

TABLE 13. R&D expenditures by department, state, and type of R&D: FY 2009
(Dollars)

Department or agency	All R&D expenditures	Agriculture	Environment and natural resources	Health	Transportation	Other
United States	1,210,113,524	66,748,642	318,359,498	284,144,944	243,798,130	297,062,310
Alabama	12,929,167	0	7,694,078	0	3,485,318	1,749,771
Conservation and Natural Resources, Department of	3,286,899	0	2,423,899	0	0	863,000
Forensic Science, Department of	301,434	0	0	0	0	301,434
Geological Survey	2,287,062	0	1,701,725	0	0	585,337
Marine Environmental Sciences Consortium	3,568,454	0	3,568,454	0	0	0
Transportation, Department of	3,485,318	0	0	0	3,485,318	0
Alaska	7,741,467	15,000	6,449,300	0	1,277,167	0
Fish and Game, Department of	1,807,000	0	1,807,000	0	0	0
Natural Resources, Department of	4,657,300	15,000	4,642,300	0	0	0
Transportation and Public Facilities, Department of	1,277,167	0	0	0	1,277,167	0
Arizona	21,483,423	220,751	6,705,485	11,775,750	2,624,700	156,737
Agriculture, Department of	220,751	220,751	0	0	0	0
Biomedical Research Commission	11,748,000	0	0	11,748,000	0	0
Environmental Quality, Department of	349,330	0	349,330	0	0	0
Game and Fish Department	4,988,520	0	4,988,520	0	0	0
Geological Survey	827,122	0	692,535	0	0	134,587
Health Services, Department of	27,750	0	0	27,750	0	0
Juvenile Corrections, Department of	19,838	0	0	0	0	19,838
Schools for the Deaf and Blind	2,312	0	0	0	0	2,312
Transportation, Department of	3,299,800	0	675,100	0	2,624,700	0
Arkansas	11,765,900	7,056,169	345,832	0	881,000	3,482,899
Beef Council	107,743	107,743	0	0	0	0
Catfish Promotion Board	44,482	44,482	0	0	0	0
Corn and Grain Sorghum Promotion Board	515,125	515,125	0	0	0	0
Forestry Commission	300,686	300,686	0	0	0	0
Game and Fish Commission	345,832	0	345,832	0	0	0
Highway and Transportation Department	881,000	0	0	0	881,000	0
Rice Research and Promotion Board	2,600,000	2,600,000	0	0	0	0
Science and Technology Authority	4,833,430	1,350,531	0	0	0	3,482,899
Soybean Promotion Board	1,800,000	1,800,000	0	0	0	0
Wheat Promotion Board	337,602	337,602	0	0	0	0
California	146,793,247	6,235,149	23,701,098	0	40,057,000	76,800,000
Energy Commission	88,700,000	0	11,900,000	0	0	76,800,000
Food and Agriculture, Department of	7,587,842	5,485,149	2,102,693	0	0	0
Transportation, Department of	40,057,000	0	0	0	40,057,000	0
Water Resources, Department of	10,448,405	750,000	9,698,405	0	0	0
Colorado	14,849,581	416,336	8,317,796	4,029,968	1,424,481	661,000
Economic Development, Office of	2,475,000	250,000	0	2,225,000	0	0
Natural Resources, Department of	8,134,132	116,336	8,017,796	0	0	0
Public Health and Environment, Department of	1,754,968	0	0	1,754,968	0	0
Public Safety, Department of	661,000	0	0	0	0	661,000
Transportation, Department of	1,824,481	50,000	300,000	50,000	1,424,481	0
Connecticut	27,088,088	1,378,304	5,814,050	15,904,192	3,777,288	214,254
Agricultural Experiment Station	8,556,478	1,231,478	4,100,000	3,225,000	0	0
Agriculture, Department of	140,714	140,714	0	0	0	0
Children and Families, Department of	288,151	0	0	73,897	0	214,254
Environmental Protection, Department of	1,456,308	6,112	1,450,196	0	0	0
Mental Health and Addiction Services, Department of	3,304,437	0	0	3,304,437	0	0
Public Health, Department of	9,300,858	0	0	9,300,858	0	0
Transportation, Department of	4,041,142	0	263,854	0	3,777,288	0

