773	1,806,000	14,128,627	2,342,026
Agriculture and Consumer Services, Department of	1,569,509	1,569,509	0	0	0	0	0
Consolidated Laboratory Services, Division of	118,000	62,000	0	0	6,000	0	50,000
Corrections, Department of	1,038,630	0	0	0	0	0	1,038,630
Forensic Science, Department of	143,396	0	0	0	0	0	143,396
Innovative Technology, Center for	3,320,000	0	300,000	80,000	1,800,000	30,000	1,110,000
Marine Resources Commission	2,655,774	0	0	2,655,774	0	0	0
Mines, Minerals and Energy, Department of	2,307,537	0	600,000	1,707,537	0	0	0
Natural History, Museum of	666,462	0	0	666,462	0	0	0
Transportation, Department of	14,098,627	0	0	0	0	14,098,627	0
Washington	47,122,876	8,954,794	0	10,953,130	19,586,521	4,257,879	3,370,552
Agriculture, Department of	464,626	464,626	0	0	0	0	0
Archaeology and Historic Preservation, Department of	372,376	0	0	0	0	0	372,376
Ecology, Department of	515,663	0	0	515,663	0	0	0
Fish and Wildlife, Department of	5,245,951	0	0	5,245,951	0	0	0
Grain Commission	2,821,984	2,821,984	0	0	0	0	0
Labor and Industries, Department of	2,998,176	0	0	0	0	0	2,998,176
Life Sciences Discovery Fund	19,586,521	0	0	0	19,586,521	0	0
Natural Resources, Department of	5,054,857	102,000	0	4,952,857	0	0	0
Potato Commission	986,084	986,084	0	0	0	0	0
Puget Sound Partnership	238,659	0	0	238,659	0	0	0
Red Raspberry Commission	164,600	164,600	0	0	0	0	0
Transportation, Department of	4,257,879	0	0	0	0	4,257,879	0
Tree Fruit Research Commission	4,025,000	4,025,000	0	0	0	0	0
Wine Commission	390,500	390,500	0	0	0	0	0
West Virginia	19,027,684	93,033	159,332	1,611,130	0	2,729,000	14,435,189
Agriculture, Department of	93,033	93,033	0	0	0	0	0
Geological and Economic Survey	2,904,573	0	159,332	1,611,130	0	0	1,134,111
Higher Education Policy Commission	13,289,192	0	0	0	0	0	13,289,192
Justice and Community Services, Division of	11,886	0	0	0	0	0	11,886
Transportation, Department of	2,729,000	0	0	0	0	2,729,000	0
Wisconsin	21,212,446	640,941	150,000	8,894,211	2,560,000	6,215,294	2,752,000
Agriculture, Trade and Consumer Protection, Department of	640,941	640,941	0	0	0	0	0
Economic Development Corporation	7,462,000	0	150,000	0	2,560,000	2,000,000	2,752,000
Natural Resources, Department of	8,894,211	0	0	8,894,211	0	0	0
Transportation, Department of	4,215,294	0	0	0	0	4,215,294	0

TABLE 25. State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2013
(Dollars)

Department or agency	Total	Agriculture	Energy	Environment and natural resources	Health	Transportation	Other[a]
Wyoming	6,497,386	452,098	182,082	4,225,353	0	1,637,853	0
Agriculture, Department of	252,098	252,098	0	0	0	0	0
Environmental Quality, Department of	100,000	0	0	100,000	0	0	0
Game and Fish Department	1,881,499	0	0	1,881,499	0	0	0
State Geological Survey	2,225,936	0	82,082	2,143,854	0	0	0
Transportation, Department of	1,637,853	0	0	0	0	1,637,853	0
Water Development Commission	400,000	200,000	100,000	100,000	0	0	0
Puerto Rico[c]	7,949,965	649,048	220,000	244,845	5,695,724	200,000	940,348
Agriculture, Department of	649,048	649,048	0	0	0	0	0
Education Council	565,621	0	0	0	0	0	565,621
Health, Department of	2,705,482	0	0	0	2,705,482	0	0
Highways and Transportation Authority	200,000	0	0	0	0	200,000	0
Hospital San Juan[d, e]	1,962,118	0	0	0	1,962,118	0	0
Institute of Statistics	37,601	0	0	0	12,408	0	25,193
Manufacturing Extension, Incorporated[d]	319,379	0	0	79,845	0	0	239,534
Mental Health and Anti-Addiction Services Administration[d]	410,716	0	0	0	410,716	0	0
Science, Technology and Research Trust	1,100,000	0	220,000	165,000	605,000	0	110,000

[a] Other functions include, but are not limited to, corrections, criminal justice, education, forensic science, labor, public safety, and social services.

[b] U.S. total reflects all 50 states and the District of Columbia.

[c] Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

[d] Data are provided as imputed by the Puerto Rico Institute of Statistics.

[e] Operated by the San Juan municipal government.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FYs 2012 and 2013.

Appendix A. Technical Notes

Survey Overview (FY 2012 and FY 2013 Survey of State Government Research and Development)

Purpose. The Survey of State Government Research and Development is the only source for comprehensive uniform statistics regarding the extent of R&D activity performed and funded by departments and agencies in each of the nation's 50 state governments, the government of the District of Columbia, and the government of Puerto Rico.

