



Survey of State Government Research and Development: FYs 2014 and 2015

Detailed Statistical Tables | NSF 17-308 | January 2017 (Revised March 2017)

Errata: In Table 1, the unit of measure is “Dollars,” not “Thousands of dollars.” The table has been corrected.

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General Notes

These tables present the results of the FYs 2014–15 Survey of State Government Research and Development, conducted by the U.S. Census Bureau for the National Center for Science and Engineering Statistics (NCSES) within the National Science Foundation (NSF). The Census Bureau employed a methodology similar to that used to collect data from state and local governments on other censuses and surveys.

The survey was distributed to departments, agencies, commissions, public authorities, and other state-run entities within the 50 states, as well as the District of Columbia and Puerto Rico (state equivalents), which were considered likely to conduct or fund R&D activities. Respondents that did not have qualifying R&D activity were not required to complete the questionnaire beyond a screening question. All 50 states, the District of Columbia, and Puerto Rico participated in the survey. The survey was distributed to 643 agencies across all 52 state or state equivalents, 618 of which responded.¹ Of the 618 agencies that responded, 375 reported conducting or funding R&D in FY 2014 or FY 2015. Respondents were requested to provide statistics on their total R&D expenditures and amounts for intramural and extramural performers; the amount of intramural R&D devoted to basic research, applied research, and experimental development activities by federal and nonfederal funds; the amount for which the federal government was an original source of funds for both intramural and extramural R&D and from which federal agency the funding came; and the amount of money allocated to particular government functions. An additional question was asked about the amount of expenditures for the construction and acquisition of R&D facilities and major equipment.

Note

1. The District of Columbia and Puerto Rico are referred to as states and treated as state equivalents throughout this report.

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TABLE 1. State government expenditures for R&D and R&D plant, by state: FYs 2014–15
(Dollars)

| State | State R&D expenditures ^a | | State R&D plant expenditures ^b | |
|----------------------------|-------------------------------------|---------------|-------------------------------------------|------------|
| | 2014 | 2015 | 2014 | 2015 |
| United States ^c | 1,885,923,321 | 2,205,146,613 | 20,662,777 | 34,895,729 |
| Alabama | 18,532,534 | 24,486,963 | 0 | 0 |
| Alaska | 12,031,675 | 11,258,203 | 0 | 0 |
| Arizona | 18,820,149 | 14,942,124 | 0 | 0 |
| Arkansas | 14,994,903 | 16,642,711 | 0 | 0 |
| California | 321,958,885 | 500,071,595 | 35,228 | 0 |
| Colorado | 15,745,589 | 16,321,056 | 353,950 | 0 |
| Connecticut | 47,405,244 | 55,816,528 | 0 | 0 |
| Delaware | 2,243,868 | 2,199,635 | 100,000 | 30,000 |
| District of Columbia | 3,136,271 | 3,216,073 | 0 | 0 |
| Florida | 157,004,903 | 191,598,669 | 1,611,960 | 1,626,826 |
| Georgia | 11,776,221 | 10,052,848 | 0 | 571,455 |
| Hawaii | 13,125,455 | 11,520,961 | 0 | 22,099 |
| Idaho | 12,862,935 | 12,935,976 | 0 | 0 |
| Illinois | 24,988,306 | 30,817,406 | 0 | 0 |
| Indiana | 23,590,723 | 9,987,058 | 0 | 0 |
| Iowa | 10,357,010 | 11,277,534 | 205,027 | 102,150 |
| Kansas | 5,326,455 | 5,469,052 | 0 | 0 |
| Kentucky | 16,756,867 | 17,256,496 | 0 | 0 |
| Louisiana | 18,778,159 | 32,175,199 | 0 | 8,921,635 |
| Maine | 6,857,948 | 12,609,815 | 0 | 3,000 |
| Maryland | 29,981,260 | 24,852,978 | 0 | 0 |
| Massachusetts | 18,259,928 | 22,664,539 | 600,001 | 2,275,001 |
| Michigan | 12,252,555 | 12,675,635 | 0 | 0 |
| Minnesota | 19,378,825 | 21,455,746 | 280,771 | 854,675 |
| Mississippi | 1,313,376 | 780,616 | 47,000 | 224,750 |
| Missouri | 8,436,666 | 9,806,222 | 0 | 0 |
| Montana | 10,428,010 | 10,362,726 | 0 | 0 |
| Nebraska | 6,621,771 | 5,475,420 | 0 | 0 |
| Nevada | 3,438,157 | 3,107,166 | 0 | 0 |
| New Hampshire | 1,448,090 | 1,607,080 | 0 | 0 |
| New Jersey | 30,384,821 | 33,756,028 | 0 | 0 |
| New Mexico | 49,805,916 | 52,302,976 | 0 | 103,253 |
| New York | 371,224,749 | 365,551,926 | 13,100,000 | 8,000,000 |
| North Carolina | 22,114,350 | 34,002,384 | 100,000 | 100,000 |
| North Dakota | 10,784,572 | 9,611,936 | 0 | 0 |
| Ohio | 94,882,275 | 94,299,294 | 0 | 0 |
| Oklahoma | 30,473,702 | 29,952,934 | 1 | 321,785 |
| Oregon | 29,679,288 | 31,990,073 | 1,400,000 | 1,400,000 |
| Pennsylvania | 35,432,244 | 75,024,127 | 0 | 6,725,842 |
| Rhode Island | 3,225,472 | 2,594,978 | 0 | 0 |
| South Carolina | 22,311,739 | 27,419,285 | 0 | 0 |
| South Dakota | 5,067,005 | 4,211,838 | 0 | 0 |
| Tennessee | 4,363,565 | 3,828,567 | 0 | 0 |
| Texas | 162,287,552 | 185,094,332 | 0 | 0 |
| Utah | 36,466,790 | 38,168,197 | 1,998,196 | 1,901,000 |
| Vermont | 2,039,520 | 2,199,082 | 89,600 | 107,058 |
| Virginia | 38,456,410 | 43,615,877 | 741,043 | 1,605,200 |
| Washington | 38,277,525 | 36,918,558 | 0 | 0 |
| West Virginia | 9,705,200 | 11,481,903 | 0 | 0 |

TABLE 1. State government expenditures for R&D and R&D plant, by state: FYs 2014–15
(Dollars)

| State | State R&D expenditures ^a | | State R&D plant expenditures ^b | |
|--------------------------|-------------------------------------|------------|-------------------------------------------|------|
| | 2014 | 2015 | 2014 | 2015 |
| Wisconsin | 14,643,835 | 14,517,671 | 0 | 0 |
| Wyoming | 6,444,053 | 5,160,617 | 0 | 0 |
| Puerto Rico ^d | 6,569,500 | 5,673,544 | 0 | 0 |

^a State R&D expenditures do not include R&D plant.

^b State R&D plant expenditures include acquisition of land, facilities, major equipment, and major building renovations intended primarily for R&D use.

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

^d Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FYs 2014 and 2015.

TABLE 2. State government expenditures for R&D and R&D plant, by state and performer: FYs 2014–15

(Dollars)

| State | All R&D expenditures ^a | | Intramural performers ^b | | Extramural performers ^c | | | | | | | | R&D plant | |
|----------------------------|-----------------------------------|---------------|------------------------------------|-------------|------------------------------------|---------------|-----------------------|-------------|----------------------------------------|-------------|--------------------|-------------|------------|------------|
| | | | | | Total | | Academic institutions | | Companies and individuals ^d | | Other ^e | | | |
| | 2014 | 2015 | 2014 | 2015 | 2014 | 2015 | 2014 | 2015 | 2014 | 2015 | 2014 | 2015 | 2014 | 2015 |
| United States ^f | 1,885,923,321 | 2,205,146,613 | 577,638,324 | 581,667,140 | 1,308,284,997 | 1,623,479,473 | 820,590,986 | 951,095,709 | 284,413,853 | 449,158,167 | 203,280,158 | 223,225,597 | 20,662,777 | 34,895,729 |
| Alabama | 18,532,534 | 24,486,963 | 4,589,652 | 6,167,637 | 13,942,882 | 18,319,326 | 8,273,271 | 14,702,754 | 0 | 0 | 5,669,611 | 3,616,572 | 0 | 0 |
| Alaska | 12,031,675 | 11,258,203 | 9,399,991 | 9,464,543 | 2,631,684 | 1,793,660 | 1,125,000 | 567,720 | 453,001 | 435,000 | 1,053,683 | 790,940 | 0 | 0 |
| Arizona | 18,820,149 | 14,942,124 | 8,953,596 | 8,268,168 | 9,866,553 | 6,673,956 | 3,830,463 | 2,377,380 | 5,982,788 | 4,211,395 | 53,302 | 85,181 | 0 | 0 |
| Arkansas | 14,994,903 | 16,642,711 | 708,544 | 660,969 | 14,286,359 | 15,981,742 | 13,947,662 | 15,281,405 | 338,697 | 700,337 | 0 | 0 | 0 | 0 |
| California | 321,958,885 | 500,071,595 | 53,984,295 | 55,223,244 | 267,974,590 | 444,848,351 | 165,066,530 | 207,483,829 | 48,781,646 | 170,379,215 | 54,126,414 | 66,985,307 | 35,228 | 0 |
| Colorado | 15,745,589 | 16,321,056 | 8,178,672 | 8,467,517 | 7,566,917 | 7,853,539 | 4,096,592 | 3,780,835 | 2,322,790 | 3,144,565 | 1,147,535 | 928,139 | 353,950 | 0 |
| Connecticut | 47,405,244 | 55,816,528 | 20,533,902 | 21,885,609 | 26,871,342 | 33,930,919 | 11,785,548 | 19,905,962 | 14,636,079 | 13,809,727 | 449,715 | 215,230 | 0 | 0 |
| Delaware | 2,243,868 | 2,199,635 | 1,888,698 | 1,709,791 | 355,170 | 489,844 | 302,272 | 419,629 | 52,898 | 70,215 | 0 | 0 | 100,000 | 30,000 |
| District of Columbia | 3,136,271 | 3,216,073 | 1,444,007 | 1,541,038 | 1,692,264 | 1,675,035 | 1,401,130 | 1,125,035 | 151,134 | 400,000 | 140,000 | 150,000 | 0 | 0 |
| Florida | 157,004,903 | 191,598,669 | 44,017,593 | 45,015,557 | 112,987,310 | 146,583,112 | 62,814,335 | 86,084,927 | 10,545,928 | 15,800,070 | 39,627,047 | 44,698,115 | 1,611,960 | 1,626,826 |
| Georgia | 11,776,221 | 10,052,848 | 1,766,014 | 1,709,229 | 10,010,207 | 8,343,619 | 8,701,675 | 6,419,803 | 872,204 | 1,600,096 | 436,328 | 323,720 | 0 | 571,455 |
| Hawaii | 13,125,455 | 11,520,961 | 1,038,877 | 1,659,573 | 12,086,578 | 9,861,388 | 6,319,142 | 6,609,154 | 5,767,436 | 3,252,234 | 0 | 0 | 0 | 22,099 |
| Idaho | 12,862,935 | 12,935,976 | 6,783,779 | 6,469,463 | 6,079,156 | 6,466,513 | 3,847,393 | 4,116,233 | 649,172 | 952,905 | 1,582,591 | 1,397,375 | 0 | 0 |
| Illinois | 24,988,306 | 30,817,406 | 1,678,403 | 1,550,890 | 23,309,903 | 29,266,516 | 17,841,437 | 16,711,913 | 1,453,821 | 7,639,281 | 4,014,645 | 4,915,322 | 0 | 0 |
| Indiana | 23,590,723 | 9,987,058 | 675,629 | 657,583 | 22,915,094 | 9,329,475 | 12,223,787 | 8,853,091 | 657,307 | 362,384 | 10,034,000 | 114,000 | 0 | 0 |
| Iowa | 10,357,010 | 11,277,534 | 3,884,026 | 3,696,335 | 6,472,984 | 7,581,199 | 5,470,629 | 5,998,277 | 1,002,355 | 1,582,922 | 0 | 0 | 205,027 | 102,150 |
| Kansas | 5,326,455 | 5,469,052 | 1,427,786 | 1,333,800 | 3,898,669 | 4,135,252 | 2,332,669 | 2,684,331 | 0 | 0 | 1,566,000 | 1,450,921 | 0 | 0 |
| Kentucky | 16,756,867 | 17,256,496 | 2,654,669 | 2,734,444 | 14,102,198 | 14,522,052 | 8,219,698 | 8,562,064 | 5,632,500 | 5,645,489 | 250,000 | 314,499 | 0 | 0 |
| Louisiana | 18,778,159 | 32,175,199 | 8,785,247 | 9,325,390 | 9,992,912 | 22,849,809 | 5,027,333 | 5,959,446 | 2,715,114 | 16,888,592 | 2,250,465 | 1,771 | 0 | 8,921,635 |
| Maine | 6,857,948 | 12,609,815 | 2,048,918 | 2,911,504 | 4,809,030 | 9,698,311 | 784,030 | 813,605 | 4,025,000 | 8,794,706 | 0 | 90,000 | 0 | 3,000 |
| Maryland | 29,981,260 | 24,852,978 | 906,472 | 846,300 | 29,074,788 | 24,006,678 | 26,974,788 | 21,485,428 | 2,100,000 | 2,521,250 | 0 | 0 | 0 | 0 |
| Massachusetts | 18,259,928 | 22,664,539 | 10,934,792 | 11,254,392 | 7,325,136 | 11,410,147 | 3,534,499 | 4,242,654 | 2,506,948 | 4,631,651 | 1,283,689 | 2,535,842 | 600,001 | 2,275,001 |
| Michigan | 12,252,555 | 12,675,635 | 626,768 | 702,187 | 11,625,787 | 11,973,448 | 8,417,862 | 8,317,762 | 1,575,448 | 1,723,881 | 1,632,477 | 1,931,805 | 0 | 0 |
| Minnesota | 19,378,825 | 21,455,746 | 2,284,757 | 2,828,032 | 17,094,068 | 18,627,714 | 11,362,598 | 11,697,612 | 3,211,644 | 4,098,788 | 2,519,826 | 2,831,314 | 280,771 | 854,675 |
| Mississippi | 1,313,376 | 780,616 | 510,446 | 252,513 | 802,930 | 528,103 | 425,294 | 208,225 | 377,636 | 319,878 | 0 | 0 | 47,000 | 224,750 |
| Missouri | 8,436,666 | 9,806,222 | 1,005,924 | 1,150,753 | 7,430,742 | 8,655,469 | 4,583,533 | 5,732,902 | 204,729 | 738,668 | 2,642,480 | 2,183,899 | 0 | 0 |
| Montana | 10,428,010 | 10,362,726 | 2,238,501 | 2,273,458 | 8,189,509 | 8,089,268 | 7,015,284 | 6,307,875 | 313,350 | 973,685 | 860,875 | 807,708 | 0 | 0 |
| Nebraska | 6,621,771 | 5,475,420 | 769,135 | 534,852 | 5,852,636 | 4,940,568 | 2,409,361 | 3,044,994 | 3,443,275 | 1,895,574 | 0 | 0 | 0 | 0 |
| Nevada | 3,438,157 | 3,107,166 | 9,927 | 3,893 | 3,428,230 | 3,103,273 | 1,899,860 | 1,587,007 | 1,528,370 | 1,516,266 | 0 | 0 | 0 | 0 |
| New Hampshire | 1,448,090 | 1,607,080 | 84,253 | 82,781 | 1,363,837 | 1,524,299 | 633,272 | 827,604 | 0 | 24,750 | 730,565 | 671,945 | 0 | 0 |
| New Jersey | 30,384,821 | 33,756,028 | 1,814,000 | 1,864,000 | 28,570,821 | 31,892,028 | 24,101,713 | 24,429,466 | 535,722 | 587,522 | 3,933,386 | 6,875,040 | 0 | 0 |
| New Mexico | 49,805,916 | 52,302,976 | 2,462,904 | 2,539,877 | 47,343,012 | 49,763,099 | 47,069,012 | 49,531,444 | 274,000 | 231,655 | 0 | 0 | 0 | 103,253 |
| New York | 371,224,749 | 365,551,926 | 258,603,078 | 241,920,626 | 112,621,671 | 123,631,300 | 74,397,178 | 79,267,606 | 22,634,357 | 26,989,804 | 15,590,136 | 17,373,890 | 13,100,000 | 8,000,000 |
| North Carolina | 22,114,350 | 34,002,384 | 14,136,872 | 14,429,283 | 7,977,478 | 19,573,101 | 6,247,478 | 15,435,572 | 100,000 | 2,507,529 | 1,630,000 | 1,630,000 | 100,000 | 100,000 |
| North Dakota | 10,784,572 | 9,611,936 | 1,373,563 | 1,189,828 | 9,411,009 | 8,422,108 | 7,179,950 | 6,268,868 | 1,006,186 | 1,209,207 | 1,224,873 | 944,033 | 0 | 0 |
| Ohio | 94,882,275 | 94,299,294 | 965,440 | 864,161 | 93,916,835 | 93,435,133 | 8,098,828 | 7,714,186 | 85,427,147 | 85,415,055 | 390,860 | 305,892 | 0 | 0 |
| Oklahoma | 30,473,702 | 29,952,934 | 370,925 | 350,570 | 30,102,777 | 29,602,364 | 22,753,928 | 22,135,660 | 4,450,114 | 4,303,009 | 2,898,735 | 3,163,695 | 1 | 321,785 |
| Oregon | 29,679,288 | 31,990,073 | 15,547,309 | 18,022,139 | 14,131,979 | 13,967,934 | 5,696,628 | 6,129,513 | 428,686 | 363,341 | 8,006,665 | 7,475,080 | 1,400,000 | 1,400,000 |
| Pennsylvania | 35,432,244 | 75,024,127 | 7,012,137 | 7,387,261 | 28,420,107 | 67,636,866 | 5,189,177 | 33,621,211 | 6,322,440 | 5,056,554 | 16,908,490 | 28,959,101 | 0 | 6,725,842 |

TABLE 2. State government expenditures for R&D and R&D plant, by state and performer: FYs 2014–15

(Dollars)

| State | All R&D expenditures ^a | | Intramural performers ^b | | Extramural performers ^c | | | | | | | | R&D plant | |
|--------------------------|-----------------------------------|-------------|------------------------------------|------------|------------------------------------|-------------|-----------------------|-------------|----------------------------------------|------------|--------------------|-----------|-----------|-----------|
| | | | | | Total | | Academic institutions | | Companies and individuals ^d | | Other ^e | | | |
| | 2014 | 2015 | 2014 | 2015 | 2014 | 2015 | 2014 | 2015 | 2014 | 2015 | 2014 | 2015 | 2014 | 2015 |
| Rhode Island | 3,225,472 | 2,594,978 | 389,829 | 281,200 | 2,835,643 | 2,313,778 | 1,645,807 | 1,223,081 | 1,134,836 | 1,035,697 | 55,000 | 55,000 | 0 | 0 |
| South Carolina | 22,311,739 | 27,419,285 | 17,374,915 | 22,351,601 | 4,936,824 | 5,067,684 | 3,185,262 | 3,245,102 | 678,793 | 337,270 | 1,072,769 | 1,485,312 | 0 | 0 |
| South Dakota | 5,067,005 | 4,211,838 | 220,000 | 240,000 | 4,847,005 | 3,971,838 | 3,053,277 | 2,632,748 | 1,298,728 | 868,290 | 495,000 | 470,800 | 0 | 0 |
| Tennessee | 4,363,565 | 3,828,567 | 563,092 | 531,871 | 3,800,473 | 3,296,696 | 3,800,473 | 3,296,696 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | 162,287,552 | 185,094,332 | 2,673,588 | 2,745,383 | 159,613,964 | 182,348,949 | 122,518,992 | 140,159,224 | 28,725,454 | 35,264,378 | 8,369,518 | 6,925,347 | 0 | 0 |
| Utah | 36,466,790 | 38,168,197 | 17,924,476 | 18,192,260 | 18,542,314 | 19,975,937 | 17,866,618 | 18,099,360 | 567,409 | 1,764,575 | 108,287 | 112,002 | 1,998,196 | 1,901,000 |
| Vermont | 2,039,520 | 2,199,082 | 534,520 | 555,772 | 1,505,000 | 1,643,310 | 882,835 | 763,353 | 534,515 | 879,957 | 87,650 | 0 | 89,600 | 107,058 |
| Virginia | 38,456,410 | 43,615,877 | 10,129,948 | 14,190,632 | 28,326,462 | 29,425,245 | 21,302,482 | 21,506,372 | 1,839,928 | 2,301,680 | 5,184,052 | 5,617,193 | 741,043 | 1,605,200 |
| Washington | 38,277,525 | 36,918,558 | 9,824,415 | 10,470,091 | 28,453,110 | 26,448,467 | 25,749,496 | 23,594,015 | 856,389 | 642,182 | 1,847,225 | 2,212,270 | 0 | 0 |
| West Virginia | 9,705,200 | 11,481,903 | 3,787,754 | 4,728,205 | 5,917,446 | 6,753,698 | 4,585,961 | 5,793,626 | 605,696 | 297,103 | 725,789 | 662,969 | 0 | 0 |
| Wisconsin | 14,643,835 | 14,517,671 | 6,279,098 | 6,547,800 | 8,364,737 | 7,969,871 | 3,058,544 | 3,139,217 | 3,461,476 | 3,147,519 | 1,844,717 | 1,683,135 | 0 | 0 |
| Wyoming | 6,444,053 | 5,160,617 | 1,837,188 | 1,883,135 | 4,606,865 | 3,277,482 | 1,540,400 | 1,199,933 | 2,230,707 | 1,842,316 | 835,758 | 235,233 | 0 | 0 |
| Puerto Rico ^g | 6,569,500 | 5,673,544 | 5,193,888 | 4,454,166 | 1,375,612 | 1,219,378 | 844,987 | 750,000 | 530,625 | 469,378 | 0 | 0 | 0 | 0 |

^a State R&D expenditures do not include R&D plant.

^b 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.

^c 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.

^d Companies and individuals include individuals under contract for research projects.

^e Other includes federal government; nonprofit organizations; city, county, regional, or other local governments; and other state governments.

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

^g Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FYs 2014 and 2015.

TABLE 3. State government expenditures for R&D, by state: FYs 2006–15

(Dollars)

| State | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|----------------------------|---------------|---------------|------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| United States ^a | 1,059,104,585 | 1,161,477,543 | NA | 1,636,483,243 | 1,779,297,891 | 2,014,838,324 | 2,067,460,292 | 2,052,219,263 | 1,885,923,321 | 2,205,146,613 |
| Alabama | 7,269,319 | 9,065,725 | NA | 12,929,167 | 15,113,917 | 19,684,063 | 17,352,984 | 13,292,741 | 18,532,534 | 24,486,963 |
| Alaska | 10,019,060 | 9,526,100 | NA | 7,741,467 | 9,274,800 | 11,349,400 | 5,467,944 | 6,689,384 | 12,031,675 | 11,258,203 |
| Arizona | 37,151,471 | 20,442,635 | NA | 9,363,943 | 17,682,315 | 18,626,577 | 22,809,895 | 27,810,970 | 18,820,149 | 14,942,124 |
| Arkansas | 4,869,648 | 7,658,199 | NA | 11,465,214 | 14,446,084 | 14,705,327 | 15,518,374 | 16,518,947 | 14,994,903 | 16,642,711 |
| California | 145,880,736 | 120,641,324 | NA | 299,929,949 | 328,982,383 | 407,616,001 | 401,522,758 | 346,942,036 | 321,958,885 | 500,071,595 |
| Colorado | 8,997,236 | 11,924,981 | NA | 14,849,581 | 20,828,274 | 18,141,931 | 14,928,809 | 14,471,683 | 15,745,589 | 16,321,056 |
| Connecticut | 19,209,064 | 29,285,710 | NA | 28,559,052 | 40,065,786 | 39,192,091 | 40,017,523 | 41,023,368 | 47,405,244 | 55,816,528 |
| Delaware | 2,812,102 | 2,611,108 | NA | 1,683,562 | 2,389,720 | 2,609,902 | 4,635,720 | 4,729,141 | 2,243,868 | 2,199,635 |
| District of Columbia | 1,173,076 | 2,009,000 | NA | 487,411 | 696,198 | 1,221,108 | 2,018,447 | 1,848,800 | 3,136,271 | 3,216,073 |
| Florida | 42,329,624 | 51,968,573 | NA | 66,513,756 | 120,848,726 | 150,764,438 | 136,706,540 | 118,781,266 | 157,004,903 | 191,598,669 |
| Georgia | 10,620,188 | 4,886,946 | NA | 6,662,887 | 8,923,795 | 11,690,663 | 12,820,412 | 12,697,846 | 11,776,221 | 10,052,848 |
| Hawaii | 12,067,849 | 22,643,330 | NA | 13,976,364 | 14,233,186 | 13,103,983 | 11,145,520 | 13,094,794 | 13,125,455 | 11,520,961 |
| Idaho | 2,280,873 | 2,739,006 | NA | 8,552,058 | 9,059,568 | 9,366,052 | 11,785,529 | 12,929,174 | 12,862,935 | 12,935,976 |
| Illinois | 37,184,281 | 28,372,676 | NA | 9,570,893 | 16,553,689 | 17,207,125 | 17,859,438 | 17,999,229 | 24,988,306 | 30,817,406 |
| Indiana | 6,220,575 | 40,534,381 | NA | 47,549,928 | 8,444,832 | 6,983,364 | 7,667,988 | 10,167,120 | 23,590,723 | 9,987,058 |
| Iowa | 13,564,062 | 6,790,053 | NA | 37,976,643 | 12,950,176 | 36,992,222 | 16,147,249 | 19,365,308 | 10,357,010 | 11,277,534 |
| Kansas | 14,348,384 | 11,752,696 | NA | 12,305,385 | 6,509,225 | 6,635,626 | 6,160,680 | 5,708,223 | 5,326,455 | 5,469,052 |
| Kentucky | 17,558,997 | 11,960,634 | NA | 13,938,134 | 20,410,096 | 20,498,849 | 19,886,257 | 19,751,055 | 16,756,867 | 17,256,496 |
| Louisiana | 11,216,568 | 6,587,314 | NA | 8,285,478 | 9,165,144 | 14,979,079 | 18,143,396 | 15,713,110 | 18,778,159 | 32,175,199 |
| Maine | 17,509,051 | 27,525,552 | NA | 6,400,019 | 8,847,471 | 9,918,765 | 7,094,736 | 6,109,793 | 6,857,948 | 12,609,815 |
| Maryland | 24,945,119 | 40,298,691 | NA | 21,093,331 | 22,825,402 | 20,084,540 | 21,890,225 | 29,467,445 | 29,981,260 | 24,852,978 |
| Massachusetts | 10,729,419 | 5,600,189 | NA | 3,290,198 | 4,884,430 | 4,878,927 | 3,918,500 | 4,590,424 | 18,259,928 | 22,664,539 |
| Michigan | 75,016,589 | 32,849,159 | NA | 8,630,209 | 9,469,440 | 9,802,873 | 12,557,954 | 12,830,423 | 12,252,555 | 12,675,635 |
| Minnesota | 6,219,201 | 10,529,048 | NA | 16,655,913 | 12,212,546 | 11,653,327 | 11,524,686 | 14,855,954 | 19,378,825 | 21,455,746 |
| Mississippi | 2,744,882 | 7,343,892 | NA | 3,623,953 | 7,168,109 | 7,420,851 | 6,260,080 | 4,863,312 | 1,313,376 | 780,616 |
| Missouri | 18,465,303 | 15,567,277 | NA | 15,797,247 | 13,329,841 | 13,658,961 | 13,041,450 | 13,051,110 | 8,436,666 | 9,806,222 |
| Montana | 8,606,319 | 8,200,230 | NA | 7,200,442 | 7,543,860 | 6,474,190 | 6,841,897 | 6,570,018 | 10,428,010 | 10,362,726 |
| Nebraska | 5,602,163 | 4,043,480 | NA | 4,415,644 | 4,232,691 | 4,061,651 | 6,367,304 | 7,274,333 | 6,621,771 | 5,475,420 |
| Nevada | 1,397,463 | 1,748,776 | NA | 1,510,607 | 1,081,407 | 1,440,630 | 1,166,762 | 1,640,871 | 3,438,157 | 3,107,166 |
| New Hampshire | 2,040,544 | 1,685,178 | NA | 1,860,269 | 1,804,156 | 1,921,421 | 2,241,149 | 1,788,396 | 1,448,090 | 1,607,080 |
| New Jersey | 25,900,482 | 19,981,741 | NA | 25,146,838 | 38,639,539 | 27,868,781 | 29,818,258 | 34,413,516 | 30,384,821 | 33,756,028 |
| New Mexico | 3,105,000 | 672,921 | NA | 36,655,529 | 39,422,955 | 41,821,583 | 42,793,561 | 42,015,961 | 49,805,916 | 52,302,976 |
| New York | 103,597,135 | 128,361,166 | NA | 375,422,634 | 391,259,392 | 405,346,642 | 382,226,391 | 382,143,207 | 371,224,749 | 365,551,926 |
| North Carolina | 14,344,310 | 37,607,109 | NA | 41,404,202 | 27,342,380 | 29,611,785 | 32,529,885 | 30,649,974 | 22,114,350 | 34,002,384 |
| North Dakota | 21,062,090 | 9,908,722 | NA | 16,415,807 | 6,352,675 | 8,072,257 | 6,034,991 | 7,364,184 | 10,784,572 | 9,611,936 |
| Ohio | 55,068,629 | 114,086,509 | NA | 121,394,963 | 125,120,668 | 159,322,228 | 153,382,845 | 188,311,926 | 94,882,275 | 94,299,294 |
| Oklahoma | 8,922,036 | 10,731,050 | NA | 15,930,878 | 21,226,236 | 20,304,740 | 23,133,843 | 28,224,758 | 30,473,702 | 29,952,934 |
| Oregon | 7,382,722 | 7,389,914 | NA | 11,120,140 | 18,013,730 | 20,001,272 | 22,003,035 | 23,083,506 | 29,679,288 | 31,990,073 |

TABLE 3. State government expenditures for R&D, by state: FYs 2006–15

(Dollars)

| State | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|--------------------------|-------------|-------------|------|------------|------------|------------|-------------|-------------|-------------|-------------|
| Pennsylvania | 117,320,158 | 103,973,448 | NA | 95,896,714 | 87,913,796 | 75,491,812 | 80,600,099 | 66,429,400 | 35,432,244 | 75,024,127 |
| Rhode Island | 150,000 | 1,771,949 | NA | 1,877,724 | 1,461,239 | 1,947,727 | 2,028,402 | 1,640,778 | 3,225,472 | 2,594,978 |
| South Carolina | 22,427,746 | 31,969,826 | NA | 28,599,885 | 71,290,446 | 84,692,653 | 72,467,293 | 47,732,177 | 22,311,739 | 27,419,285 |
| South Dakota | 5,791,586 | 5,473,603 | NA | 4,430,602 | 3,762,637 | 3,629,155 | 3,447,633 | 3,660,854 | 5,067,005 | 4,211,838 |
| Tennessee | 5,355,000 | 4,549,998 | NA | 3,752,587 | 1,064,262 | 3,642,490 | 4,293,334 | 3,430,476 | 4,363,565 | 3,828,567 |
| Texas | 28,019,645 | 29,650,947 | NA | 49,381,346 | 35,163,655 | 47,372,367 | 146,989,380 | 185,199,541 | 162,287,552 | 185,094,332 |
| Utah | 3,214,170 | 2,752,228 | NA | 26,442,711 | 30,812,205 | 34,418,764 | 47,388,335 | 53,636,842 | 36,466,790 | 38,168,197 |
| Vermont | 1,680,533 | 1,529,805 | NA | 738,707 | 1,665,079 | 1,711,673 | 1,653,315 | 1,827,562 | 2,039,520 | 2,199,082 |
| Virginia | 11,579,623 | 15,486,526 | NA | 22,662,519 | 28,961,491 | 29,376,417 | 33,295,328 | 36,017,935 | 38,456,410 | 43,615,877 |
| Washington | 22,834,218 | 23,333,431 | NA | 16,284,702 | 38,073,580 | 45,498,369 | 49,553,326 | 47,122,876 | 38,277,525 | 36,918,558 |
| West Virginia | 6,024,577 | 22,179,830 | NA | 10,357,006 | 23,867,732 | 35,475,338 | 33,580,156 | 19,027,684 | 9,705,200 | 11,481,903 |
| Wisconsin | 10,949,155 | 13,774,600 | NA | 24,942,415 | 12,435,548 | 21,128,936 | 17,861,390 | 21,212,446 | 14,643,835 | 14,517,671 |
| Wyoming | 6,326,604 | 19,500,357 | NA | 4,806,630 | 5,471,379 | 5,419,398 | 6,879,286 | 6,497,386 | 6,444,053 | 5,160,617 |
| Puerto Rico ^b | 1,458,790 | 2,326,241 | NA | 9,316,754 | 4,031,391 | 4,217,869 | 7,625,412 | 7,949,965 | 6,569,500 | 5,673,544 |

NA = not available; survey was not conducted for FY 2008.

