

TABLE 11. State agency expenditures for R&D and R&D plant, by state, department or agency, and R&D performer: FY 2011
(Dollars)

Department or agency	All R&D performers ^a	Internal performers	External performers	R&D plant
United States ^b	1,403,816,235	461,506,205	942,310,030	109,124,517
Alabama	19,684,063	14,250,319	5,433,744	940,000
Conservation and Natural Resources, Department of	2,448,043	1,135,367	1,312,676	940,000
Forensic Science, Department of	475,402	475,402	0	0
Geological Survey	3,355,833	3,355,833	0	0
Marine Environmental Sciences Consortium	8,996,929	8,996,929	0	0
Transportation, Department of	4,407,856	286,788	4,121,068	0
Alaska	11,349,400	9,004,800	2,344,600	0
Fish and Game, Department of	2,697,600	2,697,600	0	0
Geological and Geophysical Surveys, Division of	6,084,800	6,051,200	33,600	0
Transportation and Public Facilities, Department of	2,567,000	256,000	2,311,000	0
Arizona	18,626,577	7,410,362	11,216,215	239,200
Agriculture, Department of	819,771	0	819,771	0
Game and Fish Department	4,643,079	4,137,092	505,987	0
Geological Survey	2,794,127	1,710,870	1,083,257	0
Health Services, Department of	8,330,000	250,000	8,080,000	0
Transportation, Department of	2,039,600	1,312,400	727,200	239,200
Arkansas	14,705,327	6,077,854	8,627,473	0
Beef Council	74,085	0	74,085	0
Calfish Promotion Board	43,648	0	43,648	0
Corn and Grain Sorghum Promotion Board	605,600	0	605,600	0
Game and Fish Commission	680,971	116,250	564,721	0
Highway and Transportation Department	927,990	144,978	783,012	0
Rice Research and Promotion Board	2,870,000	2,870,000	0	0
Science and Technology Authority	6,729,033	335,626	6,393,407	0
Soybean Promotion Board	2,611,000	2,611,000	0	0
Wheat Promotion Board	163,000	0	163,000	0
California	149,810,643	38,369,776	111,440,867	9,920,000
Energy Commission	95,975,000	13,129,000	82,846,000	0
Food and Agriculture, Department of	1,528,667	0	1,528,667	0
Transportation, Department of	37,445,000	10,997,000	26,448,000	0
Water Resources, Department of	14,861,976	14,243,776	618,200	9,920,000
Colorado	18,141,931	6,942,978	11,198,953	0
Economic Development, Office of	5,479,605	0	5,479,605	0
Natural Resources, Department of	7,654,500	5,238,226	2,416,274	0
Public Health and Environment, Department of	1,873,822	1,500	1,872,322	0
Public Safety, Department of	890,000	890,000	0	0
Transportation, Department of	2,244,004	813,252	1,430,752	0
Connecticut	39,192,091	23,573,706	15,618,385	0
Agricultural Experiment Station	10,631,320	10,631,320	0	0
Environmental Protection, Department of	8,101,784	7,219,560	882,224	0
Mental Health and Addiction Services, Department of	4,363,990	3,043,830	1,320,160	0
Public Health, Department of	11,894,644	258,906	11,635,738	0
Transportation, Department of	4,200,353	2,420,090	1,780,263	0
Delaware	2,609,902	2,049,018	560,884	0
Geological Survey	1,663,179	1,663,179	0	0
Natural Resources and Environmental Control, Department of	696,723	385,839	310,884	0
Transportation, Department of	250,000	0	250,000	0
District of Columbia	1,221,108	220,886	1,000,222	0
Health, Department of	956,728	148,997	807,731	0
Transportation, Department of	264,380	71,889	192,491	0
Florida	150,764,438	48,327,623	102,436,815	0
Agriculture and Consumer Services, Department of	11,707,343	3,029,030	8,678,313	0
Citrus, Department of	9,445,480	254,000	9,191,480	0
Environmental Protection, Department of	2,787,307	2,015,890	771,417	0

TABLE 11. State agency expenditures for R&D and R&D plant, by state, department or agency, and R&D performer: FY 2011
(Dollars)