Data collection authority. The information is solicited under the authority of the National Science Foundation Act of 1950, as amended.

Survey contractor. U.S. Census Bureau, under National Science Foundation (NSF) interagency agreement number NCSE-1347875, collected, processed, and tabulated the statistics in this report.

Survey sponsor. NSF, National Center for Science and Engineering Statistics.

Key Survey Information

Frequency. Biennial.

Initial survey year. 2006.

Reference period. State governments' fiscal years ending in 2012 and 2013.

Response unit. State government departments, agencies, commissions, public authorities, institutions, and other entities that operate separately or somewhat autonomously from the central state government with the capacity or authority to perform or fund R&D.

Sample or census. Census.

Population size. 366 agencies from the 50 state governments, the District of Columbia, and Puerto Rico with the capacity or authority to perform or fund R&D during fiscal years 2012 and 2013.

Sample size. Not applicable.

Survey Design

Target population. State government departments, agencies, commissions, public authorities, institutions, and other entities that operate separately or somewhat autonomously from the central state government but where the state government maintains administrative or fiscal control over their activities, as defined by the *U.S. Census Bureau Government Finance and Employment Classification Manual* (see chapter 1). Several industry-specific state commissions, which are generally chartered by state legislatures but are administered independently, are considered state agencies and included in the survey's population. State-run colleges and universities, which are canvassed as part of NSF's Higher Education Research and Development (HERD) Survey, are excluded from the survey frame. State-run laboratories or experiment stations controlled by state universities are also excluded from the respondent universe, as are any entities determined to be nonprofit or private, as defined by the U.S. Census Bureau government classification

criteria. However, because agricultural experiment stations in Connecticut are legally organized as a state government–dependent agency and are not affiliated with any university system, they are included in the survey's population.

Sample frame. All state government–dependent units, including those for the District of Columbia and Puerto Rico, with the capacity or authority to perform and fund R&D, as identified by a state survey coordinator who is appointed by the governor of each state.

Sample design. For the FY 2012 and FY 2013 survey, state coordinators were provided with the list of agencies that remained in the survey after the FY 2010 and FY 2011 survey, and coordinators were encouraged to add agencies that they believed were involved with R&D and were not already on the list of preselected agencies. A total of 309 agencies were preselected for the FY 2012 and FY 2013 survey from the previous survey universe by the state coordinators. State coordinators added 57 agencies to the respondent universe for a total agency respondent universe of 366. State coordinators also made adjustments to the agency universe to remove agencies that have never had any qualifying R&D to report to NSF and to address organizational changes within their respective states since the previous survey.

Data Collection and Processing Methods

Data collection. On January 13, 2014, a letter was sent to the office of each state governor, as well as to the governor of Puerto Rico and the mayor of the District of Columbia, asking them to appoint a state coordinator who would provide updates to the universe of state government-dependent agencies that have the capacity to perform or fund R&D during FY 2012 and FY 2013. State coordinators logged into a secure website to add state-dependent agencies that might have some R&D and remove any agencies from the survey universe that no longer perform or fund R&D or have been reorganized. Once the state coordinators completed updates to the list of active agencies to be surveyed, they then initiated introductory e-mails to the agency respondents to log in and complete the survey. State government agency respondents would log in to a secure, Web-based survey instrument and complete the questionnaire. Upon completion by all agencies, the state coordinators were prompted to review the agency responses and the state-aggregated responses and officially lock the survey results before they were provided to NSF for final analysis and dissemination.

Mode. Self-administered online questionnaire (Web) for both the central state coordinator and the state agency respondents.

Response rates. Two response rates were calculated for the FY 2012 and FY 2013 Survey of State Government R&D: one for official data verification at the state level, and one for agency-level respondents. Table A-1 presents final agency response rates and also counts of agencies that identified themselves as having qualifying R&D expenditures on the FY 2012 and FY 2013 survey.

TABLE A-1. Final response rates and agencies reporting R&D to the survey: FY 2012 and FY 2013

	Agencies	Responses		R&D reported	
Agencies selected	surveyed	Agencies	Rate (%)	Agencies	Responses (%)
All agencies	366	365	99.7	287	78.6
Preselected	309	308	99.7	250	81.2
Added	57	57	100.0	35	61.4

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FYs 2012 and FY 2013.

- All 50 state governments, the District of Columbia, and Puerto Rico participated in the survey; however, 45 out of 52 (86.5%) state coordinators officially verified the final aggregate state data. The states of Georgia, Louisiana, New Mexico, Tennessee, Texas, and Virginia and the District of Columbia did not verify data officially but instead had some or all agencies submit data.
- The final agency response was 365 out of 366 agencies (99.7%); the Virginia Department of Health did not respond to the survey. Of those agencies that responded, 287 (78.6%) reported having some R&D activity in FY 2012 or FY 2013. Of the 309 agencies preselected for the survey that responded, 250 (80.9%) reported having R&D. Of the 57 agencies added to the survey by state coordinators at the start of the survey cycle, 35 (61.4%) reported having R&D.