^a U.S. total reflects all 50 states and the District of Columbia.^b Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

8 NOTES: State R&D totals can display considerable volatility between survey years due to several national and state-specific factors. Large changes are not unusual, especially for discretionary spending items such as R&D.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development.

TABLE 4. State government expenditures for R&D for all performers, by state and source of funds: FYs 2014–15
(Dollars)

| State | Source of funds | | | | | |
|----------------------------|----------------------|---------------|--------------------|-------------|-----------------------------------|---------------|
| | All R&D expenditures | | Federal government | | State and all others ^a | |
| | 2014 | 2015 | 2014 | 2015 | 2014 | 2015 |
| United States ^b | 1,885,923,321 | 2,205,146,613 | 482,439,349 | 483,983,700 | 1,403,483,972 | 1,721,162,913 |
| Alabama | 18,532,534 | 24,486,963 | 7,543,639 | 8,931,316 | 10,988,895 | 15,555,647 |
| Alaska | 12,031,675 | 11,258,203 | 3,871,691 | 2,812,832 | 8,159,984 | 8,445,371 |
| Arizona | 18,820,149 | 14,942,124 | 8,490,200 | 8,321,298 | 10,329,949 | 6,620,826 |
| Arkansas | 14,994,903 | 16,642,711 | 5,015,200 | 6,238,800 | 9,979,703 | 10,403,911 |
| California | 321,958,885 | 500,071,595 | 19,504,949 | 20,343,864 | 302,453,936 | 479,727,731 |
| Colorado | 15,745,589 | 16,321,056 | 4,133,204 | 3,668,094 | 11,612,385 | 12,652,962 |
| Connecticut | 47,405,244 | 55,816,528 | 12,150,832 | 13,036,055 | 35,254,412 | 42,780,473 |
| Delaware | 2,243,868 | 2,199,635 | 691,432 | 862,471 | 1,552,436 | 1,337,164 |
| District of Columbia | 3,136,271 | 3,216,073 | 1,277,405 | 1,035,397 | 1,858,866 | 2,180,676 |
| Florida | 157,004,903 | 191,598,669 | 25,536,046 | 22,302,689 | 131,468,857 | 169,295,980 |
| Georgia | 11,776,221 | 10,052,848 | 10,548,856 | 8,055,609 | 1,227,365 | 1,997,239 |
| Hawaii | 13,125,455 | 11,520,961 | 9,214,342 | 6,940,018 | 3,911,113 | 4,580,943 |
| Idaho | 12,862,935 | 12,935,976 | 8,208,360 | 7,130,703 | 4,654,575 | 5,805,273 |
| Illinois | 24,988,306 | 30,817,406 | 7,032,929 | 6,913,774 | 17,955,377 | 23,903,632 |
| Indiana | 23,590,723 | 9,987,058 | 9,738,835 | 7,358,178 | 13,851,888 | 2,628,880 |
| Iowa | 10,357,010 | 11,277,534 | 5,481,288 | 5,615,415 | 4,875,722 | 5,662,119 |
| Kansas | 5,326,455 | 5,469,052 | 2,360,850 | 2,138,068 | 2,965,605 | 3,330,984 |
| Kentucky | 16,756,867 | 17,256,496 | 6,866,569 | 7,335,717 | 9,890,298 | 9,920,779 |
| Louisiana | 18,778,159 | 32,175,199 | 9,900,000 | 10,012,449 | 8,878,159 | 22,162,750 |
| Maine | 6,857,948 | 12,609,815 | 2,038,174 | 2,952,778 | 4,819,774 | 9,657,037 |
| Maryland | 29,981,260 | 24,852,978 | 1,782,810 | 1,649,862 | 28,198,450 | 23,203,116 |
| Massachusetts | 18,259,928 | 22,664,539 | 5,480,624 | 6,490,647 | 12,779,304 | 16,173,892 |
| Michigan | 12,252,555 | 12,675,635 | 8,417,785 | 8,346,295 | 3,834,770 | 4,329,340 |
| Minnesota | 19,378,825 | 21,455,746 | 4,827,540 | 4,814,486 | 14,551,285 | 16,641,260 |
| Mississippi | 1,313,376 | 780,616 | 971,637 | 618,485 | 341,739 | 162,131 |
| Missouri | 8,436,666 | 9,806,222 | 4,488,514 | 5,556,141 | 3,948,152 | 4,250,081 |
| Montana | 10,428,010 | 10,362,726 | 3,254,014 | 3,672,296 | 7,173,996 | 6,690,430 |
| Nebraska | 6,621,771 | 5,475,420 | 1,607,015 | 1,668,537 | 5,014,756 | 3,806,883 |
| Nevada | 3,438,157 | 3,107,166 | 2,771,066 | 2,515,000 | 667,091 | 592,166 |
| New Hampshire | 1,448,090 | 1,607,080 | 959,521 | 1,113,769 | 488,569 | 493,311 |
| New Jersey | 30,384,821 | 33,756,028 | 3,453,756 | 4,041,326 | 26,931,065 | 29,714,702 |
| New Mexico | 49,805,916 | 52,302,976 | 2,086,119 | 1,966,767 | 47,719,797 | 50,336,209 |
| New York | 371,224,749 | 365,551,926 | 162,053,306 | 150,683,260 | 209,171,443 | 214,868,666 |
| North Carolina | 22,114,350 | 34,002,384 | 6,418,931 | 15,605,925 | 15,695,419 | 18,396,459 |
| North Dakota | 10,784,572 | 9,611,936 | 1,199,176 | 1,020,728 | 9,585,396 | 8,591,208 |
| Ohio | 94,882,275 | 94,299,294 | 6,979,454 | 6,437,833 | 87,902,821 | 87,861,461 |
| Oklahoma | 30,473,702 | 29,952,934 | 8,986,041 | 7,578,340 | 21,487,661 | 22,374,594 |
| Oregon | 29,679,288 | 31,990,073 | 9,815,170 | 10,390,644 | 19,864,118 | 21,599,429 |
| Pennsylvania | 35,432,244 | 75,024,127 | 5,353,083 | 4,830,151 | 30,079,161 | 70,193,976 |
| Rhode Island | 3,225,472 | 2,594,978 | 1,251,398 | 1,114,694 | 1,974,074 | 1,480,284 |
| South Carolina | 22,311,739 | 27,419,285 | 16,290,802 | 20,114,487 | 6,020,937 | 7,304,798 |
| South Dakota | 5,067,005 | 4,211,838 | 1,427,976 | 1,003,921 | 3,639,029 | 3,207,917 |
| Tennessee | 4,363,565 | 3,828,567 | 3,368,748 | 2,903,575 | 994,817 | 924,992 |
| Texas | 162,287,552 | 185,094,332 | 17,280,822 | 21,106,336 | 145,006,730 | 163,987,996 |
| Utah | 36,466,790 | 38,168,197 | 755,484 | 1,077,198 | 35,711,306 | 37,090,999 |
| Vermont | 2,039,520 | 2,199,082 | 1,583,729 | 1,183,900 | 455,791 | 1,015,182 |
| Virginia | 38,456,410 | 43,615,877 | 12,583,339 | 12,782,781 | 25,873,071 | 30,833,096 |
| Washington | 38,277,525 | 36,918,558 | 11,078,789 | 12,398,340 | 27,198,736 | 24,520,218 |
| West Virginia | 9,705,200 | 11,481,903 | 4,572,114 | 7,720,174 | 5,133,086 | 3,761,729 |

TABLE 4. State government expenditures for R&D for all performers, by state and source of funds: FYs 2014–15
(Dollars)

| State | All R&D expenditures | | Source of funds | | | |
|--------------------------|----------------------|------------|--------------------|-----------|-----------------------------------|-----------|
| | | | Federal government | | State and all others ^a | |
| | 2014 | 2015 | 2014 | 2015 | 2014 | 2015 |
| Wisconsin | 14,643,835 | 14,517,671 | 9,388,919 | 9,471,310 | 5,254,916 | 5,046,361 |
| Wyoming | 6,444,053 | 5,160,617 | 2,346,866 | 2,100,967 | 4,097,187 | 3,059,650 |
| Puerto Rico ^c | 6,569,500 | 5,673,544 | 1,489,553 | 1,561,588 | 5,079,947 | 4,111,956 |

^a State and all others include companies; nonprofit organizations; other state governments; and city, county, regional, or other local governments.

^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.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FYs 2014 and 2015.

TABLE 5. State government expenditures for R&D for intramural performers, by state and source of funds: FYs 2014–15
(Dollars)

| State | R&D expenditures for intramural performers | | Source of funds | | | | | |
|----------------------------|--------------------------------------------|-------------|--------------------|-------------|-------------|-------------|--------------------|------------|
| | 2014 | 2015 | Federal government | | State | | Other ^a | |
| | | | 2014 | 2015 | 2014 | 2015 | 2014 | 2015 |
| United States ^b | 577,638,324 | 581,667,140 | 248,953,250 | 242,636,750 | 285,196,337 | 293,696,409 | 43,488,737 | 45,333,981 |
| Alabama | 4,589,652 | 6,167,637 | 1,741,884 | 1,585,567 | 1,611,029 | 1,864,373 | 1,236,739 | 2,717,697 |
| Alaska | 9,399,991 | 9,464,543 | 1,627,358 | 1,226,058 | 6,307,256 | 6,145,208 | 1,465,377 | 2,093,277 |
| Arizona | 8,953,596 | 8,268,168 | 6,515,841 | 6,581,121 | 2,311,755 | 1,400,047 | 126,000 | 287,000 |
| Arkansas | 708,544 | 660,969 | 658,744 | 617,769 | 49,800 | 43,200 | 0 | 0 |
| California | 53,984,295 | 55,223,244 | 5,970,084 | 5,848,445 | 47,951,679 | 48,715,602 | 62,532 | 659,197 |
| Colorado | 8,178,672 | 8,467,517 | 2,823,507 | 2,674,442 | 4,565,828 | 5,195,466 | 789,337 | 597,609 |
| Connecticut | 20,533,902 | 21,885,609 | 9,506,924 | 10,182,038 | 11,026,978 | 11,703,571 | 0 | 0 |
| Delaware | 1,888,698 | 1,709,791 | 505,519 | 481,305 | 1,383,179 | 1,218,486 | 0 | 10,000 |
| District of Columbia | 1,444,007 | 1,541,038 | 477,724 | 461,896 | 966,283 | 1,079,142 | 0 | 0 |
| Florida | 44,017,593 | 45,015,557 | 11,507,669 | 11,284,888 | 30,036,140 | 30,459,912 | 2,473,784 | 3,270,757 |
| Georgia | 1,766,014 | 1,709,229 | 1,713,151 | 1,654,724 | 52,863 | 54,505 | 0 | 0 |
| Hawaii | 1,038,877 | 1,659,573 | 130,847 | 119,047 | 279,440 | 349,860 | 628,590 | 1,190,666 |
| Idaho | 6,783,779 | 6,469,463 | 5,570,131 | 5,188,837 | 928,344 | 914,614 | 285,304 | 366,012 |
| Illinois | 1,678,403 | 1,550,890 | 1,255,880 | 1,131,220 | 422,523 | 419,670 | 0 | 0 |
| Indiana | 675,629 | 657,583 | 545,548 | 531,448 | 129,877 | 125,924 | 204 | 211 |
| Iowa | 3,884,026 | 3,696,335 | 2,444,820 | 1,691,929 | 1,439,206 | 2,004,406 | 0 | 0 |
| Kansas | 1,427,786 | 1,333,800 | 892,126 | 879,952 | 535,660 | 453,848 | 0 | 0 |
| Kentucky | 2,654,669 | 2,734,444 | 2,051,169 | 2,121,529 | 603,500 | 612,915 | 0 | 0 |
| Louisiana | 8,785,247 | 9,325,390 | 5,800,000 | 5,912,449 | 2,885,247 | 3,159,625 | 100,000 | 253,316 |
| Maine | 2,048,918 | 2,911,504 | 1,425,144 | 2,140,173 | 613,774 | 725,331 | 10,000 | 46,000 |
| Maryland | 906,472 | 846,300 | 542,736 | 512,650 | 363,736 | 333,650 | 0 | 0 |
| Massachusetts | 10,934,792 | 11,254,392 | 4,235,588 | 5,866,544 | 6,659,954 | 5,319,148 | 39,250 | 68,700 |
| Michigan | 626,768 | 702,187 | 446,826 | 502,758 | 148,942 | 167,429 | 31,000 | 32,000 |
| Minnesota | 2,284,757 | 2,828,032 | 937,453 | 1,044,621 | 1,347,304 | 1,783,411 | 0 | 0 |
| Mississippi | 510,446 | 252,513 | 341,463 | 203,134 | 168,983 | 49,379 | 0 | 0 |
| Missouri | 1,005,924 | 1,150,753 | 103,013 | 403,508 | 902,911 | 747,245 | 0 | 0 |
| Montana | 2,238,501 | 2,273,458 | 1,487,989 | 1,588,661 | 321,637 | 330,922 | 428,875 | 353,875 |
| Nebraska | 769,135 | 534,852 | 527,835 | 235,151 | 241,300 | 299,701 | 0 | 0 |
| Nevada | 9,927 | 3,893 | 9,927 | 3,893 | 0 | 0 | 0 | 0 |
| New Hampshire | 84,253 | 82,781 | 81,853 | 80,481 | 0 | 0 | 2,400 | 2,300 |
| New Jersey | 1,814,000 | 1,864,000 | 109,000 | 84,000 | 1,705,000 | 1,780,000 | 0 | 0 |
| New Mexico | 2,462,904 | 2,539,877 | 861,608 | 877,549 | 1,193,246 | 1,386,548 | 408,050 | 275,780 |
| New York | 258,603,078 | 241,920,626 | 134,280,801 | 121,004,014 | 92,253,836 | 91,144,435 | 32,068,441 | 29,772,177 |
| North Carolina | 14,136,872 | 14,429,283 | 1,072,608 | 980,391 | 13,019,254 | 13,382,394 | 45,010 | 66,498 |
| North Dakota | 1,373,563 | 1,189,828 | 664,424 | 638,236 | 709,139 | 551,592 | 0 | 0 |
| Ohio | 965,440 | 864,161 | 257,030 | 285,529 | 708,410 | 578,632 | 0 | 0 |
| Oklahoma | 370,925 | 350,570 | 345,425 | 345,425 | 25,500 | 5,145 | 0 | 0 |
| Oregon | 15,547,309 | 18,022,139 | 7,963,697 | 8,269,858 | 7,341,112 | 9,552,339 | 242,500 | 199,942 |
| Pennsylvania | 7,012,137 | 7,387,261 | 1,201,067 | 1,432,802 | 5,426,903 | 5,453,744 | 384,167 | 500,715 |
| Rhode Island | 389,829 | 281,200 | 300,062 | 189,260 | 89,767 | 91,940 | 0 | 0 |
| South Carolina | 17,374,915 | 22,351,601 | 12,747,887 | 16,757,709 | 4,123,548 | 4,918,788 | 503,480 | 675,104 |
| South Dakota | 220,000 | 240,000 | 176,000 | 192,000 | 44,000 | 48,000 | 0 | 0 |
| Tennessee | 563,092 | 531,871 | 344,370 | 298,218 | 218,722 | 233,653 | 0 | 0 |
| Texas | 2,673,588 | 2,745,383 | 1,789,450 | 1,766,679 | 884,138 | 971,545 | 0 | 7,159 |
| Utah | 17,924,476 | 18,192,260 | 267,367 | 297,855 | 17,657,109 | 17,894,405 | 0 | 0 |
| Vermont | 534,520 | 555,772 | 391,826 | 377,059 | 142,694 | 178,713 | 0 | 0 |
| Virginia | 10,129,948 | 14,190,632 | 4,082,534 | 4,067,858 | 6,027,342 | 10,108,828 | 20,072 | 13,946 |
| Washington | 9,824,415 | 10,470,091 | 3,826,601 | 4,106,732 | 4,228,202 | 4,858,414 | 1,769,612 | 1,504,945 |
| West Virginia | 3,787,754 | 4,728,205 | 1,100,262 | 2,383,408 | 2,596,396 | 2,275,431 | 91,096 | 69,366 |

TABLE 5. State government expenditures for R&D for intramural performers, by state and source of funds: FYs 2014–15
(Dollars)

| State | R&D expenditures for intramural performers | | Source of funds | | | | | |
|--------------------------|--------------------------------------------|-----------|--------------------|-----------|-----------|-----------|--------------------|---------|
| | | | Federal government | | State | | Other ^a | |
| | 2014 | 2015 | 2014 | 2015 | 2014 | 2015 | 2014 | 2015 |
| Wisconsin | 6,279,098 | 6,547,800 | 4,017,958 | 4,278,360 | 2,179,240 | 2,205,340 | 81,900 | 64,100 |
| Wyoming | 1,837,188 | 1,883,135 | 1,274,520 | 1,247,570 | 367,651 | 399,933 | 195,017 | 235,632 |
| Puerto Rico ^c | 5,193,888 | 4,454,166 | 1,400,000 | 1,472,035 | 3,726,735 | 2,912,131 | 67,153 | 70,000 |

^a Other includes companies; nonprofit organizations; other state governments; and city, county, regional, or other local governments.

^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.

NOTE: 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.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FYs 2014 and 2015.

TABLE 6. State government expenditures for R&D by intramural performers, by state: FYs 2006–15

(Dollars)

| State | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|----------------------------|-------------|-------------|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| United States ^a | 278,804,902 | 337,554,442 | NA | 544,768,301 | 666,474,213 | 715,619,606 | 671,902,599 | 657,514,410 | 577,638,324 | 581,667,140 |
| Alabama | 4,339,426 | 5,786,160 | NA | 9,138,896 | 9,749,394 | 14,250,319 | 8,612,718 | 9,160,769 | 4,589,652 | 6,167,637 |
| Alaska | 5,356,472 | 7,541,700 | NA | 6,387,016 | 7,885,200 | 9,004,800 | 5,346,296 | 5,963,195 | 9,399,991 | 9,464,543 |
| Arizona | 8,576,436 | 6,833,220 | NA | 6,869,506 | 7,545,171 | 7,410,362 | 13,303,829 | 16,141,770 | 8,953,596 | 8,268,168 |
| Arkansas | 1,073,285 | 420,340 | NA | 467,767 | 5,406,407 | 6,077,854 | 3,006,648 | 2,992,079 | 708,544 | 660,969 |
| California | 35,104,016 | 29,987,603 | NA | 48,407,683 | 59,744,655 | 69,864,773 | 59,490,293 | 57,262,060 | 53,984,295 | 55,223,244 |
| Colorado | 6,594,969 | 7,004,927 | NA | 9,395,554 | 7,108,498 | 6,942,978 | 8,170,313 | 8,248,707 | 8,178,672 | 8,467,517 |
| Connecticut | 14,519,731 | 13,979,139 | NA | 12,571,612 | 22,561,170 | 23,573,706 | 24,039,989 | 25,612,853 | 20,533,902 | 21,885,609 |
| Delaware | 1,207,011 | 2,011,600 | NA | 1,021,115 | 1,968,736 | 2,049,018 | 2,181,693 | 2,514,545 | 1,888,698 | 1,709,791 |
| District of Columbia | 302,000 | 2,009,000 | NA | 0 | 189,691 | 220,886 | 354,612 | 435,813 | 1,444,007 | 1,541,038 |
| Florida | 10,013,516 | 9,073,670 | NA | 10,356,355 | 50,546,200 | 48,327,623 | 48,910,954 | 47,372,831 | 44,017,593 | 45,015,557 |
| Georgia | 861,231 | 60,551 | NA | 3,500,000 | 3,200,000 | 3,600,000 | 4,145,859 | 2,041,101 | 1,766,014 | 1,709,229 |
| Hawaii | 2,329,186 | 7,617,547 | NA | 3,268,044 | 3,049,593 | 3,667,047 | 4,267,994 | 4,320,992 | 1,038,877 | 1,659,573 |
| Idaho | 257,926 | 1,127,217 | NA | 4,397,225 | 4,616,645 | 4,430,450 | 7,179,818 | 7,836,031 | 6,783,779 | 6,469,463 |
| Illinois | 17,617,332 | 18,022,400 | NA | 1,304,428 | 1,948,263 | 2,049,697 | 1,618,580 | 1,663,080 | 1,678,403 | 1,550,890 |
| Indiana | 2,364,046 | 36,349,207 | NA | 941,982 | 975,000 | 975,000 | 870,605 | 1,022,370 | 675,629 | 657,583 |
| Iowa | 5,754,032 | 363,153 | NA | 953,909 | 625,480 | 1,260,999 | 4,376,976 | 5,603,029 | 3,884,026 | 3,696,335 |
| Kansas | 2,137,741 | 1,636,784 | NA | 1,598,127 | 1,448,133 | 1,501,433 | 1,484,948 | 1,577,722 | 1,427,786 | 1,333,800 |
| Kentucky | 3,702,849 | 998,840 | NA | 6,241,919 | 1,635,906 | 2,137,354 | 2,893,270 | 2,962,965 | 2,654,669 | 2,734,444 |
| Louisiana | 7,530,897 | 4,259,147 | NA | 5,014,571 | 6,523,169 | 7,493,894 | 4,884,739 | 5,081,221 | 8,785,247 | 9,325,390 |
| Maine | 0 | 330,000 | NA | 1,566,832 | 1,542,846 | 1,883,123 | 1,071,798 | 1,154,177 | 2,048,918 | 2,911,504 |
| Maryland | 6,086,183 | 16,726,066 | NA | 5,683,023 | 1,962,000 | 1,928,700 | 513,661 | 572,247 | 906,472 | 846,300 |
| Massachusetts | 3,623,773 | 922,416 | NA | 831,202 | 862,331 | 785,738 | 917,177 | 1,083,202 | 10,934,792 | 11,254,392 |
| Michigan | 1,527,314 | 1,373,780 | NA | 1,800,696 | 1,688,930 | 1,509,097 | 2,277,811 | 2,651,063 | 626,768 | 702,187 |
| Minnesota | 2,132,277 | 2,904,128 | NA | 1,974,655 | 1,507,582 | 1,509,585 | 1,471,472 | 1,007,122 | 2,284,757 | 2,828,032 |
| Mississippi | 1,484,612 | 5,728,190 | NA | 2,884,940 | 3,933,046 | 4,028,133 | 1,890,566 | 2,094,537 | 510,446 | 252,513 |
| Missouri | 12,171,794 | 9,815,796 | NA | 9,289,817 | 8,065,733 | 7,546,964 | 7,274,626 | 6,696,607 | 1,005,924 | 1,150,753 |
| Montana | 2,404,391 | 1,007,000 | NA | 1,304,712 | 1,604,601 | 1,694,519 | 1,669,440 | 2,035,229 | 2,238,501 | 2,273,458 |
| Nebraska | 436,000 | 291,000 | NA | 125,000 | 327,845 | 320,392 | 303,472 | 368,009 | 769,135 | 534,852 |
| Nevada | 323,042 | 581,534 | NA | 342,744 | 295,579 | 364,476 | 376,301 | 366,804 | 9,927 | 3,893 |
| New Hampshire | 424,762 | 167,708 | NA | 1,018,069 | 502,616 | 591,869 | 760,392 | 683,882 | 84,253 | 82,781 |
| New Jersey | 5,483,784 | 5,093,922 | NA | 4,278,027 | 3,407,529 | 2,980,802 | 2,952,996 | 2,920,843 | 1,814,000 | 1,864,000 |
| New Mexico | 3,000,000 | 576,921 | NA | 535,531 | 560,955 | 494,193 | 671,314 | 768,893 | 2,462,904 | 2,539,877 |
| New York | 42,047,823 | 31,635,352 | NA | 266,188,075 | 311,702,575 | 318,563,367 | 277,561,513 | 267,002,282 | 258,603,078 | 241,920,626 |
| North Carolina | 3,789,289 | 27,479,434 | NA | 31,451,251 | 18,843,326 | 19,478,718 | 20,437,242 | 20,501,169 | 14,136,872 | 14,429,283 |
| North Dakota | 762,297 | 500,943 | NA | 568,135 | 591,770 | 366,294 | 530,023 | 429,670 | 1,373,563 | 1,189,828 |
| Ohio | 1,515,058 | 283,131 | NA | 3,883,347 | 1,754,417 | 2,645,393 | 2,246,092 | 2,040,795 | 965,440 | 864,161 |
| Oklahoma | 83,333 | 252,516 | NA | 2,709,663 | 9,250 | 9,850 | 1,057,822 | 1,074,816 | 370,925 | 350,570 |
| Oregon | 3,318,194 | 2,851,734 | NA | 5,768,545 | 14,368,928 | 17,063,005 | 18,162,372 | 19,524,508 | 15,547,309 | 18,022,139 |

TABLE 6. State government expenditures for R&D by intramural performers, by state: FYs 2006–15

(Dollars)

| State | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|--------------------------|------------|------------|------|------------|------------|------------|------------|------------|------------|------------|
| Pennsylvania | 3,310,731 | 4,020,292 | NA | 2,992,367 | 5,052,858 | 5,826,832 | 5,632,495 | 6,675,458 | 7,012,137 | 7,387,261 |
| Rhode Island | 0 | 134,200 | NA | 67,000 | 53,547 | 80,000 | 20,000 | 225,050 | 389,829 | 281,200 |
| South Carolina | 15,780,585 | 26,968,153 | NA | 24,161,908 | 42,554,948 | 52,973,299 | 49,917,998 | 37,004,464 | 17,374,915 | 22,351,601 |
| South Dakota | 2,318,754 | 3,070,095 | NA | 424,407 | 722,906 | 652,055 | 60,976 | 114,425 | 220,000 | 240,000 |
| Tennessee | 704,000 | 595,010 | NA | 0 | 0 | 52,129 | 762,313 | 784,848 | 563,092 | 531,871 |
| Texas | 5,870,258 | 5,496,761 | NA | 4,763,897 | 2,813,346 | 9,823,374 | 12,375,067 | 11,746,259 | 2,673,588 | 2,745,383 |
| Utah | 964,170 | 1,333,630 | NA | 10,715,649 | 10,150,322 | 10,361,727 | 17,654,475 | 17,979,931 | 17,924,476 | 18,192,260 |
| Vermont | 848,787 | 847,350 | NA | 738,707 | 1,442,023 | 1,543,503 | 1,074,198 | 1,160,193 | 534,520 | 555,772 |
| Virginia | 5,045,794 | 7,577,630 | NA | 8,242,184 | 6,744,260 | 6,567,645 | 8,766,523 | 13,046,471 | 10,129,948 | 14,190,632 |
| Washington | 12,187,408 | 12,103,757 | NA | 8,136,939 | 10,916,316 | 11,745,788 | 12,875,297 | 12,820,150 | 9,824,415 | 10,470,091 |
| West Virginia | 1,767,688 | 2,414,915 | NA | 2,555,126 | 7,094,173 | 8,130,744 | 4,965,278 | 4,764,417 | 3,787,754 | 4,728,205 |
| Wisconsin | 5,534,273 | 4,766,000 | NA | 5,329,091 | 5,060,717 | 6,126,083 | 6,896,219 | 7,402,664 | 6,279,098 | 6,547,800 |
| Wyoming | 4,216,426 | 4,622,873 | NA | 2,601,053 | 3,609,627 | 3,134,016 | 3,615,536 | 3,001,092 | 1,837,188 | 1,883,135 |
| Puerto Rico ^b | 1,274,358 | 328,664 | NA | 8,352,468 | 2,300,000 | 2,500,000 | 6,360,716 | 6,084,344 | 5,193,888 | 4,454,166 |

NA = not available; survey was not conducted for FY 2008.

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

^b Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

NOTES: 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. State R&D totals can display considerable volatility between survey years due to several national and state-specific factors. Large changes are not unusual, especially for discretionary spending items such as R&D.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development.

TABLE 7. State government expenditures for intramural R&D, by state and type of work: FY 2015

(Dollars)

| State | All intramural R&D expenditures | Type of R&D | | |
|----------------------------|------------------------------------|----------------|------------------|--------------------------|
| | | Basic research | Applied research | Experimental development |
| United States ^a | 581,667,140 | 110,468,001 | 458,171,655 | 13,027,484 |
| Alabama | 6,167,637 | 1,488,265 | 4,679,372 | 0 |
| Alaska | 9,464,543 | 0 | 9,464,543 | 0 |
| Arizona | 8,268,168 | 0 | 8,268,168 | 0 |
| Arkansas | 660,969 | 0 | 596,169 | 64,800 |
| California | 55,223,244 | 419,000 | 53,715,244 | 1,089,000 |
| Colorado | 8,467,517 | 0 | 7,290,310 | 1,177,207 |
| Connecticut | 21,885,609 | 2,670,225 | 19,101,384 | 114,000 |
| Delaware | 1,709,791 | 0 | 1,709,791 | 0 |
| District of Columbia | 1,541,038 | 145,330 | 1,197,854 | 197,854 |
| Florida | 45,015,557 | 133,351 | 43,006,623 | 1,875,583 |
| Georgia | 1,709,229 | 0 | 1,709,229 | 0 |
| Hawaii | 1,659,573 | 0 | 1,336,076 | 323,497 |
| Idaho | 6,469,463 | 0 | 6,466,963 | 2,500 |
| Illinois | 1,550,890 | 0 | 645,914 | 904,976 |
| Indiana | 657,583 | 243,273 | 414,310 | 0 |
| Iowa | 3,696,335 | 0 | 3,696,335 | 0 |
| Kansas | 1,333,800 | 477,533 | 856,267 | 0 |
| Kentucky | 2,734,444 | 0 | 2,732,044 | 2,400 |
| Louisiana | 9,325,390 | 0 | 9,312,941 | 12,449 |
| Maine | 2,911,504 | 590,251 | 2,118,253 | 203,000 |
| Maryland | 846,300 | 0 | 841,300 | 5,000 |
| Massachusetts | 11,254,392 | 2,485 | 11,249,422 | 2,485 |
| Michigan | 702,187 | 0 | 702,187 | 0 |
| Minnesota | 2,828,032 | 10,000 | 2,304,579 | 513,453 |
| Mississippi | 252,513 | 34,482 | 200,254 | 17,777 |
| Missouri | 1,150,753 | 0 | 1,064,901 | 85,852 |
| Montana | 2,273,458 | 0 | 2,212,458 | 61,000 |
| Nebraska | 534,852 | 336,212 | 198,640 | 0 |
| Nevada | 3,893 | 3,893 | 0 | 0 |
| New Hampshire | 82,781 | 0 | 82,781 | 0 |
| New Jersey | 1,864,000 | 0 | 1,508,000 | 356,000 |
| New Mexico | 2,539,877 | 25,100 | 2,514,777 | 0 |
| New York | 241,920,626 | 98,395,131 | 141,063,520 | 2,461,975 |
| North Carolina | 14,429,283 | 938,376 | 12,964,679 | 526,228 |
| North Dakota | 1,189,828 | 342,033 | 847,795 | 0 |
| Ohio | 864,161 | 564,161 | 190,000 | 110,000 |
| Oklahoma | 350,570 | 2,561 | 348,009 | 0 |
| Oregon | 18,022,139 | 0 | 18,022,139 | 0 |
| Pennsylvania | 7,387,261 | 75,672 | 6,793,931 | 517,658 |
| Rhode Island | 281,200 | 0 | 280,000 | 1,200 |
| South Carolina | 22,351,601 | 0 | 22,351,601 | 0 |
| South Dakota | 240,000 | 0 | 240,000 | 0 |
| Tennessee | 531,871 | 16,666 | 515,205 | 0 |
| Texas | 2,745,383 | 0 | 2,745,383 | 0 |
| Utah | 18,192,260 | 211,852 | 17,980,408 | 0 |
| Vermont | 555,772 | 10,480 | 388,081 | 157,211 |
| Virginia | 14,190,632 | 2,450,570 | 11,740,062 | 0 |
| Washington | 10,470,091 | 235,820 | 7,989,892 | 2,244,379 |
| West Virginia | 4,728,205 | 641,238 | 4,086,967 | 0 |

TABLE 7. State government expenditures for intramural R&D, by state and type of work: FY 2015

(Dollars)

| State | All intramural R&D expenditures | Type of R&D | | |
|--------------------------|------------------------------------|----------------|------------------|--------------------------|
| | | Basic research | Applied research | Experimental development |
| Wisconsin | 6,547,800 | 0 | 6,547,800 | 0 |
| Wyoming | 1,883,135 | 4,041 | 1,879,094 | 0 |
| Puerto Rico ^b | 4,454,166 | 0 | 4,454,166 | 0 |

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

^b Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FYs 2014 and 2015.

