

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	
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
Calfish 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

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(Dollars)

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

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	All	Intramural	Extramural	
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

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	All	Intramural	Extramural	
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

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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.