Data editing. Before officially submitting the data for their state, coordinators were asked to perform a final verification of aggregated agency data. All responses, including the initial agency data submissions and final state coordinator verifications, were received via the Web-based survey. Basic logical edit checks, review of respondent comments, and comparisons of data from previous surveys allowed Census Bureau and NSF staff to detect data errors and work with state respondents to correct them. Census Bureau and NSF staff also conducted follow-up calls to agencies with data changes of plus or minus 50% and at least $1 million in R&D between FY 2012 and FY 2013 to ensure the accuracy of the FY 2012 and FY 2013 survey data.

Imputation. Given the high agency response rate, no statistical methods were used to account for nonresponding agencies. All state and national totals are aggregates of reported agency data. Each state government's organizational structure, laws, and delegation of powers within its purview are unique. Therefore, there are no formal methods of imputation to account for these structural differences that are consistent with basic statistical methods.

Weighting. Not applicable.

Variance estimation. Not applicable.

Survey Quality Measures

Sampling error. Not applicable.

Coverage error. NSF relies on the expertise of an appointed state coordinator to assist in identifying state government agencies that have the capacity or authority to perform or fund R&D. In cases where the state coordinator refuses to cooperate, it is possible that there is an undercount of state government R&D activities, despite efforts by NSF and Census Bureau staffs to conduct additional queries and conduct outreach with state agencies in lieu of an appointed state coordinator. In other instances, the appointed state coordinator could misinterpret the NSF definition and examples of qualifying R&D activities and thus fail to identify all state government–dependent units with the capacity to perform or fund R&D.

Nonresponse error. Of the 366 agencies in the survey universe, 365 (99.7%) responded to the survey. Of the 365 respondents, 287 (78.6%) reported having R&D activities in FY 2012 or FY 2013. Of the 309 agencies preselected for the survey who responded, 250 (80.9%) reported having R&D. Of the 57 respondent agencies added to the survey by state coordinators, 35 (61.4%) reported having R&D. No statistical methods were used to account for nonresponding agencies.

Measurement error. The most common form of nonsampling error may be found in the respondents' interpretation of the NSF definition of qualifying R&D activities. To mitigate any potential

misinterpretations, NSF has provided a series of examples specific to the types of activities performed or funded by state government agencies in the survey questionnaire's definitions and examples. Before officially submitting data, state coordinators performed a final verification of aggregated agency data. All responses, including the initial agency data submissions and final state coordinator verifications, were received via the Web form or e-mail. Census staff performed basic logical edit checks and reviewed respondent comments, allowing staff to detect errors and work with state respondents to correct them. Despite these efforts, some of the data reported could include expenditures for non-R&D activities, such as commercialization, environmental testing, or routine survey or monitoring work.

Data Comparability (Changes)

State government R&D totals can display considerable volatility between survey cycles. For example, state agency expenditures are influenced by several national and state-specific factors, and large changes (either positive or negative) are not unusual, especially for discretionary spending items such as R&D. States often will create special funds to support specific research activities for a limited time. These funds may have a one-time appropriation from the legislature and expire within 2–5 fiscal years; state agencies obligate those funds for specific R&D projects, depending on availability and expiration of funding authority as well as other program-specific and administrative considerations. Data reported are agency direct expenditures for R&D in a given fiscal year, not obligations; as such, in the case of multiyear grants to extramural performers, an agency's expenditures for that fiscal year may be greater than its obligations because expenditures may include spending from the previous year's appropriations, depending on the specific budget authority granted by the legislature. Given that state governments have comparatively little experience in tracking and measuring R&D specifically, it is likely that some portion of the reported changes reflects measurement and coverage errors. In the case of R&D funds for extramural performers, some agencies were able to report only obligations made in a given fiscal year and were not able to provide detailed expenditures for each fiscal year.

The survey asked about state agencies' expenditures for R&D as of the end of FY 2012 and of FY 2013. Most states have a fiscal-year period that begins 1 July and ends the following 30 June. For example, FY 2013 is the state fiscal period beginning on 1 July 2012 and ending on 30 June 2013. There are, however, four exceptions to the 30 June fiscal-year end: New York (ends 31 March), Texas (ends 31 August), Alabama (ends 30 September), and Michigan (ends 30 September). For comparability, these four states are surveyed with the other 46 states that end on 30 June. The District of Columbia follows the federal government fiscal year, which ends 30 September, while Puerto Rico's fiscal year begins 1 July and ends on 30 June.

A state's R&D priorities may be shaped by the state's unique legislative and budgeting processes. State budget practices vary considerably due to both political and historical reasons. As of 2010, 19 states enacted biennial budgets. Of these states, Montana, Nevada, North Dakota, and Texas have both biennial legislative sessions and biennial budgets. The remaining 15 states of Connecticut, Hawaii, Indiana, Kentucky, Maine, Minnesota, Nebraska, New Hampshire, North Carolina, Ohio, Oregon, Virginia, Washington, Wisconsin, and Wyoming hold annual legislative sessions but maintain biennial budgeting. Only North Dakota and Wyoming enact consolidated 2-year budgets; other biennial budget states enact two annual budgets at one time. As such, the nature of a state's budget priorities for R&D may be determined on a biennial basis in some states; in others, however, it may be determined on an annual basis. In states with biennial budgets, the legislatures will often make supplemental appropriations to the second-year budget, which may result in further changes to the initial funding priorities.

