

TABLE 17

State agency expenditures for R&D and R&D plant, by state, department or agency, and R&D performer: FY 2019

(Dollars)

| State and department or agency | R&D performers ^a | | | R&D plant |
|---|-----------------------------|-------------|---------------|------------|
| | All | Intramural | Extramural | |
| United States ^b | 2,426,882,959 | 676,171,326 | 1,750,711,633 | 10,290,679 |
| Alabama | 19,763,230 | 7,412,961 | 12,350,269 | 0 |
| Commerce, Department of | 2,500,000 | 0 | 2,500,000 | 0 |
| Conservation and Natural Resources, Department of: Wildlife and Freshwater Fisheries Division | 2,908,673 | 0 | 2,908,673 | 0 |
| Education, Department of | 610,000 | 480,000 | 130,000 | 0 |
| Forensic Sciences, Department of | 238,454 | 238,454 | 0 | 0 |
| Geological Survey | 2,321,007 | 2,321,007 | 0 | 0 |
| Marine Environmental Science Consortium, Dauphin Island Sea Lab | 4,373,500 | 4,373,500 | 0 | 0 |
| Supercomputer Authority | 3,153,648 | 0 | 3,153,648 | 0 |
| Transportation, Department of | 3,657,948 | 0 | 3,657,948 | 0 |
| Alaska | 12,502,109 | 8,920,501 | 3,581,608 | 0 |
| Energy Authority | 102,206 | 0 | 102,206 | 0 |
| Environmental Conservation, Department of | 320,476 | 114,393 | 206,083 | 0 |
| Housing Finance Corporation | 1,000,000 | 0 | 1,000,000 | 0 |
| Natural Resources, Division of Geological and Geophysical Surveys, Department of | 8,392,100 | 8,392,100 | 0 | 0 |
| Railroad Corporation | 1,330,621 | 320,258 | 1,010,363 | 0 |
| Transportation and Public Facilities, Department of | 1,356,706 | 93,750 | 1,262,956 | 0 |
| Arizona | 17,332,044 | 761,096 | 16,570,948 | 0 |
| Agriculture, Department of | 1,176,374 | 0 | 1,176,374 | 0 |
| Game and Fish Department | 811,096 | 761,096 | 50,000 | 0 |
| Health Services, Department of | 13,843,058 | 0 | 13,843,058 | 0 |
| Transportation, Department of | 1,501,516 | 0 | 1,501,516 | 0 |
| Arkansas | 21,098,863 | 66,099 | 21,032,764 | 0 |
| Beef Council | 40,250 | 0 | 40,250 | 0 |
| Corn and Grain Sorghum Board | 965,000 | 0 | 965,000 | 0 |
| Economic Development Commission | 7,068,797 | 0 | 7,068,797 | 0 |
| Game and Fish Commission | 802,324 | 1,100 | 801,224 | 0 |
| Rice Research and Promotion Board | 8,623,500 | 0 | 8,623,500 | 0 |
| Soybean Promotion Board | 2,625,555 | 0 | 2,625,555 | 0 |
| State Plant Board | 118,000 | 0 | 118,000 | 0 |
| Transportation, Department of | 805,437 | 64,999 | 740,438 | 0 |
| Wheat Promotion Board | 50,000 | 0 | 50,000 | 0 |
| California | 526,918,585 | 73,081,146 | 453,837,439 | 338,000 |
| Air Resources Board | 15,271,608 | 10,753,671 | 4,517,937 | 0 |
| Children and Families Commission | 1,895,000 | 0 | 1,895,000 | 0 |
| Conservation, Department of | 184,000 | 0 | 184,000 | 0 |
| Corrections and Rehabilitation, Department of | 2,237,305 | 0 | 2,237,305 | 0 |
| Covered California | 3,489,452 | 0 | 3,489,452 | 0 |
| Delta Stewardship Council | 6,372,069 | 0 | 6,372,069 | 0 |
| Earthquake Authority | 1,816,792 | 0 | 1,816,792 | 0 |
| Energy Commission | 165,441,000 | 17,472,000 | 147,969,000 | 0 |
| Environmental Health Hazard Assessment, Office of | 17,563,188 | 15,375,492 | 2,187,696 | 0 |
| Food and Agriculture, Department of | 4,871,361 | 0 | 4,871,361 | 0 |
| Forestry and Fire Protection, Department of | 3,665,406 | 512,919 | 3,152,487 | 0 |
| Horse Racing Board | 701,000 | 0 | 701,000 | 0 |
| Housing and Community Development | 50,000 | 0 | 50,000 | 0 |
| Institute for Regenerative Medicine | 184,982,872 | 0 | 184,982,872 | 0 |
| Mental Health Services Oversight and Accountability Commission | 2,500,000 | 0 | 2,500,000 | 0 |
| Motor Vehicles, Department of | 1,331,851 | 1,331,851 | 0 | 0 |

TABLE 17

State agency expenditures for R&D and R&D plant, by state, department or agency, and R&D performer: FY 2019