TABLE 8. State R&D expenditures, by state and function of R&D: FYs 2014–15
(Dollars)

| State | All R&D expenditures | | Agriculture | | Energy | | Environment and natural resources | | Health | | Transportation | | Other ^a | |
|----------------------------|----------------------|---------------|-------------|-------------|-------------|-------------|-----------------------------------|-------------|-------------|-------------|----------------|-------------|--------------------|-------------|
| | 2014 | 2015 | 2014 | 2015 | 2014 | 2015 | 2014 | 2015 | 2014 | 2015 | 2014 | 2015 | 2014 | 2015 |
| United States ^b | 1,885,923,321 | 2,205,146,613 | 129,028,757 | 127,363,440 | 120,229,416 | 312,114,377 | 366,678,067 | 413,229,629 | 852,894,337 | 939,828,386 | 253,299,125 | 247,779,544 | 163,793,619 | 164,831,237 |
| Alabama | 18,532,534 | 24,486,963 | 0 | 250,000 | 386,692 | 688,913 | 4,106,869 | 5,718,986 | 1,000,000 | 2,829,600 | 7,237,806 | 9,255,656 | 5,801,167 | 5,743,808 |
| Alaska | 12,031,675 | 11,258,203 | 217,231 | 217,141 | 35,860 | 53,202 | 9,001,900 | 8,987,200 | 0 | 0 | 2,776,684 | 2,000,660 | 0 | 0 |
| Arizona | 18,820,149 | 14,942,124 | 944,617 | 718,324 | 1,547,000 | 658,000 | 6,184,876 | 7,012,194 | 8,881,971 | 5,294,706 | 1,261,685 | 1,258,900 | 0 | 0 |
| Arkansas | 14,994,903 | 16,642,711 | 8,483,250 | 8,248,838 | 4,800,000 | 5,243,216 | 0 | 303,087 | 75,000 | 726,189 | 1,269,000 | 1,486,000 | 367,653 | 635,381 |
| California | 321,958,885 | 500,071,595 | 6,827,645 | 7,566,669 | 18,393,000 | 194,354,000 | 28,842,415 | 30,382,163 | 217,257,046 | 221,873,363 | 35,560,150 | 35,201,005 | 15,078,629 | 10,694,395 |
| Colorado | 15,745,589 | 16,321,056 | 316,549 | 373,735 | 1,934,715 | 2,241,216 | 8,449,733 | 8,630,632 | 1,640,750 | 1,248,410 | 2,099,101 | 1,881,210 | 1,304,741 | 1,945,853 |
| Connecticut | 47,405,244 | 55,816,528 | 3,920,767 | 4,228,545 | 1,714,724 | 1,944,337 | 10,592,603 | 10,303,327 | 20,966,024 | 28,803,862 | 3,936,126 | 5,409,867 | 6,275,000 | 5,126,590 |
| Delaware | 2,243,868 | 2,199,635 | 0 | 0 | 0 | 10,000 | 1,988,655 | 2,048,014 | 0 | 0 | 255,213 | 141,621 | 0 | 0 |
| District of Columbia | 3,136,271 | 3,216,073 | 0 | 0 | 0 | 75,000 | 1,740,000 | 2,000,000 | 563,442 | 174,578 | 754,327 | 828,377 | 78,502 | 138,118 |
| Florida | 157,004,903 | 191,598,669 | 23,026,254 | 18,529,725 | 355,629 | 1,117,124 | 51,191,986 | 57,934,383 | 67,376,045 | 102,896,382 | 15,054,989 | 11,121,055 | 0 | 0 |
| Georgia | 11,776,221 | 10,052,848 | 0 | 0 | 3,096,465 | 3,148,268 | 2,584,180 | 3,062,308 | 0 | 0 | 6,095,576 | 3,842,272 | 0 | 0 |
| Hawaii | 13,125,455 | 11,520,961 | 80,000 | 60,000 | 4,300,000 | 1,500,000 | 6,929,035 | 7,849,438 | 0 | 0 | 1,148,448 | 1,338,452 | 667,972 | 773,071 |
| Idaho | 12,862,935 | 12,935,976 | 2,442,070 | 2,930,637 | 401,783 | 274,051 | 7,827,527 | 8,164,676 | 30,226 | 130,045 | 2,161,329 | 1,436,567 | 0 | 0 |
| Illinois | 24,988,306 | 30,817,406 | 0 | 139,697 | 5,885,366 | 4,333,344 | 0 | 0 | 1,433,534 | 2,552,945 | 9,517,493 | 9,602,367 | 8,151,913 | 14,189,053 |
| Indiana | 23,590,723 | 9,987,058 | 250,000 | 250,000 | 657,307 | 354,693 | 37,694 | 124,964 | 10,000,000 | 0 | 10,584,435 | 7,483,614 | 2,061,287 | 1,773,787 |
| Iowa | 10,357,010 | 11,277,534 | 0 | 0 | 1,117,561 | 710,522 | 4,135,147 | 4,279,253 | 0 | 0 | 4,581,695 | 5,829,951 | 522,607 | 457,808 |
| Kansas | 5,326,455 | 5,469,052 | 1,129,199 | 1,328,784 | 0 | 0 | 166,000 | 258,099 | 0 | 0 | 3,923,777 | 3,749,587 | 107,479 | 132,582 |
| Kentucky | 16,756,867 | 17,256,496 | 250,000 | 378,000 | 2,403,100 | 2,173,000 | 2,888,300 | 2,768,100 | 4,461,800 | 4,534,000 | 5,769,400 | 6,294,300 | 984,267 | 1,109,096 |
| Louisiana | 18,778,159 | 32,175,199 | 27,333 | 9,167 | 0 | 0 | 7,750,826 | 21,166,032 | 0 | 0 | 11,000,000 | 11,000,000 | 0 | 0 |
| Maine | 6,857,948 | 12,609,815 | 407,500 | 1,013,206 | 415,000 | 986,000 | 2,127,448 | 3,129,609 | 1,040,000 | 2,210,000 | 868,000 | 1,003,000 | 2,000,000 | 4,268,000 |
| Maryland | 29,981,260 | 24,852,978 | 200,000 | 200,000 | 200,000 | 200,000 | 1,191,164 | 3,070,807 | 26,800,000 | 20,500,000 | 1,590,096 | 882,171 | 0 | 0 |
| Massachusetts | 18,259,928 | 22,664,539 | 34,227 | 0 | 2,640,446 | 4,998,471 | 11,503,702 | 12,416,317 | 4,081,553 | 5,249,751 | 0 | 0 | 0 | 0 |
| Michigan | 12,252,555 | 12,675,635 | 3,190,880 | 3,150,111 | 0 | 0 | 3,561,675 | 4,025,524 | 0 | 0 | 5,500,000 | 5,500,000 | 0 | 0 |
| Minnesota | 19,378,825 | 21,455,746 | 2,725,197 | 2,938,310 | 327,995 | 897,117 | 2,678,015 | 3,562,237 | 2,500,000 | 2,500,000 | 11,147,618 | 11,558,082 | 0 | 0 |
| Mississippi | 1,313,376 | 780,616 | 84,209 | 0 | 22,914 | 1,739 | 917,631 | 566,320 | 0 | 0 | 288,622 | 212,557 | 0 | 0 |
| Missouri | 8,436,666 | 9,806,222 | 711,626 | 830,064 | 0 | 0 | 3,718,467 | 4,861,387 | 21,534 | 48,741 | 3,985,039 | 4,066,030 | 0 | 0 |
| Montana | 10,428,010 | 10,362,726 | 4,713,540 | 4,097,279 | 332,678 | 0 | 3,247,491 | 3,688,918 | 577,157 | 642,384 | 1,418,000 | 1,663,000 | 139,144 | 271,145 |
| Nebraska | 6,621,771 | 5,475,420 | 2,996,054 | 2,725,502 | 100,000 | 0 | 219,783 | 529,071 | 1,400,000 | 312,977 | 1,708,434 | 1,810,483 | 197,500 | 97,387 |
| Nevada | 3,438,157 | 3,107,166 | 10,000 | 0 | 0 | 0 | 170,494 | 192,802 | 0 | 0 | 3,257,663 | 2,914,364 | 0 | 0 |
| New Hampshire | 1,448,090 | 1,607,080 | 98,640 | 130,904 | 0 | 0 | 262,850 | 331,476 | 0 | 0 | 786,600 | 844,700 | 300,000 | 300,000 |
| New Jersey | 30,384,821 | 33,756,028 | 0 | 0 | 0 | 0 | 3,162,639 | 2,721,846 | 23,534,704 | 27,235,340 | 3,687,478 | 3,798,842 | 0 | 0 |
| New Mexico | 49,805,916 | 52,302,976 | 26,948,199 | 28,426,162 | 2,796,200 | 2,978,000 | 3,334,100 | 3,348,379 | 10,741,900 | 11,312,600 | 2,685,017 | 2,787,035 | 3,300,500 | 3,450,800 |
| New York | 371,224,749 | 365,551,926 | 1,823,801 | 2,166,324 | 31,242,349 | 40,787,626 | 23,806,153 | 21,640,818 | 257,001,469 | 244,407,831 | 9,321,647 | 6,850,569 | 48,029,330 | 49,698,758 |
| North Carolina | 22,114,350 | 34,002,384 | 12,239,391 | 12,050,000 | 1,322,052 | 1,652,847 | 2,864,841 | 2,901,909 | 0 | 7,966,618 | 5,688,066 | 5,534,981 | 0 | 3,896,029 |
| North Dakota | 10,784,572 | 9,611,936 | 2,504,192 | 2,674,205 | 6,858,556 | 5,705,731 | 825,000 | 825,000 | 0 | 0 | 596,824 | 407,000 | 0 | 0 |
| Ohio | 94,882,275 | 94,299,294 | 0 | 0 | 6,472,561 | 11,048,550 | 36,843,569 | 42,606,559 | 4,508,615 | 3,246,554 | 16,507,471 | 10,142,447 | 30,550,059 | 27,255,184 |
| Oklahoma | 30,473,702 | 29,952,934 | 1,708,188 | 1,811,266 | 1,246,000 | 1,625,000 | 5,921,730 | 5,465,000 | 14,455,147 | 14,970,721 | 4,873,928 | 3,817,249 | 2,268,709 | 2,263,698 |
| Oregon | 29,679,288 | 31,990,073 | 384,341 | 372,579 | 7,099,464 | 7,467,172 | 17,070,483 | 18,412,322 | 1,000,000 | 1,000,000 | 2,290,000 | 2,938,000 | 1,835,000 | 1,800,000 |

TABLE 8. State R&D expenditures, by state and function of R&D: FYs 2014–15
(Dollars)

| State | All R&D expenditures | | Agriculture | | Energy | | Environment and natural resources | | Health | | Transportation | | Other ^a | |
|--------------------------|----------------------|-------------|-------------|------------|-----------|-----------|-----------------------------------|------------|-------------|-------------|----------------|------------|--------------------|-----------|
| | 2014 | 2015 | 2014 | 2015 | 2014 | 2015 | 2014 | 2015 | 2014 | 2015 | 2014 | 2015 | 2014 | 2015 |
| Pennsylvania | 35,432,244 | 75,024,127 | 787,000 | 787,000 | 2,580,520 | 2,156,564 | 8,792,509 | 9,129,370 | 11,421,718 | 52,398,628 | 3,095,997 | 2,438,279 | 8,754,500 | 8,114,286 |
| Rhode Island | 3,225,472 | 2,594,978 | 0 | 0 | 2,000 | 1,200 | 861,501 | 869,042 | 305,066 | 179,946 | 1,576,999 | 1,436,793 | 479,906 | 107,997 |
| South Carolina | 22,311,739 | 27,419,285 | 534,646 | 498,748 | 56,129 | 163,885 | 17,608,196 | 23,516,239 | 461,758 | 152,441 | 1,594,110 | 2,160,647 | 2,056,900 | 927,325 |
| South Dakota | 5,067,005 | 4,211,838 | 3,219,622 | 2,928,142 | 3,779 | 26,862 | 45,000 | 20,000 | 0 | 0 | 1,798,604 | 1,236,834 | 0 | 0 |
| Tennessee | 4,363,565 | 3,828,567 | 0 | 0 | 0 | 0 | 583,092 | 571,871 | 0 | 0 | 3,780,473 | 3,256,696 | 0 | 0 |
| Texas | 162,287,552 | 185,094,332 | 3,557,354 | 808,544 | 0 | 0 | 13,206,103 | 14,491,269 | 131,883,911 | 149,991,410 | 13,640,184 | 19,803,109 | 0 | 0 |
| Utah | 36,466,790 | 38,168,197 | 1,688,670 | 2,035,321 | 2,076,936 | 4,835,743 | 17,125,000 | 18,245,765 | 8,226,438 | 8,531,383 | 2,293,133 | 1,470,900 | 5,056,613 | 3,049,085 |
| Vermont | 2,039,520 | 2,199,082 | 384,878 | 407,694 | 223,802 | 239,382 | 252,928 | 90,683 | 170,047 | 252,706 | 1,007,865 | 793,005 | 0 | 415,612 |
| Virginia | 38,456,410 | 43,615,877 | 730,636 | 1,120,676 | 5,789,258 | 6,263,600 | 9,034,190 | 9,600,341 | 6,113,236 | 6,250,104 | 12,779,955 | 17,554,526 | 4,009,135 | 2,826,630 |
| Washington | 38,277,525 | 36,918,558 | 8,689,311 | 10,120,251 | 148,000 | 0 | 9,118,095 | 9,698,425 | 11,904,246 | 8,364,171 | 5,450,000 | 5,450,000 | 2,967,873 | 3,285,711 |
| West Virginia | 9,705,200 | 11,481,903 | 0 | 0 | 857,387 | 820,450 | 290,580 | 313,483 | 220,000 | 200,000 | 20,000 | 2,193,922 | 8,317,233 | 7,954,048 |
| Wisconsin | 14,643,835 | 14,517,671 | 616,740 | 841,890 | 30,000 | 30,000 | 7,183,900 | 7,569,100 | 840,000 | 840,000 | 3,843,195 | 3,106,681 | 2,130,000 | 2,130,000 |
| Wyoming | 6,444,053 | 5,160,617 | 125,000 | 0 | 356,188 | 349,552 | 4,731,992 | 3,824,884 | 0 | 0 | 1,230,873 | 986,181 | 0 | 0 |
| Puerto Rico ^c | 6,569,500 | 5,673,544 | 550,000 | 683,157 | 422,494 | 400,000 | 205,623 | 150,000 | 4,036,171 | 3,123,280 | 560,000 | 560,000 | 795,212 | 757,107 |

^a Other functions include, but are not limited to, corrections, criminal justice, education, forensic science, labor, public safety, and social services.

^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.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FYs 2014 and 2015.

TABLE 9. State government expenditures for agriculture-related R&D, by state: FYs 2009–15

(Dollars)

| State | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|----------------------------|------------|------------|-------------|-------------|-------------|-------------|-------------|
| United States ^a | 86,768,692 | 97,130,255 | 100,532,829 | 120,358,888 | 120,516,191 | 129,028,757 | 127,363,440 |
| Alabama | 0 | 0 | 0 | 0 | 0 | 0 | 250,000 |
| Alaska | 15,000 | 687,500 | 713,500 | 99,934 | 750,856 | 217,231 | 217,141 |
| Arizona | 220,751 | 142,816 | 732,254 | 616,827 | 549,556 | 944,617 | 718,324 |
| Arkansas | 6,755,483 | 6,643,460 | 7,945,440 | 8,803,765 | 8,857,097 | 8,483,250 | 8,248,838 |
| California | 6,235,149 | 3,091,420 | 4,057,537 | 5,640,401 | 5,039,599 | 6,827,645 | 7,566,669 |
| Colorado | 416,336 | 826,517 | 583,117 | 0 | 50,000 | 316,549 | 373,735 |
| Connecticut | 1,237,590 | 3,259,642 | 3,326,548 | 3,256,124 | 3,314,695 | 3,920,767 | 4,228,545 |
| Delaware | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| District of Columbia | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Florida | 19,410,440 | 16,952,501 | 15,991,126 | 19,671,322 | 19,046,571 | 23,026,254 | 18,529,725 |
| Georgia | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hawaii | 233,394 | 505,967 | 914,799 | 1,516,064 | 1,516,064 | 80,000 | 60,000 |
| Idaho | 1,352,291 | 1,529,838 | 1,720,839 | 2,344,664 | 2,940,842 | 2,442,070 | 2,930,637 |
| Illinois | 18,096 | 0 | 0 | 0 | 0 | 0 | 139,697 |
| Indiana | 0 | 0 | 0 | 177,000 | 268,000 | 250,000 | 250,000 |
| Iowa | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kansas | 784,957 | 1,104,311 | 1,167,853 | 1,013,350 | 984,198 | 1,129,199 | 1,328,784 |
| Kentucky | 0 | 0 | 45,130 | 478,313 | 312,518 | 250,000 | 378,000 |
| Louisiana | 0 | 0 | 0 | 0 | 0 | 27,333 | 9,167 |
| Maine | 501,243 | 1,152,303 | 987,050 | 933,637 | 373,257 | 407,500 | 1,013,206 |
| Maryland | 336,650 | 228,000 | 451,700 | 300,000 | 384,771 | 200,000 | 200,000 |
| Massachusetts | 0 | 0 | 0 | 0 | 0 | 34,227 | 0 |
| Michigan | 206,282 | 36,910 | 82,793 | 493,895 | 548,396 | 3,190,880 | 3,150,111 |
| Minnesota | 987,608 | 1,301,382 | 1,387,590 | 1,721,463 | 1,981,417 | 2,725,197 | 2,938,310 |
| Mississippi | 0 | 0 | 0 | 0 | 0 | 84,209 | 0 |
| Missouri | 168,096 | 189,947 | 85,115 | 349,210 | 381,475 | 711,626 | 830,064 |
| Montana | 1,199,654 | 1,850,656 | 1,493,635 | 2,105,602 | 1,975,948 | 4,713,540 | 4,097,279 |
| Nebraska | 1,276,949 | 927,985 | 977,548 | 1,399,997 | 1,748,254 | 2,996,054 | 2,725,502 |
| Nevada | 0 | 0 | 0 | 0 | 0 | 10,000 | 0 |
| New Hampshire | 38,005 | 219,170 | 113,969 | 477,066 | 438,435 | 98,640 | 130,904 |
| New Jersey | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Mexico | 20,300,000 | 22,040,000 | 23,200,000 | 23,780,000 | 23,200,000 | 26,948,199 | 28,426,162 |
| New York | 1,869,720 | 2,117,582 | 1,779,089 | 1,748,998 | 1,383,413 | 1,823,801 | 2,166,324 |
| North Carolina | 10,568,425 | 12,625,716 | 12,878,500 | 17,944,847 | 17,947,847 | 12,239,391 | 12,050,000 |
| North Dakota | 935,619 | 1,444,526 | 2,014,848 | 2,521,725 | 2,475,547 | 2,504,192 | 2,674,205 |
| Ohio | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Oklahoma | 1,610,660 | 1,295,705 | 1,608,677 | 1,862,336 | 2,500,477 | 1,708,188 | 1,811,266 |
| Oregon | 134,857 | 489,631 | 532,446 | 218,038 | 290,595 | 384,341 | 372,579 |
| Pennsylvania | 852,734 | 755,736 | 640,671 | 1,512,706 | 2,033,013 | 787,000 | 787,000 |
| Rhode Island | 0 | 0 | 0 | 166,820 | 40,000 | 0 | 0 |
| South Carolina | 421,699 | 0 | 92,305 | 62,024 | 157,702 | 534,646 | 498,748 |
| South Dakota | 50,000 | 25,000 | 0 | 75,000 | 75,000 | 3,219,622 | 2,928,142 |
| Tennessee | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | 1,972,975 | 3,618,361 | 2,877,596 | 2,758,683 | 2,650,989 | 3,557,354 | 808,544 |
| Utah | 1,000,000 | 3,589 | 113,336 | 4,508,902 | 3,989,111 | 1,688,670 | 2,035,321 |
| Vermont | 0 | 490,900 | 652,700 | 503,308 | 538,173 | 384,878 | 407,694 |
| Virginia | 806,328 | 2,285,378 | 2,213,361 | 1,633,434 | 1,631,509 | 730,636 | 1,120,676 |
| Washington | 4,587,406 | 8,340,489 | 8,317,099 | 8,098,988 | 8,954,794 | 8,689,311 | 10,120,251 |
| West Virginia | 0 | 0 | 151,428 | 206,137 | 93,033 | 0 | 0 |

TABLE 9. State government expenditures for agriculture-related R&D, by state: FYs 2009–15

(Dollars)

| State | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|--------------------------|---------|---------|---------|---------|---------|---------|---------|
| Wisconsin | 0 | 770,721 | 536,004 | 864,399 | 640,941 | 616,740 | 841,890 |
| Wyoming | 264,295 | 176,596 | 147,226 | 493,909 | 452,098 | 125,000 | 0 |
| Puerto Rico ^b | 649,048 | 0 | 0 | 507,174 | 649,048 | 550,000 | 683,157 |

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

^b Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

NOTES: State R&D expenditures by function were surveyed beginning with the FY 2009 survey. State R&D totals can display considerable volatility between survey years due to several national and state-specific factors. Large changes are not unusual, especially for discretionary spending items such as R&D.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development.

TABLE 10. State government expenditures for energy-related R&D, by state: FYs 2009–15

(Dollars)

| State | 2009 ^a | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|----------------------------|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| United States ^b | NA | 229,684,238 | 268,045,943 | 241,005,588 | 194,780,008 | 120,229,416 | 312,114,377 |
| Alabama | NA | 988,806 | 1,279,672 | 788,212 | 509,974 | 386,692 | 688,913 |
| Alaska | NA | 1,359,100 | 1,301,000 | 1,438,817 | 1,799,951 | 35,860 | 53,202 |
| Arizona | NA | 267,174 | 1,702,776 | 6,243,529 | 7,630,643 | 1,547,000 | 658,000 |
| Arkansas | NA | 1,736,657 | 3,156,213 | 2,913,191 | 3,620,296 | 4,800,000 | 5,243,216 |
| California | NA | 105,072,000 | 95,975,000 | 75,756,774 | 55,577,129 | 18,393,000 | 194,354,000 |
| Colorado | NA | 1,464,536 | 409,252 | 313,762 | 254,860 | 1,934,715 | 2,241,216 |
| Connecticut | NA | 358,778 | 553,640 | 571,414 | 588,724 | 1,714,724 | 1,944,337 |
| Delaware | NA | 0 | 0 | 0 | 0 | 0 | 10,000 |
| District of Columbia | NA | 0 | 0 | 0 | 0 | 0 | 75,000 |
| Florida | NA | 3,571,447 | 4,158,768 | 8,476,266 | 990,320 | 355,629 | 1,117,124 |
| Georgia | NA | 1,000,000 | 1,200,000 | 800,000 | 0 | 3,096,465 | 3,148,268 |
| Hawaii | NA | 5,825,028 | 6,020,023 | 4,024,303 | 5,674,072 | 4,300,000 | 1,500,000 |
| Idaho | NA | 0 | 0 | 0 | 0 | 401,783 | 274,051 |
| Illinois | NA | 190,000 | 0 | 21,110 | 225,000 | 5,885,366 | 4,333,344 |
| Indiana | NA | 0 | 0 | 0 | 383,432 | 657,307 | 354,693 |
| Iowa | NA | 0 | 26,590,826 | 5,207,302 | 6,340,014 | 1,117,561 | 710,522 |
| Kansas | NA | 0 | 0 | 0 | 0 | 0 | 0 |
| Kentucky | NA | 4,256,458 | 3,372,112 | 4,809,927 | 5,976,089 | 2,403,100 | 2,173,000 |
| Louisiana | NA | 0 | 0 | 0 | 0 | 0 | 0 |
| Maine | NA | 5,000 | 5,000 | 821,675 | 480,594 | 415,000 | 986,000 |
| Maryland | NA | 40,000 | 25,000 | 300,000 | 300,000 | 200,000 | 200,000 |
| Massachusetts | NA | 0 | 0 | 0 | 0 | 2,640,446 | 4,998,471 |
| Michigan | NA | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | NA | 1,243,965 | 249,201 | 1,702,500 | 122,084 | 327,995 | 897,117 |
| Mississippi | NA | 1,550,000 | 1,250,000 | 0 | 0 | 22,914 | 1,739 |
| Missouri | NA | 0 | 0 | 0 | 0 | 0 | 0 |
| Montana | NA | 835,942 | 405,260 | 187,163 | 1,200 | 332,678 | 0 |
| Nebraska | NA | 5,000 | 10,000 | 196,427 | 236,100 | 100,000 | 0 |
| Nevada | NA | 0 | 0 | 0 | 0 | 0 | 0 |
| New Hampshire | NA | 0 | 0 | 0 | 0 | 0 | 0 |
| New Jersey | NA | 500,000 | 0 | 437,685 | 0 | 0 | 0 |
| New Mexico | NA | 2,280,000 | 2,400,000 | 2,460,000 | 2,457,083 | 2,796,200 | 2,978,000 |
| New York | NA | 29,744,916 | 45,608,891 | 41,789,076 | 27,061,407 | 31,242,349 | 40,787,626 |
| North Carolina | NA | 100,000 | 105,000 | 0 | 0 | 1,322,052 | 1,652,847 |
| North Dakota | NA | 4,153,800 | 5,200,850 | 2,778,935 | 3,931,762 | 6,858,556 | 5,705,731 |
| Ohio | NA | 41,236,142 | 47,150,392 | 62,348,681 | 52,267,399 | 6,472,561 | 11,048,550 |
| Oklahoma | NA | 387,401 | 149,201 | 330,000 | 323,800 | 1,246,000 | 1,625,000 |
| Oregon | NA | 175,000 | 50,000 | 0 | 0 | 7,099,464 | 7,467,172 |
| Pennsylvania | NA | 0 | 0 | 2,070,343 | 1,699,984 | 2,580,520 | 2,156,564 |
| Rhode Island | NA | 0 | 0 | 0 | 0 | 2,000 | 1,200 |
| South Carolina | NA | 863,890 | 871,078 | 484,124 | 251,410 | 56,129 | 163,885 |
| South Dakota | NA | 0 | 0 | 0 | 0 | 3,779 | 26,862 |
| Tennessee | NA | 0 | 35,764 | 6,553 | 0 | 0 | 0 |
| Texas | NA | 0 | 0 | 374,013 | 447,132 | 0 | 0 |
| Utah | NA | 7,375,546 | 7,209,348 | 4,125,214 | 4,558,744 | 2,076,936 | 4,835,743 |
| Vermont | NA | 300,000 | 300,000 | 167,769 | 179,391 | 223,802 | 239,382 |
| Virginia | NA | 10,301,835 | 8,564,304 | 8,321,652 | 10,400,000 | 5,789,258 | 6,263,600 |
| Washington | NA | 0 | 0 | 0 | 0 | 148,000 | 0 |
| West Virginia | NA | 2,495,817 | 2,737,372 | 102,719 | 159,332 | 857,387 | 820,450 |

TABLE 10. State government expenditures for energy-related R&D, by state: FYs 2009–15

(Dollars)

| State | 2009 ^a | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|--------------------------|-------------------|---------|---------|---------|---------|---------|---------|
| Wisconsin | NA | 0 | 0 | 250,000 | 150,000 | 30,000 | 30,000 |
| Wyoming | NA | 0 | 0 | 386,452 | 182,082 | 356,188 | 349,552 |
| Puerto Rico ^c | NA | 100,000 | 100,000 | 106,470 | 220,000 | 422,494 | 400,000 |

NA = not available; not collected as a separate R&D function for FY 2009.

^a Energy category was introduced with the FY 2010 and FY 2011 Survey of State Government Research and Development. Previously, energy-related R&D was reported primarily in Other and Environment and natural resources categories.

^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: State R&D expenditures by function were surveyed beginning with the FY 2009 survey. State R&D totals can display considerable volatility between survey years due to several national and state-specific factors. Large changes are not unusual, especially for discretionary spending items such as R&D.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development.