The data exclude R&D expenditures by state governments that did not flow through state agencies' budgets. The state totals do not include direct appropriations from state legislatures to colleges and

universities. In FY 2012, universities and colleges reported expending $3.7 billion on separately budgeted R&D activities that were funded from all sources of state and local government support (see the HERD Survey). In FY 2012, state agencies reported $0.8 billion in expenditures used to support R&D performance by academic institutions. A major factor for the difference between totals reported in NSF's HERD Survey and Survey of State Government R&D is direct appropriations or grants to state-run universities that are included in the former but not in the latter. Another likely factor is the exclusion of R&D at agricultural experiment stations from the state survey totals because they are generally associated with land-grant colleges and universities and are canvassed on the HERD Survey.

Direct comparison of state agency expenditures should also be viewed with caution because state governments often reorganize departments and agencies such that some divisions and offices that were part of one agency may be moved to another agency. In other instances, entire departments may be reorganized into newly created departments. Although the FY 2012 and FY 2013 Survey of State Government R&D encountered several instances of these organizational changes in several states, the survey itself is not designed to measure specific changes in state government organization. To account for these and other changes in the data, Census Bureau and NSF staff conducted follow-up calls for agencies with data changes of plus or minus 50% and at least $1 million between FY 2012 and FY 2013 to ensure the accuracy of the FY 2012 and FY 2013 survey data.

Data specific to state government agencies were first released with the FY 2009 survey results and are also included in the FY 2012 and FY 2013 detailed statistical tables (DSTs). Since the FY 2012 and FY 2013 Survey of State Government R&D collected two fiscal years of data at once, some agencies only had qualifying R&D activities in one of those two years. In these cases, the agency is presented only in the DSTs where the agency had R&D for that specific fiscal year. Specific agency-level data for FY 2006 and FY 2007 are not available.

The current NSF Survey of State Government R&D has been conducted for FY 2006, FY 2007, FY 2009, FY 2010 and FY 2011, and FY 2012 and FY 2013. Data presented in trend tables in this report are from the most recently completed survey cycle, which canvassed two fiscal years (FY 2012 and FY 2013) as part of the same survey cycle. References to prior-year data should be restricted to those published in this report for two reasons: (1) when completing the current year's survey, survey respondents may revise their prior year's data, and (2) NSF reviews data for prior years for consistency with current-year responses and, if necessary, may revise these data in consultation with respondents.

Prior to the FY 2006 survey, NSF data collections of state government R&D were conducted by nonfederal organizations that were supported by NSF grants for state governments' FY 1995, FY 1988, and FY 1987. Prior to those efforts, NSF collected data for state governments' FY 1977, FY 1973, FY 1972, FY 1967, FY 1968, FY 1965, and FY 1964 in collaboration with the U.S. Census Bureau's Census of Governments and related programs. As a result of differences in the survey populations, definitions of covered R&D activities, and collection methods over time, the results of these historical surveys are not comparable with the statistics collected for the FY 2006 and subsequent Surveys of State Government R&D. (No survey was conducted for state governments' FY 2008.)

Changes in survey coverage and/or population. Each year, state coordinators update the universe of agencies most likely to have funded or performed R&D based on changes in funding authority, organization changes within the government, or other initiatives by the legislature. No survey was conducted for state governments' FY 2008. Beginning with the FY 2009 survey cycle, state coordinators were no longer able to overwrite the aggregate R&D data reported by state agencies to correct or modify the state total. Any changes or revisions were now required to be made at the state government agency level.

Changes in questionnaire.

- FY 2009. The FY 2009 questionnaire changed from the 2007 version to collect state government R&D activities by governmental functions of agriculture, environment and natural resources, health, transportation, and other.

- FYs 2010 and 2011. The survey was reorganized as a biennial survey and collected two fiscal years of data on one questionnaire. In addition, the energy category was added to the list of specific government functions of R&D.

- FYs 2012 and 2013. A minor change to the instructions in question 1 for extramural performers was made from "R&D done for your department/agency" to "R&D funded by your department/agency" to ensure that all R&D-related projects that the agency funds regardless of the end result (i.e., grants) were properly included.

Changes in reporting procedures or classification. None.

Definitions

Basic research. Research conducted primarily to acquire new knowledge. For example, it can be research without a specific product or process in mind or research to produce a broad base of knowledge for future research.

Construction and acquisition of facilities used primarily for R&D. Includes major costs for construction and purchase of buildings to be used primarily as R&D facilities; also includes new construction, major renovations, and purchase of land or buildings.

Performers, extramural. Those outside the department or agency who perform R&D under the administrative oversight or control of that department or agency. This may include projects for the department or agency as well as the department's or agency's extramural research programs. Extramural performers include the following:

- *Academic institutions.* Public or private universities and colleges.

- *Companies and individuals.* Include those performers under contract for research projects or that received grants for research projects.

- *Other.* Nonprofit organizations, including foundations; other departments or agencies within the state; other state governments; county, municipal, township, or other local governments; federal government.

Performers, intramural. Department's or agency's own employees who perform R&D, which includes R&D performed by those employees and services performed by others in support of an internal R&D project (e.g., lab testing).