(Dollars)

| State and department or agency | R&D performers ^a | | | R&D plant |
|--|-----------------------------|------------|-------------|-----------|
| | All | Intramural | Extramural | |
| Parks and Recreation, Department of | 1,500,000 | 140,000 | 1,360,000 | 0 |
| Pesticide Regulation, Department of | 12,746,628 | 8,968,747 | 3,777,881 | 0 |
| Public Health, Department of | 3,313,977 | 1,676,000 | 1,637,977 | 338,000 |
| Public Utilities Commission, Executive Division | 37,221,559 | 0 | 37,221,559 | 0 |
| Rehabilitation, Department of | 10,800,000 | 1,993,764 | 8,806,236 | 0 |
| Social Services, Department of | 151,151 | 151,151 | 0 | 0 |
| State Coastal Conservancy | 838,000 | 0 | 838,000 | 0 |
| State Water Resources Control Board | 8,768,254 | 2,496,841 | 6,271,413 | 0 |
| Transportation, Department of | 34,906,443 | 11,341,072 | 23,565,371 | 0 |
| Water Resources, Department of | 4,299,669 | 867,638 | 3,432,031 | 0 |
| Colorado | 36,586,577 | 11,900,858 | 24,685,719 | 0 |
| Agriculture, Department of | 1,316,868 | 1,092,868 | 224,000 | 0 |
| Economic Development and International Trade, Office of | 15,192,123 | 0 | 15,192,123 | 0 |
| Higher Education Competitive, Research Authority | 1,700,000 | 0 | 1,700,000 | 0 |
| Higher Education, Department of | 745,000 | 45,000 | 700,000 | 0 |
| Natural Resources, Department of | 7,567,568 | 7,562,568 | 5,000 | 0 |
| Public Health and Environment, Department of | 5,585,075 | 2,028,422 | 3,556,653 | 0 |
| Public Safety, Department of | 1,077,000 | 1,077,000 | 0 | 0 |
| Transportation, Department of | 3,194,911 | 95,000 | 3,099,911 | 0 |
| Wine Industry Development Board | 208,032 | 0 | 208,032 | 0 |
| Connecticut | 57,241,037 | 24,679,641 | 32,561,396 | 0 |
| Agricultural Experiment Station | 12,445,226 | 12,445,226 | 0 | 0 |
| Children and Families, Department of | 81,949 | 0 | 81,949 | 0 |
| Education, Department of | 452,289 | 25,000 | 427,289 | 0 |
| Energy and Environmental Protection, Department of | 6,623,689 | 6,002,512 | 621,177 | 0 |
| Innovation Inc. | 26,858,089 | 0 | 26,858,089 | 0 |
| Mental Health and Addiction Services, Department of | 5,951,993 | 5,951,993 | 0 | 0 |
| Public Health, Department of | 114,974 | 0 | 114,974 | 0 |
| Social Services, Department of | 1,429,408 | 0 | 1,429,408 | 0 |
| Transportation, Department of | 3,283,420 | 254,910 | 3,028,510 | 0 |
| Delaware | 3,826,318 | 2,558,634 | 1,267,684 | 0 |
| Geological Survey | 2,441,975 | 2,391,175 | 50,800 | 0 |
| Natural Resources and Environmental Control, Department of | 259,327 | 143,203 | 116,124 | 0 |
| Sustainable Energy Utility | 24,256 | 24,256 | 0 | 0 |
| Transportation, Department of | 1,100,760 | 0 | 1,100,760 | 0 |
| District of Columbia | 4,222,412 | 1,888,642 | 2,333,770 | 0 |
| Health, Department of | 1,800,000 | 796,043 | 1,003,957 | 0 |
| Transportation, Department of | 422,412 | 92,599 | 329,813 | 0 |
| Water and Sewer Authority | 2,000,000 | 1,000,000 | 1,000,000 | 0 |
| Florida | 170,508,724 | 50,604,692 | 119,904,032 | 4,168,184 |
| Agriculture and Consumer Services, Department of | 12,822,683 | 1,547,678 | 11,275,005 | 0 |
| Citrus, Department of | 941,902 | 110,432 | 831,470 | 0 |
| Environmental Protection, Department of | 63,430 | 63,430 | 0 | 0 |
| Fish and Wildlife Conservation Commission | 52,150,203 | 47,252,513 | 4,897,690 | 4,168,184 |
| Health, Department of | 89,163,217 | 0 | 89,163,217 | 0 |
| Space Florida | 1,497,850 | 0 | 1,497,850 | 0 |
| Transportation, Department of | 13,869,439 | 1,630,639 | 12,238,800 | 0 |
| Georgia | 18,875,484 | 3,539,835 | 15,335,649 | 0 |
| Natural Resources, Department of | 1,956,371 | 896,266 | 1,060,105 | 0 |
| Seed Development Commission | 633,607 | 0 | 633,607 | 0 |

TABLE 17

State agency expenditures for R&D and R&D plant, by state, department or agency, and R&D performer: FY 2019