TABLE 13. R&D expenditures by department, state, and type of R&D: FY 2009
(Dollars)

Department or agency	All R&D expenditures	Agriculture	Environment and natural resources	Health	Transportation	Other
Delaware	2,066,752	0	1,516,752	200,000	250,000	100,000
Agriculture, Department of	83,190	0	83,190	0	0	0
Economic Development Office	300,000	0	0	200,000	0	100,000
Geological Survey	823,128	0	823,128	0	0	0
Natural Resources and Environmental Control, Department of	610,434	0	610,434	0	0	0
Transportation, Department of	250,000	0	0	0	250,000	0
District of Columbia	487,411	0	0	487,411	0	0
Health, Department of	487,411	0	0	487,411	0	0
Florida	66,513,756	19,410,440	17,934,886	18,478,377	9,830,053	860,000
Agriculture and Consumer Services, Department of	9,346,686	6,758,977	2,587,709	0	0	0
Citrus, Department of	12,171,000	12,171,000	0	0	0	0
Environmental Protection, Department of	8,237,640	480,463	7,057,177	0	0	700,000
Fish and Wildlife Conservation Commission	8,290,000	0	8,290,000	0	0	0
Health, Department of	18,180,877	0	0	18,180,877	0	0
Space Florida	457,500	0	0	297,500	0	160,000
Transportation, Department of	9,830,053	0	0	0	9,830,053	0
Georgia	6,662,887	0	0	0	4,162,887	2,500,000
Herty Advanced Materials Development Center	3,500,000	0	0	0	1,000,000	2,500,000
Transportation, Department of	3,162,887	0	0	0	3,162,887	0
Hawaii	13,976,364	233,394	4,497,068	0	2,339,180	6,906,722
Agriculture, Department of	32,000	32,000	0	0	0	0
Business Economic Development, Department of	7,196,722	0	0	0	290,000	6,906,722
Land and Natural Resources, Department of	4,698,462	201,394	4,497,068	0	0	0
Transportation, Department of	2,049,180	0	0	0	2,049,180	0
Idaho	6,052,058	1,352,291	3,381,390	0	1,318,377	0
Agriculture, Department of	56,200	56,200	0	0	0	0
Barley Commission	109,594	109,594	0	0	0	0
Bean Commission	59,462	59,462	0	0	0	0
Environmental Quality, Department of	91,190	0	91,190	0	0	0
Fish and Game, Department of	587,000	0	587,000	0	0	0
Potato Commission	643,000	643,000	0	0	0	0
Transportation, Department of	1,318,377	0	0	0	1,318,377	0
Water Resources, Department of	2,703,200	0	2,703,200	0	0	0
Wheat Commission	484,035	484,035	0	0	0	0
Illinois	19,656,490	18,096	9,325,324	4,107,400	5,369,057	836,613
Commerce and Economic Opportunity, Department of	94,436	18,096	56,800	0	0	19,540
Natural Resources, Department of	10,085,597	0	9,268,524	0	0	817,073
Public Health, Department of	4,107,400	0	0	4,107,400	0	0
Transportation, Department of	5,369,057	0	0	0	5,369,057	0
Indiana	47,549,928	0	1,821,645	20,304,740	4,000,000	21,423,543
Criminal Justice Institute	205,000	0	0	0	0	205,000
Economic Development Corporation	41,523,283	0	0	20,304,740	0	21,218,543
Natural Resources, Department of	1,821,645	0	1,821,645	0	0	0
Transportation, Department of	4,000,000	0	0	0	4,000,000	0
Iowa	11,284,860	0	0	0	6,463,700	4,821,160
Energy Independence, Office of	3,894,451	0	0	0	0	3,894,451
Lottery, Department of	175,059	0	0	0	0	175,059
Revenue, Department of	751,650	0	0	0	0	751,650
Transportation, Department of	6,463,700	0	0	0	6,463,700	0
Kansas	12,305,385	784,957	365,000	1,040,411	7,416,636	2,698,381
Technology Enterprise Corporation	4,184,830	0	0	1,040,411	446,038	2,698,381