Research and development. Creative work conducted systematically to (1) extend scientific knowledge, or (2) devise new or improved applications, including materials, products, devices, processes, systems, or services. Sources and examples of R&D funding include the following:

- *Federal government.* Grants, contracts, and appropriations from the U.S. government.
- *State. State appropriations and grants, tobacco settlement funds, and state lottery* proceeds.
- *Other.* Grants and contracts from companies, nonprofit organizations (including foundations), other state governments, and city, county, regional, or other local governments.

Appendix B. Survey Materials

- U.S. Census Bureau Director's Letter
- Survey Questionnaire

UNITED STATES DEPARTMENT OF COMMERCE
Economics and Statistics Administration
U.S. Census Bureau
Washington, DC 20233-0001
OFFICE OF THE DIRECTOR

January 13, 2014

The Honorable «GOVNAME»
«GOVADDRESS1»
«GOVADDRESS2»
«GOVADDRESS3»
«GOVCITY», «GOVSTATE» «GOVZIP»«GOVZIP4»

Dear Governor «GOVLAST»:

I am writing to request that your office appoint a coordinator for the fiscal year (FY) 2012 and FY 2013 Survey of State Government Research and Development. The U.S. Census Bureau is collaborating with the National Science Foundation (NSF) to collect research and development (R&D) expenditure information from the 50 states, the District of Columbia, and Puerto Rico. You may recall that your state participated in the FY 2010 and FY 2011 survey. Please note the reporting period will cover two fiscal years; FY 2012 and FY 2013. Your survey response will be compiled by the Census Bureau and forwarded to NSF, the federal agency charged with collecting and reporting national R&D statistics. These statistics are used to measure states' contributions to our nation's science and technology base, a building block of a strong U.S. economy.

Your state coordinator will have two critical roles. First, we ask the coordinator to confirm the names and contact information for your state departments and agencies that are most likely to contribute to R&D investments. These departments and agencies will receive the web survey questionnaire with five questions about R&D activities, which include both performing and funding R&D. Second, your coordinator serves as the authorizing official for your state's survey response after all departments and agencies complete their survey questionnaires. I am including a copy of the FY 2012 and FY 2013 survey questionnaire. An electronic copy is available at <http://harvester.census.gov/nsf/> under Survey Questions and Definitions (PDF).

Please contact Lisa McNelis, Census Bureau project manager for this survey, with your state coordinator selection by e-mailing Lisa.Ann.McNelis@census.gov or calling 1-800-622-6193. For the FY 2010 and FY 2011 survey, «SCCONTACTNAME» «SCCONTACTTITLE» served as your state's survey coordinator.

Thank you in advance for your continuing help to complete a picture of our nation's R&D expenditures by state governments. You can find results from last year's survey from the NSF Web page: http://www.nsf.gov/statistics/infbrief/nsf14300/ .

Sincerely,

John H. Thompson
Director

Enclosures
cc: «SCCONTACTNAME»

FY 2012 and FY 2013
Survey of State Government R&D

Reference Copy Only

Submit your survey responses at:

http://harvester.census.gov/nsf

Survey Questions pages 2-7

Definitions and Examples pages 8-12

The purpose of this survey is to measure your state's contributions toward scientific and technological advances. The results of this survey will be used to estimate national totals for R&D in conjunction with other data collected by the National Science Foundation from private industry, academic institutions, and the federal government.

INFORMATION COPY
DO NOT USE TO REPORT

The Survey of State Government R&D is conducted by the National Science Foundation with the Department of Commerce, U.S. Census Bureau as the collection agent. Your participation is voluntary.

If you have any questions, please contact:
Lisa McNelis
U.S. Census Bureau
(800) 622-6193
govs.nsf.list@census.gov

Burden Statement

OMB: 0607-0933
Exp: 05/31/2016

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless such collection displays a valid Office of Management and Budget (OMB) control number. The OMB Control number for this survey is displayed at the top right of the survey "Home" page.

The Time required to complete these responses is estimated to be approximately four hours for the state coordinator and one hour and 45 minutes for agency respondents.

The burden on state coordinators includes the initial identification of department and agency contacts, monitoring of department and agency responses, and final review and verification of state data.

The burden on agency respondents includes the initial collection of data and the entry of data into the Web application.

Send comments about this burden estimate or any other aspect of this collection of information, including suggestions for reducing burden to:

Paperwork Project 0607-0933
U.S. Census Bureau
4700 Silver Hill Road, Stop 1500
Washington, DC 20233-1500

You may e-mail comments to Paperwork@census.gov; use "Paperwork Project 0607-0933" as the subject.

Contact Us - Log Out

Overview | Step 1. Your Info | Step 2. Definitions/Examples | Step 3. Screener Question

Step 3 R&D Screener Question

Did your department/agency do ANY of the following during FY 2012 or FY 2013?
Your answer will determine whether you continue to the R&D expenditure questions in Step 4.

FY 2012 is your state's fiscal year ending in 2012.
FY 2013 is your state's fiscal year ending in 2013.
For example, if your fiscal year ends on June 30th, the Fiscal year 2012 would be the fiscal period that begins July 1, 2011 and ends on June 30, 2012.