TABLE 11. State government expenditures for environment and natural resources-related R&D, by state: FYs 2009–15

(Dollars)

| State | 2009 ^a | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|----------------------------|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| United States ^b | 329,852,718 | 358,503,823 | 382,376,738 | 359,578,082 | 382,245,106 | 366,678,067 | 413,229,629 |
| Alabama | 7,694,078 | 8,922,103 | 13,521,133 | 12,879,773 | 9,984,291 | 4,106,869 | 5,718,986 |
| Alaska | 6,449,300 | 5,833,600 | 6,767,900 | 3,702,011 | 3,662,664 | 9,001,900 | 8,987,200 |
| Arizona | 6,356,155 | 6,023,906 | 5,743,162 | 5,327,071 | 6,689,903 | 6,184,876 | 7,012,194 |
| Arkansas | 345,832 | 658,590 | 680,971 | 707,557 | 942,106 | 0 | 303,087 |
| California | 48,172,325 | 30,914,302 | 43,443,294 | 26,096,846 | 30,615,059 | 28,842,415 | 30,382,163 |
| Colorado | 8,317,796 | 7,142,396 | 7,185,567 | 6,957,024 | 6,576,449 | 8,449,733 | 8,630,632 |
| Connecticut | 5,814,050 | 13,081,012 | 12,517,073 | 12,661,538 | 13,780,616 | 10,592,603 | 10,303,327 |
| Delaware | 1,433,562 | 2,139,720 | 2,359,902 | 2,231,693 | 2,754,545 | 1,988,655 | 2,048,014 |
| District of Columbia | 0 | 0 | 0 | 0 | 0 | 1,740,000 | 2,000,000 |
| Florida | 17,934,886 | 50,262,488 | 47,437,237 | 48,709,314 | 47,462,678 | 51,191,986 | 57,934,383 |
| Georgia | 0 | 0 | 0 | 2,607,843 | 3,999,505 | 2,584,180 | 3,062,308 |
| Hawaii | 4,497,068 | 5,229,835 | 5,607,794 | 4,533,302 | 4,484,602 | 6,929,035 | 7,849,438 |
| Idaho | 5,881,390 | 6,123,012 | 6,064,901 | 8,072,165 | 8,059,032 | 7,827,527 | 8,164,676 |
| Illinois | 56,800 | 0 | 0 | 0 | 0 | 0 | 0 |
| Indiana | 1,821,645 | 1,700,000 | 1,700,000 | 15,000 | 2,500 | 37,694 | 124,964 |
| Iowa | 0 | 7,074,696 | 3,640,397 | 3,278,552 | 3,517,000 | 4,135,147 | 4,279,253 |
| Kansas | 365,000 | 365,000 | 465,000 | 0 | 0 | 166,000 | 258,099 |
| Kentucky | 2,874,829 | 2,005,156 | 2,137,523 | 5,902,607 | 6,074,737 | 2,888,300 | 2,768,100 |
| Louisiana | 1,567,596 | 2,522,697 | 8,005,483 | 10,305,857 | 8,174,868 | 7,750,826 | 21,166,032 |
| Maine | 1,969,352 | 2,527,524 | 3,728,729 | 1,615,411 | 1,434,954 | 2,127,448 | 3,129,609 |
| Maryland | 6,853,050 | 390,000 | 616,000 | 963,777 | 947,472 | 1,191,164 | 3,070,807 |
| Massachusetts | 1,082,161 | 1,116,916 | 842,629 | 928,129 | 1,031,320 | 11,503,702 | 12,416,317 |
| Michigan | 2,320,826 | 4,792,530 | 4,595,080 | 3,164,059 | 4,582,027 | 3,561,675 | 4,025,524 |
| Minnesota | 1,566,712 | 1,813,748 | 794,167 | 673,544 | 1,662,951 | 2,678,015 | 3,562,237 |
| Mississippi | 2,105,823 | 3,634,374 | 3,295,081 | 1,458,268 | 1,562,376 | 917,631 | 566,320 |
| Missouri | 10,133,435 | 9,482,088 | 8,530,764 | 9,502,232 | 9,297,498 | 3,718,467 | 4,861,387 |
| Montana | 1,871,061 | 2,185,884 | 2,343,724 | 2,920,932 | 2,479,271 | 3,247,491 | 3,688,918 |
| Nebraska | 2,048,838 | 2,214,924 | 1,902,385 | 1,818,917 | 2,040,414 | 219,783 | 529,071 |
| Nevada | 0 | 32,942 | 47,582 | 46,905 | 45,408 | 170,494 | 192,802 |
| New Hampshire | 155,000 | 100,000 | 111,000 | 0 | 0 | 262,850 | 331,476 |
| New Jersey | 2,974,000 | 4,305,318 | 1,988,395 | 2,837,940 | 3,192,669 | 3,162,639 | 2,721,846 |
| New Mexico | 1,750,000 | 1,900,000 | 2,000,000 | 2,362,918 | 2,502,068 | 3,334,100 | 3,348,379 |
| New York | 36,911,399 | 29,002,576 | 19,416,212 | 25,121,628 | 23,232,954 | 23,806,153 | 21,640,818 |
| North Carolina | 20,919,615 | 5,076,664 | 6,817,285 | 3,011,692 | 3,136,983 | 2,864,841 | 2,901,909 |
| North Dakota | 587,710 | 22,500 | 15,000 | 0 | 0 | 825,000 | 825,000 |
| Ohio | 6,306,109 | 38,137,758 | 38,596,214 | 15,477,600 | 38,073,964 | 36,843,569 | 42,606,559 |
| Oklahoma | 2,552,285 | 1,631,015 | 2,505,761 | 2,248,062 | 4,765,208 | 5,921,730 | 5,465,000 |
| Oregon | 8,279,562 | 14,867,136 | 16,924,664 | 19,780,040 | 20,153,209 | 17,070,483 | 18,412,322 |
| Pennsylvania | 9,395,553 | 7,891,207 | 7,749,253 | 8,058,329 | 9,069,833 | 8,792,509 | 9,129,370 |
| Rhode Island | 446,347 | 401,045 | 590,282 | 927,489 | 1,059,308 | 861,501 | 869,042 |
| South Carolina | 25,183,342 | 34,711,576 | 45,163,028 | 46,038,125 | 36,316,203 | 17,608,196 | 23,516,239 |
| South Dakota | 2,311,292 | 1,638,739 | 1,628,888 | 1,894,989 | 1,774,517 | 45,000 | 20,000 |
| Tennessee | 0 | 0 | 320,000 | 856,000 | 866,500 | 583,092 | 571,871 |
| Texas | 24,750,247 | 6,351,022 | 4,805,152 | 5,492,140 | 6,428,787 | 13,206,103 | 14,491,269 |
| Utah | 6,149,899 | 6,329,203 | 7,943,186 | 17,978,580 | 18,312,681 | 17,125,000 | 18,245,765 |
| Vermont | 0 | 75,000 | 75,000 | 115,469 | 102,379 | 252,928 | 90,683 |
| Virginia | 4,005,964 | 3,947,713 | 3,829,525 | 4,874,529 | 5,709,773 | 9,034,190 | 9,600,341 |
| Washington | 6,993,436 | 10,782,537 | 11,087,560 | 10,712,941 | 10,953,130 | 9,118,095 | 9,698,425 |
| West Virginia | 1,804,769 | 1,818,077 | 1,873,514 | 1,501,719 | 1,611,130 | 290,580 | 313,483 |

TABLE 11. State government expenditures for environment and natural resources-related R&D, by state: FYs 2009–15
(Dollars)

| State | 2009 ^a | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|--------------------------|-------------------|-----------|------------|-----------|-----------|-----------|-----------|
| Wisconsin | 15,201,270 | 6,717,528 | 10,197,725 | 9,081,222 | 8,894,211 | 7,183,900 | 7,569,100 |
| Wyoming | 3,641,349 | 4,607,766 | 4,765,616 | 4,126,343 | 4,225,353 | 4,731,992 | 3,824,884 |
| Puerto Rico ^c | 136,021 | 100,000 | 100,000 | 201,685 | 244,845 | 205,623 | 150,000 |

^a Energy category was introduced with the FY 2010 and FY 2011 Survey of State Government Research and Development. Previously, energy-related R&D was reported primarily in Other and Environment and natural resources categories.

^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: State R&D expenditures by function were surveyed beginning with the FY 2009 survey. State R&D totals can display considerable volatility between survey years due to several national and state-specific factors. Large changes are not unusual, especially for discretionary spending items such as R&D.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development.

TABLE 12. State government expenditures for health-related R&D, by state: FYs 2009–15

(Dollars)

| State | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| United States ^a | 648,632,591 | 700,977,175 | 801,578,439 | 922,770,622 | 910,612,571 | 852,894,337 | 939,828,386 |
| Alabama | 0 | 0 | 0 | 0 | 0 | 1,000,000 | 2,829,600 |
| Alaska | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Arizona | 27,750 | 8,330,000 | 8,330,000 | 8,805,168 | 11,203,068 | 8,881,971 | 5,294,706 |
| Arkansas | 0 | 0 | 0 | 479,000 | 806,060 | 75,000 | 726,189 |
| California | 126,845,475 | 148,970,628 | 225,037,368 | 253,217,501 | 217,140,177 | 217,257,046 | 221,873,363 |
| Colorado | 4,029,968 | 8,527,268 | 6,759,774 | 5,131,657 | 4,261,796 | 1,640,750 | 1,248,410 |
| Connecticut | 17,730,124 | 19,337,597 | 18,783,202 | 19,510,447 | 19,239,333 | 20,966,024 | 28,803,862 |
| Delaware | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| District of Columbia | 487,411 | 503,267 | 956,728 | 656,448 | 861,058 | 563,442 | 174,578 |
| Florida | 18,478,377 | 39,962,706 | 65,570,757 | 47,079,479 | 38,775,780 | 67,376,045 | 102,896,382 |
| Georgia | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hawaii | 0 | 0 | 0 | 190,000 | 190,000 | 0 | 0 |
| Idaho | 0 | 0 | 0 | 0 | 0 | 30,226 | 130,045 |
| Illinois | 4,107,400 | 2,596,733 | 680,013 | 4,383,094 | 3,550,718 | 1,433,534 | 2,552,945 |
| Indiana | 20,304,740 | 0 | 0 | 135,000 | 708,497 | 10,000,000 | 0 |
| Iowa | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kansas | 1,040,411 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kentucky | 3,150,948 | 7,371,306 | 7,136,813 | 4,695,084 | 4,793,049 | 4,461,800 | 4,534,000 |
| Louisiana | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Maine | 1,187,173 | 349,014 | 1,082,201 | 414,740 | 1,115,608 | 1,040,000 | 2,210,000 |
| Maryland | 8,801,328 | 17,699,478 | 13,611,823 | 17,851,235 | 24,603,993 | 26,800,000 | 20,500,000 |
| Massachusetts | 2,208,037 | 2,130,489 | 2,045,865 | 2,990,371 | 3,559,104 | 4,081,553 | 5,249,751 |
| Michigan | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | 0 | 0 | 0 | 0 | 0 | 2,500,000 | 2,500,000 |
| Mississippi | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Missouri | 0 | 0 | 0 | 0 | 0 | 21,534 | 48,741 |
| Montana | 822,627 | 822,299 | 848,774 | 202,778 | 39,483 | 577,157 | 642,384 |
| Nebraska | 35,043 | 97,864 | 48,482 | 256,068 | 245,250 | 1,400,000 | 312,977 |
| Nevada | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Hampshire | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Jersey | 17,709,498 | 26,514,169 | 20,337,742 | 23,299,300 | 27,235,551 | 23,534,704 | 27,235,340 |
| New Mexico | 8,400,000 | 9,120,000 | 9,600,000 | 9,840,000 | 9,600,000 | 10,741,900 | 11,312,600 |
| New York | 280,837,508 | 283,069,421 | 282,851,404 | 277,519,794 | 270,756,889 | 257,001,469 | 244,407,831 |
| North Carolina | 0 | 50,000 | 50,000 | 0 | 0 | 0 | 7,966,618 |
| North Dakota | 100,000 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ohio | 41,320,535 | 19,731,000 | 13,231,000 | 12,112,168 | 9,039,545 | 4,508,615 | 3,246,554 |
| Oklahoma | 5,796,835 | 5,049,251 | 5,478,209 | 12,107,346 | 14,185,074 | 14,455,147 | 14,970,721 |
| Oregon | 0 | 0 | 0 | 0 | 0 | 1,000,000 | 1,000,000 |
| Pennsylvania | 66,341,905 | 70,998,595 | 59,182,594 | 56,902,179 | 44,055,514 | 11,421,718 | 52,398,628 |
| Rhode Island | 984,944 | 776,356 | 912,363 | 400,000 | 0 | 305,066 | 179,946 |
| South Carolina | 0 | 1,151,294 | 1,794,228 | 1,444,209 | 1,176,021 | 461,758 | 152,441 |
| South Dakota | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | 123,000 | 123,000 | 15,838,498 | 115,648,847 | 155,001,396 | 131,883,911 | 149,991,410 |
| Utah | 10,409,824 | 12,853,867 | 14,602,894 | 18,745,639 | 24,346,306 | 8,226,438 | 8,531,383 |
| Vermont | 0 | 132,198 | 190,117 | 160,853 | 170,780 | 170,047 | 252,706 |
| Virginia | 1,560,000 | 611,496 | 4,370,815 | 4,273,179 | 1,806,000 | 6,113,236 | 6,250,104 |
| Washington | 2,418,730 | 13,547,879 | 20,997,880 | 22,801,588 | 19,586,521 | 11,904,246 | 8,364,171 |
| West Virginia | 0 | 0 | 0 | 0 | 0 | 220,000 | 200,000 |

TABLE 12. State government expenditures for health-related R&D, by state: FYs 2009–15

(Dollars)

| State | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Wisconsin | 3,373,000 | 550,000 | 1,248,895 | 1,517,450 | 2,560,000 | 840,000 | 840,000 |
| Wyoming | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Puerto Rico ^b | 6,599,988 | 3,050,000 | 3,250,000 | 6,259,429 | 5,695,724 | 4,036,171 | 3,123,280 |

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

^b Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

NOTES: State R&D expenditures by function were surveyed beginning with the FY 2009 survey. State R&D totals can display considerable volatility between survey years due to several national and state-specific factors. Large changes are not unusual, especially for discretionary spending items such as R&D.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development.

TABLE 13. State government expenditures for transportation-related R&D, by state: FYs 2009–15

(Dollars)

| State | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| United States ^a | 242,984,805 | 248,082,194 | 266,300,923 | 252,890,334 | 266,314,142 | 253,299,125 | 247,779,544 |
| Alabama | 3,485,318 | 4,730,116 | 4,407,856 | 3,348,079 | 2,654,296 | 7,237,806 | 9,255,656 |
| Alaska | 1,277,167 | 1,394,600 | 2,567,000 | 227,182 | 475,913 | 2,776,684 | 2,000,660 |
| Arizona | 2,624,700 | 2,175,550 | 1,756,700 | 1,817,300 | 1,737,800 | 1,261,685 | 1,258,900 |
| Arkansas | 881,000 | 1,064,332 | 927,990 | 2,057,208 | 1,915,324 | 1,269,000 | 1,486,000 |
| California | 40,057,000 | 38,136,000 | 37,445,000 | 36,897,000 | 35,038,000 | 35,560,150 | 35,201,005 |
| Colorado | 1,424,481 | 1,930,506 | 2,270,155 | 1,623,980 | 2,338,837 | 2,099,101 | 1,881,210 |
| Connecticut | 3,777,288 | 4,028,757 | 4,011,628 | 4,018,000 | 4,100,000 | 3,936,126 | 5,409,867 |
| Delaware | 250,000 | 250,000 | 250,000 | 2,404,027 | 1,974,596 | 255,213 | 141,621 |
| District of Columbia | 0 | 192,931 | 264,380 | 1,361,999 | 987,742 | 754,327 | 828,377 |
| Florida | 9,830,053 | 9,804,294 | 15,645,022 | 11,836,984 | 10,300,582 | 15,054,989 | 11,121,055 |
| Georgia | 4,162,887 | 7,723,795 | 10,290,663 | 9,012,569 | 8,698,341 | 6,095,576 | 3,842,272 |
| Hawaii | 2,339,180 | 2,672,356 | 561,367 | 881,851 | 1,230,056 | 1,148,448 | 1,338,452 |
| Idaho | 1,318,377 | 1,406,718 | 1,580,312 | 1,368,700 | 1,929,300 | 2,161,329 | 1,436,567 |
| Illinois | 5,369,057 | 7,066,133 | 9,287,308 | 7,354,832 | 8,719,083 | 9,517,493 | 9,602,367 |
| Indiana | 4,000,000 | 5,616,545 | 4,074,838 | 6,927,051 | 8,444,691 | 10,584,435 | 7,483,614 |
| Iowa | 6,463,700 | 5,770,000 | 6,050,000 | 7,638,920 | 9,485,810 | 4,581,695 | 5,829,951 |
| Kansas | 7,416,636 | 5,039,914 | 5,002,773 | 5,147,330 | 4,724,025 | 3,923,777 | 3,749,587 |
| Kentucky | 4,228,240 | 4,042,181 | 4,425,113 | 3,324,600 | 1,964,500 | 5,769,400 | 6,294,300 |
| Louisiana | 6,717,882 | 6,642,447 | 6,396,052 | 6,975,472 | 6,965,116 | 11,000,000 | 11,000,000 |
| Maine | 563,379 | 709,306 | 505,860 | 354,463 | 521,444 | 868,000 | 1,003,000 |
| Maryland | 2,209,280 | 3,167,924 | 4,080,017 | 1,928,111 | 1,778,080 | 1,590,096 | 882,171 |
| Massachusetts | 0 | 1,637,025 | 1,504,260 | 0 | 0 | 0 | 0 |
| Michigan | 6,103,101 | 4,640,000 | 5,125,000 | 8,900,000 | 7,700,000 | 5,500,000 | 5,500,000 |
| Minnesota | 13,908,648 | 7,853,451 | 9,222,369 | 7,427,179 | 11,089,502 | 11,147,618 | 11,558,082 |
| Mississippi | 1,518,130 | 1,883,735 | 2,463,770 | 4,801,812 | 3,300,936 | 288,622 | 212,557 |
| Missouri | 5,495,716 | 3,657,806 | 5,043,082 | 3,190,008 | 3,372,137 | 3,985,039 | 4,066,030 |
| Montana | 876,558 | 917,662 | 1,168,956 | 1,418,422 | 2,061,516 | 1,418,000 | 1,663,000 |
| Nebraska | 1,014,814 | 986,918 | 1,123,236 | 1,647,512 | 1,721,453 | 1,708,434 | 1,810,483 |
| Nevada | 1,510,607 | 1,048,465 | 1,393,048 | 1,119,857 | 1,595,463 | 3,257,663 | 2,914,364 |
| New Hampshire | 1,167,264 | 1,009,986 | 1,196,452 | 1,380,083 | 1,226,961 | 786,600 | 844,700 |
| New Jersey | 4,153,340 | 6,570,052 | 5,542,644 | 3,243,333 | 3,985,296 | 3,687,478 | 3,798,842 |
| New Mexico | 2,355,529 | 2,182,955 | 2,621,583 | 1,761,856 | 2,049,365 | 2,685,017 | 2,787,035 |
| New York | 12,445,993 | 13,024,897 | 12,191,046 | 6,071,256 | 12,838,391 | 9,321,647 | 6,850,569 |
| North Carolina | 9,000,000 | 9,225,000 | 9,500,000 | 8,884,000 | 6,548,000 | 5,688,066 | 5,534,981 |
| North Dakota | 963,611 | 598,349 | 578,559 | 569,931 | 584,875 | 596,824 | 407,000 |
| Ohio | 10,308,223 | 13,111,393 | 17,281,878 | 20,745,056 | 22,035,664 | 16,507,471 | 10,142,447 |
| Oklahoma | 3,818,308 | 3,845,728 | 4,101,968 | 2,497,372 | 4,030,997 | 4,873,928 | 3,817,249 |
| Oregon | 2,705,721 | 2,481,963 | 2,494,162 | 2,004,957 | 2,639,702 | 2,290,000 | 2,938,000 |
| Pennsylvania | 5,815,684 | 2,979,258 | 3,919,294 | 4,034,828 | 3,842,683 | 3,095,997 | 2,438,279 |
| Rhode Island | 446,433 | 283,838 | 445,082 | 334,093 | 541,470 | 1,576,999 | 1,436,793 |
| South Carolina | 2,476,225 | 1,384,632 | 1,581,676 | 1,967,442 | 1,942,501 | 1,594,110 | 2,160,647 |
| South Dakota | 2,069,310 | 2,098,898 | 2,000,267 | 1,477,644 | 1,811,337 | 1,798,604 | 1,236,834 |
| Tennessee | 3,752,587 | 1,064,262 | 3,286,726 | 3,369,468 | 2,505,628 | 3,780,473 | 3,256,696 |
| Texas | 22,535,124 | 25,071,272 | 23,851,121 | 22,715,697 | 20,671,237 | 13,640,184 | 19,803,109 |
| Utah | 800,000 | 2,600,000 | 2,600,000 | 2,030,000 | 2,430,000 | 2,293,133 | 1,470,900 |
| Vermont | 738,707 | 666,981 | 493,856 | 705,916 | 836,839 | 1,007,865 | 793,005 |
| Virginia | 9,443,286 | 8,931,272 | 8,469,431 | 9,974,446 | 14,128,627 | 12,779,955 | 17,554,526 |
| Washington | 2,285,130 | 5,402,675 | 5,095,830 | 4,893,607 | 4,257,879 | 5,450,000 | 5,450,000 |
| West Virginia | 950,000 | 5,100,000 | 5,583,425 | 2,518,000 | 2,729,000 | 20,000 | 2,193,922 |

TABLE 13. State government expenditures for transportation-related R&D, by state: FYs 2009–15

(Dollars)

| State | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Wisconsin | 5,030,145 | 3,572,299 | 4,115,612 | 4,828,319 | 6,215,294 | 3,843,195 | 3,106,681 |
| Wyoming | 900,986 | 687,017 | 506,556 | 1,872,582 | 1,637,853 | 1,230,873 | 986,181 |
| Puerto Rico ^b | 200,000 | 180,000 | 180,000 | 200,000 | 200,000 | 560,000 | 560,000 |

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

^b Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

NOTES: State R&D expenditures by function were surveyed beginning with the FY 2009 survey. State R&D totals can display considerable volatility between survey years due to several national and state-specific factors. Large changes are not unusual, especially for discretionary spending items such as R&D.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development.

TABLE 14. State government R&D expenditures for other functions not separately identified, by state: FYs 2009–15

(Dollars)

| State | 2009 ^a | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|----------------------------|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| United States ^b | 328,244,437 | 144,920,206 | 196,003,452 | 170,856,778 | 177,751,245 | 163,793,619 | 164,831,237 |
| Alabama | 1,749,771 | 472,892 | 475,402 | 336,920 | 144,180 | 5,801,167 | 5,743,808 |
| Alaska | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Arizona | 134,587 | 742,869 | 361,685 | 0 | 0 | 0 | 0 |
| Arkansas | 3,482,899 | 4,343,045 | 1,994,713 | 557,653 | 378,064 | 367,653 | 635,381 |
| California | 78,620,000 | 2,798,033 | 1,657,802 | 3,914,236 | 3,532,072 | 15,078,629 | 10,694,395 |
| Colorado | 661,000 | 937,051 | 934,066 | 902,386 | 989,741 | 1,304,741 | 1,945,853 |
| Connecticut | 0 | 0 | 0 | 0 | 0 | 6,275,000 | 5,126,590 |
| Delaware | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| District of Columbia | 0 | 0 | 0 | 0 | 0 | 78,502 | 138,118 |
| Florida | 860,000 | 295,290 | 1,961,528 | 933,175 | 2,205,335 | 0 | 0 |
| Georgia | 2,500,000 | 200,000 | 200,000 | 400,000 | 0 | 0 | 0 |
| Hawaii | 6,906,722 | 0 | 0 | 0 | 0 | 667,972 | 773,071 |
| Idaho | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Illinois | 19,540 | 6,700,823 | 7,239,804 | 6,100,402 | 5,504,428 | 8,151,913 | 14,189,053 |
| Indiana | 21,423,543 | 1,128,287 | 1,208,526 | 413,937 | 360,000 | 2,061,287 | 1,773,787 |
| Iowa | 31,512,943 | 105,480 | 710,999 | 22,475 | 22,484 | 522,607 | 457,808 |
| Kansas | 2,698,381 | 0 | 0 | 0 | 0 | 107,479 | 132,582 |
| Kentucky | 3,684,117 | 2,734,995 | 3,382,158 | 675,726 | 630,162 | 984,267 | 1,109,096 |
| Louisiana | 0 | 0 | 577,544 | 862,067 | 573,126 | 0 | 0 |
| Maine | 2,178,872 | 4,104,324 | 3,609,925 | 2,954,810 | 2,183,936 | 2,000,000 | 4,268,000 |
| Maryland | 2,893,023 | 1,300,000 | 1,300,000 | 547,102 | 1,453,129 | 0 | 0 |
| Massachusetts | 0 | 0 | 486,173 | 0 | 0 | 0 | 0 |
| Michigan | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minnesota | 192,945 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mississippi | 0 | 100,000 | 412,000 | 0 | 0 | 0 | 0 |
| Missouri | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Montana | 2,430,542 | 931,417 | 213,841 | 7,000 | 12,600 | 139,144 | 271,145 |
| Nebraska | 40,000 | 0 | 0 | 1,048,383 | 1,282,862 | 197,500 | 97,387 |
| Nevada | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Hampshire | 500,000 | 475,000 | 500,000 | 384,000 | 123,000 | 300,000 | 300,000 |
| New Jersey | 310,000 | 750,000 | 0 | 0 | 0 | 0 | 0 |
| New Mexico | 3,850,000 | 1,900,000 | 2,000,000 | 2,588,787 | 2,207,445 | 3,300,500 | 3,450,800 |
| New York | 43,358,014 | 34,300,000 | 43,500,000 | 29,975,639 | 46,870,153 | 48,029,330 | 49,698,758 |
| North Carolina | 916,162 | 265,000 | 261,000 | 2,689,346 | 3,017,144 | 0 | 3,896,029 |
| North Dakota | 13,828,867 | 133,500 | 263,000 | 164,400 | 372,000 | 0 | 0 |
| Ohio | 63,460,096 | 12,904,375 | 43,062,744 | 42,699,340 | 66,895,354 | 30,550,059 | 27,255,184 |
| Oklahoma | 2,152,790 | 9,017,136 | 6,460,924 | 4,088,727 | 2,419,202 | 2,268,709 | 2,263,698 |
| Oregon | 0 | 0 | 0 | 0 | 0 | 1,835,000 | 1,800,000 |
| Pennsylvania | 13,490,838 | 5,289,000 | 4,000,000 | 8,021,714 | 5,728,373 | 8,754,500 | 8,114,286 |
| Rhode Island | 0 | 0 | 0 | 200,000 | 0 | 479,906 | 107,997 |
| South Carolina | 518,619 | 33,179,054 | 35,190,338 | 22,471,369 | 7,888,340 | 2,056,900 | 927,325 |
| South Dakota | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee | 0 | 0 | 0 | 61,313 | 58,348 | 0 | 0 |
| Texas | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Utah | 8,082,988 | 1,650,000 | 1,950,000 | 0 | 0 | 5,056,613 | 3,049,085 |
| Vermont | 0 | 0 | 0 | 0 | 0 | 0 | 415,612 |
| Virginia | 6,846,941 | 2,883,797 | 1,928,981 | 4,218,088 | 2,342,026 | 4,009,135 | 2,826,630 |
| Washington | 0 | 0 | 0 | 3,046,202 | 3,370,552 | 2,967,873 | 3,285,711 |
| West Virginia | 7,602,237 | 14,453,838 | 25,129,599 | 29,251,581 | 14,435,189 | 8,317,233 | 7,954,048 |

TABLE 14. State government R&D expenditures for other functions not separately identified, by state: FYs 2009–15

(Dollars)

| State | 2009 ^a | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|--------------------------|-------------------|---------|-----------|-----------|-----------|-----------|-----------|
| Wisconsin | 1,338,000 | 825,000 | 5,030,700 | 1,320,000 | 2,752,000 | 2,130,000 | 2,130,000 |
| Wyoming | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Puerto Rico ^c | 1,731,697 | 601,391 | 587,869 | 350,654 | 940,348 | 795,212 | 757,107 |

^a Energy category was introduced with the FY 2010 and FY 2011 Survey of State Government Research and Development. Previously, energy-related R&D was reported primarily in Other and Environment and natural resources categories.

^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: State R&D expenditures by function were surveyed beginning with the FY 2009 survey. State R&D totals can display considerable volatility between survey years due to several national and state-specific factors. Large changes are not unusual, especially for discretionary spending items such as R&D. Other R&D functions include, but are not limited to, corrections, criminal justice, education, forensic science, labor, public safety, and social services.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development.

TABLE 15. State government expenditures for R&D funded from federal sources, by state: FYs 2006–15

(Dollars)

| State | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|----------------------------|-------------|-------------|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| United States ^a | 255,400,683 | 279,267,900 | NA | 427,193,729 | 535,196,259 | 566,896,209 | 541,892,652 | 525,458,601 | 482,439,349 | 483,983,700 |
| Alabama | 3,636,117 | 4,968,557 | NA | 8,118,750 | 11,332,512 | 12,632,066 | 12,966,760 | 6,682,218 | 7,543,639 | 8,931,316 |
| Alaska | 5,647,941 | 4,945,800 | NA | 2,956,434 | 2,766,100 | 4,548,900 | 206,004 | 395,154 | 3,871,691 | 2,812,832 |
| Arizona | 5,659,756 | 5,436,201 | NA | 6,302,846 | 7,013,167 | 8,138,077 | 12,004,585 | 14,307,201 | 8,490,200 | 8,321,298 |
| Arkansas | 2,066,318 | 1,224,152 | NA | 3,578,975 | 2,473,992 | 4,465,149 | 8,031,452 | 8,588,120 | 5,015,200 | 6,238,800 |
| California | 27,867,854 | 13,491,703 | NA | 21,031,780 | 23,698,863 | 21,016,057 | 22,646,488 | 20,235,896 | 19,504,949 | 20,343,864 |
| Colorado | 4,044,780 | 4,684,285 | NA | 4,612,094 | 6,363,519 | 5,930,771 | 5,170,087 | 6,017,553 | 4,133,204 | 3,668,094 |
| Connecticut | 6,735,926 | 6,906,959 | NA | 6,507,528 | 11,067,425 | 11,158,166 | 11,904,666 | 13,751,916 | 12,150,832 | 13,036,055 |
| Delaware | 277,211 | 844,200 | NA | 566,184 | 796,963 | 847,732 | 1,687,502 | 1,684,136 | 691,432 | 862,471 |
| District of Columbia | 938,460 | 1,621,000 | NA | 487,411 | 657,612 | 1,168,232 | 1,712,507 | 1,467,091 | 1,277,405 | 1,035,397 |
| Florida | 9,887,481 | 9,439,483 | NA | 13,605,050 | 27,629,492 | 26,588,661 | 26,701,503 | 25,537,040 | 25,536,046 | 22,302,689 |
| Georgia | 5,545,780 | 2,763,180 | NA | 2,918,071 | 5,018,230 | 6,919,140 | 8,600,759 | 10,454,723 | 10,548,856 | 8,055,609 |
| Hawaii | 8,578,749 | 17,593,176 | NA | 10,716,399 | 11,483,268 | 10,343,631 | 8,180,435 | 9,594,181 | 9,214,342 | 6,940,018 |
| Idaho | 652,451 | 1,276,787 | NA | 3,986,193 | 4,716,185 | 4,925,050 | 6,959,273 | 7,971,555 | 8,208,360 | 7,130,703 |
| Illinois | 1,521,332 | 1,990,000 | NA | 3,414,851 | 4,851,170 | 7,033,966 | 5,421,531 | 6,176,896 | 7,032,929 | 6,913,774 |
| Indiana | 4,428,024 | 4,017,815 | NA | 4,681,045 | 6,559,869 | 5,428,287 | 6,187,545 | 7,252,510 | 9,738,835 | 7,358,178 |
| Iowa | 4,388,234 | 2,424,713 | NA | 1,949,200 | 4,210,203 | 3,391,265 | 3,370,143 | 3,960,205 | 5,481,288 | 5,615,415 |
| Kansas | 4,864,624 | 4,107,233 | NA | 5,619,610 | 3,625,557 | 3,675,258 | 3,356,770 | 2,983,235 | 2,360,850 | 2,138,068 |
| Kentucky | 6,823,866 | 6,315,996 | NA | 4,755,197 | 5,263,230 | 5,873,846 | 6,170,250 | 4,316,909 | 6,866,569 | 7,335,717 |
| Louisiana | 6,382,762 | 4,125,505 | NA | 4,539,936 | 4,929,033 | 5,536,833 | 7,295,467 | 7,412,982 | 9,900,000 | 10,012,449 |
| Maine | 0 | 65,000 | NA | 1,304,294 | 1,836,035 | 2,439,296 | 1,167,751 | 1,158,805 | 2,038,174 | 2,952,778 |
| Maryland | 5,053,001 | 7,228,749 | NA | 4,234,200 | 1,643,939 | 1,551,214 | 1,888,327 | 1,944,190 | 1,782,810 | 1,649,862 |
| Massachusetts | 1,125,989 | 1,200,525 | NA | 379,847 | 814,609 | 1,209,020 | 1,328,828 | 1,803,176 | 5,480,624 | 6,490,647 |
| Michigan | 4,127,849 | 3,910,171 | NA | 6,054,036 | 6,885,798 | 7,110,347 | 8,187,688 | 8,454,896 | 8,417,785 | 8,346,295 |
| Minnesota | 2,002,686 | 3,083,506 | NA | 4,864,789 | 3,457,202 | 3,782,840 | 3,718,840 | 3,652,840 | 4,827,540 | 4,814,486 |
| Mississippi | 2,285,202 | 6,272,085 | NA | 2,926,523 | 5,671,257 | 5,454,392 | 5,174,275 | 3,937,121 | 971,637 | 618,485 |
| Missouri | 5,473,754 | 4,962,973 | NA | 5,556,085 | 3,161,177 | 4,103,709 | 3,702,943 | 3,521,812 | 4,488,514 | 5,556,141 |
| Montana | 2,913,589 | 1,837,440 | NA | 2,249,403 | 2,659,895 | 2,868,954 | 2,907,039 | 3,463,568 | 3,254,014 | 3,672,296 |
| Nebraska | 1,940,130 | 1,275,191 | NA | 1,162,077 | 878,999 | 1,071,515 | 1,900,163 | 1,973,878 | 1,607,015 | 1,668,537 |
| Nevada | 505,000 | 1,115,700 | NA | 1,242,142 | 688,933 | 320,608 | 469,512 | 1,001,898 | 2,771,066 | 2,515,000 |
| New Hampshire | 1,793,026 | 1,599,228 | NA | 937,998 | 896,396 | 1,081,852 | 1,302,649 | 1,071,409 | 959,521 | 1,113,769 |
| New Jersey | 2,927,179 | 4,040,714 | NA | 4,293,720 | 3,735,882 | 4,387,432 | 3,628,894 | 3,989,987 | 3,453,756 | 4,041,326 |
| New Mexico | 0 | 538,337 | NA | 1,324,423 | 1,072,611 | 1,443,195 | 1,434,849 | 1,592,483 | 2,086,119 | 1,966,767 |
| New York | 11,175,919 | 7,858,707 | NA | 160,779,049 | 175,534,885 | 174,021,455 | 156,066,229 | 154,054,612 | 162,053,306 | 150,683,260 |
| North Carolina | 8,043,625 | 13,118,979 | NA | 8,477,435 | 10,223,740 | 11,187,114 | 7,904,917 | 6,075,886 | 6,418,931 | 15,605,925 |
| North Dakota | 5,957,704 | 3,713,936 | NA | 1,895,456 | 575,654 | 557,822 | 540,086 | 564,878 | 1,199,176 | 1,020,728 |
| Ohio | 8,767,534 | 8,253,286 | NA | 5,141,853 | 3,351,457 | 4,455,517 | 6,415,795 | 10,584,324 | 6,979,454 | 6,437,833 |
| Oklahoma | 643,333 | 3,296,216 | NA | 5,120,111 | 5,229,705 | 6,138,385 | 5,283,506 | 8,289,178 | 8,986,041 | 7,578,340 |
| Oregon | 2,245,190 | 2,470,211 | NA | 3,957,639 | 12,870,466 | 14,753,575 | 17,582,132 | 16,942,402 | 9,815,170 | 10,390,644 |