(Dollars)

| State and department or agency | R&D performers ^a | | | R&D plant |
|---|-----------------------------|------------|------------|-----------|
| | All | Intramural | Extramural | |
| Southern States Energy Board | 10,501,076 | 2,643,569 | 7,857,507 | 0 |
| Transportation, Department of | 5,784,430 | 0 | 5,784,430 | 0 |
| Hawaii | 7,325,591 | 257,625 | 7,067,966 | 11,237 |
| Agriculture, Department of | 680,702 | 257,625 | 423,077 | 0 |
| Business, Economic Development, and Tourism, Department of | 3,947,297 | 0 | 3,947,297 | 11,237 |
| Land and Natural Resources, Department of | 895,592 | 0 | 895,592 | 0 |
| Natural Energy Laboratory | 1,000,000 | 0 | 1,000,000 | 0 |
| Transportation, Department of | 802,000 | 0 | 802,000 | 0 |
| Idaho | 17,828,263 | 6,709,727 | 11,118,536 | 52,080 |
| Agriculture, Department of | 922,104 | 2,571 | 919,533 | 0 |
| Alfalfa and Clover Seed Commission | 15,000 | 0 | 15,000 | 0 |
| Barley Commission | 237,498 | 0 | 237,498 | 0 |
| Bean Commission | 26,400 | 0 | 26,400 | 0 |
| Beef Council | 16,500 | 0 | 16,500 | 0 |
| Commerce, Department of | 1,016,728 | 0 | 1,016,728 | 0 |
| Dairy West | 2,000,000 | 0 | 2,000,000 | 0 |
| Environmental Quality, Department of | 460,000 | 0 | 460,000 | 0 |
| Fish and Game, Department of | 7,904,544 | 6,594,251 | 1,310,293 | 0 |
| Honey Commission | 1,635 | 0 | 1,635 | 0 |
| Oilseed Commission | 61,565 | 0 | 61,565 | 0 |
| Pea and Lentil Commission | 80,836 | 0 | 80,836 | 0 |
| Potato Commission | 850,000 | 0 | 850,000 | 0 |
| Transportation Department | 3,339,242 | 112,905 | 3,226,337 | 0 |
| Wheat Commission | 896,211 | 0 | 896,211 | 52,080 |
| Illinois | 17,548,556 | 1,171,225 | 16,377,331 | 0 |
| Children and Family Services, Department of | 3,848,765 | 0 | 3,848,765 | 0 |
| Human Services, Department of | 236,073 | 0 | 236,073 | 0 |
| Nutrient Research and Education | 3,989,560 | 0 | 3,989,560 | 0 |
| Public Health, Department of | 15,596 | 0 | 15,596 | 0 |
| Transportation, Department of | 9,458,562 | 1,171,225 | 8,287,337 | 0 |
| Indiana | 12,357,151 | 167,703 | 12,189,448 | 0 |
| Economic Development Corporation | 3,936,062 | 0 | 3,936,062 | 0 |
| Natural Resources, Department of | 100,000 | 0 | 100,000 | 0 |
| Transportation, Department of | 8,321,089 | 167,703 | 8,153,386 | 0 |
| Iowa | 9,386,675 | 3,279,267 | 6,107,408 | 0 |
| Human Rights, Criminal and Juvenile Justice Planning, Division of | 433,061 | 411,045 | 22,016 | 0 |
| Natural Resources, Department of | 3,797,923 | 2,868,222 | 929,701 | 0 |
| Transportation, Department of | 5,155,691 | 0 | 5,155,691 | 0 |
| Kansas | 12,355,458 | 998,463 | 11,356,995 | 0 |
| Corn Commission | 850,050 | 0 | 850,050 | 0 |
| Grain Sorghum Commission | 444,660 | 0 | 444,660 | 0 |
| Soybean Commission | 1,463,379 | 0 | 1,463,379 | 0 |
| State Board of Regents | 996,465 | 3,200 | 993,265 | 0 |
| Transportation, Department of | 3,714,875 | 985,452 | 2,729,423 | 0 |
| Water Office | 465,725 | 9,811 | 455,914 | 0 |
| Wheat Commission | 1,240,806 | 0 | 1,240,806 | 0 |
| Wildlife, Parks, and Tours | 3,179,498 | 0 | 3,179,498 | 0 |
| Kentucky | 26,668,173 | 2,038,186 | 24,629,987 | 0 |
| Behavioral Health, Developmental and Intellectual Disabilities | 67,500 | 0 | 67,500 | 0 |
| Economic Development, Cabinet for | 4,040,000 | 0 | 4,040,000 | 0 |

TABLE 17

State agency expenditures for R&D and R&D plant, by state, department or agency, and R&D performer: FY 2019

(Dollars)

