

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	
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

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Department or agency	R&D performers ^a			R&D plant
	All	Intramural	Extramural	
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

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(Dollars)

Department or agency	R&D performers ^a			R&D plant
	All	Intramural	Extramural	
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

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	All	Intramural	Extramural	
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

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	All	Intramural	Extramural	
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

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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.