- Had a division, branch, or office devoted to research or development
- Performed research or development activities using department/agency staff
- Funded research or development at another state or local government
- Funded universities or other nonprofit organizations to perform research or development activities
- Funded companies or individuals to perform research or development activities
- Performed or funded other research or development activities not specified above

Survey Questions and Definitions (PDF)

○ **Yes**
○ **No**

If you select **"No"** your state survey coordinator will be notified that your department or agency does not have qualifying R&D activities for the FY 2012 and FY 2013 Survey of State Government R&D.

When did your fiscal year 2012 end? ___ / ___ / ___ (MM/DD/YYYY)
When did your fiscal year 2013 end? ___ / ___ / ___ (MM/DD/YYYY)

You may provide comments below. Please indicate whether comment applies to FY 2012 or FY 2013.

You may return and revise data until final submission.

Previous | Save and Continue

Contact Us - Log Out

Overview	Step 1. Your Info	Step 2. Definitions/Examples	Step 3. Screener Question	Step 4. Question 1
Step 4. Question 2	Step 4. Question 3	Step 4. Question 4	Step 4. Question 5	Step 5. Review/Submit

Step 4 **R&D Expenditure Questions**

Question 1

What were your department/agency R&D expenditures for FY 2012 and FY 2013 by the following types of performers?

- Include R&D from all sources, and report sources separately when your department/agency performs the R&D internally.
- Do NOT report expenditures for construction and acquisition of facilities used primarily for R&D; use Question 5.

Click here for R&D definitions and examples.

Internal Performers

- R&D performed by your department's/agency's employees
- Services performed by others in support of an internal R&D project (e.g., lab testing)
- Administration/management for external R&D projects

Examples of expenditures:

- Salaries
- Benefits
- Supplies
- Travel
- Equipment
- Indirect Costs
- Purchased Services

Expenditures by Internal Performers FY 2012	FY 2013	Source of Expenditures	Examples of Sources
$	$	State Funds	State appropriations, state grants, tobacco settlement funds, lottery proceeds
$	$	Federal Funds	Federal awards
$	$	Other Funds	Funds from all other sources, such as: non-profit organizations, companies, other state/local governments

External Performers

R&D funded by your department/agency and performed by:

- Academic institutions
- Companies and individuals
- Others

Examples of expenditures:

- Grants
- Payments for contracted R&D projects
- Reimbursable costs for R&D projects

Exclude pass-through funding for which you have no administrative oversight or control

Expenditures by External Performers FY 2012	FY 2013	Source of Expenditures
Academic Institutions		
$	$	All Funds (federal, state, or other)
Companies and Individuals		
$	$	All Funds (federal, state, or other)
Others		
$	$	All Funds (federal, state, or other)
$	$	**Total R&D Expenditures** (automatically calculated)

You may provide comments below. Please indicate whether comment applies to FY 2012 or FY 2013.

You may return and revise data until final submission.

Previous Save and Continue

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Overview	Step 1. Your Info	Step 2. Definitions/Examples	Step 3. Screener Question	Step 4. Question 1
Step 4. Question 2	Step 4. Question 3	Step 4. Question 4	Step 4. Question 5	Step 5. Review/Submit

Step 4 **R&D Expenditure Questions**

Question 2 (subset of Question 1 "Total")

How much of your total expenditures reported in Question 1 were for basic research? You may provide an estimate, if necessary.

- **Basic research** is conducted primarily to acquire new knowledge. It can be pure basic research without a specific product or process in mind, or it can be oriented basic research to produce a broad base of knowledge for future research.

Click here for examples that compare basic research, applied research, and development.

FY 2012	FY 2013	
$	$	**Basic research expenditures for your department/agency** (If none, enter "0")

FY 2012 answer should be less than or equal to **$0**.
FY 2013 answer should be less than or equal to **$0**.
(See the totals you reported for Question 1.)

You may provide comments below. Please indicate whether comment applies to FY 2012 or FY 2013.

You may return and revise data until final submission.

Previous Question | Save and Continue

Contact Us - Log Out

Overview	Step 1. Your Info	Step 2. Definitions/Examples	Step 3. Screener Question	Step 4. Question 1
Step 4. Question 2	Step 4. Question 3	Step 4. Question 4	Step 4. Question 5	Step 5. Review/Submit

Step 4 **R&D Expenditure Questions**

Question 3 (subset of Question 1 "Total")

How much of your total expenditures reported in Question 1 were from federal funds? You may provide an estimate, if necessary.

- Include expenditures for internal and external performers.
- Federal sources include grants, contracts, and appropriations from the United States government.
- **Exclude** any non-federal matching amounts.

FY 2012 **FY 2013**

$ [ ] $ [ ] **R&D expenditures from federal funds** (If none, enter "0")

FY 2012 answer should be less than or equal to **$0**.
FY 2013 answer should be less than or equal to **$0**.
(See the amounts you reported for Question 1 for internal federal funds plus external expenditures.)

You may provide comments below. Please indicate whether comment applies to FY 2012 or FY 2013.

You may return and revise data until final submission.

Previous Question Save and Continue

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Overview	Step 1. Your Info	Step 2. Definitions/Examples	Step 3. Screener Question	Step 4. Question 1
Step 4. Question 2	Step 4. Question 3	Step 4. Question 4	Step 4. Question 5	Step 5. Review/Submit

Step 4 **R&D Expenditure Questions**

Question 4 (breakout of Question 1 "Total")

How much of your total R&D expenditures reported in Question 1 were for each category below? You may provide an estimate, if necessary.