Department or agency	All R&D performers ^a	Internal performers	External performers	R&D plant
Fish and Wildlife Conservation Commission	44,649,930	43,028,703	1,621,227	0
Health, Department of	64,723,630	0	64,723,630	0
Space	5,239,510	0	5,239,510	0
Transportation, Department of	12,211,238	0	12,211,238	0
Georgia	11,690,663	3,600,000	8,090,663	0
Herty Advanced Materials Development Center	3,600,000	3,600,000	0	0
Transportation, Department of	8,090,663	0	8,090,663	0
Hawaii	13,103,983	3,667,047	9,436,936	20,000
Agriculture, Department of	564,799	384,151	180,648	20,000
Business, Economic Development and Tourism, Department of	6,020,023	430,459	5,589,564	0
Land and Natural Resources, Department of	5,957,794	2,360,494	3,597,300	0
Transportation, Department of	561,367	491,943	69,424	0
Idaho	9,366,052	4,430,450	4,935,602	0
Barley Commission	94,342	50,039	44,303	0
Bean Commission	93,882	0	93,882	0
Environmental Quality, Department of	25,587	3,005	22,582	0
Fish and Game, Department of	4,210,814	3,636,677	574,137	0
Potato Commission	935,000	60,000	875,000	0
Transportation, Department of	1,580,312	170,629	1,409,683	0
Water Resources, Department of	1,828,500	510,100	1,318,400	0
Wheat Commission	597,615	0	597,615	0
Illinois	17,207,125	2,049,697	15,157,428	0
Children and Family Services, Department of	6,681,163	0	6,681,163	0
Public Health, Department of	680,013	0	680,013	0
State Police	558,641	558,641	0	0
Transportation, Department of	9,287,308	1,491,056	7,796,252	0
Indiana	6,983,364	975,000	6,008,364	0
Criminal Justice Institute	450,000	200,000	250,000	0
Economic Development Corporation	833,364	0	833,364	0
Natural Resources, Department of	1,700,000	300,000	1,400,000	0
Transportation, Department of	4,000,000	475,000	3,525,000	0
Iowa	36,992,222	1,260,999	35,731,223	0
College Student Aid Commission	92,753	92,753	0	0
Criminal and Juvenile Justice Programs, Division of	20,246	20,246	0	0
Economic Development Authority, Energy Office	26,590,826	0	26,590,826	0
Natural Resources, Department of	3,640,397	0	3,640,397	0
Transportation, Department of	6,050,000	550,000	5,500,000	0
Workforce Development	598,000	598,000	0	0
Kansas	6,635,626	1,501,433	5,134,193	0
Transportation, Department of	5,002,773	1,436,433	3,566,340	0
Wheat Commission	1,167,853	0	1,167,853	0
Wildlife, Parks, and Tourism, Department of	465,000	65,000	400,000	0
Kentucky	20,498,849	2,137,354	18,361,495	0
Agricultural Policy, Governor's Office of	45,130	0	45,130	0
Budget and Fiscal Management, Office of	4,425,113	0	4,425,113	0
Commercialization and Innovation, Department of	8,409,917	100,000	8,309,917	0
Early Childhood Development, Division of	541,000	291,000	250,000	0
Energy Policy, Governor's Office for	2,729,900	0	2,729,900	0
Environmental Education Council	37,666	0	37,666	0
Fish and Wildlife Resources, Department of	2,111,023	1,727,854	383,169	0
Nature Preserves Commission	26,500	18,500	8,000	0
Public Health, Department of	2,172,600	0	2,172,600	0
Louisiana	9,203,635	7,253,894	1,949,741	0
Transportation and Development, Department of	6,396,052	5,137,074	1,258,978	0
Wildlife and Fisheries, Department of	2,807,583	2,116,820	690,763	0

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(Dollars)