TABLE 13. R&D expenditures by department, state, and type of R&D: FY 2009
(Dollars)

Department or agency	All R&D expenditures	Agriculture	Environment and natural resources	Health	Transportation	Other
Transportation, Department of	6,970,598	0	0	0	6,970,598	0
Wheat Commission	784,957	784,957	0	0	0	0
Wildlife and Parks, Department of	365,000	0	365,000	0	0	0
Kentucky	13,938,692	0	2,875,387	3,150,948	4,228,240	3,684,117
Energy Policy, Governor's Office for	3,637,000	0	0	0	0	3,637,000
Environmental Education Council	47,117	0	0	0	0	47,117
Fish and Wildlife Resources, Department of	2,690,029	0	2,690,029	0	0	0
Highways, Department of	4,228,240	0	0	0	4,228,240	0
Natural Resources, Department of	558	0	558	0	0	0
Nature Preserves Commission	184,800	0	184,800	0	0	0
Public Health, Department of	3,150,948	0	0	3,150,948	0	0
Louisiana	8,426,835	0	1,708,953	0	6,717,882	0
Environmental Quality, Department of	141,357	0	141,357	0	0	0
Transportation and Development, Department of	6,717,882	0	0	0	6,717,882	0
Wildlife and Fisheries, Department of	1,567,596	0	1,567,596	0	0	0
Maine	6,400,019	501,243	1,969,352	1,187,173	563,379	2,178,872
Conservation, Department of	408,100	10,000	398,100	0	0	0
Drug Enforcement Agency	8,685	0	0	0	0	8,685
Environmental Protection, Department of	550,000	0	550,000	0	0	0
Fire Marshal's Office	3,963	0	0	0	0	3,963
Marine Resources, Department of	734,693	0	734,693	0	0	0
Technology Institute	4,131,199	491,243	286,559	1,187,173	0	2,166,224
Transportation, Department of	563,379	0	0	0	563,379	0
Maryland	21,093,331	336,650	6,853,050	8,801,328	2,209,280	2,893,023
Business and Economic Development, Department of	1,305,523	0	0	0	0	1,305,523
Health and Mental Hygiene, Department of	8,701,328	0	0	8,701,328	0	0
Natural Resources, Department of	6,220,000	0	6,220,000	0	0	0
Technology Development Corporation	2,137,500	300,000	150,000	100,000	0	1,587,500
Transportation, Department of	2,728,980	36,650	483,050	0	2,209,280	0
Massachusetts	4,358,097	13,193	1,309,059	2,305,655	629,000	101,190
Conservation and Recreation, Department of	240,091	13,193	226,898	0	0	0
Environmental Protection, Department of	421,661	0	421,661	0	0	0
Fish and Game, Department of	660,500	0	660,500	0	0	0
Mental Health, Department of	2,208,037	0	0	2,208,037	0	0
Technology Collaborative	198,808	0	0	97,618	0	101,190
Transportation Planning, Office of	629,000	0	0	0	629,000	0
Michigan	14,950,709	206,282	8,641,326	0	6,103,101	0
Agriculture, Department of	206,282	206,282	0	0	0	0
Natural Resources, Department of	8,642,826	0	8,641,326	0	1,500	0
Transportation, Department of	6,101,601	0	0	0	6,101,601	0
Minnesota	16,655,913	987,608	1,566,712	0	13,908,648	192,945
Agriculture, Department of	1,918,097	987,608	737,544	0	0	192,945
Forest Resources Council	130,342	0	130,342	0	0	0
Pollution Control Agency	698,826	0	698,826	0	0	0
Transportation, Department of	13,908,648	0	0	0	13,908,648	0
Mississippi	9,731,915	0	6,255,823	0	1,993,130	1,482,962
Innovative Geospatial Solutions, Enterprise for	5,075,000	0	4,150,000	0	475,000	450,000
Technology Alliance	1,032,962	0	0	0	0	1,032,962
Transportation, Department of	1,518,130	0	0	0	1,518,130	0
Wildlife, Fisheries, and Parks, Department of	2,105,823	0	2,105,823	0	0	0