Expenditures FY 2012	Expenditures FY 2013	Type of Research	Examples
$	$	Agriculture	Animal health Aquaculture Crop management Food and commodities Forestry
$	$	Energy	Alternative fuels (e.g. ethanol, biofuels) Energy conservation, efficiency Oil and gas Other fossil fuels (e.g., coal, clean-coal, lignite) Renewable energy (e.g., wind, solar)
$	$	Environment and natural resources	Air and water quality Fish, game, and wildlife Geological survey Marine and aquatic environments Parks and preserves Soil and water conservation
$	$	Health	Biomedical research Mental health and addiction Public health
$	$	Transportation	Aviation Highways, roads and bridges Ports and waterways Public transportation Rail and freight
$	$	Other - [Please describe in the comment section below]	R&D in other areas, such as: Corrections Criminal justice Education Forensic science Labor Public safety Social services
$	$	**Total R&D Expenditures** (automatically calculated)	

FY 2012 answer must equal **$0**.
FY 2013 answer must equal **$0**.
(See the totals you reported for Question 1.)

You may provide comments below. Please indicate whether comment applies to FY 2012 or FY 2013.

You may return and revise data until final submission.

Previous Question | Save and Continue

Contact Us - Log Out

Overview	Step 1. Your Info	Step 2. Definitions/Examples	Step 3. Screener Question	Step 4. Question 1
Step 4. Question 2	Step 4. Question 3	Step 4. Question 4	Step 4. Question 5	Step 5. Review/Submit

Step 4 **R&D Expenditure Questions**

Question 5 (not included in Question 1 "Total")

What were your department/agency R&D expenditures for FY 2012 and FY 2013 for construction and acquisition of facilities used primarily for R&D?

Please include:

- Construction projects
- Major renovations of buildings
- Purchasing land or buildings

Click here for R&D definitions and examples.

FY 2012	FY 2013	
$	$	**Expenditures for construction and acquisition of facilities used primarily for R&D** (If none, enter "0")

You may provide comments below. Please indicate whether comment applies to FY 2012 or FY 2013.

You may return and revise data until final submission.

Previous Question Save and Continue

Definitions & Examples

A. What does R&D mean?

B. What should be included/excluded in R&D?

C. What makes it R&D?

D. What are sources of R&D funding (Question 1)?

E. What does R&D performer mean (Question 1)?

F. What expenditures should be included/excluded?

G. What is the definition of Fiscal Year?

H. What is the definition of basic research (Question 2)?

I. What is the definition of “construction and acquisition of facilities" (Question 5)?

A. What does R&D mean?

Research and development (R&D) is creative work conducted systematically to:

1) extend scientific knowledge, or

2) devise new or improved applications.

Applications can include materials, products, devices, processes, systems, or services.

B. What should be included/excluded in R&D?

R&D includes, but is not limited to, activities that produce:	R&D does NOT include:
• Ideas that might be patented • Findings that could be published in academic journals • New or improved products or applications	• Program planning and evaluation • Management studies • Strategic planning • Business development services for new companies • Market research or analysis • Economic / policy / feasibility studies • Routine data collection / dissemination • Information Systems • Routine monitoring / testing • General patient services • Marketing of products / services • Commercialization (includes promoting/producing the products/services from R&D projects)

Examples of classifying R&D in four situations

Activity	It IS R&D…	It is NOT R&D…
Technical assistance	You hire a technical consultant to test the disease resistance for the new fish species you are developing. (The assistance addresses the uncertainty of the science/technology aspects of the product or service.)	You hire a technical consultant to help you design the graphic design for the package to ship your new fish species when you begin offering it for sale to other states. (The assistance addresses the uncertainty of the marketing/production aspects of the product or service.)
Help for new businesses	You provide funding to new businesses to help them with the costs of building prototypes of products they are developing.	You provide funding for new technology companies to help them acquire basic skills to market their new products.
Consulting	You use a consultant to plan testing of a highway pavement material that your transportation research center is trying to develop.	You use a consultant to help you secure health and safety approval for your new pavement material.
Developing a product from your research	You hire a university research center to test a new type of grass you developed to test whether it will survive actual conditions along the coastline.	You hire a law firm to help you with the process for patenting the new grass that you developed.

C. What makes it R&D?

What makes it R&D	When it is R&D	When it is NOT R&D
R&D is novel. • It increases our knowledge of the subject. • It hasn't been done before.	You are testing blood samples as part of a research project to find out the side effects of a new cancer treatment.	You are collecting information from samples of patients to estimate the incidence of chicken pox in the state's population. (You are using a standard approach to estimate the spread of chicken pox.)
R&D creates solutions useful to others. • Others might benefit from the findings. • The findings can be generalized to other situations and locations.	You are testing a pavement on your highways that is currently used only at airports. Other states will want the results.	You are testing pavement on your state's highways to estimate how much you need to budget for pavement replacement over the next five years. (Other states will not benefit from your specific state information.)

The outcome of R&D is uncertain. • The solution isn't obvious to an expert in that field.	Your research involves monitoring streams to determine whether a new program is increasing the population of a particular type of fish.	You are monitoring streams as part of plan to implement long-term monitoring for a particular type of fish. (The monitoring plan has already been tested and you are certain of the quality of the plan.)