Department or agency	All R&D performers ^a	Internal performers	External performers	R&D plant
Maine	9,918,765	1,883,123	8,035,642	3,000,000
Agriculture, Department of	72,750	0	72,750	0
Conservation, Department of	380,000	380,000	0	0
Drug Enforcement Agency	75,000	0	75,000	0
Environmental Protection, Department of	225,000	150,000	75,000	0
Marine Resources, Department of	2,127,121	1,070,689	1,056,432	0
State Fire Marshal's Office	3,000	3,000	0	0
Technology Institute	6,530,034	0	6,530,034	3,000,000
Transportation, Department of	505,860	279,434	226,426	0
Maryland	20,084,540	1,928,700	18,155,840	0
Business and Economic Development, Department of	1,300,000	1,300,000	0	0
Health and Mental Hygiene, Department of	2,400,000	0	2,400,000	0
Natural Resources, Department of	268,700	83,700	185,000	0
Technology Development Corporation	11,211,823	0	11,211,823	0
Transportation, Department of	4,904,017	545,000	4,359,017	0
Massachusetts	4,878,927	785,738	4,093,189	224,093
Capital Asset Management, Division of	0	0	0	224,093
Early Education and Care, Department of	486,173	0	486,173	0
Environmental Protection, Department of	259,147	168,147	91,000	0
Fish and Game, Department of	583,482	483,482	100,000	0
Mental Health, Department of	1,882,744	134,109	1,748,635	0
Public Health, Department of	163,121	0	163,121	0
Transportation Planning, Office of	1,504,260	0	1,504,260	0
Michigan	9,802,873	1,509,097	8,293,776	0
Agriculture, Department of	82,793	0	82,793	0
Natural Resources, Department of	4,595,080	1,484,097	3,110,983	0
Transportation, Department of	5,125,000	25,000	5,100,000	0
Minnesota	11,653,327	1,509,585	10,143,742	1,813,507
Agriculture, Department of	1,774,976	782,000	992,976	0
Forest Resources Council	114,592	40,000	74,592	0
Pollution Control Agency	134,502	0	134,502	0
Transportation, Department of	9,629,257	687,585	8,941,672	1,813,507
Mississippi	7,420,851	4,028,133	3,392,718	0
Innovative Geospatial Solutions, Enterprise for	2,686,000	979,000	1,707,000	0
Transportation, Department of	2,389,770	704,052	1,685,718	0
Wildlife, Fisheries, and Parks, Department of	2,345,081	2,345,081	0	0
Missouri	13,658,961	7,546,964	6,111,997	0
Agriculture, Department of	32,308	0	32,308	0
Conservation, Department of	8,216,486	6,470,271	1,746,215	0
Natural Resources, Department of	367,085	158,278	208,807	0
Transportation, Department of	5,043,082	918,415	4,124,667	0
Montana	6,474,190	1,694,519	4,779,671	0
Agriculture, Department of	1,653,768	0	1,653,768	0
Commerce, Department of	1,376,063	0	1,376,063	0
Environmental Quality, Department of	283,206	87,031	196,175	0
Fish, Wildlife, and Parks	1,857,865	1,365,003	492,862	0
Natural Resources and Conservation, Department of	30,000	0	30,000	0
Transportation, Department of	1,273,288	242,485	1,030,803	0
Nebraska	4,061,651	320,392	3,741,259	0
Agriculture, Department of	342,385	0	342,385	0
Corn Board	267,123	0	267,123	0
Dry Bean Commission	141,220	141,220	0	0
Grain Sorghum Board	13,444	0	13,444	0
Natural Resources, Department of	1,770,243	175,172	1,595,071	0
Roads, Department of	1,123,236	0	1,123,236	0
Wheat Board	404,000	4,000	400,000	0