TABLE 15. State government expenditures for R&D funded from federal sources, by state: FYs 2006–15

(Dollars)

| State | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|--------------------------|------------|------------|------|------------|------------|------------|------------|------------|------------|------------|
| Pennsylvania | 4,278,736 | 5,321,876 | NA | 5,975,911 | 5,882,402 | 6,652,868 | 6,442,990 | 6,002,259 | 5,353,083 | 4,830,151 |
| Rhode Island | 150,000 | 403,939 | NA | 396,154 | 281,728 | 515,480 | 487,305 | 664,190 | 1,251,398 | 1,114,694 |
| South Carolina | 19,731,986 | 29,773,259 | NA | 22,877,576 | 59,873,605 | 71,204,639 | 59,056,716 | 33,931,311 | 16,290,802 | 20,114,487 |
| South Dakota | 3,011,796 | 3,847,153 | NA | 3,522,778 | 3,145,143 | 2,882,410 | 2,618,318 | 2,840,315 | 1,427,976 | 1,003,921 |
| Tennessee | 4,658,000 | 3,638,000 | NA | 3,002,070 | 851,410 | 2,985,145 | 3,594,115 | 2,906,011 | 3,368,748 | 2,903,575 |
| Texas | 20,318,659 | 19,853,357 | NA | 22,174,250 | 21,943,248 | 21,488,561 | 20,949,356 | 20,382,696 | 17,280,822 | 21,106,336 |
| Utah | 1,800,000 | 1,880,823 | NA | 5,593,015 | 20,724,230 | 20,687,819 | 21,153,987 | 25,727,343 | 755,484 | 1,077,198 |
| Vermont | 1,282,280 | 783,845 | NA | 610,565 | 1,100,865 | 1,184,957 | 1,121,698 | 1,240,063 | 1,583,729 | 1,183,900 |
| Virginia | 6,387,630 | 9,427,028 | NA | 11,409,211 | 9,370,939 | 9,735,857 | 9,710,044 | 8,149,554 | 12,583,339 | 12,782,781 |
| Washington | 7,728,621 | 8,091,640 | NA | 5,925,432 | 9,841,190 | 9,420,257 | 8,462,965 | 8,292,342 | 11,078,789 | 12,398,340 |
| West Virginia | 2,663,801 | 5,008,707 | NA | 3,733,032 | 7,830,732 | 6,157,841 | 8,139,084 | 7,256,479 | 4,572,114 | 7,720,174 |
| Wisconsin | 4,772,502 | 6,316,820 | NA | 8,656,553 | 7,890,044 | 15,611,863 | 9,632,605 | 13,741,242 | 9,388,919 | 9,471,310 |
| Wyoming | 1,688,296 | 10,903,754 | NA | 1,068,548 | 815,693 | 809,183 | 1,345,319 | 1,457,932 | 2,346,866 | 2,100,967 |
| Puerto Rico ^b | 103,503 | 0 | NA | 4,946,080 | 1,702,000 | 1,850,000 | 4,070,151 | 3,931,918 | 1,489,553 | 1,561,588 |

NA = not available; survey was not conducted for FY 2008.

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

^b Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

NOTES: State R&D totals can display considerable volatility between survey years due to several national and state-specific factors. Large changes are not unusual, especially for discretionary spending items such as R&D.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development.

TABLE 16. State government expenditures for R&D funded from federal sources, by state and federal agency: FY 2014

(Dollars)

| State | Total federal | USDA | DOC | DOD | DOE | HHS | DOI | DOT | EPA | NSF | Other ^a |
|----------------------------|---------------|------------|------------|-----------|------------|-------------|------------|-------------|-----------|-----------|--------------------|
| United States ^b | 482,439,349 | 18,778,281 | 24,544,168 | 9,985,120 | 11,479,128 | 140,896,648 | 79,816,404 | 167,558,983 | 5,906,065 | 9,102,482 | 14,372,070 |
| Alabama | 7,543,639 | 0 | 448,210 | 53,635 | 217,360 | 105,991 | 397,338 | 5,801,755 | 74,956 | 427,687 | 16,707 |
| Alaska | 3,871,691 | 107,458 | 0 | 0 | 0 | 0 | 1,403,900 | 2,360,333 | 0 | 0 | 0 |
| Arizona | 8,490,200 | 814,521 | 0 | 0 | 1,600,000 | 0 | 4,090,001 | 1,009,348 | 0 | 976,330 | 0 |
| Arkansas | 5,015,200 | 0 | 0 | 0 | 0 | 0 | 0 | 1,015,200 | 0 | 4,000,000 | 0 |
| California | 19,504,949 | 43,034 | 291,688 | 0 | 0 | 682,402 | 0 | 18,317,325 | 21,000 | 0 | 149,500 |
| Colorado | 4,133,204 | 29,400 | 0 | 0 | 0 | 0 | 2,053,031 | 1,871,032 | 0 | 0 | 179,741 |
| Connecticut | 12,150,832 | 3,243,478 | 0 | 0 | 0 | 1,285,356 | 5,484,968 | 1,812,745 | 121,587 | 202,698 | 0 |
| Delaware | 691,432 | 0 | 222,854 | 0 | 0 | 0 | 189,502 | 135,956 | 0 | 54,228 | 88,892 |
| District of Columbia | 1,277,405 | 0 | 0 | 0 | 0 | 563,442 | 0 | 635,461 | 0 | 0 | 78,502 |
| Florida | 25,536,046 | 3,210,861 | 4,437,599 | 0 | 57,644 | 690,829 | 7,456,945 | 9,675,881 | 0 | 0 | 6,287 |
| Georgia | 10,548,856 | 0 | 0 | 0 | 3,096,465 | 0 | 1,995,978 | 5,456,413 | 0 | 0 | 0 |
| Hawaii | 9,214,342 | 80,000 | 0 | 4,300,000 | 0 | 0 | 4,036,163 | 798,179 | 0 | 0 | 0 |
| Idaho | 8,208,360 | 383 | 23,260 | 0 | 3,955,350 | 0 | 2,080,651 | 1,859,900 | 265,392 | 0 | 23,424 |
| Illinois | 7,032,929 | 0 | 0 | 0 | 0 | 20,015 | 0 | 7,012,914 | 0 | 0 | 0 |
| Indiana | 9,738,835 | 0 | 0 | 671,287 | 0 | 0 | 0 | 8,867,548 | 0 | 0 | 200,000 |
| Iowa | 5,481,288 | 0 | 0 | 0 | 0 | 8,697 | 2,542,474 | 2,622,819 | 0 | 0 | 307,298 |
| Kansas | 2,360,850 | 0 | 0 | 0 | 0 | 0 | 0 | 2,292,126 | 0 | 0 | 68,724 |
| Kentucky | 6,866,569 | 0 | 0 | 0 | 0 | 0 | 2,017,800 | 4,415,400 | 0 | 0 | 433,369 |
| Louisiana | 9,900,000 | 0 | 0 | 0 | 0 | 0 | 1,100,000 | 8,700,000 | 0 | 100,000 | 0 |
| Maine | 2,038,174 | 0 | 1,066,053 | 0 | 0 | 3,171 | 274,950 | 694,000 | 0 | 0 | 0 |
| Maryland | 1,782,810 | 5,000 | 0 | 0 | 0 | 0 | 0 | 1,125,089 | 10,000 | 0 | 642,721 |
| Massachusetts | 5,480,624 | 0 | 0 | 0 | 0 | 1,132,036 | 4,333,000 | 0 | 15,588 | 0 | 0 |
| Michigan | 8,417,785 | 1,315,035 | 0 | 0 | 0 | 0 | 1,877,750 | 5,225,000 | 0 | 0 | 0 |
| Minnesota | 4,827,540 | 1,571,817 | 0 | 0 | 0 | 0 | 0 | 3,255,723 | 0 | 0 | 0 |
| Mississippi | 971,637 | 0 | 37,293 | 0 | 0 | 0 | 554,226 | 380,118 | 0 | 0 | 0 |
| Missouri | 4,488,514 | 0 | 0 | 8,855 | 0 | 8,728 | 989,192 | 3,100,541 | 381,198 | 0 | 0 |
| Montana | 3,254,014 | 631,176 | 0 | 0 | 0 | 0 | 1,206,220 | 1,252,000 | 116,618 | 0 | 48,000 |
| Nebraska | 1,607,015 | 312,929 | 0 | 0 | 0 | 0 | 0 | 1,259,034 | 35,052 | 0 | 0 |
| Nevada | 2,771,066 | 0 | 0 | 0 | 0 | 0 | 40,605 | 2,730,461 | 0 | 0 | 0 |
| New Hampshire | 959,521 | 5,668 | 0 | 0 | 0 | 0 | 0 | 734,000 | 219,853 | 0 | 0 |
| New Jersey | 3,453,756 | 0 | 0 | 0 | 0 | 0 | 0 | 3,151,756 | 302,000 | 0 | 0 |
| New Mexico | 2,086,119 | 0 | 0 | 0 | 0 | 0 | 548,505 | 1,537,614 | 0 | 0 | 0 |
| New York | 162,053,306 | 2,854,775 | 6,000,000 | 2,712,211 | 25,000 | 135,230,888 | 1,618,380 | 3,328,987 | 1,423,072 | 129,501 | 8,730,492 |
| North Carolina | 6,418,931 | 273,624 | 0 | 0 | 0 | 0 | 347,084 | 5,686,320 | 111,903 | 0 | 0 |
| North Dakota | 1,199,176 | 0 | 0 | 0 | 0 | 0 | 620,000 | 579,176 | 0 | 0 | 0 |
| Ohio | 6,979,454 | 0 | 0 | 0 | 0 | 0 | 863,117 | 6,116,337 | 0 | 0 | 0 |
| Oklahoma | 8,986,041 | 701,688 | 0 | 0 | 0 | 495,425 | 3,200,000 | 4,588,928 | 0 | 0 | 0 |
| Oregon | 9,815,170 | 71,509 | 4,598,592 | 0 | 809,809 | 0 | 3,103,260 | 1,232,000 | 0 | 0 | 0 |
| Pennsylvania | 5,353,083 | 0 | 98,950 | 0 | 0 | 0 | 1,439,155 | 3,095,997 | 718,981 | 0 | 0 |
| Rhode Island | 1,251,398 | 0 | 0 | 0 | 0 | 0 | 0 | 1,249,398 | 0 | 0 | 2,000 |

TABLE 16. State government expenditures for R&D funded from federal sources, by state and federal agency: FY 2014

(Dollars)

| State | Total federal | USDA | DOC | DOD | DOE | HHS | DOI | DOT | EPA | NSF | Other ^a |
|--------------------------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|-----------|--------------------|
| South Carolina | 16,290,802 | 4,433 | 5,152,786 | 1,590,890 | 121,499 | 0 | 7,388,936 | 1,247,461 | 83,550 | 568,499 | 132,748 |
| South Dakota | 1,427,976 | 0 | 0 | 0 | 3,779 | 0 | 0 | 1,424,197 | 0 | 0 | 0 |
| Tennessee | 3,368,748 | 0 | 0 | 0 | 0 | 0 | 344,370 | 3,024,378 | 0 | 0 | 0 |
| Texas | 17,280,822 | 322,000 | 0 | 0 | 0 | 0 | 4,725,788 | 10,912,147 | 0 | 0 | 1,320,887 |
| Utah | 755,484 | 355,984 | 0 | 0 | 0 | 0 | 0 | 399,500 | 0 | 0 | 0 |
| Vermont | 1,583,729 | 360,292 | 0 | 0 | 0 | 170,047 | 197,945 | 855,445 | 0 | 0 | 0 |
| Virginia | 12,583,339 | 269,588 | 43,000 | 558,000 | 238,018 | 40,000 | 3,591,910 | 5,392,576 | 1,278,015 | 61,939 | 1,110,293 |
| Washington | 11,078,789 | 1,626,888 | 227,515 | 90,242 | 1,354,204 | 459,621 | 1,603,519 | 4,910,000 | 727,300 | 0 | 79,500 |
| West Virginia | 4,572,114 | 0 | 1,896,368 | 0 | 0 | 0 | 91,161 | 0 | 0 | 2,581,600 | 2,985 |
| Wisconsin | 9,388,919 | 566,740 | 0 | 0 | 0 | 0 | 4,644,000 | 3,428,179 | 0 | 0 | 750,000 |
| Wyoming | 2,346,866 | 0 | 0 | 0 | 0 | 0 | 1,364,580 | 982,286 | 0 | 0 | 0 |
| Puerto Rico ^c | 1,489,553 | 400,000 | 89,553 | 0 | 0 | 1,000,000 | 0 | 0 | 0 | 0 | 0 |

DOC = Department of Corrections; DOD = Department of Defense; DOE = Department of Energy; DOI = Department of the Interior; DOT = Department of Transportation; EPA = Environmental Protection Agency; HHS = Department of Health and Human Services; NSF = National Science Foundation; USDA = Department of Agriculture.

^a Other includes the Departments of Education, Housing and Urban Development, Homeland Security, Justice, Labor, State, the Treasury, and Veterans Affairs; the National Aeronautics and Space Administration; and others.

^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: State R&D totals can display considerable volatility between survey years due to several national and state-specific factors. Large changes are not unusual, especially for discretionary spending items such as R&D.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FYs 2014 and 2015.

TABLE 17. State government expenditures for R&D funded from federal sources, by state and federal agency: FY 2015

(Dollars)

| State | Total federal | USDA | DOC | DOD | DOE | HHS | DOI | DOT | EPA | NSF | Other ^a |
|----------------------------|---------------|------------|------------|-----------|------------|-------------|------------|-------------|-----------|------------|--------------------|
| United States ^b | 483,983,700 | 21,398,333 | 23,838,836 | 7,632,758 | 10,795,211 | 141,374,754 | 84,859,987 | 164,264,974 | 6,239,831 | 14,380,673 | 9,198,343 |
| Alabama | 8,931,316 | 0 | 541,987 | 56,252 | 163,971 | 149,439 | 380,704 | 7,345,749 | 23,938 | 236,001 | 33,275 |
| Alaska | 2,812,832 | 107,458 | 0 | 0 | 0 | 0 | 953,000 | 1,752,374 | 0 | 0 | 0 |
| Arizona | 8,321,298 | 604,565 | 0 | 0 | 658,000 | 0 | 4,360,713 | 1,007,120 | 0 | 1,690,900 | 0 |
| Arkansas | 6,238,800 | 0 | 0 | 0 | 0 | 0 | 0 | 1,188,800 | 0 | 5,050,000 | 0 |
| California | 20,343,864 | 88,098 | 908,379 | 0 | 0 | 666,606 | 0 | 18,508,781 | 72,000 | 0 | 100,000 |
| Colorado | 3,668,094 | 0 | 0 | 0 | 0 | 0 | 1,888,034 | 1,557,968 | 0 | 0 | 222,092 |
| Connecticut | 13,036,055 | 3,508,194 | 0 | 0 | 0 | 2,200,823 | 5,126,613 | 1,840,350 | 134,303 | 225,772 | 0 |
| Delaware | 862,471 | 0 | 271,584 | 0 | 9,000 | 0 | 264,793 | 82,943 | 124,279 | 73,649 | 36,223 |
| District of Columbia | 1,035,397 | 0 | 0 | 0 | 0 | 174,578 | 0 | 722,701 | 0 | 0 | 138,118 |
| Florida | 22,302,689 | 3,495,004 | 3,257,544 | 0 | 46,852 | 612,579 | 8,193,305 | 6,681,363 | 0 | 0 | 16,042 |
| Georgia | 8,055,609 | 0 | 0 | 0 | 3,148,268 | 0 | 1,562,740 | 3,344,601 | 0 | 0 | 0 |
| Hawaii | 6,940,018 | 60,000 | 0 | 1,500,000 | 0 | 0 | 4,511,054 | 868,964 | 0 | 0 | 0 |
| Idaho | 7,130,703 | 54,935 | 22,936 | 16,111 | 3,789,202 | 0 | 1,840,303 | 1,271,190 | 70,096 | 0 | 65,930 |
| Illinois | 6,913,774 | 0 | 0 | 0 | 0 | 0 | 0 | 6,913,774 | 0 | 0 | 0 |
| Indiana | 7,358,178 | 0 | 0 | 771,287 | 0 | 0 | 0 | 6,386,891 | 0 | 0 | 200,000 |
| Iowa | 5,615,415 | 0 | 0 | 0 | 0 | 25,000 | 1,974,936 | 3,420,249 | 0 | 0 | 195,230 |
| Kansas | 2,138,068 | 0 | 0 | 0 | 0 | 0 | 0 | 2,081,774 | 0 | 0 | 56,294 |
| Kentucky | 7,335,717 | 0 | 0 | 0 | 0 | 0 | 1,818,185 | 4,461,700 | 0 | 0 | 1,055,832 |
| Louisiana | 10,012,449 | 0 | 0 | 0 | 0 | 0 | 1,212,449 | 8,700,000 | 0 | 100,000 | 0 |
| Maine | 2,952,778 | 0 | 1,394,014 | 0 | 119,000 | 3,002 | 634,762 | 802,000 | 0 | 0 | 0 |
| Maryland | 1,649,862 | 5,000 | 0 | 0 | 0 | 0 | 0 | 1,337,475 | 41,737 | 0 | 265,650 |
| Massachusetts | 6,490,647 | 0 | 0 | 0 | 0 | 264,103 | 6,210,000 | 0 | 16,544 | 0 | 0 |
| Michigan | 8,346,295 | 1,239,261 | 0 | 0 | 0 | 0 | 1,852,298 | 5,225,000 | 29,736 | 0 | 0 |
| Minnesota | 4,814,486 | 1,516,171 | 0 | 0 | 0 | 0 | 0 | 3,298,315 | 0 | 0 | 0 |
| Mississippi | 618,485 | 0 | 0 | 0 | 0 | 0 | 429,510 | 188,975 | 0 | 0 | 0 |
| Missouri | 5,556,141 | 0 | 0 | 35,412 | 0 | 41,545 | 1,972,347 | 3,123,134 | 383,703 | 0 | 0 |
| Montana | 3,672,296 | 704,597 | 0 | 0 | 0 | 0 | 1,344,763 | 1,441,000 | 157,908 | 0 | 24,028 |
| Nebraska | 1,668,537 | 226,038 | 0 | 0 | 0 | 0 | 0 | 1,425,811 | 16,688 | 0 | 0 |
| Nevada | 2,515,000 | 0 | 0 | 0 | 0 | 0 | 56,022 | 2,458,978 | 0 | 0 | 0 |
| New Hampshire | 1,113,769 | 10,988 | 0 | 0 | 0 | 0 | 0 | 883,800 | 218,981 | 0 | 0 |
| New Jersey | 4,041,326 | 0 | 0 | 0 | 0 | 0 | 0 | 3,331,322 | 710,004 | 0 | 0 |
| New Mexico | 1,966,767 | 0 | 0 | 0 | 0 | 0 | 579,476 | 1,387,291 | 0 | 0 | 0 |
| New York | 150,683,260 | 3,245,724 | 6,000,000 | 2,410,255 | 0 | 129,059,075 | 1,869,598 | 3,346,384 | 1,187,444 | 563,195 | 3,001,585 |
| North Carolina | 15,605,925 | 204,471 | 1,436 | 1,045,181 | 150,000 | 6,742,663 | 321,045 | 5,500,320 | 41,006 | 1,199,860 | 399,943 |
| North Dakota | 1,020,728 | 0 | 0 | 0 | 0 | 0 | 620,000 | 400,728 | 0 | 0 | 0 |
| Ohio | 6,437,833 | 0 | 0 | 0 | 0 | 0 | 819,700 | 5,618,133 | 0 | 0 | 0 |
| Oklahoma | 7,578,340 | 685,666 | 0 | 0 | 0 | 550,425 | 3,000,000 | 3,342,249 | 0 | 0 | 0 |
| Oregon | 10,390,644 | 61,777 | 4,097,880 | 0 | 1,280,918 | 0 | 3,200,069 | 1,750,000 | 0 | 0 | 0 |
| Pennsylvania | 4,830,151 | 0 | 50,000 | 0 | 0 | 0 | 1,768,668 | 2,238,279 | 773,204 | 0 | 0 |
| Rhode Island | 1,114,694 | 0 | 0 | 0 | 0 | 0 | 0 | 1,114,694 | 0 | 0 | 0 |

TABLE 17. State government expenditures for R&D funded from federal sources, by state and federal agency: FY 2015

(Dollars)

| State | Total federal | USDA | DOC | DOD | DOE | HHS | DOI | DOT | EPA | NSF | Other ^a |
|--------------------------|---------------|-----------|-----------|---------|-----------|-----------|------------|------------|-----------|-----------|--------------------|
| South Carolina | 20,114,487 | 27,567 | 6,212,232 | 880,772 | 120,665 | 0 | 10,824,425 | 1,466,422 | 89,084 | 87,584 | 405,736 |
| South Dakota | 1,003,921 | 0 | 0 | 0 | 26,862 | 0 | 0 | 977,059 | 0 | 0 | 0 |
| Tennessee | 2,903,575 | 0 | 0 | 0 | 0 | 0 | 298,218 | 2,605,357 | 0 | 0 | 0 |
| Texas | 21,106,336 | 705,800 | 0 | 0 | 0 | 0 | 3,282,713 | 15,842,487 | 0 | 0 | 1,275,336 |
| Utah | 1,077,198 | 381,198 | 0 | 0 | 0 | 0 | 0 | 696,000 | 0 | 0 | 0 |
| Vermont | 1,183,900 | 326,374 | 0 | 0 | 16,735 | 152,706 | 32,441 | 655,644 | 0 | 0 | 0 |
| Virginia | 12,782,781 | 461,721 | 81,782 | 792,000 | 84,739 | 40,000 | 3,457,004 | 5,321,433 | 1,591,404 | 28,312 | 924,386 |
| Washington | 12,398,340 | 2,835,836 | 326,052 | 125,488 | 1,180,999 | 692,210 | 1,740,583 | 4,910,000 | 557,772 | 0 | 29,400 |
| West Virginia | 7,720,174 | 0 | 673,010 | 0 | 0 | 0 | 90,599 | 1,827,922 | 0 | 5,125,400 | 3,243 |
| Wisconsin | 9,471,310 | 841,890 | 0 | 0 | 0 | 0 | 5,065,000 | 2,814,420 | 0 | 0 | 750,000 |
| Wyoming | 2,100,967 | 0 | 0 | 0 | 0 | 0 | 1,303,917 | 797,050 | 0 | 0 | 0 |
| Puerto Rico ^c | 1,561,588 | 472,035 | 89,553 | 0 | 0 | 1,000,000 | 0 | 0 | 0 | 0 | 0 |

DOC = Department of Corrections; DOD = Department of Defense; DOE = Department of Energy; DOI = Department of the Interior; DOT = Department of Transportation; EPA = Environmental Protection Agency; HHS = Department of Health and Human Services; NSF = National Science Foundation; USDA = Department of Agriculture.

^a Other includes the Departments of Education, Housing and Urban Development, Homeland Security, Justice, Labor, State, the Treasury, and Veterans Affairs; the National Aeronautics and Space Administration; and others.

^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: State R&D totals can display considerable volatility between survey years due to several national and state-specific factors. Large changes are not unusual, especially for discretionary spending items such as R&D.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FYs 2014 and 2015.

TABLE 18. State agency expenditures for R&D and R&D plant, by state, department or agency, and R&D performer: FY 2014
(Dollars)

| Department or agency | R&D performers ^a | | | R&D plant |
|----------------------------------------------------------------------------------|-----------------------------|-------------|---------------|------------|
| | All | Intramural | Extramural | |
| United States ^b | 1,885,923,321 | 577,638,324 | 1,308,284,997 | 20,662,777 |
| Alabama | 18,532,534 | 4,589,652 | 13,942,882 | 0 |
| Choctawhatchee, Pea and Yellow River Watershed Management Authority | 6,340 | 0 | 6,340 | 0 |
| Education, Department of | 30,000 | 30,000 | 0 | 0 |
| Forensic Sciences, Department of | 72,431 | 72,431 | 0 | 0 |
| Geological Survey | 2,128,694 | 2,128,694 | 0 | 0 |
| Innovation Fund | 2,800,000 | 0 | 2,800,000 | 0 |
| Marine Environmental Science Consortium, Dauphin Island Sea Lab | 2,358,527 | 2,358,527 | 0 | 0 |
| Supercomputer Authority | 3,898,736 | 0 | 3,898,736 | 0 |
| Transportation, Department of | 7,237,806 | 0 | 7,237,806 | 0 |
| Alaska | 12,031,675 | 9,399,991 | 2,631,684 | 0 |
| Natural Resources, Division of Geological and Geophysical Surveys, Department of | 9,254,991 | 9,254,991 | 0 | 0 |
| Transportation and Public Facilities, Department of | 2,776,684 | 145,000 | 2,631,684 | 0 |
| Arizona | 18,820,149 | 8,953,596 | 9,866,553 | 0 |
| Agriculture, Department of | 1,063,107 | 0 | 1,063,107 | 0 |
| Game and Fish Department | 3,912,386 | 3,653,841 | 258,545 | 0 |
| Geological Survey | 3,701,000 | 3,701,000 | 0 | 0 |
| Health Services, Department of | 8,881,971 | 1,598,755 | 7,283,216 | 0 |
| Transportation, Department of | 1,261,685 | 0 | 1,261,685 | 0 |
| Arkansas | 14,994,903 | 708,544 | 14,286,359 | 0 |
| Beef Council | 10,000 | 0 | 10,000 | 0 |
| Catfish Promotion Board | 7,500 | 0 | 7,500 | 0 |
| Corn and Grain Sorghum Board | 777,000 | 0 | 777,000 | 0 |
| Economic Development Commission | 5,282,653 | 459,544 | 4,823,109 | 0 |
| Rice Research and Promotion Board | 2,545,040 | 0 | 2,545,040 | 0 |
| Soybean Promotion Board | 4,822,275 | 0 | 4,822,275 | 0 |
| State Highway and Transportation Department | 1,269,000 | 249,000 | 1,020,000 | 0 |
| Wheat Promotion Board | 281,435 | 0 | 281,435 | 0 |
| California | 321,958,885 | 53,984,295 | 267,974,590 | 35,228 |
| Air Resources Board | 17,307,789 | 10,263,477 | 7,044,312 | 0 |
| Children and Families Commission | 750,000 | 0 | 750,000 | 0 |
| Corrections and Rehabilitation, Department of | 6,500,000 | 6,500,000 | 0 | 0 |
| Delta Stewardship Council | 2,250,000 | 2,250,000 | 0 | 0 |
| Energy Commission | 18,393,000 | 0 | 18,393,000 | 0 |
| Environmental Health Hazard Assessment, Office of | 11,756,017 | 10,681,387 | 1,074,630 | 0 |
| Fish and Wildlife, Department of | 360,000 | 360,000 | 0 | 0 |
| Food and Agriculture, Department of | 3,879,645 | 0 | 3,879,645 | 0 |
| Forestry and Fire Protection, Department of | 803,866 | 452,546 | 351,320 | 0 |
| Horse Racing Board | 643,000 | 0 | 643,000 | 0 |
| Industrial Relations, Department of | 788,560 | 0 | 788,560 | 0 |
| Institute for Regenerative Medicine | 194,022,123 | 0 | 194,022,123 | 35,228 |
| Motor Vehicles, Department of | 2,042,738 | 1,579,165 | 463,573 | 0 |
| Pesticide Regulation, Department of | 9,072,000 | 6,151,000 | 2,921,000 | 0 |
| Public Health, Environmental Health Laboratory Branch, Department of | 300,000 | 300,000 | 0 | 0 |
| Public Health, Food and Drug Branch, Science and Education, Department of | 1,000,000 | 1,000,000 | 0 | 0 |
| Public Health, Genetic Disease, Department of | 603,000 | 603,000 | 0 | 0 |
| Public Utilities Commission, Communications Division | 364,610 | 0 | 364,610 | 0 |
| Resources Recycling and Recovery, Department of | 1,411,393 | 0 | 1,411,393 | 0 |
| Seismic Safety Commission | 99,980 | 0 | 99,980 | 0 |
| Social Services, Department of | 120,459 | 108,568 | 11,891 | 0 |
| State Coastal Conservancy | 183,200 | 0 | 183,200 | 0 |
| State Water Resources Control Board | 995,000 | 0 | 995,000 | 0 |
| Transportation, Department of | 34,956,150 | 11,206,000 | 23,750,150 | 0 |
| Water Resources, Department of | 13,356,355 | 2,529,152 | 10,827,203 | 0 |