D. What are sources of R&D funding (Question 1)?

Sources	**Examples**
State	State appropriations and grants, tobacco settlement funds, state lottery proceeds
Federal	Grants, contracts, and appropriations from the United States government
All other	Grants and contracts from: • Companies • Nonprofit organizations • Other state governments • County municipal town, township, or other local governments

E. What does R&D performer mean (Question 1)?

Performers are the people who conduct the R&D.

Internal Performers:	Within your department/agency • R&D performed by your department's/agency's employees • Services performed by others in support of an internal R&D project (e.g., lab testing) • Administration/management of external R&D project

External Performers:	Those outside your department/agency who perform R&D under the administrative oversight or control of your department/agency. This may include projects for your department/agency, as well as your extramural research programs.
Academic institutions	Public or private universities and colleges
Companies and Individuals	Companies or individuals under contract for research projects or that received grants for research projects
Others	• Nonprofit organizations • Other departments/agencies within your state • Other state governments • County, municipal, town, township, or other local governments • Federal government

F. What expenditures should be included/excluded?

Expenditures are amounts paid for current operations (Questions 1 through 4) and capital outlays (Question 5).

Respondents to this survey will be asked to report expenditures by performer of R&D. Please refer below for guidance on the types of expenditures to report for internal and external performers.

Include:	Do NOT include:
• Salaries, wages, and benefits • Supplies • Purchased services (e.g., lab testing) • Travel • Indirect or overhead costs for R&D activities • Equipment	• Agency and other fiduciary fund expenditures • Intra-agency transactions • Non-cash payments

Expenditures for Academic Institutions, Companies or Individuals, or Others as Performers (External)

Include:	Do NOT include:
• Grants • Payments for contracted R&D projects • Reimbursable costs for R&D projects	• Pass-through grants over which you have no administrative oversight or control • Direct appropriations to state universities that are used for R&D activities over which you have no oversight or control. (That information is reported by universities on NSF's Higher Education R&D Survey.)

G. What is the definition of Fiscal Year?

Fiscal Year 2012 is your state's fiscal year ending in 2012.

Fiscal Year 2013 is your state's fiscal year ending in 2013.

For example, if you are on a July - June fiscal year, Fiscal Year 2013 would be your July 1, 2012 to June 30, 2013 fiscal period.

H. What is the definition of basic research (Question 2)?

It may be helpful to compare the three components of R&D — basic research, applied research and development. Report all three types of research for Questions 1, 3, 4 and 5. Report only basic research for Question 2.

Below are definitions and examples.

Basic research (Question 2) is conducted primarily to acquire new knowledge. It can be basic research without a specific product or process in mind, or it can be basic research to product a broad base of knowledge for future research.

Applied research is conducted with a specific practical objective.

Development is the systematic use of the knowledge or understanding gained from research directed toward the production of useful materials, devices, systems, or methods, including the design and development of prototypes and processes.

Examples		
Basic research	**Applied research**	**Development**
You are studying the properties of blood to determine what affects coagulation.	You are conducting research on how a new chicken pox vaccine affects blood coagulation.	You are testing a newly developed chicken pox vaccine with various ages of school children before implementing it statewide.
You are studying the properties of molecules under various heat and cold conditions.	You are conducting research on the properties of particular substances under various heat and cold conditions with the objective of finding longer lasting components for pavement.	You are testing a newly developed pavement under various types of heat and cold conditions prior to using it on your state's highways.
You are studying the heart chambers of various fish species.	You are examining various levels of a toxic substance to determine the maximum safe level for fish in a stream.	You are designing a new system for monitoring a stream that will try out the results of your recent research in a real world situation.

I. What is the definition of "construction and acquisition of facilities" (Question 5)?

Construction and Acquisition of Facilities Used Primarily for R&D includes major costs for construction and purchase of buildings to be primarily used as R&D facilities. Include new construction, major renovations, and purchase of land or buildings.

Suggested Citation, Acknowledgments

National Science Foundation, National Center for Science and Engineering Statistics. 2015. *Survey of State Government Research and Development: FYs 2012 and 2013.* Detailed Statistical Tables NSF 15-323. Arlington, VA. Available at http://www.nsf.gov/statistics/2015/nsf15323/.

The U.S. Census Bureau, under National Science Foundation (NSF) interagency agreement number NCSE-13347875, collected, processed, and tabulated the statistics in this report under the direction of Lisa McNelis. Under the same interagency agreement, John Burke assisted with survey frame management and maintenance, while survey universe frame-research and entity classification was performed by Elizabeth Accetta and Samantha Shoemaker. Michael Freeman, Linda Huang, and Kim Mai provided Web application support. Jill O'Brien, Assistant Chief, Governments Division; Terri Kennerly, Chief, Educational Finance and Special Statistics Branch; Ilene Dranoff, Chief, Information Systems Branch; and Stephen D. Owens, Chief Government Organization Branch, provided managerial support. Methodological assistance was provided by Rebecca Morrison, NSF, National Center for Science and Engineering Statistics. RTI International edited the final report under NSF contract number NSFDACS13T1115. RTI staff members August Gering, Roxanne Snaauw, and Marceline Murawski performed this work.

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