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Department or agency	All R&D performers ^a	Internal performers	External performers	R&D plant
Nevada	1,868,869	428,607	1,440,262	0
Transportation, Department of	1,393,048	362,976	1,030,072	0
Wildlife, Department of	475,821	65,631	410,190	0
New Hampshire	1,921,421	591,869	1,329,552	0
Agriculture, Markets, and Food, Department of	40,969	0	40,969	0
Resources and Economic Development, Department of	684,000	184,000	500,000	0
Transportation, Department of	1,196,452	407,869	788,583	0
New Jersey	17,068,781	2,980,802	14,087,979	0
Brain Injury Research, Commission on	3,260,413	132,172	3,128,241	0
Cancer Research, Commission on	350,000	0	350,000	0
Environmental Protection, Department of	1,988,395	1,460,400	527,995	0
Research and Treatment of Autism, Council for	3,385,611	320,180	3,065,431	0
Spinal Cord Research, Commission on	2,541,718	180,838	2,360,880	0
Transportation, Department of	5,542,644	887,212	4,655,432	0
New Mexico	1,821,583	494,193	1,327,390	0
Transportation, Department of	1,821,583	494,193	1,327,390	0
New York	182,736,305	108,093,556	74,642,749	0
Agriculture and Markets, Department of	3,554,089	2,775,000	779,089	0
Energy Research and Development Authority	48,057,371	11,551,001	36,506,370	0
Environmental Conservation, Department of	2,939,284	963,959	1,975,325	0
Foundation for Science, Technology and Innovation	68,000,000	47,400,000	20,600,000	0
Health, Department of	55,192,779	42,914,417	12,278,362	0
Transportation, Department of	4,992,782	2,489,179	2,503,603	0
North Carolina	29,611,785	19,478,718	10,133,067	346,612
Agriculture and Consumer Services, Department of	12,773,500	12,773,500	0	341,112
Environment and Natural Resources, Department of	5,267,285	3,527,218	1,740,067	0
Transportation, Department of	11,571,000	3,178,000	8,393,000	5,500
North Dakota	8,072,257	366,294	7,705,963	500,000
Agriculture, Department of	75,710	0	75,710	0
Lignite Research Council	2,790,750	141,250	2,649,500	0
Mineral Resources, Department of	73,500	73,500	0	0
Oil and Gas Research Program	1,378,125	44,265	1,333,860	0
Renewable Energy Research Program	1,236,475	30,000	1,206,475	0
Soybean Council	808,649	0	808,649	0
Transportation, Department of	578,559	77,279	501,280	0
Wheat Commission	1,130,489	0	1,130,489	500,000
Ohio	159,322,228	2,645,393	156,676,835	0
Air Quality Development Authority	2,034,728	0	2,034,728	0
Development, Department of	150,072,744	0	150,072,744	0
Mental Health, Department of	721,000	490,000	231,000	0
Natural Resources, Department of	3,711,878	1,944,556	1,767,322	0
Transportation, Department of	2,781,878	210,837	2,571,041	0
Oklahoma	20,304,740	9,850	20,294,890	493,621
Center for the Advancement of Science and Technology	13,052,997	0	13,052,997	493,621
Health, Department of	9,850	9,850	0	0
Sorghum Commission	22,500	0	22,500	0
Transportation, Department of	4,437,947	0	4,437,947	0
Wheat Commission	514,195	0	514,195	0
Wildlife Conservation, Department of	2,267,251	0	2,267,251	0
Oregon	20,001,272	17,063,005	2,938,267	0
Agriculture, Department of	582,446	0	582,446	0
Fish and Wildlife, Department of	11,326,000	11,266,000	60,000	0
Forestry, Department of	478,413	107,203	371,210	0
Geology and Mineral Industries, Department of	4,979,303	4,803,055	176,248	0
Transportation, Department of	2,494,162	806,249	1,687,913	0
Watershed Enhancement Board	140,948	80,498	60,450	0

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(Dollars)