TABLE 13. R&D expenditures by department, state, and type of R&D: FY 2009
(Dollars)

Department or agency	All R&D expenditures	Agriculture	Environment and natural resources	Health	Transportation	Other
Missouri	16,070,147	168,096	10,133,435	272,900	5,495,716	0
Conservation, Department of	9,394,690	0	9,394,690	0	0	0
Health and Senior Services, Department of	272,900	0	0	272,900	0	0
Natural Resources, Department of	906,841	168,096	738,745	0	0	0
Transportation, Department of	5,495,716	0	0	0	5,495,716	0
Montana	7,200,442	1,199,654	1,871,061	822,627	876,558	2,430,542
Agriculture, Department of	1,285,830	871,160	414,670	0	0	0
Commerce, Department of	3,553,037	328,494	226,272	822,627	0	2,175,644
Environmental Quality, Department of	30,790	0	30,790	0	0	0
Fish, Wildlife, and Parks, Department of	1,093,129	0	1,093,129	0	0	0
Transportation, Department of	1,237,656	0	106,200	0	876,558	254,898
Nebraska	4,474,695	1,276,949	2,063,981	35,043	1,014,814	83,908
Agriculture, Department of	316,067	316,067	0	0	0	0
Corn Board	515,746	378,339	62,364	35,043	0	40,000
Dry Bean Commission	125,000	125,000	0	0	0	0
Ethanol Board	59,051	0	15,143	0	0	43,908
Grain Sorghum Board	5,200	5,200	0	0	0	0
Natural Resources, Department of	1,986,474	0	1,986,474	0	0	0
Roads, Department of	1,014,814	0	0	0	1,014,814	0
Wheat Board	452,343	452,343	0	0	0	0
Nevada	1,510,607	0	0	0	1,510,607	0
Transportation, Department of	1,510,607	0	0	0	1,510,607	0
New Hampshire	2,186,780	38,005	157,372	0	1,167,264	824,139
Agriculture, Markets, and Food, Department of	38,005	38,005	0	0	0	0
Education, Department of	324,139	0	0	0	0	324,139
Environmental Services, Department of	2,372	0	2,372	0	0	0
Resources and Economic Development, Department of	655,000	0	155,000	0	0	500,000
Transportation, Department of	1,167,264	0	0	0	1,167,264	0
New Jersey	15,146,838	0	2,974,000	7,709,498	4,153,340	310,000
Autism, Council for Research/Treatment of	2,792,455	0	0	2,792,455	0	0
Brain Injury Research, Commission on	1,444,000	0	0	1,444,000	0	0
Environmental Protection, Department of	3,814,000	0	2,854,000	650,000	0	310,000
Science and Technology, Commission on	605,000	0	120,000	485,000	0	0
Spinal Cord Research, Commission on	2,338,043	0	0	2,338,043	0	0
Transportation, Department of	4,153,340	0	0	0	4,153,340	0
New Mexico	1,655,529	0	0	0	1,655,529	0
Transportation, Department of	1,655,529	0	0	0	1,655,529	0
New York	126,122,333	1,869,720	22,642,345	46,038,312	12,445,993	43,125,963
Agriculture and Markets, Department of	3,487,006	987,006	0	2,500,000	0	0
Energy Research and Development Authority	42,170,407	774,714	13,025,991	330,312	7,796,776	20,242,614
Environmental Conservation, Department of	5,851,093	108,000	5,635,093	108,000	0	0
Health, Department of	32,200,000	0	0	32,200,000	0	0
Science, Technology and Innovation, Foundation for	35,283,349	0	1,500,000	10,900,000	0	22,883,349
Transportation, Department of	7,130,478	0	2,481,261	0	4,649,217	0
North Carolina	51,404,202	10,568,425	30,919,615	0	9,000,000	916,162
Agriculture and Consumer Services, Department of	10,092,515	10,038,175	0	0	0	54,340
Environment and Natural Resources, Department of	30,811,687	530,250	29,919,615	0	0	361,822
Transportation, Department of	10,500,000	0	1,000,000	0	9,000,000	500,000
North Dakota	16,423,175	935,619	587,710	107,368	963,611	13,828,867
Agriculture, Department of	30,245	30,245	0	0	0	0
Health, Department of	7,368	0	0	7,368	0	0