| State and department or agency | R&D performers ^a | | | R&D plant |
|---|-----------------------------|------------|------------|-----------|
| | All | Intramural | Extramural | |
| Environmental Protection, Department of | 100,000 | 10,000 | 90,000 | 0 |
| Fish and Wildlife Resources, Department of | 2,000,000 | 1,745,186 | 254,814 | 0 |
| Horse Racing Commission | 293,414 | 0 | 293,414 | 0 |
| Nature Preserves, Office of | 401,000 | 283,000 | 118,000 | 0 |
| Postsecondary Education, Council on | 10,559,315 | 0 | 10,559,315 | 0 |
| Public Health, Department for | 1,586,642 | 0 | 1,586,642 | 0 |
| Soybean Promotion Board | 600,000 | 0 | 600,000 | 0 |
| Transportation Cabinet | 7,020,302 | 0 | 7,020,302 | 0 |
| Louisiana | 35,142,225 | 10,974,134 | 24,168,091 | 0 |
| Agriculture and Forestry, Department of | 26,840 | 0 | 26,840 | 0 |
| Board of Regents | 15,162,504 | 0 | 15,162,504 | 0 |
| Coastal Protection and Restoration Authority | 3,368,965 | 466,210 | 2,902,755 | 0 |
| Education, Department of | 428,589 | 355,089 | 73,500 | 0 |
| Transportation and Development, Department of | 10,000,000 | 4,500,000 | 5,500,000 | 0 |
| Wildlife and Fisheries, Department of | 6,155,327 | 5,652,835 | 502,492 | 0 |
| Maine | 32,592,625 | 3,051,263 | 29,541,362 | 0 |
| Agriculture, Conservation and Forestry, Department of | 650,363 | 329,763 | 320,600 | 0 |
| Inland Fisheries and Wildlife, Department of | 719,045 | 0 | 719,045 | 0 |
| Marine Resources, Department of | 2,341,500 | 2,236,500 | 105,000 | 0 |
| Technology Institute | 27,745,717 | 0 | 27,745,717 | 0 |
| Transportation, Department of | 1,136,000 | 485,000 | 651,000 | 0 |
| Maryland | 29,107,768 | 989,368 | 28,118,400 | 49,891 |
| Education, Department of | 638,402 | 0 | 638,402 | 0 |
| Energy Administration | 1,032,429 | 0 | 1,032,429 | 49,891 |
| Health and Mental Hygiene, Department of | 13,000,000 | 0 | 13,000,000 | 0 |
| Natural Resources, Department of | 1,476,425 | 586,649 | 889,776 | 0 |
| Technology Development Corporation | 10,620,513 | 0 | 10,620,513 | 0 |
| Transportation, Department of | 2,339,999 | 402,719 | 1,937,280 | 0 |
| Massachusetts | 28,425,439 | 8,798,238 | 19,627,201 | 0 |
| Clean Energy Technology Center | 4,999,247 | 0 | 4,999,247 | 0 |
| Environmental Protection, Department of | 288,925 | 223,238 | 65,687 | 0 |
| Fish and Game, Department of | 8,550,000 | 8,050,000 | 500,000 | 0 |
| Gaming Commission | 2,125,000 | 0 | 2,125,000 | 0 |
| Life Sciences Center | 1,000,000 | 0 | 1,000,000 | 0 |
| Massventures | 3,300,000 | 0 | 3,300,000 | 0 |
| Mental Health, Department of | 1,300,000 | 0 | 1,300,000 | 0 |
| Public Health, Department of | 2,237,267 | 0 | 2,237,267 | 0 |
| Transportation, Department of | 4,425,000 | 425,000 | 4,000,000 | 0 |
| Water Resources Authority | 200,000 | 100,000 | 100,000 | 0 |
| Michigan | 8,023,318 | 336,227 | 7,687,091 | 0 |
| Agriculture and Rural Development, Department of | 1,246,732 | 0 | 1,246,732 | 0 |
| Environmental, Great Lakes and Energy, Department of | 639,875 | 336,227 | 303,648 | 0 |
| Health and Human Services | 88,488 | 0 | 88,488 | 0 |
| Natural Resources, Department of | 916,023 | 0 | 916,023 | 0 |
| Transportation, Department of | 5,132,200 | 0 | 5,132,200 | 0 |
| Minnesota | 20,150,907 | 2,027,757 | 18,123,150 | 0 |
| Agriculture, Department of | 6,177,224 | 520,093 | 5,657,131 | 0 |
| Forest Resources Council | 140,000 | 30,000 | 110,000 | 0 |
| Natural Resources, Department of | 1,462,164 | 1,462,164 | 0 | 0 |
| Pollution Control Agency | 100,277 | 0 | 100,277 | 0 |

TABLE 17

State agency expenditures for R&D and R&D plant, by state, department or agency, and R&D performer: FY 2019

(Dollars)