TABLE 18. State agency expenditures for R&D and R&D plant, by state, department or agency, and R&D performer: FY 2014
(Dollars)

| Department or agency | R&D performers ^a | | | R&D plant |
|------------------------------------------------------------|-----------------------------|------------|-------------|-----------|
| | All | Intramural | Extramural | |
| Colorado | 15,745,589 | 8,178,672 | 7,566,917 | 353,950 |
| Economic Development and International Trade, Office of | 3,523,750 | 0 | 3,523,750 | 0 |
| Higher Education Competitive, Research Authority | 1,025,000 | 0 | 1,025,000 | 0 |
| Natural Resources, Department of | 6,611,921 | 6,325,713 | 286,208 | 0 |
| Public Health and Environment, Department of | 1,184,052 | 0 | 1,184,052 | 0 |
| Public Safety, Department of | 904,741 | 879,741 | 25,000 | 0 |
| Transportation, Department of | 2,224,576 | 701,669 | 1,522,907 | 353,950 |
| Wine Industry Development Board | 271,549 | 271,549 | 0 | 0 |
| Connecticut | 47,405,244 | 20,533,902 | 26,871,342 | 0 |
| Agricultural Experiment Station | 10,053,249 | 10,053,249 | 0 | 0 |
| Energy and Environmental Protection, Department of | 7,275,031 | 6,328,278 | 946,753 | 0 |
| Green Bank | 468,000 | 0 | 468,000 | 0 |
| Innovation Inc. | 12,185,315 | 0 | 12,185,315 | 0 |
| Mental Health and Addiction Services, Department of | 4,343,791 | 3,045,942 | 1,297,849 | 0 |
| Public Health, Department of | 8,184,667 | 5,715 | 8,178,952 | 0 |
| Social Services, Department of | 959,065 | 0 | 959,065 | 0 |
| Transportation, Department of | 3,936,126 | 1,100,718 | 2,835,408 | 0 |
| Delaware | 2,243,868 | 1,888,698 | 355,170 | 100,000 |
| Geological Survey | 1,884,248 | 1,834,248 | 50,000 | 100,000 |
| Natural Resources and Environmental Control, Department of | 104,407 | 54,450 | 49,957 | 0 |
| Transportation, Department of | 255,213 | 0 | 255,213 | 0 |
| District of Columbia | 3,136,271 | 1,444,007 | 1,692,264 | 0 |
| Health, Department of | 641,944 | 212,593 | 429,351 | 0 |
| Transportation, Department of | 794,327 | 331,414 | 462,913 | 0 |
| Water and Sewer Authority | 1,700,000 | 900,000 | 800,000 | 0 |
| Florida | 157,004,903 | 44,017,593 | 112,987,310 | 1,611,960 |
| Agriculture and Consumer Services, Department of | 28,745,442 | 3,029,127 | 25,716,315 | 362,674 |
| Citrus, Department of | 2,784,635 | 179,788 | 2,604,847 | 0 |
| Environmental Protection, Department of | 12,591 | 0 | 12,591 | 0 |
| Fish and Wildlife Conservation Commission | 45,157,246 | 40,808,678 | 4,348,568 | 1,249,286 |
| Health, Department of | 65,250,000 | 0 | 65,250,000 | 0 |
| Space Florida | 1,250,000 | 0 | 1,250,000 | 0 |
| Transportation, Department of | 13,804,989 | 0 | 13,804,989 | 0 |
| Georgia | 11,776,221 | 1,766,014 | 10,010,207 | 0 |
| Environmental Finance Authority | 435,875 | 0 | 435,875 | 0 |
| Natural Resources Wildlife Division, Department of | 2,148,305 | 176,451 | 1,971,854 | 0 |
| Southern States Energy Board | 3,096,465 | 1,589,563 | 1,506,902 | 0 |
| Transportation, Department of | 6,095,576 | 0 | 6,095,576 | 0 |
| Hawaii | 13,125,455 | 1,038,877 | 12,086,578 | 0 |
| Agriculture, Department of | 80,000 | 80,000 | 0 | 0 |
| Business, Economic Development, and Tourism, Department of | 4,967,972 | 0 | 4,967,972 | 0 |
| Land and Natural Resources, Department of | 6,929,035 | 798,484 | 6,130,551 | 0 |
| Transportation, Department of | 1,148,448 | 160,393 | 988,055 | 0 |
| Idaho | 12,862,935 | 6,783,779 | 6,079,156 | 0 |
| Barley Commission | 335,273 | 0 | 335,273 | 0 |
| Bean Commission | 23,424 | 0 | 23,424 | 0 |
| Commerce, Department of | 632,699 | 11,400 | 621,299 | 0 |
| Environmental Quality, Department of | 416,787 | 0 | 416,787 | 0 |
| Fish and Game, Department of | 7,358,733 | 6,545,979 | 812,754 | 0 |
| Oilseed Commission | 28,000 | 0 | 28,000 | 0 |
| Pea and Lentil Commission | 146,369 | 0 | 146,369 | 0 |
| Potato Commission | 967,490 | 0 | 967,490 | 0 |
| Transportation Department | 2,161,329 | 214,900 | 1,946,429 | 0 |
| Wheat Commission | 792,831 | 11,500 | 781,331 | 0 |

TABLE 18. State agency expenditures for R&D and R&D plant, by state, department or agency, and R&D performer: FY 2014
(Dollars)

| Department or agency | R&D performers ^a | | | R&D plant |
|-------------------------------------------------------------------|-----------------------------|------------|------------|-----------|
| | All | Intramural | Extramural | |
| Illinois | 24,988,306 | 1,678,403 | 23,309,903 | 0 |
| Children and Family Services, Department of | 2,746,254 | 0 | 2,746,254 | 0 |
| Commerce and Economic Opportunity, Department of | 11,288,985 | 0 | 11,288,985 | 0 |
| Housing Development Authority | 2,040 | 2,040 | 0 | 0 |
| Public Health, Department of | 1,433,534 | 0 | 1,433,534 | 0 |
| Transportation, Department of | 9,517,493 | 1,676,363 | 7,841,130 | 0 |
| Indiana | 23,590,723 | 675,629 | 22,915,094 | 0 |
| Criminal Justice Institute | 640,000 | 240,000 | 400,000 | 0 |
| Economic Development Corporation | 12,078,594 | 0 | 12,078,594 | 0 |
| Kankakee River Basin Commission | 34,000 | 0 | 34,000 | 0 |
| Natural Resources, Department of | 250,000 | 0 | 250,000 | 0 |
| St. Joseph River Basin Commission | 3,694 | 3,694 | 0 | 0 |
| Transportation, Department of | 10,584,435 | 431,935 | 10,152,500 | 0 |
| Iowa | 10,357,010 | 3,884,026 | 6,472,984 | 205,027 |
| Economic Development Authority, Energy Office | 1,117,561 | 0 | 1,117,561 | 0 |
| Human Rights, Criminal and Juvenile Justice Planning, Division of | 522,607 | 522,607 | 0 | 0 |
| Natural Resources, Department of | 4,135,147 | 3,210,630 | 924,517 | 205,027 |
| Transportation, Department of | 4,581,695 | 150,789 | 4,430,906 | 0 |
| Kansas | 5,326,455 | 1,427,786 | 3,898,669 | 0 |
| State Board of Regents | 107,479 | 0 | 107,479 | 0 |
| Transportation, Department of | 3,923,777 | 1,427,786 | 2,495,991 | 0 |
| Water Office | 166,000 | 0 | 166,000 | 0 |
| Wheat Commission | 1,129,199 | 0 | 1,129,199 | 0 |
| Kentucky | 16,756,867 | 2,654,669 | 14,102,198 | 0 |
| Early Childhood Development, Governor's Office of | 295,898 | 0 | 295,898 | 0 |
| Economic Development, Cabinet for | 5,450,000 | 0 | 5,450,000 | 0 |
| Education Professional Standards Board | 247,964 | 247,964 | 0 | 0 |
| Energy Development and Independence, Department for | 1,753,100 | 0 | 1,753,100 | 0 |
| Fish and Wildlife Resources, Department of | 2,720,000 | 2,200,000 | 520,000 | 0 |
| Highways, Department of | 5,769,400 | 0 | 5,769,400 | 0 |
| Horse Racing Commission | 250,000 | 0 | 250,000 | 0 |
| Public Health, Department for | 61,800 | 0 | 61,800 | 0 |
| State Nature Preserves Commission | 23,300 | 21,300 | 2,000 | 0 |
| Vocational Rehabilitation, Office of | 185,405 | 185,405 | 0 | 0 |
| Louisiana | 18,778,159 | 8,785,247 | 9,992,912 | 0 |
| Agriculture and Forestry, Department of | 27,333 | 0 | 27,333 | 0 |
| Coastal Protection and Restoration Authority | 4,850,826 | 485,247 | 4,365,579 | 0 |
| Transportation and Development, Department of | 11,000,000 | 6,000,000 | 5,000,000 | 0 |
| Wildlife and Fisheries, Department of | 2,900,000 | 2,300,000 | 600,000 | 0 |
| Maine | 6,857,948 | 2,048,918 | 4,809,030 | 0 |
| Agriculture, Conservation and Forestry, Department of | 513,754 | 513,754 | 0 | 0 |
| Environmental Protection, Department of | 200,000 | 130,000 | 70,000 | 0 |
| Health and Human Services, Department of | 39,688 | 39,688 | 0 | 0 |
| Marine Resources, Department of | 1,236,506 | 1,126,476 | 110,030 | 0 |
| Technology Institute | 4,000,000 | 0 | 4,000,000 | 0 |
| Transportation, Department of | 868,000 | 239,000 | 629,000 | 0 |
| Maryland | 29,981,260 | 906,472 | 29,074,788 | 0 |
| Health and Mental Hygiene, Department of | 13,000,000 | 0 | 13,000,000 | 0 |
| Natural Resources, Department of | 834,164 | 616,472 | 217,692 | 0 |
| Technology Development Corporation | 14,400,000 | 0 | 14,400,000 | 0 |
| Transportation, Department of | 1,747,096 | 290,000 | 1,457,096 | 0 |
| Massachusetts | 18,259,928 | 10,934,792 | 7,325,136 | 600,001 |
| Agriculture, Department of | 34,227 | 0 | 34,227 | 0 |
| Clean Energy Center | 2,590,446 | 0 | 2,590,446 | 0 |

TABLE 18. State agency expenditures for R&D and R&D plant, by state, department or agency, and R&D performer: FY 2014
(Dollars)

| Department or agency | R&D performers ^a | | | R&D plant |
|-------------------------------------------------------|-----------------------------|------------------|-------------------|----------------|
| | All | Intramural | Extramural | |
| Environmental Protection, Department of | 181,452 | 117,732 | 63,720 | 0 |
| Fish and Game, Department of | 11,172,250 | 10,709,250 | 463,000 | 600,000 |
| Mass Life Science Center | 1,107,482 | 0 | 1,107,482 | 0 |
| Mental Health, Department of | 1,756,445 | 7,810 | 1,748,635 | 1 |
| Public Health, Department of | 1,217,626 | 0 | 1,217,626 | 0 |
| Water Resources Authority | 200,000 | 100,000 | 100,000 | 0 |
| Michigan | 12,252,555 | 626,768 | 11,625,787 | 0 |
| Agriculture and Rural Development, Department of | 3,190,880 | 0 | 3,190,880 | 0 |
| Environmental Quality, Department of | 213 | 0 | 213 | 0 |
| Natural Resources, Department of | 3,561,462 | 626,768 | 2,934,694 | 0 |
| Transportation, Department of | 5,500,000 | 0 | 5,500,000 | 0 |
| Minnesota | 19,378,825 | 2,284,757 | 17,094,068 | 280,771 |
| Agriculture, Department of | 4,846,071 | 2,005,559 | 2,840,512 | 0 |
| Employment and Economic Development, Department of | 2,500,000 | 0 | 2,500,000 | 0 |
| Forest Resources Council | 90,000 | 65,000 | 25,000 | 0 |
| Pollution Control Agency | 273,994 | 0 | 273,994 | 0 |
| Transportation, Department of | 11,668,760 | 214,198 | 11,454,562 | 280,771 |
| Mississippi | 1,313,376 | 510,446 | 802,930 | 47,000 |
| Transportation, Department of | 475,147 | 7,681 | 467,466 | 0 |
| Wildlife, Fisheries, and Parks, Department of | 838,229 | 502,765 | 335,464 | 47,000 |
| Missouri | 8,436,666 | 1,005,924 | 7,430,742 | 0 |
| Agriculture, Department of | 711,626 | 0 | 711,626 | 0 |
| Conservation, Department of | 3,025,190 | 840,442 | 2,184,748 | 0 |
| Health and Senior Services, Department of | 21,534 | 21,534 | 0 | 0 |
| Natural Resources, Department of | 693,277 | 143,948 | 549,329 | 0 |
| Transportation, Department of | 3,985,039 | 0 | 3,985,039 | 0 |
| Montana | 10,428,010 | 2,238,501 | 8,189,509 | 0 |
| Agriculture, Department of | 2,409,883 | 0 | 2,409,883 | 0 |
| Environmental Quality, Department of | 293,361 | 110,753 | 182,608 | 0 |
| Fish, Wildlife and Parks | 2,754,248 | 2,044,748 | 709,500 | 0 |
| Natural Resources and Conservation, Department of | 209,882 | 0 | 209,882 | 0 |
| Research and Commercialization, Board of | 1,108,929 | 0 | 1,108,929 | 0 |
| Transportation, Department of | 1,418,000 | 83,000 | 1,335,000 | 0 |
| Wheat and Barley Committee | 2,233,707 | 0 | 2,233,707 | 0 |
| Nebraska | 6,621,771 | 769,135 | 5,852,636 | 0 |
| Agriculture, Department of | 471,752 | 380,711 | 91,041 | 0 |
| Corn Board | 601,604 | 0 | 601,604 | 0 |
| Dry Bean Commission | 160,059 | 0 | 160,059 | 0 |
| Economic Development, Department of | 3,341,314 | 0 | 3,341,314 | 0 |
| Grain Sorghum Board | 10,000 | 0 | 10,000 | 0 |
| Natural Resources, Department of | 177,710 | 134,089 | 43,621 | 0 |
| Roads, Department of | 1,511,003 | 254,335 | 1,256,668 | 0 |
| Wheat Board | 348,329 | 0 | 348,329 | 0 |
| Nevada | 3,438,157 | 9,927 | 3,428,230 | 0 |
| Alfalfa Seed Advisory Board | 10,000 | 0 | 10,000 | 0 |
| Commission on Mineral Resources, Division of Minerals | 100,000 | 0 | 100,000 | 0 |
| Transportation, Department of | 3,257,663 | 0 | 3,257,663 | 0 |
| Wildlife, Department of | 70,494 | 9,927 | 60,567 | 0 |
| New Hampshire | 1,448,090 | 84,253 | 1,363,837 | 0 |
| Agriculture, Markets and Food, Department of | 138,837 | 0 | 138,837 | 0 |
| Environmental Services, Department of | 219,853 | 69,853 | 150,000 | 0 |
| Resources and Economic Development, Department of | 300,000 | 0 | 300,000 | 0 |
| Transportation, Department of | 789,400 | 14,400 | 775,000 | 0 |

TABLE 18. State agency expenditures for R&D and R&D plant, by state, department or agency, and R&D performer: FY 2014
(Dollars)

| Department or agency | R&D performers ^a | | | R&D plant |
|------------------------------------------------------------------|-----------------------------|-------------|-------------|------------|
| | All | Intramural | Extramural | |
| New Jersey | 30,384,821 | 1,814,000 | 28,570,821 | 0 |
| Brain Injury Research, Commission on | 3,953,357 | 0 | 3,953,357 | 0 |
| Cancer Research, Commission on | 591,000 | 0 | 591,000 | 0 |
| Environmental Protection, Department of | 3,162,639 | 1,814,000 | 1,348,639 | 0 |
| Health, Department of | 13,323,746 | 0 | 13,323,746 | 0 |
| Medical Research and Treatment of Autism, Governor's Council for | 2,862,556 | 0 | 2,862,556 | 0 |
| Spinal Cord Research, Commission on | 2,804,045 | 0 | 2,804,045 | 0 |
| Transportation, Department of | 3,687,478 | 0 | 3,687,478 | 0 |
| New Mexico | 49,805,916 | 2,462,904 | 47,343,012 | 0 |
| Cultural Affairs, Department of | 1,156,400 | 1,156,400 | 0 | 0 |
| Game and Fish, Department of | 1,000,000 | 500,000 | 500,000 | 0 |
| Higher Education Department | 45,630,800 | 0 | 45,630,800 | 0 |
| Miners' Colfax Medical Center | 15,000 | 11,050 | 3,950 | 0 |
| State Engineer, Water Resource Allocation Program, Office of | 81,699 | 42,194 | 39,505 | 0 |
| Transportation, Department of | 1,922,017 | 753,260 | 1,168,757 | 0 |
| New York | 371,224,749 | 258,603,078 | 112,621,671 | 13,100,000 |
| Agriculture and Markets, Department of | 3,390,676 | 2,000,000 | 1,390,676 | 0 |
| Economic Development, Department of | 48,029,330 | 772,000 | 47,257,330 | 0 |
| Energy Research and Development Authority | 41,546,339 | 10,509,511 | 31,036,828 | 0 |
| Environmental Conservation, Department of | 6,069,764 | 3,149,157 | 2,920,607 | 0 |
| Health, Department of | 48,273,199 | 37,169,367 | 11,103,832 | 8,000,000 |
| Mental Health, Office of | 137,561,179 | 123,935,946 | 13,625,233 | 5,100,000 |
| People with Developmental Disabilities, Office of | 4,890,436 | 4,890,436 | 0 | 0 |
| Power Authority | 213,846 | 50,983 | 162,863 | 0 |
| Roswell Park Cancer Institute | 66,300,000 | 66,300,000 | 0 | 0 |
| State Museum | 10,471,818 | 8,261,844 | 2,209,974 | 0 |
| Thoroughbred Breeding and Development Fund Corp. | 441,928 | 0 | 441,928 | 0 |
| Transportation, Department of | 4,036,234 | 1,563,834 | 2,472,400 | 0 |
| North Carolina | 22,114,350 | 14,136,872 | 7,977,478 | 100,000 |
| Agriculture and Consumer Services, Department of | 13,000,000 | 12,000,000 | 1,000,000 | 100,000 |
| Environmental Quality, Department of | 1,886,893 | 1,471,306 | 415,587 | 0 |
| Golden LEAF | 189,391 | 0 | 189,391 | 0 |
| Transportation, Department of | 6,988,066 | 665,566 | 6,322,500 | 0 |
| Wine and Grape Growers Council | 50,000 | 0 | 50,000 | 0 |
| North Dakota | 10,784,572 | 1,373,563 | 9,411,009 | 0 |
| Agriculture, Department of | 112,689 | 0 | 112,689 | 0 |
| Game and Fish, Department of | 825,000 | 825,000 | 0 | 0 |
| Lignite Research Council | 1,419,359 | 312,500 | 1,106,859 | 0 |
| Oil and Gas Research Program | 3,958,048 | 112,557 | 3,845,491 | 0 |
| Renewable Energy Research Program | 1,481,149 | 67,976 | 1,413,173 | 0 |
| Soybean Council | 1,288,295 | 0 | 1,288,295 | 0 |
| Transportation, Department of | 596,824 | 55,530 | 541,294 | 0 |
| Wheat Commission | 1,103,208 | 0 | 1,103,208 | 0 |
| Ohio | 94,882,275 | 965,440 | 93,916,835 | 0 |
| Development Services Agency | 84,085,784 | 0 | 84,085,784 | 0 |
| Mental Health and Addiction Services, Department of | 820,000 | 190,000 | 630,000 | 0 |
| Natural Resources, Department of | 1,395,527 | 770,440 | 625,087 | 0 |
| Transportation, Department of | 7,645,421 | 5,000 | 7,640,421 | 0 |
| Water Development Authority | 935,543 | 0 | 935,543 | 0 |
| Oklahoma | 30,473,702 | 370,925 | 30,102,777 | 1 |
| Advancement of Science and Technology, Center for the | 10,606,717 | 0 | 10,606,717 | 1 |
| Agriculture, Food, and Forestry, Department of | 701,688 | 0 | 701,688 | 0 |
| Grand River Dam Authority | 100,000 | 0 | 100,000 | 0 |
| Health, State Department of | 170,925 | 25,925 | 145,000 | 0 |
| Human Services, Department of | 350,000 | 345,000 | 5,000 | 0 |

TABLE 18. State agency expenditures for R&D and R&D plant, by state, department or agency, and R&D performer: FY 2014
(Dollars)

| Department or agency | R&D performers ^a | | | R&D plant |
|---------------------------------------------------|-----------------------------|------------|------------|-----------|
| | All | Intramural | Extramural | |
| Sorghum Commission | 60,000 | 0 | 60,000 | 0 |
| Tobacco Settlement Endowment Trust | 9,187,444 | 0 | 9,187,444 | 0 |
| Transportation, Department of | 4,588,928 | 0 | 4,588,928 | 0 |
| Wheat Commission | 308,000 | 0 | 308,000 | 0 |
| Wildlife Conservation, Department of | 4,400,000 | 0 | 4,400,000 | 0 |
| Oregon | 29,679,288 | 15,547,309 | 14,131,979 | 1,400,000 |
| Agriculture, Department of | 192,060 | 0 | 192,060 | 0 |
| Business Development Department | 10,650,000 | 0 | 10,650,000 | 1,400,000 |
| Energy, Department of | 159,464 | 98,148 | 61,316 | 0 |
| Environmental Quality, Department of | 75,000 | 15,000 | 60,000 | 0 |
| Fish and Wildlife, Department of | 14,644,063 | 14,540,063 | 104,000 | 0 |
| Forestry, Department of | 871,221 | 677,205 | 194,016 | 0 |
| Transportation, Department of | 1,540,000 | 99,000 | 1,441,000 | 0 |
| Water Resources Department | 125,000 | 100,000 | 25,000 | 0 |
| Watershed Enhancement Board | 1,422,480 | 17,893 | 1,404,587 | 0 |
| Pennsylvania | 35,432,244 | 7,012,137 | 28,420,107 | 0 |
| Agriculture, Department of | 787,000 | 0 | 787,000 | 0 |
| Community and Economic Development, Department of | 15,748,000 | 0 | 15,748,000 | 0 |
| Conservation and Natural Resources, Department of | 266,763 | 148,485 | 118,278 | 0 |
| Education, Department of | 30,000 | 30,000 | 0 | 0 |
| Energy Development Authority | 110,515 | 0 | 110,515 | 0 |
| Environmental Protection, Department of | 2,740,046 | 612,179 | 2,127,867 | 0 |
| Fish and Boat Commission | 304,243 | 184,093 | 120,150 | 0 |
| Game Commission | 6,265,856 | 5,478,631 | 787,225 | 0 |
| Health, Department of | 5,400,000 | 0 | 5,400,000 | 0 |
| Susquehanna River Basin Commission | 683,824 | 558,749 | 125,075 | 0 |
| Transportation, Department of | 3,095,997 | 0 | 3,095,997 | 0 |
| Rhode Island | 3,225,472 | 389,829 | 2,835,643 | 0 |
| Atomic Energy Commission | 2,000 | 2,000 | 0 | 0 |
| Commerce Corporation | 1,591,473 | 0 | 1,591,473 | 0 |
| Transportation, Department of | 1,576,999 | 387,829 | 1,189,170 | 0 |
| Water Resources Board | 55,000 | 0 | 55,000 | 0 |
| South Carolina | 22,311,739 | 17,374,915 | 4,936,824 | 0 |
| Agriculture, Department of | 396,576 | 0 | 396,576 | 0 |
| Mental Health, Department of | 100,884 | 0 | 100,884 | 0 |
| Natural Resources, Department of | 16,932,717 | 16,188,473 | 744,244 | 0 |
| Research Authority | 2,637,564 | 1,172,568 | 1,464,996 | 0 |
| Sea Grant Consortium | 670,990 | 0 | 670,990 | 0 |
| Transportation, Department of | 1,573,008 | 13,874 | 1,559,134 | 0 |
| South Dakota | 5,067,005 | 220,000 | 4,847,005 | 0 |
| Corn Utilization Council | 1,400,000 | 0 | 1,400,000 | 0 |
| Oilseeds Council | 60,000 | 0 | 60,000 | 0 |
| Pork Producers Council | 15,000 | 0 | 15,000 | 0 |
| Science and Technology Authority | 3,779 | 0 | 3,779 | 0 |
| Soybean Research and Promotion Council | 1,197,622 | 0 | 1,197,622 | 0 |
| Transportation, Department of | 1,843,604 | 220,000 | 1,623,604 | 0 |
| Weed and Pest Control Commission | 47,000 | 0 | 47,000 | 0 |
| Wheat Commission | 500,000 | 0 | 500,000 | 0 |
| Tennessee | 4,363,565 | 563,092 | 3,800,473 | 0 |
| Environment and Conservation, Department of | 290,224 | 270,224 | 20,000 | 0 |
| Geological Survey | 292,868 | 292,868 | 0 | 0 |
| Transportation, Department of | 3,780,473 | 0 | 3,780,473 | 0 |

TABLE 18. State agency expenditures for R&D and R&D plant, by state, department or agency, and R&D performer: FY 2014
(Dollars)

| Department or agency | R&D performers ^a | | | R&D plant |
|---------------------------------------------------------------------------------------|-----------------------------|------------|-------------|-----------|
| | All | Intramural | Extramural | |
| Texas | 162,287,552 | 2,673,588 | 159,613,964 | 0 |
| Agriculture, Department of | 1,417,500 | 0 | 1,417,500 | 0 |
| Cancer Prevention and Research Institute | 127,133,911 | 0 | 127,133,911 | 0 |
| Council on Alzheimer's Disease | 4,750,000 | 0 | 4,750,000 | 0 |
| Environmental Quality, Commission on | 1,000,000 | 0 | 1,000,000 | 0 |
| Parks and Wildlife Department | 9,907,770 | 2,673,588 | 7,234,182 | 0 |
| Transportation, Department of | 13,640,184 | 0 | 13,640,184 | 0 |
| Water Development Board | 4,438,187 | 0 | 4,438,187 | 0 |
| Utah | 36,466,790 | 17,924,476 | 18,542,314 | 1,998,196 |
| Agriculture and Food, Department of | 355,984 | 16,667 | 339,317 | 0 |
| Economic Development | 1,363,375 | 0 | 1,363,375 | 0 |
| Natural Resources, Department of | 17,000,000 | 17,000,000 | 0 | 0 |
| Science Technology and Research Initiative, Governor's Office of Economic Development | 16,597,431 | 293,709 | 16,303,722 | 1,997,196 |
| Transportation, Department of | 1,150,000 | 614,100 | 535,900 | 1,000 |
| Vermont | 2,039,520 | 534,520 | 1,505,000 | 89,600 |
| Agriculture, Food, and Markets, Agency of | 549,826 | 184,840 | 364,986 | 89,600 |
| Human Services, Agency of | 170,047 | 170,047 | 0 | 0 |
| Natural Resources, Agency of | 197,945 | 0 | 197,945 | 0 |
| Public Service Department | 113,837 | 15,000 | 98,837 | 0 |
| Transportation, Agency of | 1,007,865 | 164,633 | 843,232 | 0 |
| Virginia | 38,456,410 | 10,129,948 | 28,326,462 | 741,043 |
| Aging and Rehabilitation, Department of | 30,325 | 30,325 | 0 | 0 |
| Agriculture and Consumer Services, Department of | 700,636 | 0 | 700,636 | 0 |
| Commonwealth Health Research Board | 692,409 | 0 | 692,409 | 0 |
| Environmental Quality, Department of | 2,188,242 | 0 | 2,188,242 | 0 |
| Forensic Science, Department of | 267,000 | 267,000 | 0 | 0 |
| Forestry, Department of | 396,188 | 0 | 396,188 | 0 |
| Foundation for Healthy Youth | 773,023 | 0 | 773,023 | 0 |
| Game and Inland Fisheries, Department of | 1,875,188 | 0 | 1,875,188 | 0 |
| General Services, Department of | 40,000 | 40,000 | 0 | 0 |
| Innovative Technology, Center for | 5,006,000 | 806,000 | 4,200,000 | 0 |
| Marine Resources Commission | 2,606,910 | 0 | 2,606,910 | 0 |
| Mines, Minerals and Energy, Department of | 1,857,504 | 1,307,504 | 550,000 | 0 |
| Natural History, Museum of | 701,545 | 701,545 | 0 | 0 |
| Social Services, Department of | 20,000 | 20,000 | 0 | 0 |
| Tobacco Region Revitalization Commission | 8,521,485 | 0 | 8,521,485 | 0 |
| Transportation, Department of | 12,779,955 | 6,957,574 | 5,822,381 | 741,043 |
| Washington | 38,277,525 | 9,824,415 | 28,453,110 | 0 |
| Agriculture, Department of | 1,264,557 | 0 | 1,264,557 | 0 |
| Alfalfa Seed Commission | 32,000 | 0 | 32,000 | 0 |
| Archaeology and Historic Preservation, Department of | 335,280 | 335,280 | 0 | 0 |
| Asparagus Commission | 57,000 | 0 | 57,000 | 0 |
| Beef Commission | 20,000 | 0 | 20,000 | 0 |
| Blueberry Commission | 149,905 | 0 | 149,905 | 0 |
| Cranberry Commission | 14,358 | 0 | 14,358 | 0 |
| Dairy Products Commission | 80,200 | 0 | 80,200 | 0 |
| Dry Pea and Lentil Commission | 245,843 | 0 | 245,843 | 0 |
| Ecology, Department of | 380,786 | 245,100 | 135,686 | 0 |
| Fish and Wildlife, Department of | 4,977,664 | 4,977,664 | 0 | 0 |
| Fruit Commission | 8,000 | 0 | 8,000 | 0 |
| Grain Commission | 2,351,631 | 0 | 2,351,631 | 0 |
| Hop Commission | 158,986 | 0 | 158,986 | 0 |
| Labor and Industries, Department of | 2,632,593 | 2,632,593 | 0 | 0 |
| Life Sciences Discovery Fund | 11,904,246 | 0 | 11,904,246 | 0 |
| Mint Commission | 34,605 | 0 | 34,605 | 0 |

TABLE 18. State agency expenditures for R&D and R&D plant, by state, department or agency, and R&D performer: FY 2014
(Dollars)

| Department or agency | R&D performers ^a | | | R&D plant |
|-----------------------------------------------------------------------|-----------------------------|------------|------------|-----------|
| | All | Intramural | Extramural | |
| Natural Resources, Department of | 3,180,045 | 1,621,478 | 1,558,567 | 0 |
| Oilseeds Commission | 9,000 | 0 | 9,000 | 0 |
| Pesticide Registration, Commission of | 385,113 | 0 | 385,113 | 0 |
| Potato Commission | 833,671 | 0 | 833,671 | 0 |
| Puget Sound Partnership | 727,600 | 12,300 | 715,300 | 0 |
| Red Raspberry Commission | 262,429 | 0 | 262,429 | 0 |
| Seed Potato Commission | 17,263 | 0 | 17,263 | 0 |
| Transportation, Department of | 5,450,000 | 0 | 5,450,000 | 0 |
| Tree Fruit Research Commission | 2,540,000 | 0 | 2,540,000 | 0 |
| Turfgrass Commission | 42,000 | 0 | 42,000 | 0 |
| Wine Commission | 182,750 | 0 | 182,750 | 0 |
| West Virginia | 9,705,200 | 3,787,754 | 5,917,446 | 0 |
| Geological and Economic Survey | 4,555,155 | 2,824,578 | 1,730,577 | 0 |
| Higher Education Policy Commission | 5,137,488 | 950,619 | 4,186,869 | 0 |
| Justice and Community Services, Division of | 12,557 | 12,557 | 0 | 0 |
| Wisconsin | 14,643,835 | 6,279,098 | 8,364,737 | 0 |
| Agriculture, Trade and Consumer Protection, Department of | 616,740 | 0 | 616,740 | 0 |
| Economic Development Corporation | 3,000,000 | 0 | 3,000,000 | 0 |
| Natural Resources, Department of | 7,183,900 | 5,782,900 | 1,401,000 | 0 |
| Transportation, Department of | 3,843,195 | 496,198 | 3,346,997 | 0 |
| Wyoming | 6,444,053 | 1,837,188 | 4,606,865 | 0 |
| Agriculture, Department of | 225,000 | 0 | 225,000 | 0 |
| Enhanced Oil Recovery Commission | 250,000 | 0 | 250,000 | 0 |
| Game and Fish Department | 1,857,846 | 1,563,953 | 293,893 | 0 |
| State Engineer, Office of | 100,000 | 0 | 100,000 | 0 |
| State Geological Survey | 265,471 | 265,471 | 0 | 0 |
| Transportation, Department of | 1,230,873 | 7,764 | 1,223,109 | 0 |
| Water Development Commission | 2,373,863 | 0 | 2,373,863 | 0 |
| Wildlife and Natural Resources Trust | 141,000 | 0 | 141,000 | 0 |
| Puerto Rico ^c | 6,569,500 | 5,193,888 | 1,375,612 | 0 |
| Agriculture, Department of ^d | 550,000 | 550,000 | 0 | 0 |
| Health, Department of | 165,922 | 165,922 | 0 | 0 |
| Highways and Transportation Authority | 560,000 | 560,000 | 0 | 0 |
| Hospital San Juan ^{d,e} | 2,000,000 | 2,000,000 | 0 | 0 |
| Institute of Statistics | 617,966 | 617,966 | 0 | 0 |
| Manufacturing Extension, Incorporated ^d | 319,378 | 0 | 319,378 | 0 |
| Mental Health and Anti-Addiction Services Administration ^d | 1,200,000 | 1,200,000 | 0 | 0 |
| Natural Resources, Department of | 100,000 | 100,000 | 0 | 0 |
| Science, Technology and Research Trust ^d | 1,056,234 | 0 | 1,056,234 | 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 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 2014 and 2015.