TABLE 13. R&D expenditures by department, state, and type of R&D: FY 2009
(Dollars)

Department or agency	All R&D expenditures	Agriculture	Environment and natural resources	Health	Transportation	Other
Lignite Research Council	12,500,000	0	0	0	0	12,500,000
Mineral Resources, Department of	238,135	0	12,060	0	40,166	185,909
Oil and Gas Research Program	1,034,458	0	480,000	0	0	554,458
Renewable Energy Research Program	588,500	0	0	0	0	588,500
Soybean Council	706,798	414,998	81,800	100,000	110,000	0
Transportation, Department of	813,445	0	0	0	813,445	0
Water Commission	13,850	0	13,850	0	0	0
Wheat Commission	490,376	490,376	0	0	0	0
Ohio	121,851,617	0	6,306,109	41,320,535	10,308,223	63,916,750
Air Quality Development Authority	3,503,551	0	3,503,551	0	0	0
Development, Department of	111,125,353	0	765,000	41,320,535	5,702,500	63,337,318
Education, Department of	456,654	0	0	0	0	456,654
Natural Resources, Department of	2,160,336	0	2,037,558	0	0	122,778
Transportation, Department of	4,605,723	0	0	0	4,605,723	0
Oklahoma	15,930,878	1,610,660	2,552,285	5,796,835	3,818,308	2,152,790
Science and Technology, Center for the Advancement of	8,962,658	854,878	205,622	5,796,835	80,424	2,024,899
Transportation, Department of	4,120,111	254,336	0	0	3,737,884	127,891
Wheat Commission	501,446	501,446	0	0	0	0
Wildlife Conservation, Department of	2,346,663	0	2,346,663	0	0	0
Oregon	12,428,875	134,857	8,279,562	1,008,735	2,705,721	300,000
Fish and Wildlife, Department of	690,820	0	690,820	0	0	0
Forestry, Department of	1,281,242	134,857	1,146,385	0	0	0
Geology and Mineral Industries, Department of	4,685,127	0	4,685,127	0	0	0
Human Services, Department of	1,308,735	0	0	1,008,735	0	300,000
Transportation, Department of	2,705,721	0	0	0	2,705,721	0
Watershed Enhancement Board	1,757,230	0	1,757,230	0	0	0
Pennsylvania	102,958,404	852,734	9,395,553	73,403,595	5,815,684	13,490,838
Agriculture, Department of	852,734	852,734	0	0	0	0
Community and Economic Development, Department of	17,755,250	0	2,600,000	3,955,000	0	11,200,250
Conservation and Natural Resources, Department of	4,613,826	0	4,613,826	0	0	0
Environmental Protection, Department of	2,938,656	0	523,068	0	125,000	2,290,588
Fish and Boat Commission	60,901	0	60,901	0	0	0
Game Commission	1,597,758	0	1,597,758	0	0	0
Health, Department of	69,448,595	0	0	69,448,595	0	0
Transportation, Department of	5,690,684	0	0	0	5,690,684	0
Rhode Island	1,382,531	0	397,587	984,944	0	0
Economic Development Corporation	1,382,531	0	397,587	984,944	0	0
South Carolina	28,599,885	421,699	25,183,342	0	2,476,225	518,619
Agriculture, Department of	940,318	421,699	0	0	0	518,619
Natural Resources, Department of	23,521,908	0	23,521,908	0	0	0
Sea Grant Consortium	1,661,434	0	1,661,434	0	0	0
Transportation, Department of	2,476,225	0	0	0	2,476,225	0
South Dakota	4,607,427	0	2,538,117	0	2,069,310	0
Environment and Natural Resources, Department of	226,825	0	226,825	0	0	0
Game, Fish, and Parks, Department of	2,311,292	0	2,311,292	0	0	0
Transportation, Department of	2,069,310	0	0	0	2,069,310	0
Tennessee	3,881,687	0	0	129,100	3,752,587	0
Health, Department of	129,100	0	0	129,100	0	0
Transportation, Department of	3,752,587	0	0	0	3,752,587	0
Texas	49,381,346	1,972,975	24,750,247	123,000	22,535,124	0
Agriculture, Department of	1,847,975	1,847,975	0	0	0	0