| State and department or agency | R&D performers ^a | | | R&D plant |
|---|-----------------------------|------------|------------|-----------|
| | All | Intramural | Extramural | |
| Transportation, Department of | 12,271,242 | 15,500 | 12,255,742 | 0 |
| Mississippi | 12,170,278 | 1,755,759 | 10,414,519 | 0 |
| Agriculture and Commerce, Department of | 97,454 | 0 | 97,454 | 0 |
| Environmental Quality, Department of | 1,157,390 | 83,910 | 1,073,480 | 0 |
| Gulf States Marine Fisheries Commission | 661,034 | 0 | 661,034 | 0 |
| Marine Resources, Department of | 2,141,085 | 224,205 | 1,916,880 | 0 |
| Transportation, Department of | 5,991,596 | 462,995 | 5,528,601 | 0 |
| Wildlife, Fisheries, and Parks, Department of | 2,121,719 | 984,649 | 1,137,070 | 0 |
| Missouri | 15,055,845 | 8,242,424 | 6,813,421 | 0 |
| Agriculture, Department of | 79,966 | 0 | 79,966 | 0 |
| Conservation, Department of | 11,163,017 | 8,200,487 | 2,962,530 | 0 |
| Health and Senior Services | 28,760 | 28,760 | 0 | 0 |
| Natural Resources, Department of | 792,133 | 13,177 | 778,956 | 0 |
| Technology Corporation | 615,000 | 0 | 615,000 | 0 |
| Transportation, Department of | 1,430,194 | 0 | 1,430,194 | 0 |
| Wine and Grape Board | 946,775 | 0 | 946,775 | 0 |
| Montana | 8,794,140 | 2,993,604 | 5,800,536 | 5,794 |
| Agriculture, Department of | 3,132,570 | 0 | 3,132,570 | 0 |
| Environmental Quality, Department of | 153,592 | 98,756 | 54,836 | 0 |
| Fish, Wildlife and Parks | 3,833,321 | 2,740,906 | 1,092,415 | 0 |
| Natural Resources and Conservation, Department of | 59,620 | 59,620 | 0 | 0 |
| Research and Commercialization, Board of | 794,510 | 0 | 794,510 | 0 |
| Transportation, Department of | 820,527 | 94,322 | 726,205 | 5,794 |
| Nebraska | 28,167,688 | 770,104 | 27,397,584 | 0 |
| Agriculture, Department of | 1,193,067 | 752,988 | 440,079 | 0 |
| Corn Board | 1,107,026 | 0 | 1,107,026 | 0 |
| Dry Bean Commission | 192,000 | 0 | 192,000 | 0 |
| Economic Development, Department of | 1,111,752 | 0 | 1,111,752 | 0 |
| Game and Parks Commission | 2,857,952 | 5,000 | 2,852,952 | 0 |
| Grain Sorghum Board | 15,000 | 0 | 15,000 | 0 |
| Health and Human Services | 18,562,794 | 0 | 18,562,794 | 0 |
| Natural Resources, Department of | 1,346,572 | 12,116 | 1,334,456 | 0 |
| Transportation, Department of | 1,453,039 | 0 | 1,453,039 | 0 |
| Wheat Board | 328,486 | 0 | 328,486 | 0 |
| Nevada | 7,871,899 | 184,774 | 7,687,125 | 0 |
| Agriculture, Department of | 184,774 | 184,774 | 0 | 0 |
| Economic Development, Governor's office of | 6,584,759 | 0 | 6,584,759 | 0 |
| Transportation, Department of | 1,102,366 | 0 | 1,102,366 | 0 |
| New Hampshire | 8,432,696 | 131,672 | 8,301,024 | 0 |
| Agriculture, Markets and Food, Department of | 154,699 | 0 | 154,699 | 0 |
| Business and Economic Affairs | 7,275,000 | 0 | 7,275,000 | 0 |
| Natural & Cultural Resources, Department of | 61,465 | 0 | 61,465 | 0 |
| Transportation, Department of | 941,532 | 131,672 | 809,860 | 0 |
| New Jersey | 23,886,758 | 2,796,233 | 21,090,525 | 0 |
| Community Affairs, Department of | 310,000 | 75,000 | 235,000 | 0 |
| Corrections, Department of | 301,979 | 301,979 | 0 | 0 |
| Environmental Protection, Department of | 2,474,000 | 1,772,000 | 702,000 | 0 |
| Health, Department of | 1,936,431 | 0 | 1,936,431 | 0 |
| Pinelands Commission | 647,254 | 647,254 | 0 | 0 |
| Research Initiatives, Office of | 13,000,000 | 0 | 13,000,000 | 0 |

TABLE 17

State agency expenditures for R&D and R&D plant, by state, department or agency, and R&D performer: FY 2019

(Dollars)