TABLE 19. State agency expenditures for R&D and R&D plant, by state, department or agency, and R&D performer: FY 2015
(Dollars)

| Department or agency | R&D performers ^a | | | R&D plant |
|----------------------------------------------------------------------------------|-----------------------------|-------------|---------------|------------|
| | All | Intramural | Extramural | |
| United States ^b | 2,205,146,613 | 581,667,140 | 1,623,479,473 | 34,895,729 |
| Alabama | 24,486,963 | 6,167,637 | 18,319,326 | 0 |
| Choctawhatchee, Pea and Yellow River Watershed Management Authority | 6,340 | 0 | 6,340 | 0 |
| Education, Department of | 46,000 | 46,000 | 0 | 0 |
| Forensic Sciences, Department of | 120,724 | 120,724 | 0 | 0 |
| Geological Survey | 2,355,251 | 2,355,251 | 0 | 0 |
| Innovation Fund | 5,950,371 | 0 | 5,950,371 | 0 |
| Marine Environmental Science Consortium, Dauphin Island Sea Lab | 3,645,662 | 3,645,662 | 0 | 0 |
| Supercomputer Authority | 3,788,249 | 0 | 3,788,249 | 0 |
| Transportation, Department of | 8,574,366 | 0 | 8,574,366 | 0 |
| Alaska | 11,258,203 | 9,464,543 | 1,793,660 | 0 |
| Natural Resources, Division of Geological and Geophysical Surveys, Department of | 9,257,543 | 9,257,543 | 0 | 0 |
| Transportation and Public Facilities, Department of | 2,000,660 | 207,000 | 1,793,660 | 0 |
| Arizona | 14,942,124 | 8,268,168 | 6,673,956 | 0 |
| Agriculture, Department of | 818,816 | 0 | 818,816 | 0 |
| Game and Fish Department | 4,313,702 | 4,059,121 | 254,581 | 0 |
| Geological Survey | 3,256,000 | 3,256,000 | 0 | 0 |
| Health Services, Department of | 5,294,706 | 953,047 | 4,341,659 | 0 |
| Transportation, Department of | 1,258,900 | 0 | 1,258,900 | 0 |
| Arkansas | 16,642,711 | 660,969 | 15,981,742 | 0 |
| Beef Council | 40,750 | 0 | 40,750 | 0 |
| Catfish Promotion Board | 27,560 | 0 | 27,560 | 0 |
| Corn and Grain Sorghum Board | 779,000 | 0 | 779,000 | 0 |
| Economic Development Commission | 8,067,653 | 444,969 | 7,622,684 | 0 |
| Rice Research and Promotion Board | 2,996,500 | 0 | 2,996,500 | 0 |
| Soybean Promotion Board | 3,100,707 | 0 | 3,100,707 | 0 |
| State Highway and Transportation Department | 1,486,000 | 216,000 | 1,270,000 | 0 |
| Wheat Promotion Board | 144,541 | 0 | 144,541 | 0 |
| California | 500,071,595 | 55,223,244 | 444,848,351 | 0 |
| Air Resources Board | 18,218,725 | 10,803,660 | 7,415,065 | 0 |
| Children and Families Commission | 935,000 | 0 | 935,000 | 0 |
| Community Services and Development, Department of | 100,000 | 0 | 100,000 | 0 |
| Corrections and Rehabilitation, Department of | 6,300,000 | 6,300,000 | 0 | 0 |
| Delta Stewardship Council | 2,850,000 | 2,850,000 | 0 | 0 |
| Energy Commission | 194,354,000 | 0 | 194,354,000 | 0 |
| Environmental Health Hazard Assessment, Office of | 11,795,522 | 11,366,608 | 428,914 | 0 |
| Fish and Wildlife, Department of | 360,000 | 360,000 | 0 | 0 |
| Food and Agriculture, Department of | 4,041,669 | 0 | 4,041,669 | 0 |
| Forestry and Fire Protection, Department of | 1,143,564 | 469,909 | 673,655 | 0 |
| Horse Racing Board | 659,000 | 0 | 659,000 | 0 |
| Industrial Relations, Department of | 40,682 | 0 | 40,682 | 0 |
| Institute for Regenerative Medicine | 198,649,268 | 0 | 198,649,268 | 0 |
| Motor Vehicles, Department of | 1,287,082 | 1,175,660 | 111,422 | 0 |
| Pesticide Regulation, Department of | 10,211,000 | 6,179,000 | 4,032,000 | 0 |
| Public Health, Environmental Health Laboratory Branch, Department of | 250,000 | 250,000 | 0 | 0 |
| Public Health, Food and Drug Branch, Science and Education, Department of | 1,000,000 | 1,000,000 | 0 | 0 |
| Public Health, Genetic Disease, Department of | 603,000 | 603,000 | 0 | 0 |
| Public Utilities Commission, Communications Division | 1,135,474 | 0 | 1,135,474 | 0 |
| Resources Recycling and Recovery, Department of | 1,844,832 | 0 | 1,844,832 | 0 |
| Seismic Safety Commission | 920,490 | 0 | 920,490 | 0 |
| Social Services, Department of | 100,826 | 100,826 | 0 | 0 |
| State Coastal Conservancy | 73,833 | 5,000 | 68,833 | 0 |
| State Water Resources Control Board | 650,000 | 0 | 650,000 | 0 |
| Transportation, Department of | 34,951,005 | 11,703,000 | 23,248,005 | 0 |
| Water Resources, Department of | 7,596,623 | 2,056,581 | 5,540,042 | 0 |

TABLE 19. State agency expenditures for R&D and R&D plant, by state, department or agency, and R&D performer: FY 2015
(Dollars)

| Department or agency | R&D performers ^a | | | R&D plant |
|------------------------------------------------------------|-----------------------------|------------|-------------|-----------|
| | All | Intramural | Extramural | |
| Colorado | 16,321,056 | 8,467,517 | 7,853,539 | 0 |
| Economic Development and International Trade, Office of | 2,809,069 | 0 | 2,809,069 | 0 |
| Higher Education Competitive, Research Authority | 2,314,761 | 0 | 2,314,761 | 0 |
| Natural Resources, Department of | 6,928,752 | 6,288,045 | 640,707 | 0 |
| Public Health and Environment, Department of | 1,156,437 | 200,000 | 956,437 | 0 |
| Public Safety, Department of | 992,092 | 909,092 | 83,000 | 0 |
| Transportation, Department of | 1,896,210 | 846,645 | 1,049,565 | 0 |
| Wine Industry Development Board | 223,735 | 223,735 | 0 | 0 |
| Connecticut | 55,816,528 | 21,885,609 | 33,930,919 | 0 |
| Aging, Department on | 62,752 | 0 | 62,752 | 0 |
| Agricultural Experiment Station | 10,842,422 | 10,842,422 | 0 | 0 |
| Energy and Environmental Protection, Department of | 6,725,328 | 5,900,448 | 824,880 | 0 |
| Innovation Inc. | 18,820,358 | 0 | 18,820,358 | 0 |
| Mental Health and Addiction Services, Department of | 5,203,948 | 4,021,385 | 1,182,563 | 0 |
| Public Health, Department of | 7,387,895 | 3,874 | 7,384,021 | 0 |
| Social Services, Department of | 1,363,958 | 0 | 1,363,958 | 0 |
| Transportation, Department of | 5,409,867 | 1,117,480 | 4,292,387 | 0 |
| Delaware | 2,199,635 | 1,709,791 | 489,844 | 30,000 |
| Geological Survey | 1,672,991 | 1,622,991 | 50,000 | 30,000 |
| Natural Resources and Environmental Control, Department of | 375,023 | 76,800 | 298,223 | 0 |
| Sustainable Energy Unit | 10,000 | 10,000 | 0 | 0 |
| Transportation, Department of | 141,621 | 0 | 141,621 | 0 |
| District of Columbia | 3,216,073 | 1,541,038 | 1,675,035 | 0 |
| Health, Department of | 312,696 | 145,330 | 167,366 | 0 |
| Transportation, Department of | 903,377 | 395,708 | 507,669 | 0 |
| Water and Sewer Authority | 2,000,000 | 1,000,000 | 1,000,000 | 0 |
| Florida | 191,598,669 | 45,015,557 | 146,583,112 | 1,626,826 |
| Agriculture and Consumer Services, Department of | 29,138,531 | 2,905,288 | 26,233,243 | 370,885 |
| Citrus, Department of | 3,435,397 | 133,351 | 3,302,046 | 0 |
| Fish and Wildlife Conservation Commission | 46,840,673 | 41,976,918 | 4,863,755 | 1,255,941 |
| Health, Department of | 101,063,013 | 0 | 101,063,013 | 0 |
| Space Florida | 1,350,000 | 0 | 1,350,000 | 0 |
| Transportation, Department of | 9,771,055 | 0 | 9,771,055 | 0 |
| Georgia | 10,052,848 | 1,709,229 | 8,343,619 | 571,455 |
| Environmental Finance Authority | 1,276,375 | 0 | 1,276,375 | 571,455 |
| Natural Resources Wildlife Division, Department of | 1,785,933 | 194,020 | 1,591,913 | 0 |
| Southern States Energy Board | 3,148,268 | 1,515,209 | 1,633,059 | 0 |
| Transportation, Department of | 3,842,272 | 0 | 3,842,272 | 0 |
| Hawaii | 11,520,961 | 1,659,573 | 9,861,388 | 22,099 |
| Agriculture, Department of | 60,000 | 60,000 | 0 | 0 |
| Business, Economic Development, and Tourism, Department of | 2,273,071 | 0 | 2,273,071 | 22,099 |
| Land and Natural Resources, Department of | 7,849,438 | 1,336,076 | 6,513,362 | 0 |
| Transportation, Department of | 1,338,452 | 263,497 | 1,074,955 | 0 |
| Idaho | 12,935,976 | 6,469,463 | 6,466,513 | 0 |
| Barley Commission | 346,105 | 0 | 346,105 | 0 |
| Bean Commission | 65,930 | 0 | 65,930 | 0 |
| Commerce, Department of | 964,154 | 13,300 | 950,854 | 0 |
| Environmental Quality, Department of | 620,407 | 0 | 620,407 | 0 |
| Fish and Game, Department of | 7,051,382 | 6,161,747 | 889,635 | 0 |
| Oilseed Commission | 30,000 | 0 | 30,000 | 0 |
| Pea and Lentil Commission | 144,725 | 0 | 144,725 | 0 |
| Potato Commission | 1,038,040 | 0 | 1,038,040 | 0 |
| Transportation Department | 1,436,567 | 186,916 | 1,249,651 | 0 |

TABLE 19. State agency expenditures for R&D and R&D plant, by state, department or agency, and R&D performer: FY 2015
(Dollars)

| Department or agency | R&D performers ^a | | | R&D plant |
|-------------------------------------------------------------------|-----------------------------|------------|------------|-----------|
| | All | Intramural | Extramural | |
| Water Resources, Department of | 300,000 | 100,000 | 200,000 | 0 |
| Wheat Commission | 938,666 | 7,500 | 931,166 | 0 |
| Illinois | 30,817,406 | 1,550,890 | 29,266,516 | 0 |
| Children and Family Services, Department of | 2,853,572 | 0 | 2,853,572 | 0 |
| Commerce and Economic Opportunity, Department of | 15,798,322 | 0 | 15,798,322 | 0 |
| Housing Development Authority | 10,200 | 10,200 | 0 | 0 |
| Human Services, Department of | 61,316 | 0 | 61,316 | 0 |
| Public Health, Department of | 2,491,629 | 0 | 2,491,629 | 0 |
| Transportation, Department of | 9,602,367 | 1,540,690 | 8,061,677 | 0 |
| Indiana | 9,987,058 | 657,583 | 9,329,475 | 0 |
| Criminal Justice Institute | 640,000 | 240,000 | 400,000 | 0 |
| Economic Development Corporation | 1,488,480 | 0 | 1,488,480 | 0 |
| Kankakee River Basin Commission | 114,000 | 0 | 114,000 | 0 |
| Natural Resources, Department of | 250,000 | 0 | 250,000 | 0 |
| St. Joseph River Basin Commission | 10,964 | 3,273 | 7,691 | 0 |
| Transportation, Department of | 7,483,614 | 414,310 | 7,069,304 | 0 |
| Iowa | 11,277,534 | 3,696,335 | 7,581,199 | 102,150 |
| Economic Development Authority, Energy Office | 710,522 | 0 | 710,522 | 0 |
| Human Rights, Criminal and Juvenile Justice Planning, Division of | 457,808 | 457,808 | 0 | 0 |
| Natural Resources, Department of | 4,279,253 | 3,156,308 | 1,122,945 | 102,150 |
| Transportation, Department of | 5,829,951 | 82,219 | 5,747,732 | 0 |
| Kansas | 5,469,052 | 1,333,800 | 4,135,252 | 0 |
| State Board of Regents | 132,582 | 37,557 | 95,025 | 0 |
| Transportation, Department of | 3,749,587 | 1,296,243 | 2,453,344 | 0 |
| Water Office | 258,099 | 0 | 258,099 | 0 |
| Wheat Commission | 1,328,784 | 0 | 1,328,784 | 0 |
| Kentucky | 17,256,496 | 2,734,444 | 14,522,052 | 0 |
| Early Childhood Development, Governor's Office of | 53,264 | 0 | 53,264 | 0 |
| Economic Development, Cabinet for | 5,450,000 | 0 | 5,450,000 | 0 |
| Education Professional Standards Board | 668,491 | 316,003 | 352,488 | 0 |
| Energy Development and Independence, Department for | 1,667,000 | 0 | 1,667,000 | 0 |
| Fish and Wildlife Resources, Department of | 2,520,000 | 2,000,000 | 520,000 | 0 |
| Highways, Department of | 6,294,300 | 0 | 6,294,300 | 0 |
| Horse Racing Commission | 150,000 | 0 | 150,000 | 0 |
| Public Health, Department for | 34,000 | 0 | 34,000 | 0 |
| State Nature Preserves Commission | 32,100 | 31,100 | 1,000 | 0 |
| Vocational Rehabilitation, Office of | 387,341 | 387,341 | 0 | 0 |
| Louisiana | 32,175,199 | 9,325,390 | 22,849,809 | 8,921,635 |
| Agriculture and Forestry, Department of | 9,167 | 0 | 9,167 | 0 |
| Coastal Protection and Restoration Authority | 18,116,032 | 875,390 | 17,240,642 | 8,921,635 |
| Transportation and Development, Department of | 11,000,000 | 6,000,000 | 5,000,000 | 0 |
| Wildlife and Fisheries, Department of | 3,050,000 | 2,450,000 | 600,000 | 0 |
| Maine | 12,609,815 | 2,911,504 | 9,698,311 | 3,000 |
| Agriculture, Conservation and Forestry, Department of | 685,927 | 530,221 | 155,706 | 0 |
| Environmental Protection, Department of | 220,000 | 145,000 | 75,000 | 0 |
| Governor's Energy Office | 119,000 | 0 | 119,000 | 0 |
| Health and Human Services, Department of | 60,030 | 60,030 | 0 | 0 |
| Inland Fisheries and Wildlife, Department of | 101,759 | 101,759 | 0 | 0 |
| Marine Resources, Department of | 1,902,099 | 1,815,494 | 86,605 | 0 |
| State Fire Marshal's Office | 18,000 | 15,000 | 3,000 | 3,000 |
| Technology Institute | 8,500,000 | 0 | 8,500,000 | 0 |
| Transportation, Department of | 1,003,000 | 244,000 | 759,000 | 0 |

TABLE 19. State agency expenditures for R&D and R&D plant, by state, department or agency, and R&D performer: FY 2015
(Dollars)

| Department or agency | R&D performers ^a | | | R&D plant |
|-------------------------------------------------------|-----------------------------|------------|------------|-----------|
| | All | Intramural | Extramural | |
| Maryland | 24,852,978 | 846,300 | 24,006,678 | 0 |
| Health and Mental Hygiene, Department of | 7,000,000 | 0 | 7,000,000 | 0 |
| Natural Resources, Department of | 2,081,134 | 556,300 | 1,524,834 | 0 |
| Technology Development Corporation | 14,100,000 | 0 | 14,100,000 | 0 |
| Transportation, Department of | 1,671,844 | 290,000 | 1,381,844 | 0 |
| Massachusetts | 22,664,539 | 11,254,392 | 11,410,147 | 2,275,001 |
| Clean Energy Center | 4,948,471 | 0 | 4,948,471 | 0 |
| Environmental Protection, Department of | 182,617 | 123,237 | 59,380 | 0 |
| Fish and Game, Department of | 12,083,700 | 11,023,700 | 1,060,000 | 2,275,000 |
| Mass Life Science Center | 3,213,698 | 0 | 3,213,698 | 0 |
| Mental Health, Department of | 1,752,150 | 7,455 | 1,744,695 | 1 |
| Public Health, Department of | 283,903 | 0 | 283,903 | 0 |
| Water Resources Authority | 200,000 | 100,000 | 100,000 | 0 |
| Michigan | 12,675,635 | 702,187 | 11,973,448 | 0 |
| Agriculture and Rural Development, Department of | 3,150,111 | 0 | 3,150,111 | 0 |
| Environmental Quality, Department of | 90,526 | 470 | 90,056 | 0 |
| Natural Resources, Department of | 3,934,998 | 701,717 | 3,233,281 | 0 |
| Transportation, Department of | 5,500,000 | 0 | 5,500,000 | 0 |
| Minnesota | 21,455,746 | 2,828,032 | 18,627,714 | 854,675 |
| Agriculture, Department of | 6,336,162 | 2,407,206 | 3,928,956 | 0 |
| Employment and Economic Development, Department of | 2,500,000 | 0 | 2,500,000 | 0 |
| Forest Resources Council | 90,000 | 65,000 | 25,000 | 0 |
| Pollution Control Agency | 534,262 | 0 | 534,262 | 0 |
| Transportation, Department of | 11,995,322 | 355,826 | 11,639,496 | 854,675 |
| Mississippi | 780,616 | 252,513 | 528,103 | 224,750 |
| Transportation, Department of | 236,219 | 22,635 | 213,584 | 0 |
| Wildlife, Fisheries, and Parks, Department of | 544,397 | 229,878 | 314,519 | 224,750 |
| Missouri | 9,806,222 | 1,150,753 | 8,655,469 | 0 |
| Agriculture, Department of | 813,834 | 0 | 813,834 | 0 |
| Conservation, Department of | 4,319,494 | 981,119 | 3,338,375 | 0 |
| Health and Senior Services, Department of | 48,741 | 48,741 | 0 | 0 |
| Natural Resources, Department of | 558,123 | 120,893 | 437,230 | 0 |
| Transportation, Department of | 4,066,030 | 0 | 4,066,030 | 0 |
| Montana | 10,362,726 | 2,273,458 | 8,089,268 | 0 |
| Agriculture, Department of | 2,143,438 | 0 | 2,143,438 | 0 |
| Environmental Quality, Department of | 310,952 | 122,710 | 188,242 | 0 |
| Fish, Wildlife and Parks | 2,853,805 | 1,974,748 | 879,057 | 0 |
| Natural Resources and Conservation, Department of | 385,690 | 0 | 385,690 | 0 |
| Research and Commercialization, Board of | 1,052,000 | 0 | 1,052,000 | 0 |
| Transportation, Department of | 1,663,000 | 176,000 | 1,487,000 | 0 |
| Wheat and Barley Committee | 1,953,841 | 0 | 1,953,841 | 0 |
| Nebraska | 5,475,420 | 534,852 | 4,940,568 | 0 |
| Agriculture, Department of | 377,452 | 336,212 | 41,240 | 0 |
| Corn Board | 699,960 | 0 | 699,960 | 0 |
| Dry Bean Commission | 153,182 | 0 | 153,182 | 0 |
| Economic Development, Department of | 1,536,378 | 0 | 1,536,378 | 0 |
| Natural Resources, Department of | 529,071 | 189,959 | 339,112 | 0 |
| Roads, Department of | 1,782,264 | 8,681 | 1,773,583 | 0 |
| Wheat Board | 397,113 | 0 | 397,113 | 0 |
| Nevada | 3,107,166 | 3,893 | 3,103,273 | 0 |
| Commission on Mineral Resources, Division of Minerals | 100,000 | 0 | 100,000 | 0 |
| Transportation, Department of | 2,914,364 | 0 | 2,914,364 | 0 |
| Wildlife, Department of | 92,802 | 3,893 | 88,909 | 0 |

TABLE 19. State agency expenditures for R&D and R&D plant, by state, department or agency, and R&D performer: FY 2015
(Dollars)

| Department or agency | R&D performers ^a | | | R&D plant |
|------------------------------------------------------------------|-----------------------------|-------------|-------------|-----------|
| | All | Intramural | Extramural | |
| New Hampshire | 1,607,080 | 82,781 | 1,524,299 | 0 |
| Agriculture, Markets and Food, Department of | 135,899 | 0 | 135,899 | 0 |
| Environmental Services, Department of | 218,981 | 68,981 | 150,000 | 0 |
| Resources and Economic Development, Department of | 300,000 | 0 | 300,000 | 0 |
| Transportation, Department of | 952,200 | 13,800 | 938,400 | 0 |
| New Jersey | 33,756,028 | 1,864,000 | 31,892,028 | 0 |
| Brain Injury Research, Commission on | 6,396,368 | 0 | 6,396,368 | 0 |
| Cancer Research, Commission on | 1,500,000 | 0 | 1,500,000 | 0 |
| Environmental Protection, Department of | 2,721,846 | 1,864,000 | 857,846 | 0 |
| Health, Department of | 10,980,769 | 0 | 10,980,769 | 0 |
| Medical Research and Treatment of Autism, Governor's Council for | 4,784,247 | 0 | 4,784,247 | 0 |
| Spinal Cord Research, Commission on | 3,573,956 | 0 | 3,573,956 | 0 |
| Transportation, Department of | 3,798,842 | 0 | 3,798,842 | 0 |
| New Mexico | 52,302,976 | 2,539,877 | 49,763,099 | 103,253 |
| Cultural Affairs, Department of | 1,237,700 | 1,237,700 | 0 | 0 |
| Game and Fish, Department of | 1,000,000 | 500,000 | 500,000 | 0 |
| Higher Education Department | 48,218,100 | 0 | 48,218,100 | 0 |
| Miners' Colfax Medical Center | 25,000 | 10,180 | 14,820 | 0 |
| State Engineer, Water Resource Allocation Program, Office of | 88,062 | 12,686 | 75,376 | 0 |
| Transportation, Department of | 1,734,114 | 779,311 | 954,803 | 103,253 |
| New York | 365,551,926 | 241,920,626 | 123,631,300 | 8,000,000 |
| Agriculture and Markets, Department of | 3,765,993 | 2,000,000 | 1,765,993 | 0 |
| Economic Development, Department of | 49,698,758 | 802,758 | 48,896,000 | 0 |
| Energy Research and Development Authority | 48,568,115 | 10,726,706 | 37,841,409 | 0 |
| Environmental Conservation, Department of | 5,832,656 | 2,837,743 | 2,994,913 | 0 |
| Health, Department of | 43,250,554 | 32,085,201 | 11,165,353 | 8,000,000 |
| Mental Health, Office of | 132,887,190 | 117,117,415 | 15,769,775 | 0 |
| People with Developmental Disabilities, Office of | 4,228,430 | 4,228,430 | 0 | 0 |
| Power Authority | 839,178 | 24,029 | 815,149 | 0 |
| Roswell Park Cancer Institute | 61,800,000 | 61,800,000 | 0 | 0 |
| State Museum | 10,121,651 | 8,305,495 | 1,816,156 | 0 |
| Thoroughbred Breeding and Development Fund Corp. | 439,108 | 0 | 439,108 | 0 |
| Transportation, Department of | 4,120,293 | 1,992,849 | 2,127,444 | 0 |
| North Carolina | 34,002,384 | 14,429,283 | 19,573,101 | 100,000 |
| Agriculture and Consumer Services, Department of | 13,000,000 | 12,000,000 | 1,000,000 | 100,000 |
| Environmental Quality, Department of | 2,079,756 | 1,676,602 | 403,154 | 0 |
| Science, Technology and Innovation, Office of | 12,037,647 | 0 | 12,037,647 | 0 |
| Transportation, Department of | 6,834,981 | 752,681 | 6,082,300 | 0 |
| Wine and Grape Growers Council | 50,000 | 0 | 50,000 | 0 |
| North Dakota | 9,611,936 | 1,189,828 | 8,422,108 | 0 |
| Agriculture, Department of | 244,764 | 0 | 244,764 | 0 |
| Game and Fish, Department of | 825,000 | 825,000 | 0 | 0 |
| Lignite Research Council | 943,377 | 252,500 | 690,877 | 0 |
| Oil and Gas Research Program | 4,017,199 | 52,557 | 3,964,642 | 0 |
| Renewable Energy Research Program | 745,155 | 36,976 | 708,179 | 0 |
| Soybean Council | 1,233,438 | 0 | 1,233,438 | 0 |
| Transportation, Department of | 407,000 | 22,795 | 384,205 | 0 |
| Wheat Commission | 1,196,003 | 0 | 1,196,003 | 0 |
| Ohio | 94,299,294 | 864,161 | 93,435,133 | 0 |
| Development Services Agency | 83,483,581 | 0 | 83,483,581 | 0 |
| Mental Health and Addiction Services, Department of | 820,000 | 190,000 | 630,000 | 0 |
| Natural Resources, Department of | 1,201,332 | 564,161 | 637,171 | 0 |
| Transportation, Department of | 7,022,666 | 110,000 | 6,912,666 | 0 |
| Water Development Authority | 1,771,715 | 0 | 1,771,715 | 0 |

TABLE 19. State agency expenditures for R&D and R&D plant, by state, department or agency, and R&D performer: FY 2015
(Dollars)

| Department or agency | R&D performers ^a | | | R&D plant |
|-------------------------------------------------------|-----------------------------|------------|------------|-----------|
| | All | Intramural | Extramural | |
| Oklahoma | 29,952,934 | 350,570 | 29,602,364 | 321,785 |
| Advancement of Science and Technology, Center for the | 10,665,489 | 0 | 10,665,489 | 321,785 |
| Agriculture, Food, and Forestry, Department of | 685,666 | 0 | 685,666 | 0 |
| Grand River Dam Authority | 260,000 | 0 | 260,000 | 0 |
| Health, State Department of | 170,570 | 5,570 | 165,000 | 0 |
| Human Services, Department of | 385,000 | 345,000 | 40,000 | 0 |
| Sorghum Commission | 45,000 | 0 | 45,000 | 0 |
| Tobacco Settlement Endowment Trust | 10,072,460 | 0 | 10,072,460 | 0 |
| Transportation, Department of | 3,342,249 | 0 | 3,342,249 | 0 |
| Wheat Commission | 326,500 | 0 | 326,500 | 0 |
| Wildlife Conservation, Department of | 4,000,000 | 0 | 4,000,000 | 0 |
| Oregon | 31,990,073 | 18,022,139 | 13,967,934 | 1,400,000 |
| Agriculture, Department of | 190,591 | 0 | 190,591 | 0 |
| Business Development Department | 10,650,000 | 0 | 10,650,000 | 1,400,000 |
| Energy, Department of | 557,172 | 226,036 | 331,136 | 0 |
| Environmental Quality, Department of | 10,000 | 0 | 10,000 | 0 |
| Fish and Wildlife, Department of | 17,093,348 | 16,942,348 | 151,000 | 0 |
| Forestry, Department of | 871,221 | 677,205 | 194,016 | 0 |
| Transportation, Department of | 2,188,000 | 54,000 | 2,134,000 | 0 |
| Water Resources Department | 125,000 | 100,000 | 25,000 | 0 |
| Watershed Enhancement Board | 304,741 | 22,550 | 282,191 | 0 |
| Pennsylvania | 75,024,127 | 7,387,261 | 67,636,866 | 6,725,842 |
| Agriculture, Department of | 787,000 | 0 | 787,000 | 0 |
| Community and Economic Development, Department of | 18,050,000 | 0 | 18,050,000 | 0 |
| Conservation and Natural Resources, Department of | 163,856 | 63,348 | 100,508 | 0 |
| Education, Department of | 35,000 | 35,000 | 0 | 0 |
| Energy Development Authority | 24,974 | 0 | 24,974 | 0 |
| Environmental Protection, Department of | 2,390,366 | 639,112 | 1,751,254 | 0 |
| Fish and Boat Commission | 150,670 | 76,261 | 74,409 | 0 |
| Game Commission | 6,731,990 | 5,806,790 | 925,200 | 0 |
| Health, Department of | 43,529,698 | 0 | 43,529,698 | 6,725,842 |
| Susquehanna River Basin Commission | 922,294 | 766,750 | 155,544 | 0 |
| Transportation, Department of | 2,238,279 | 0 | 2,238,279 | 0 |
| Rhode Island | 2,594,978 | 281,200 | 2,313,778 | 0 |
| Atomic Energy Commission | 1,200 | 1,200 | 0 | 0 |
| Commerce Corporation | 1,101,985 | 0 | 1,101,985 | 0 |
| Transportation, Department of | 1,436,793 | 280,000 | 1,156,793 | 0 |
| Water Resources Board | 55,000 | 0 | 55,000 | 0 |
| South Carolina | 27,419,285 | 22,351,601 | 5,067,684 | 0 |
| Agriculture, Department of | 498,748 | 0 | 498,748 | 0 |
| Commerce, Department of | 78,500 | 0 | 78,500 | 0 |
| Mental Health, Department of | 100,884 | 0 | 100,884 | 0 |
| Natural Resources, Department of | 22,199,381 | 20,998,966 | 1,200,415 | 0 |
| Research Authority | 1,619,056 | 1,207,150 | 411,906 | 0 |
| Sea Grant Consortium | 1,067,761 | 0 | 1,067,761 | 0 |
| Transportation, Department of | 1,854,955 | 145,485 | 1,709,470 | 0 |
| South Dakota | 4,211,838 | 240,000 | 3,971,838 | 0 |
| Corn Utilization Council | 1,154,000 | 0 | 1,154,000 | 0 |
| Oilseeds Council | 45,000 | 0 | 45,000 | 0 |
| Pork Producers Council | 15,000 | 0 | 15,000 | 0 |
| Science and Technology Authority | 26,862 | 0 | 26,862 | 0 |
| Soybean Research and Promotion Council | 1,176,375 | 0 | 1,176,375 | 0 |
| Transportation, Department of | 1,256,834 | 240,000 | 1,016,834 | 0 |
| Weed and Pest Control Commission | 37,767 | 0 | 37,767 | 0 |
| Wheat Commission | 500,000 | 0 | 500,000 | 0 |