TABLE 13. R&D expenditures by department, state, and type of R&D: FY 2009
(Dollars)

Department or agency	All R&D expenditures	Agriculture	Environment and natural resources	Health	Transportation	Other
Environmental Quality, Commission on	14,763,819	0	14,763,819	0	0	0
Health and Human Services Commission	123,000	0	0	123,000	0	0
Parks and Wildlife, Department of	8,130,217	0	8,130,217	0	0	0
Transportation, Department of	22,535,124	0	0	0	22,535,124	0
Water Development Board	1,981,211	125,000	1,856,211	0	0	0
Utah	26,442,711	1,000,000	6,149,899	10,409,824	800,000	8,082,988
Health, Department of	96,476	0	0	96,476	0	0
Natural Resources, Department of	8,000,000	1,000,000	4,000,000	0	0	3,000,000
Science Technology and Research Initiative	15,727,062	0	1,949,899	10,313,348	0	3,463,815
Transportation, Department of	2,619,173	0	200,000	0	800,000	1,619,173
Vermont	738,707	0	0	0	738,707	0
Transportation, Agency of	738,707	0	0	0	738,707	0
Virginia	17,929,519	806,328	4,005,964	810,000	9,443,286	2,863,941
Agriculture and Consumer Services, Department of	806,328	806,328	0	0	0	0
Consolidated Lab Services, Division of	810,000	0	0	810,000	0	0
Corrections, Department of	477,250	0	0	0	0	477,250
Criminal Justice Services, Department of	447,000	0	0	0	0	447,000
Forensic Science, Department of	227,630	0	0	0	0	227,630
Innovative Technology, Center for	1,642,061	0	0	0	0	1,642,061
Marine Resources Commission	3,184,779	0	3,184,779	0	0	0
Natural History, Museum of	821,185	0	821,185	0	0	0
Social Services, Department of	70,000	0	0	0	0	70,000
Transportation, Department of	9,443,286	0	0	0	9,443,286	0
Washington	14,528,728	4,462,763	7,754,560	26,275	2,285,130	0
Agriculture, Department of	179,149	179,149	0	0	0	0
Beef Commission	2,357	2,357	0	0	0	0
Fish and Wildlife, Department of	6,993,436	0	6,993,436	0	0	0
Grain Commission	3,321,400	3,321,400	0	0	0	0
Potato Commission	833,191	833,191	0	0	0	0
Puget Sound Partnership	761,124	0	761,124	0	0	0
Red Raspberry Commission	152,941	126,666	0	26,275	0	0
Transportation, Department of	2,285,130	0	0	0	2,285,130	0
West Virginia	10,357,006	0	1,804,769	0	950,000	7,602,237
Environmental Protection, Department of	1,554,769	0	1,554,769	0	0	0
Higher Education Policy Commission	7,602,237	0	0	0	0	7,602,237
Highways, Department of	1,200,000	0	250,000	0	950,000	0
Wisconsin	24,942,415	0	15,201,270	3,373,000	5,030,145	1,338,000
Commerce, Department of	12,406,980	0	7,695,980	3,373,000	0	1,338,000
Natural Resources, Department of	7,505,290	0	7,505,290	0	0	0
Transportation, Department of	5,030,145	0	0	0	5,030,145	0
Wyoming	7,194,765	264,295	3,641,349	0	1,756,744	1,532,377
Agriculture, Department of	264,295	264,295	0	0	0	0
Corrections, Department of	89,000	0	0	0	0	89,000
Employment, Research and Planning, Department of	1,443,377	0	0	0	0	1,443,377
Environmental Quality, Department of	150,000	0	150,000	0	0	0
Game and Fish Department	1,325,668	0	1,325,668	0	0	0
Geological Survey	2,165,681	0	2,165,681	0	0	0
Transportation, Department of	1,756,744	0	0	0	1,756,744	0

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, FY 2009 Survey of State Government R&D.