| State and department or agency | R&D performers ^a | | | R&D plant |
|---|-----------------------------|-------------|-------------|-----------|
| | All | Intramural | Extramural | |
| Secretary of Higher Education, Office of | 2,500,000 | 0 | 2,500,000 | 0 |
| Transit, New Jersey | 103,000 | 0 | 103,000 | 0 |
| Transportation, Department of | 2,614,094 | 0 | 2,614,094 | 0 |
| New Mexico | 3,585,944 | 900,212 | 2,685,732 | 0 |
| Cultural Affairs, Department of | 17,000 | 17,000 | 0 | 0 |
| Game and Fish, Department of | 1,000,000 | 500,000 | 500,000 | 0 |
| Transportation, Department of | 1,659,400 | 383,212 | 1,276,188 | 0 |
| Western State Air Resources Council | 909,544 | 0 | 909,544 | 0 |
| New York | 448,501,735 | 276,773,893 | 171,727,842 | 250,000 |
| Agriculture and Markets, Department of | 9,864,543 | 1,965,000 | 7,899,543 | 0 |
| Economic Development, Department of | 39,780,251 | 0 | 39,780,251 | 0 |
| Energy Research and Development Authority | 53,546,621 | 7,889,945 | 45,656,676 | 0 |
| Environmental Conservation, Department of | 8,942,166 | 4,306,743 | 4,635,423 | 0 |
| Health, Department of | 82,781,352 | 34,197,760 | 48,583,592 | 0 |
| Mental Health, Office of | 156,275,133 | 139,961,648 | 16,313,485 | 250,000 |
| People with Developmental Disabilities, Office of | 1,849,940 | 1,849,940 | 0 | 0 |
| Power Authority | 8,707,710 | 3,913,638 | 4,794,072 | 0 |
| Roswell Park Cancer Institute | 71,920,211 | 71,920,211 | 0 | 0 |
| State Museum | 10,022,519 | 9,124,024 | 898,495 | 0 |
| Thoroughbred Breeding and Development Fund Corp. | 388,449 | 0 | 388,449 | 0 |
| Transportation, Department of | 4,422,840 | 1,644,984 | 2,777,856 | 0 |
| North Carolina | 32,754,090 | 18,400,435 | 14,353,655 | 1,000,000 |
| Agriculture and Consumer Services, Department of | 15,422,911 | 13,922,911 | 1,500,000 | 1,000,000 |
| Environmental Quality, Department of | 3,460,387 | 1,158,611 | 2,301,776 | 0 |
| Golden Leaf, The | 65,000 | 0 | 65,000 | 0 |
| Natural and Cultural Resources, Department of | 3,473,399 | 2,605,710 | 867,689 | 0 |
| Science, Technology & Innovation, Board of | 1,201,990 | 0 | 1,201,990 | 0 |
| Transportation, Department of | 9,010,403 | 713,203 | 8,297,200 | 0 |
| Wine and Grape Growers Council | 120,000 | 0 | 120,000 | 0 |
| North Dakota | 12,140,358 | 421,989 | 11,718,369 | 0 |
| Agriculture, Department of | 299,153 | 0 | 299,153 | 0 |
| Dairy Promotion Commission | 155,170 | 0 | 155,170 | 0 |
| Dry Pea and Lentil Commission | 135,023 | 0 | 135,023 | 0 |
| Game and Fish, Department of | 1,375,151 | 0 | 1,375,151 | 0 |
| Industrial Commission | 6,226,265 | 344,482 | 5,881,783 | 0 |
| Soybean Council | 1,573,679 | 0 | 1,573,679 | 0 |
| Transportation, Department of | 1,279,171 | 77,507 | 1,201,664 | 0 |
| Wheat Commission | 1,096,746 | 0 | 1,096,746 | 0 |
| Ohio | 97,758,379 | 18,343,328 | 79,415,051 | 0 |
| Development Services Agency | 85,774,800 | 17,610,002 | 68,164,798 | 0 |
| Education, Department of | 615,000 | 0 | 615,000 | 0 |
| Environmental Protection Agency | 20,174 | 0 | 20,174 | 0 |
| Natural Resources, Department of | 2,940,286 | 733,326 | 2,206,960 | 0 |
| Transportation, Department of | 6,886,442 | 0 | 6,886,442 | 0 |
| Water Development Authority | 1,521,677 | 0 | 1,521,677 | 0 |
| Oklahoma | 29,607,888 | 1,685,458 | 27,922,430 | 109,876 |
| Advancement of Science and Technology, Center for the | 5,753,552 | 0 | 5,753,552 | 109,876 |
| Agriculture, Food, and Forestry, Department of | 634,804 | 0 | 634,804 | 0 |
| Environmental Quality, Department of | 80,399 | 0 | 80,399 | 0 |
| Health, Department of | 608,140 | 608,140 | 0 | 0 |

TABLE 17

State agency expenditures for R&D and R&D plant, by state, department or agency, and R&D performer: FY 2019

(Dollars)

| State and department or agency | R&D performers ^a | | | R&D plant |
|---|-----------------------------|------------|------------|-----------|
| | All | Intramural | Extramural | |
| Human Services, Department of | 134,244 | 134,244 | 0 | 0 |
| Tobacco Settlement Endowment Trust | 12,300,000 | 0 | 12,300,000 | 0 |
| Transportation, Department of | 6,511,466 | 943,074 | 5,568,392 | 0 |
| Wildlife Conservation, Department of | 3,585,283 | 0 | 3,585,283 | 0 |
| Oregon | 44,222,659 | 24,761,784 | 19,460,875 | 2,000,000 |
| Agriculture, Department of | 388,762 | 0 | 388,762 | 0 |
| Business Oregon | 14,800,000 | 0 | 14,800,000 | 2,000,000 |
| Education, Department of | 657,595 | 657,595 | 0 | 0 |
| Environmental Quality, Department of | 458,000 | 41,000 | 417,000 | 0 |
| Fish and Wildlife, Department of | 14,235,414 | 12,974,798 | 1,260,616 | 0 |
| Forestry, Department of | 522,777 | 383,592 | 139,185 | 0 |
| Geology and Mineral Industries, Department of | 814,431 | 814,431 | 0 | 0 |
| Human Services, Department of | 5,535,728 | 5,535,728 | 0 | 0 |
| Transportation, Department of | 5,090,034 | 3,901,901 | 1,188,133 | 0 |
| Water Resources Department | 810,484 | 435,331 | 375,153 | 0 |
| Watershed Enhancement Board | 909,434 | 17,408 | 892,026 | 0 |
| Pennsylvania | 85,050,999 | 8,579,205 | 76,471,794 | 10,000 |
| Agriculture, Department of | 2,187,000 | 0 | 2,187,000 | 0 |
| Community and Economic Development, Department of | 21,600,000 | 0 | 21,600,000 | 0 |
| Conservation and Natural Resources, Department of | 42,124 | 42,124 | 0 | 0 |
| Environmental Protection, Department of | 1,445,473 | 50,000 | 1,395,473 | 10,000 |
| Fish and Boat Commission | 131,845 | 93,639 | 38,206 | 0 |
| Game Commission | 9,287,658 | 7,796,543 | 1,491,115 | 0 |
| Health, Department of | 46,293,000 | 0 | 46,293,000 | 0 |
| Susquehanna River Basin Commission | 150,000 | 130,000 | 20,000 | 0 |
| Transportation, Department of | 3,913,899 | 466,899 | 3,447,000 | 0 |
| Rhode Island | 5,512,380 | 2,767,111 | 2,745,269 | 0 |
| Commerce Corporation | 1,203,652 | 0 | 1,203,652 | 0 |
| Environmental Management, Department of | 3,028,728 | 2,667,111 | 361,617 | 0 |
| Transportation, Department of | 1,225,000 | 100,000 | 1,125,000 | 0 |
| Water Resources Board | 55,000 | 0 | 55,000 | 0 |
| South Carolina | 46,983,243 | 28,876,294 | 18,106,949 | 430,650 |
| Agriculture, Department of | 1,035,394 | 0 | 1,035,394 | 0 |
| Disabilities and Special Needs, Department of | 12,226,376 | 0 | 12,226,376 | 430,650 |
| Health and Environmental Control, Department of | 1,585,652 | 1,331,451 | 254,201 | 0 |
| Mental Health, Department of | 100,884 | 0 | 100,884 | 0 |
| Natural Resources, Department of | 26,062,760 | 25,807,753 | 255,007 | 0 |
| Public Service Authority | 30,000 | 0 | 30,000 | 0 |
| Research Authority | 1,401,205 | 0 | 1,401,205 | 0 |
| Sea Grant Consortium | 2,381,593 | 1,687,833 | 693,760 | 0 |
| Transportation, Department of | 2,159,379 | 49,257 | 2,110,122 | 0 |
| South Dakota | 2,953,214 | 361,072 | 2,592,142 | 115,000 |
| Corn Utilization Council | 250,000 | 0 | 250,000 | 0 |
| Oilseeds Council | 216,845 | 0 | 216,845 | 0 |
| Pulse Crop Council | 13,352 | 0 | 13,352 | 0 |
| Science and Technology Authority | 39,853 | 0 | 39,853 | 0 |
| Soybean Research and Promotion Council | 718,122 | 12,965 | 705,157 | 0 |
| Transportation, Department of | 1,222,798 | 348,107 | 874,691 | 0 |
| Weed and Pest Control Commission | 45,314 | 0 | 45,314 | 0 |
| Wheat Commission | 446,930 | 0 | 446,930 | 115,000 |