Department or agency	All R&D performers ^a	Internal performers	External performers	R&D plant
Pennsylvania	71,098,139	5,826,832	65,271,307	5,495,050
Agriculture, Department of	640,671	0	640,671	0
Community and Economic Development, Department of	4,700,000	0	4,700,000	0
Conservation and Natural Resources, Department of	2,212,545	1,594,754	617,791	0
Environmental Protection, Department of	1,059,451	215,631	843,820	0
Fish and Boat Commission	781,643	694,905	86,738	0
Game Commission	3,695,614	2,780,122	915,492	0
Health, Department of	54,088,921	0	54,088,921	5,495,050
Transportation, Department of	3,919,294	541,420	3,377,874	0
Rhode Island	1,947,727	80,000	1,867,727	0
Economic Development Corporation	1,303,377	0	1,303,377	0
Transportation, Department of	644,350	80,000	564,350	0
South Carolina	47,795,394	42,532,704	5,262,690	11,875
Health and Environmental Control, Department of	721,804	721,804	0	0
Mental Health, Department of	122,334	21,450	100,884	0
Natural Resources, Department of	42,392,567	41,391,567	1,001,000	11,875
Public Service Authority	115,338	0	115,338	0
Sea Grant Consortium	2,862,766	354,215	2,508,551	0
Transportation, Department of	1,580,585	43,668	1,536,917	0
South Dakota	3,629,155	652,055	2,977,100	0
Game, Fish and Parks, Department of	1,628,888	0	1,628,888	0
Transportation, Department of	2,000,267	652,055	1,348,212	0
Tennessee	3,606,726	20,000	3,586,726	0
Environment and Conservation, Department of	320,000	20,000	300,000	0
Transportation, Department of	3,286,726	0	3,286,726	0
Texas	47,372,367	9,823,374	37,548,993	0
Agriculture, Department of	1,853,946	0	1,853,946	0
Cancer Prevention and Research Institute	15,715,498	7,014,052	8,701,446	0
Environmental Quality, Commission on	1,599,224	0	1,599,224	0
Health and Human Services Commission	123,000	123,000	0	0
Parks and Wildlife, Department of	1,819,498	1,140,319	679,179	0
Transportation, Department of	23,851,121	1,546,003	22,305,118	0
Water Development Board	2,410,080	0	2,410,080	0
Utah	34,418,764	10,361,727	24,057,037	85,963,745
Health, Department of	261,727	261,727	0	0
Natural Resources, Department of	8,000,000	8,000,000	0	0
Science Technology and Research, Governor's Office of Economic Development	23,557,037	0	23,557,037	85,963,745
Transportation, Department of	2,600,000	2,100,000	500,000	0
Vermont	1,711,673	1,543,503	168,170	0
Agriculture, Agency of	1,027,700	1,027,700	0	0
Human Services, Agency of	190,117	190,117	0	0
Transportation, Agency of	493,856	325,686	168,170	0
Virginia	17,241,804	6,567,645	10,674,159	0
Agriculture and Consumer Services, Department of	2,169,935	0	2,169,935	0
Consolidated Lab Services, Division of	784,808	614,808	170,000	0
Corrections, Department of	919,542	919,542	0	0
Forensic Science, Department of	160,439	160,439	0	0
Health, Department of	27,900	27,900	0	0
Innovative Technology, Center for	1,010,000	320,000	690,000	0
Marine Resources Commission	3,130,629	0	3,130,629	0
Natural History, Museum of	569,120	569,120	0	0
Transportation, Department of	8,469,431	3,955,836	4,513,595	0
Washington	24,500,489	10,245,788	14,254,701	0
Agriculture, Department of	190,841	0	190,841	0
Fish and Wildlife, Department of	7,190,560	7,128,911	61,649	0

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Grain Commission	3,573,613	0	3,573,613	0
Natural Resources, Department of	4,032,000	1,409,200	2,622,800	0
Potato Commission	842,198	49,700	792,498	0
Red Raspberry Commission	225,447	0	225,447	0
Transportation, Department of	5,095,830	1,522,977	3,572,853	0
Tree Fruit Research Commission	3,215,000	135,000	3,080,000	0
Wine Commission	135,000	0	135,000	0
West Virginia	35,475,338	8,130,744	27,344,594	156,814
Agriculture, Department of	151,428	151,428	0	5,894
Environmental Protection, Department of	885,794	507,010	378,784	0
Geological and Economic Survey	3,274,416	3,274,416	0	0
Higher Education Policy Commission	24,577,042	851,217	23,725,825	0
Highways, Department of	5,583,425	2,508,425	3,075,000	150,000
Justice and Community Services, Division of	15,513	10,113	5,400	920
Natural Resources, Division of	987,720	828,135	159,585	0
Wisconsin	21,128,936	6,126,083	15,002,853	0
Agriculture, Trade, and Consumer Protection, Department of	536,004	93,569	442,435	0
Economic Development Corporation	7,979,595	0	7,979,595	0
Natural Resources, Department of	8,497,725	5,716,730	2,780,995	0
Transportation, Department of	4,115,612	315,784	3,799,828	0
Wyoming	5,419,398	3,134,016	2,285,382	0
Agriculture, Department of	147,226	0	147,226	0
Environmental Quality, Department of	150,000	0	150,000	0
Game and Fish, Department of	1,775,184	561,483	1,213,701	0
Geological Survey	2,540,432	2,200,141	340,291	0
Transportation, Department of	506,556	372,392	134,164	0
Water Development Office	300,000	0	300,000	0
Puerto Rico ^c	537,869	400,000	137,869	0
Education Council	537,869	400,000	137,869	0

^a All R&D performers 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.

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

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, FY 2010 and FY 2011 Survey of State Government R&D.