TABLE 17

State agency expenditures for R&D and R&D plant, by state, department or agency, and R&D performer: FY 2019

(Dollars)

| State and department or agency | R&D performers ^a | | | R&D plant |
|--|-----------------------------|------------|-------------|-----------|
| | All | Intramural | Extramural | |
| Tennessee | 7,439,395 | 1,710,689 | 5,728,706 | 0 |
| Education, Department of | 3,319,120 | 1,168,921 | 2,150,199 | 0 |
| Environment and Conservation, Department of | 843,184 | 372,341 | 470,843 | 0 |
| Geological Survey | 169,427 | 169,427 | 0 | 0 |
| Transportation, Department of | 3,107,664 | 0 | 3,107,664 | 0 |
| Texas | 233,030,466 | 3,855,855 | 229,174,611 | 25 |
| Agriculture, Department of | 1,229,300 | 0 | 1,229,300 | 0 |
| Alzheimer's Research and Care Consortium (TARCC) | 3,204,342 | 0 | 3,204,342 | 0 |
| Cancer Prevention and Research Institute | 201,159,271 | 0 | 201,159,271 | 0 |
| Environmental Quality, Commission on | 1,687,165 | 96,160 | 1,591,005 | 0 |
| Parks and Wildlife Department | 7,378,821 | 3,534,695 | 3,844,126 | 0 |
| State Health Services, Department of | 345,000 | 225,000 | 120,000 | 25 |
| Transportation, Department of | 17,294,677 | 0 | 17,294,677 | 0 |
| Water Development Board | 731,890 | 0 | 731,890 | 0 |
| Utah | 7,985,508 | 5,046,202 | 2,939,306 | 1,000 |
| Environmental Quality, Department of | 416,398 | 19,514 | 396,884 | 0 |
| Health, Department of | 12,780 | 12,780 | 0 | 0 |
| Natural Resources, Department of | 4,121,261 | 4,121,261 | 0 | 0 |
| Transportation, Department of | 3,435,069 | 892,647 | 2,542,422 | 1,000 |
| Vermont | 2,730,591 | 681,380 | 2,049,211 | 47,661 |
| Agriculture, Food, and Markets, Agency of | 308,227 | 0 | 308,227 | 0 |
| Human Services, Agency of | 210,747 | 210,747 | 0 | 0 |
| Transportation, Agency of | 2,211,617 | 470,633 | 1,740,984 | 47,661 |
| Virginia | 29,951,353 | 10,733,680 | 19,217,673 | 301,107 |
| Aging and Rehabilitation, Department of | 134,914 | 52,951 | 81,963 | 0 |
| Agriculture and Consumer Services, Department of | 2,615,452 | 0 | 2,615,452 | 0 |
| Commonwealth Health Research Board | 1,080,163 | 0 | 1,080,163 | 0 |
| Environmental Quality, Department of | 287,560 | 21,842 | 265,718 | 0 |
| Forensic Science, Department of | 854,800 | 854,800 | 0 | 0 |
| Forestry, Department of | 467,501 | 437,362 | 30,139 | 0 |
| Foundation for Healthy Youth | 858,392 | 0 | 858,392 | 0 |
| Game and Inland Fisheries, Department of | 2,296,869 | 0 | 2,296,869 | 0 |
| Innovative Technology, Center for | 4,416,750 | 634,826 | 3,781,924 | 0 |
| Marine Resources Commission | 2,471,043 | 0 | 2,471,043 | 0 |
| Mines, Minerals and Energy, Department of | 655,308 | 617,808 | 37,500 | 0 |
| Natural History, Museum of | 872,668 | 872,668 | 0 | 0 |
| Social Services, Department of | 150,000 | 0 | 150,000 | 0 |
| Transportation, Department of | 12,789,933 | 7,241,423 | 5,548,510 | 301,107 |
| Washington | 51,963,060 | 19,986,935 | 31,976,125 | 1,400,174 |
| Agriculture, Department of | 2,767,808 | 0 | 2,767,808 | 0 |
| Alfalfa Seed Commission | 34,000 | 0 | 34,000 | 0 |
| Asparagus Commission | 74,166 | 0 | 74,166 | 0 |
| Blueberry Commission | 252,000 | 0 | 252,000 | 0 |
| Commerce, Department of | 5,826,443 | 0 | 5,826,443 | 124,874 |
| Cranberry Commission | 6,000 | 0 | 6,000 | 0 |
| Dairy Products Commission | 15,000 | 0 | 15,000 | 0 |
| Ecology, Department of | 882,120 | 612,918 | 269,202 | 0 |
| Fish and Wildlife, Department of | 8,390,579 | 8,375,177 | 15,402 | 0 |
| Fruit Commission | 306,223 | 0 | 306,223 | 0 |
| Grain Commission | 2,224,046 | 0 | 2,224,046 | 0 |

TABLE 17

State agency expenditures for R&D and R&D plant, by state, department or agency, and R&D performer: FY 2019

(Dollars)

| State and department or agency | R&D performers ^a | | | R&D plant |
|---|-----------------------------|------------|------------|-----------|
| | All | Intramural | Extramural | |
| Health, Department of | 1,108,855 | 1,053,412 | 55,443 | 0 |
| Hop Commission | 168,357 | 0 | 168,357 | 0 |
| Labor and Industries, Department of | 3,344,321 | 3,344,321 | 0 | 0 |
| Mint Commission | 50,382 | 0 | 50,382 | 0 |
| Natural Resources, Department of | 8,307,815 | 3,584,826 | 4,722,989 | 0 |
| Oilseeds Commission | 10,000 | 0 | 10,000 | 0 |
| Pesticide Registration, Commission on | 455,000 | 0 | 455,000 | 0 |
| Potato Commission | 953,022 | 0 | 953,022 | 0 |
| Puget Sound Partnership | 630,045 | 0 | 630,045 | 0 |
| Pulse Crop Commission | 187,098 | 0 | 187,098 | 0 |
| Red Raspberry Commission | 349,396 | 0 | 349,396 | 0 |
| Seed Potato Commission | 16,003 | 0 | 16,003 | 0 |
| Transportation, Department of | 5,596,000 | 1,410,000 | 4,186,000 | 0 |
| Tree Fruit Research Commission | 9,668,382 | 1,606,281 | 8,062,101 | 0 |
| Turfgrass Seed Commission | 100,815 | 0 | 100,815 | 0 |
| Wine Commission | 239,184 | 0 | 239,184 | 1,275,300 |
| West Virginia | 11,068,061 | 2,867,846 | 8,200,215 | 0 |
| Geological and Economic Survey | 1,713,935 | 1,316,725 | 397,210 | 0 |
| Higher Education Policy Commission | 5,571,715 | 153,833 | 5,417,882 | 0 |
| Justice and Community Services, Division of | 8,000 | 8,000 | 0 | 0 |
| Natural Resources, Department of | 1,649,700 | 1,284,700 | 365,000 | 0 |
| Transportation, Department of | 2,124,711 | 104,588 | 2,020,123 | 0 |
| Wisconsin | 17,473,890 | 5,043,609 | 12,430,281 | 0 |
| Agriculture, Trade and Consumer Protection, Department of | 2,768,097 | 0 | 2,768,097 | 0 |
| Economic Development Corporation | 4,750,000 | 0 | 4,750,000 | 0 |
| Natural Resources, Department of | 6,201,148 | 4,781,539 | 1,419,609 | 0 |
| Transportation, Department of | 3,754,645 | 262,070 | 3,492,575 | 0 |
| Wyoming | 6,002,910 | 1,286,491 | 4,716,419 | 0 |
| Agriculture, Department of | 380,882 | 0 | 380,882 | 0 |
| Business Council | 2,466,307 | 0 | 2,466,307 | 0 |
| Enterprise Technology Services | 41,420 | 41,420 | 0 | 0 |
| Game and Fish Department | 1,110,856 | 977,107 | 133,749 | 0 |
| State Engineer, Office of | 250,000 | 0 | 250,000 | 0 |
| State Geological Survey | 183,963 | 183,963 | 0 | 0 |
| Transportation, Department of | 1,218,971 | 84,001 | 1,134,970 | 0 |
| Water Development Office | 350,511 | 0 | 350,511 | 0 |

^a Intramural performers include a department's or agency's own employees who perform R&D and services performed by others in support of an internal R&D project. Extramural performers are those outside the department or agency who perform R&D.

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

Source(s):

National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FY 2019.