TABLE 19. State agency expenditures for R&D and R&D plant, by state, department or agency, and R&D performer: FY 2015
(Dollars)

| Department or agency | R&D performers ^a | | | R&D plant |
|---------------------------------------------------------------------------------------|-----------------------------|------------|-------------|-----------|
| | All | Intramural | Extramural | |
| Tennessee | 3,828,567 | 531,871 | 3,296,696 | 0 |
| Environment and Conservation, Department of | 259,299 | 219,299 | 40,000 | 0 |
| Geological Survey | 312,572 | 312,572 | 0 | 0 |
| Transportation, Department of | 3,256,696 | 0 | 3,256,696 | 0 |
| Texas | 185,094,332 | 2,745,383 | 182,348,949 | 0 |
| Agriculture, Department of | 761,154 | 0 | 761,154 | 0 |
| Cancer Prevention and Research Institute | 145,241,410 | 0 | 145,241,410 | 0 |
| Council on Alzheimer's Disease | 4,750,000 | 0 | 4,750,000 | 0 |
| Environmental Quality, Commission on | 1,000,000 | 0 | 1,000,000 | 0 |
| Parks and Wildlife Department | 10,901,637 | 2,745,383 | 8,156,254 | 0 |
| Transportation, Department of | 19,803,109 | 0 | 19,803,109 | 0 |
| Water Development Board | 2,637,022 | 0 | 2,637,022 | 0 |
| Utah | 38,168,197 | 18,192,260 | 19,975,937 | 1,901,000 |
| Agriculture and Food, Department of | 431,198 | 41,155 | 390,043 | 0 |
| Economic Development | 2,107,486 | 0 | 2,107,486 | 0 |
| Natural Resources, Department of | 17,100,000 | 17,100,000 | 0 | 0 |
| Science Technology and Research Initiative, Governor's Office of Economic Development | 17,058,613 | 423,705 | 16,634,908 | 1,900,000 |
| Transportation, Department of | 1,470,900 | 627,400 | 843,500 | 1,000 |
| Vermont | 2,199,082 | 555,772 | 1,643,310 | 107,058 |
| Agriculture, Food, and Markets, Agency of | 582,420 | 209,616 | 372,804 | 107,058 |
| Economic Development Authority | 515,612 | 0 | 515,612 | 0 |
| Human Services, Agency of | 152,706 | 152,706 | 0 | 0 |
| Natural Resources, Agency of | 32,441 | 0 | 32,441 | 0 |
| Public Service Department | 122,898 | 15,000 | 107,898 | 0 |
| Transportation, Agency of | 793,005 | 178,450 | 614,555 | 0 |
| Virginia | 43,615,877 | 14,190,632 | 29,425,245 | 1,605,200 |
| Aging and Rehabilitation, Department of | 29,628 | 29,628 | 0 | 0 |
| Agriculture and Consumer Services, Department of | 1,075,676 | 0 | 1,075,676 | 0 |
| Commonwealth Health Research Board | 892,552 | 0 | 892,552 | 0 |
| Environmental Quality, Department of | 2,308,956 | 0 | 2,308,956 | 0 |
| Forensic Science, Department of | 271,000 | 271,000 | 0 | 0 |
| Forestry, Department of | 400,904 | 0 | 400,904 | 0 |
| Foundation for Healthy Youth | 640,933 | 0 | 640,933 | 0 |
| Game and Inland Fisheries, Department of | 1,689,294 | 0 | 1,689,294 | 0 |
| General Services, Department of | 55,000 | 55,000 | 0 | 0 |
| Innovative Technology, Center for | 3,914,000 | 1,114,000 | 2,800,000 | 0 |
| Marine Resources Commission | 2,226,921 | 0 | 2,226,921 | 0 |
| Mines, Minerals and Energy, Department of | 2,192,061 | 1,320,668 | 871,393 | 0 |
| Natural History, Museum of | 650,570 | 650,570 | 0 | 0 |
| Social Services, Department of | 35,000 | 35,000 | 0 | 0 |
| Tobacco Region Revitalization Commission | 9,678,856 | 0 | 9,678,856 | 0 |
| Transportation, Department of | 17,554,526 | 10,714,766 | 6,839,760 | 1,605,200 |
| Washington | 36,918,558 | 10,470,091 | 26,448,467 | 0 |
| Agriculture, Department of | 2,500,896 | 0 | 2,500,896 | 0 |
| Alfalfa Seed Commission | 34,000 | 0 | 34,000 | 0 |
| Archaeology and Historic Preservation, Department of | 378,127 | 378,127 | 0 | 0 |
| Asparagus Commission | 62,000 | 0 | 62,000 | 0 |
| Beef Commission | 15,000 | 0 | 15,000 | 0 |
| Blueberry Commission | 150,000 | 0 | 150,000 | 0 |
| Cranberry Commission | 15,152 | 0 | 15,152 | 0 |
| Dairy Products Commission | 107,675 | 0 | 107,675 | 0 |
| Dry Pea and Lentil Commission | 262,570 | 0 | 262,570 | 0 |
| Ecology, Department of | 1,054,265 | 899,377 | 154,888 | 0 |
| Fish and Wildlife, Department of | 4,936,117 | 4,936,117 | 0 | 0 |

TABLE 19. State agency expenditures for R&D and R&D plant, by state, department or agency, and R&D performer: FY 2015
(Dollars)

| Department or agency | R&D performers ^a | | | R&D plant |
|-----------------------------------------------------------------------|-----------------------------|------------|------------|-----------|
| | All | Intramural | Extramural | |
| Fruit Commission | 15,000 | 0 | 15,000 | 0 |
| Grain Commission | 2,391,171 | 0 | 2,391,171 | 0 |
| Hop Commission | 167,528 | 0 | 167,528 | 0 |
| Labor and Industries, Department of | 2,907,584 | 2,907,584 | 0 | 0 |
| Life Sciences Discovery Fund | 8,364,171 | 0 | 8,364,171 | 0 |
| Mint Commission | 24,147 | 0 | 24,147 | 0 |
| Natural Resources, Department of | 3,149,971 | 1,336,586 | 1,813,385 | 0 |
| Oilseeds Commission | 9,000 | 0 | 9,000 | 0 |
| Pesticide Registration, Commission of | 385,113 | 0 | 385,113 | 0 |
| Potato Commission | 854,111 | 0 | 854,111 | 0 |
| Puget Sound Partnership | 558,072 | 12,300 | 545,772 | 0 |
| Red Raspberry Commission | 268,388 | 0 | 268,388 | 0 |
| Seed Potato Commission | 20,000 | 0 | 20,000 | 0 |
| Transportation, Department of | 5,450,000 | 0 | 5,450,000 | 0 |
| Tree Fruit Research Commission | 2,640,000 | 0 | 2,640,000 | 0 |
| Turfgrass Commission | 23,500 | 0 | 23,500 | 0 |
| Wine Commission | 175,000 | 0 | 175,000 | 0 |
| West Virginia | 11,481,903 | 4,728,205 | 6,753,698 | 0 |
| Geological and Economic Survey | 3,084,623 | 1,879,326 | 1,205,297 | 0 |
| Higher Education Policy Commission | 6,189,639 | 641,238 | 5,548,401 | 0 |
| Justice and Community Services, Division of | 13,719 | 13,719 | 0 | 0 |
| Transportation, Department of | 2,193,922 | 2,193,922 | 0 | 0 |
| Wisconsin | 14,517,671 | 6,547,800 | 7,969,871 | 0 |
| Agriculture, Trade and Consumer Protection, Department of | 841,890 | 0 | 841,890 | 0 |
| Economic Development Corporation | 3,000,000 | 0 | 3,000,000 | 0 |
| Natural Resources, Department of | 7,569,100 | 6,091,100 | 1,478,000 | 0 |
| Transportation, Department of | 3,106,681 | 456,700 | 2,649,981 | 0 |
| Wyoming | 5,160,617 | 1,883,135 | 3,277,482 | 0 |
| Agriculture, Department of | 100,000 | 0 | 100,000 | 0 |
| Enhanced Oil Recovery Commission | 250,000 | 0 | 250,000 | 0 |
| Game and Fish Department | 1,826,682 | 1,630,215 | 196,467 | 0 |
| State Engineer, Office of | 80,000 | 0 | 80,000 | 0 |
| State Geological Survey | 248,879 | 248,879 | 0 | 0 |
| Transportation, Department of | 986,181 | 4,041 | 982,140 | 0 |
| Water Development Commission | 468,875 | 0 | 468,875 | 0 |
| Wildlife and Natural Resources Trust | 1,200,000 | 0 | 1,200,000 | 0 |
| Puerto Rico ^c | 5,673,544 | 4,454,166 | 1,219,378 | 0 |
| Agriculture, Department of ^d | 649,048 | 649,048 | 0 | 0 |
| Health, Department of | 165,922 | 165,922 | 0 | 0 |
| Highways and Transportation Authority | 560,000 | 560,000 | 0 | 0 |
| Hospital San Juan ^{d,e} | 2,000,000 | 2,000,000 | 0 | 0 |
| Institute of Statistics | 568,480 | 568,480 | 0 | 0 |
| Manufacturing Extension, Incorporated ^d | 319,378 | 0 | 319,378 | 0 |
| Mental Health and Anti-Addiction Services Administration ^d | 410,716 | 410,716 | 0 | 0 |
| Natural Resources, Department of | 100,000 | 100,000 | 0 | 0 |
| Science, Technology and Research Trust ^d | 900,000 | 0 | 900,000 | 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 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 2014 and 2015.

TABLE 20. State agency expenditures for R&D for all performers, by state, department or agency, and source of funds: FY 2014
(Dollars)

| Department or agency | Total | Federal government | State and all others ^a |
|----------------------------------------------------------------------------------|---------------|--------------------|-----------------------------------|
| United States ^b | 1,885,923,321 | 482,439,349 | 1,403,483,972 |
| Alabama | 18,532,534 | 7,543,639 | 10,988,895 |
| Choctawhatchee, Pea and Yellow River Watershed Management Authority | 6,340 | 0 | 6,340 |
| Education, Department of | 30,000 | 0 | 30,000 |
| Forensic Sciences, Department of | 72,431 | 0 | 72,431 |
| Geological Survey | 2,128,694 | 624,713 | 1,503,981 |
| Innovation Fund | 2,800,000 | 0 | 2,800,000 |
| Marine Environmental Science Consortium, Dauphin Island Sea Lab | 2,358,527 | 1,117,171 | 1,241,356 |
| Supercomputer Authority | 3,898,736 | 0 | 3,898,736 |
| Transportation, Department of | 7,237,806 | 5,801,755 | 1,436,051 |
| Alaska | 12,031,675 | 3,871,691 | 8,159,984 |
| Natural Resources, Division of Geological and Geophysical Surveys, Department of | 9,254,991 | 1,511,358 | 7,743,633 |
| Transportation and Public Facilities, Department of | 2,776,684 | 2,360,333 | 416,351 |
| Arizona | 18,820,149 | 8,490,200 | 10,329,949 |
| Agriculture, Department of | 1,063,107 | 933,011 | 130,096 |
| Game and Fish Department | 3,912,386 | 3,685,841 | 226,545 |
| Geological Survey | 3,701,000 | 2,862,000 | 839,000 |
| Health Services, Department of | 8,881,971 | 0 | 8,881,971 |
| Transportation, Department of | 1,261,685 | 1,009,348 | 252,337 |
| Arkansas | 14,994,903 | 5,015,200 | 9,979,703 |
| Beef Council | 10,000 | 0 | 10,000 |
| Catfish Promotion Board | 7,500 | 0 | 7,500 |
| Corn and Grain Sorghum Board | 777,000 | 0 | 777,000 |
| Economic Development Commission | 5,282,653 | 4,000,000 | 1,282,653 |
| Rice Research and Promotion Board | 2,545,040 | 0 | 2,545,040 |
| Soybean Promotion Board | 4,822,275 | 0 | 4,822,275 |
| State Highway and Transportation Department | 1,269,000 | 1,015,200 | 253,800 |
| Wheat Promotion Board | 281,435 | 0 | 281,435 |
| California | 321,958,885 | 19,504,949 | 302,453,936 |
| Air Resources Board | 17,307,789 | 0 | 17,307,789 |
| Children and Families Commission | 750,000 | 0 | 750,000 |
| Corrections and Rehabilitation, Department of | 6,500,000 | 0 | 6,500,000 |
| Delta Stewardship Council | 2,250,000 | 0 | 2,250,000 |
| Energy Commission | 18,393,000 | 0 | 18,393,000 |
| Environmental Health Hazard Assessment, Office of | 11,756,017 | 0 | 11,756,017 |
| Fish and Wildlife, Department of | 360,000 | 0 | 360,000 |
| Food and Agriculture, Department of | 3,879,645 | 43,034 | 3,836,611 |
| Forestry and Fire Protection, Department of | 803,866 | 0 | 803,866 |
| Horse Racing Board | 643,000 | 0 | 643,000 |
| Industrial Relations, Department of | 788,560 | 0 | 788,560 |
| Institute for Regenerative Medicine | 194,022,123 | 0 | 194,022,123 |
| Motor Vehicles, Department of | 2,042,738 | 552,364 | 1,490,374 |
| Pesticide Regulation, Department of | 9,072,000 | 21,000 | 9,051,000 |
| Public Health, Environmental Health Laboratory Branch, Department of | 300,000 | 200,000 | 100,000 |
| Public Health, Food and Drug Branch, Science and Education, Department of | 1,000,000 | 0 | 1,000,000 |
| Public Health, Genetic Disease, Department of | 603,000 | 400,000 | 203,000 |
| Public Utilities Commission, Communications Division | 364,610 | 291,688 | 72,922 |
| Resources Recycling and Recovery, Department of | 1,411,393 | 0 | 1,411,393 |
| Seismic Safety Commission | 99,980 | 0 | 99,980 |
| Social Services, Department of | 120,459 | 82,402 | 38,057 |
| State Coastal Conservancy | 183,200 | 49,500 | 133,700 |
| State Water Resources Control Board | 995,000 | 0 | 995,000 |
| Transportation, Department of | 34,956,150 | 17,764,961 | 17,191,189 |
| Water Resources, Department of | 13,356,355 | 100,000 | 13,256,355 |

TABLE 20. State agency expenditures for R&D for all performers, by state, department or agency, and source of funds: FY 2014
(Dollars)

| Department or agency | Total | Federal government | State and all others ^a |
|------------------------------------------------------------|-------------|--------------------|-----------------------------------|
| Colorado | 15,745,589 | 4,133,204 | 11,612,385 |
| Economic Development and International Trade, Office of | 3,523,750 | 0 | 3,523,750 |
| Higher Education Competitive, Research Authority | 1,025,000 | 0 | 1,025,000 |
| Natural Resources, Department of | 6,611,921 | 2,053,031 | 4,558,890 |
| Public Health and Environment, Department of | 1,184,052 | 0 | 1,184,052 |
| Public Safety, Department of | 904,741 | 179,741 | 725,000 |
| Transportation, Department of | 2,224,576 | 1,871,032 | 353,544 |
| Wine Industry Development Board | 271,549 | 29,400 | 242,149 |
| Connecticut | 47,405,244 | 12,150,832 | 35,254,412 |
| Agricultural Experiment Station | 10,053,249 | 3,953,367 | 6,099,882 |
| Energy and Environmental Protection, Department of | 7,275,031 | 5,484,968 | 1,790,063 |
| Green Bank | 468,000 | 0 | 468,000 |
| Innovation Inc. | 12,185,315 | 0 | 12,185,315 |
| Mental Health and Addiction Services, Department of | 4,343,791 | 187,224 | 4,156,567 |
| Public Health, Department of | 8,184,667 | 0 | 8,184,667 |
| Social Services, Department of | 959,065 | 712,528 | 246,537 |
| Transportation, Department of | 3,936,126 | 1,812,745 | 2,123,381 |
| Delaware | 2,243,868 | 691,432 | 1,552,436 |
| Geological Survey | 1,884,248 | 451,069 | 1,433,179 |
| Natural Resources and Environmental Control, Department of | 104,407 | 104,407 | 0 |
| Transportation, Department of | 255,213 | 135,956 | 119,257 |
| District of Columbia | 3,136,271 | 1,277,405 | 1,858,866 |
| Health, Department of | 641,944 | 641,944 | 0 |
| Transportation, Department of | 794,327 | 635,461 | 158,866 |
| Water and Sewer Authority | 1,700,000 | 0 | 1,700,000 |
| Florida | 157,004,903 | 25,536,046 | 131,468,857 |
| Agriculture and Consumer Services, Department of | 28,745,442 | 3,953,030 | 24,792,412 |
| Citrus, Department of | 2,784,635 | 0 | 2,784,635 |
| Environmental Protection, Department of | 12,591 | 12,591 | 0 |
| Fish and Wildlife Conservation Commission | 45,157,246 | 11,894,544 | 33,262,702 |
| Health, Department of | 65,250,000 | 0 | 65,250,000 |
| Space Florida | 1,250,000 | 0 | 1,250,000 |
| Transportation, Department of | 13,804,989 | 9,675,881 | 4,129,108 |
| Georgia | 11,776,221 | 10,548,856 | 1,227,365 |
| Environmental Finance Authority | 435,875 | 0 | 435,875 |
| Natural Resources Wildlife Division, Department of | 2,148,305 | 1,995,978 | 152,327 |
| Southern States Energy Board | 3,096,465 | 3,096,465 | 0 |
| Transportation, Department of | 6,095,576 | 5,456,413 | 639,163 |
| Hawaii | 13,125,455 | 9,214,342 | 3,911,113 |
| Agriculture, Department of | 80,000 | 80,000 | 0 |
| Business, Economic Development, and Tourism, Department of | 4,967,972 | 4,300,000 | 667,972 |
| Land and Natural Resources, Department of | 6,929,035 | 4,036,163 | 2,892,872 |
| Transportation, Department of | 1,148,448 | 798,179 | 350,269 |
| Idaho | 12,862,935 | 8,208,360 | 4,654,575 |
| Barley Commission | 335,273 | 0 | 335,273 |
| Bean Commission | 23,424 | 23,424 | 0 |
| Commerce, Department of | 632,699 | 0 | 632,699 |
| Environmental Quality, Department of | 416,787 | 265,392 | 151,395 |
| Fish and Game, Department of | 7,358,733 | 6,059,644 | 1,299,089 |
| Oilseed Commission | 28,000 | 0 | 28,000 |
| Pea and Lentil Commission | 146,369 | 0 | 146,369 |
| Potato Commission | 967,490 | 0 | 967,490 |
| Transportation Department | 2,161,329 | 1,859,900 | 301,429 |
| Wheat Commission | 792,831 | 0 | 792,831 |

TABLE 20. State agency expenditures for R&D for all performers, by state, department or agency, and source of funds: FY 2014
(Dollars)

| Department or agency | Total | Federal government | State and all others ^a |
|-------------------------------------------------------------------|------------|--------------------|-----------------------------------|
| Illinois | 24,988,306 | 7,032,929 | 17,955,377 |
| Children and Family Services, Department of | 2,746,254 | 20,015 | 2,726,239 |
| Commerce and Economic Opportunity, Department of | 11,288,985 | 0 | 11,288,985 |
| Housing Development Authority | 2,040 | 0 | 2,040 |
| Public Health, Department of | 1,433,534 | 0 | 1,433,534 |
| Transportation, Department of | 9,517,493 | 7,012,914 | 2,504,579 |
| Indiana | 23,590,723 | 9,738,835 | 13,851,888 |
| Criminal Justice Institute | 640,000 | 600,000 | 40,000 |
| Economic Development Corporation | 12,078,594 | 671,287 | 11,407,307 |
| Kankakee River Basin Commission | 34,000 | 0 | 34,000 |
| Natural Resources, Department of | 250,000 | 0 | 250,000 |
| St. Joseph River Basin Commission | 3,694 | 0 | 3,694 |
| Transportation, Department of | 10,584,435 | 8,467,548 | 2,116,887 |
| Iowa | 10,357,010 | 5,481,288 | 4,875,722 |
| Economic Development Authority, Energy Office | 1,117,561 | 0 | 1,117,561 |
| Human Rights, Criminal and Juvenile Justice Planning, Division of | 522,607 | 315,995 | 206,612 |
| Natural Resources, Department of | 4,135,147 | 2,542,474 | 1,592,673 |
| Transportation, Department of | 4,581,695 | 2,622,819 | 1,958,876 |
| Kansas | 5,326,455 | 2,360,850 | 2,965,605 |
| State Board of Regents | 107,479 | 68,724 | 38,755 |
| Transportation, Department of | 3,923,777 | 2,292,126 | 1,631,651 |
| Water Office | 166,000 | 0 | 166,000 |
| Wheat Commission | 1,129,199 | 0 | 1,129,199 |
| Kentucky | 16,756,867 | 6,866,569 | 9,890,298 |
| Early Childhood Development, Governor's Office of | 295,898 | 0 | 295,898 |
| Economic Development, Cabinet for | 5,450,000 | 0 | 5,450,000 |
| Education Professional Standards Board | 247,964 | 247,964 | 0 |
| Energy Development and Independence, Department for | 1,753,100 | 0 | 1,753,100 |
| Fish and Wildlife Resources, Department of | 2,720,000 | 2,000,000 | 720,000 |
| Highways, Department of | 5,769,400 | 4,415,400 | 1,354,000 |
| Horse Racing Commission | 250,000 | 0 | 250,000 |
| Public Health, Department for | 61,800 | 0 | 61,800 |
| State Nature Preserves Commission | 23,300 | 17,800 | 5,500 |
| Vocational Rehabilitation, Office of | 185,405 | 185,405 | 0 |
| Louisiana | 18,778,159 | 9,900,000 | 8,878,159 |
| Agriculture and Forestry, Department of | 27,333 | 0 | 27,333 |
| Coastal Protection and Restoration Authority | 4,850,826 | 0 | 4,850,826 |
| Transportation and Development, Department of | 11,000,000 | 8,800,000 | 2,200,000 |
| Wildlife and Fisheries, Department of | 2,900,000 | 1,100,000 | 1,800,000 |
| Maine | 6,857,948 | 2,038,174 | 4,819,774 |
| Agriculture, Conservation and Forestry, Department of | 513,754 | 253,754 | 260,000 |
| Environmental Protection, Department of | 200,000 | 0 | 200,000 |
| Health and Human Services, Department of | 39,688 | 3,171 | 36,517 |
| Marine Resources, Department of | 1,236,506 | 1,087,249 | 149,257 |
| Technology Institute | 4,000,000 | 0 | 4,000,000 |
| Transportation, Department of | 868,000 | 694,000 | 174,000 |
| Maryland | 29,981,260 | 1,782,810 | 28,198,450 |
| Health and Mental Hygiene, Department of | 13,000,000 | 0 | 13,000,000 |
| Natural Resources, Department of | 834,164 | 310,736 | 523,428 |
| Technology Development Corporation | 14,400,000 | 0 | 14,400,000 |
| Transportation, Department of | 1,747,096 | 1,472,074 | 275,022 |
| Massachusetts | 18,259,928 | 5,480,624 | 12,779,304 |
| Agriculture, Department of | 34,227 | 0 | 34,227 |
| Clean Energy Center | 2,590,446 | 0 | 2,590,446 |
| Environmental Protection, Department of | 181,452 | 15,588 | 165,864 |

TABLE 20. State agency expenditures for R&D for all performers, by state, department or agency, and source of funds: FY 2014
(Dollars)

| Department or agency | Total | Federal government | State and all others ^a |
|-------------------------------------------------------|------------|--------------------|-----------------------------------|
| Fish and Game, Department of | 11,172,250 | 4,333,000 | 6,839,250 |
| Mass Life Science Center | 1,107,482 | 0 | 1,107,482 |
| Mental Health, Department of | 1,756,445 | 0 | 1,756,445 |
| Public Health, Department of | 1,217,626 | 1,132,036 | 85,590 |
| Water Resources Authority | 200,000 | 0 | 200,000 |
| Michigan | 12,252,555 | 8,417,785 | 3,834,770 |
| Agriculture and Rural Development, Department of | 3,190,880 | 1,315,035 | 1,875,845 |
| Environmental Quality, Department of | 213 | 0 | 213 |
| Natural Resources, Department of | 3,561,462 | 1,877,750 | 1,683,712 |
| Transportation, Department of | 5,500,000 | 5,225,000 | 275,000 |
| Minnesota | 19,378,825 | 4,827,540 | 14,551,285 |
| Agriculture, Department of | 4,846,071 | 1,571,817 | 3,274,254 |
| Employment and Economic Development, Department of | 2,500,000 | 0 | 2,500,000 |
| Forest Resources Council | 90,000 | 0 | 90,000 |
| Pollution Control Agency | 273,994 | 0 | 273,994 |
| Transportation, Department of | 11,668,760 | 3,255,723 | 8,413,037 |
| Mississippi | 1,313,376 | 971,637 | 341,739 |
| Transportation, Department of | 475,147 | 380,118 | 95,029 |
| Wildlife, Fisheries, and Parks, Department of | 838,229 | 591,519 | 246,710 |
| Missouri | 8,436,666 | 4,488,514 | 3,948,152 |
| Agriculture, Department of | 711,626 | 0 | 711,626 |
| Conservation, Department of | 3,025,190 | 998,047 | 2,027,143 |
| Health and Senior Services, Department of | 21,534 | 8,728 | 12,806 |
| Natural Resources, Department of | 693,277 | 381,198 | 312,079 |
| Transportation, Department of | 3,985,039 | 3,100,541 | 884,498 |
| Montana | 10,428,010 | 3,254,014 | 7,173,996 |
| Agriculture, Department of | 2,409,883 | 176,176 | 2,233,707 |
| Environmental Quality, Department of | 293,361 | 164,618 | 128,743 |
| Fish, Wildlife and Parks | 2,754,248 | 1,661,220 | 1,093,028 |
| Natural Resources and Conservation, Department of | 209,882 | 0 | 209,882 |
| Research and Commercialization, Board of | 1,108,929 | 0 | 1,108,929 |
| Transportation, Department of | 1,418,000 | 1,252,000 | 166,000 |
| Wheat and Barley Committee | 2,233,707 | 0 | 2,233,707 |
| Nebraska | 6,621,771 | 1,607,015 | 5,014,756 |
| Agriculture, Department of | 471,752 | 340,481 | 131,271 |
| Corn Board | 601,604 | 0 | 601,604 |
| Dry Bean Commission | 160,059 | 0 | 160,059 |
| Economic Development, Department of | 3,341,314 | 0 | 3,341,314 |
| Grain Sorghum Board | 10,000 | 7,500 | 2,500 |
| Natural Resources, Department of | 177,710 | 0 | 177,710 |
| Roads, Department of | 1,511,003 | 1,259,034 | 251,969 |
| Wheat Board | 348,329 | 0 | 348,329 |
| Nevada | 3,438,157 | 2,771,066 | 667,091 |
| Alfalfa Seed Advisory Board | 10,000 | 0 | 10,000 |
| Commission on Mineral Resources, Division of Minerals | 100,000 | 0 | 100,000 |
| Transportation, Department of | 3,257,663 | 2,730,461 | 527,202 |
| Wildlife, Department of | 70,494 | 40,605 | 29,889 |
| New Hampshire | 1,448,090 | 959,521 | 488,569 |
| Agriculture, Markets and Food, Department of | 138,837 | 5,668 | 133,169 |
| Environmental Services, Department of | 219,853 | 219,853 | 0 |
| Resources and Economic Development, Department of | 300,000 | 0 | 300,000 |
| Transportation, Department of | 789,400 | 734,000 | 55,400 |

TABLE 20. State agency expenditures for R&D for all performers, by state, department or agency, and source of funds: FY 2014
(Dollars)

| Department or agency | Total | Federal government | State and all others ^a |
|------------------------------------------------------------------|--------------------|--------------------|-----------------------------------|
| New Jersey | 30,384,821 | 3,453,756 | 26,931,065 |
| Brain Injury Research, Commission on | 3,953,357 | 0 | 3,953,357 |
| Cancer Research, Commission on | 591,000 | 0 | 591,000 |
| Environmental Protection, Department of | 3,162,639 | 302,000 | 2,860,639 |
| Health, Department of | 13,323,746 | 0 | 13,323,746 |
| Medical Research and Treatment of Autism, Governor's Council for | 2,862,556 | 0 | 2,862,556 |
| Spinal Cord Research, Commission on | 2,804,045 | 0 | 2,804,045 |
| Transportation, Department of | 3,687,478 | 3,151,756 | 535,722 |
| New Mexico | 49,805,916 | 2,086,119 | 47,719,797 |
| Cultural Affairs, Department of | 1,156,400 | 9,000 | 1,147,400 |
| Game and Fish, Department of | 1,000,000 | 500,000 | 500,000 |
| Higher Education Department | 45,630,800 | 0 | 45,630,800 |
| Miners' Colfax Medical Center | 15,000 | 0 | 15,000 |
| State Engineer, Water Resource Allocation Program, Office of | 81,699 | 39,505 | 42,194 |
| Transportation, Department of | 1,922,017 | 1,537,614 | 384,403 |
| New York | 371,224,749 | 162,053,306 | 209,171,443 |
| Agriculture and Markets, Department of | 3,390,676 | 2,848,075 | 542,601 |
| Economic Development, Department of | 48,029,330 | 6,000,000 | 42,029,330 |
| Energy Research and Development Authority | 41,546,339 | 0 | 41,546,339 |
| Environmental Conservation, Department of | 6,069,764 | 3,462,343 | 2,607,421 |
| Health, Department of | 48,273,199 | 28,349,301 | 19,923,898 |
| Mental Health, Office of | 137,561,179 | 66,600,801 | 70,960,378 |
| People with Developmental Disabilities, Office of | 4,890,436 | 2,146,103 | 2,744,333 |
| Power Authority | 213,846 | 25,000 | 188,846 |
| Roswell Park Cancer Institute | 66,300,000 | 48,700,000 | 17,600,000 |
| State Museum | 10,471,818 | 592,696 | 9,879,122 |
| Thoroughbred Breeding and Development Fund Corp. | 441,928 | 0 | 441,928 |
| Transportation, Department of | 4,036,234 | 3,328,987 | 707,247 |
| North Carolina | 22,114,350 | 6,418,931 | 15,695,419 |
| Agriculture and Consumer Services, Department of | 13,000,000 | 0 | 13,000,000 |
| Environmental Quality, Department of | 1,886,893 | 732,611 | 1,154,282 |
| Golden LEAF | 189,391 | 0 | 189,391 |
| Transportation, Department of | 6,988,066 | 5,686,320 | 1,301,746 |
| Wine and Grape Growers Council | 50,000 | 0 | 50,000 |
| North Dakota | 10,784,572 | 1,199,176 | 9,585,396 |
| Agriculture, Department of | 112,689 | 0 | 112,689 |
| Game and Fish, Department of | 825,000 | 620,000 | 205,000 |
| Lignite Research Council | 1,419,359 | 0 | 1,419,359 |
| Oil and Gas Research Program | 3,958,048 | 0 | 3,958,048 |
| Renewable Energy Research Program | 1,481,149 | 0 | 1,481,149 |
| Soybean Council | 1,288,295 | 0 | 1,288,295 |
| Transportation, Department of | 596,824 | 579,176 | 17,648 |
| Wheat Commission | 1,103,208 | 0 | 1,103,208 |
| Ohio | 94,882,275 | 6,979,454 | 87,902,821 |
| Development Services Agency | 84,085,784 | 0 | 84,085,784 |
| Mental Health and Addiction Services, Department of | 820,000 | 0 | 820,000 |
| Natural Resources, Department of | 1,395,527 | 863,117 | 532,410 |
| Transportation, Department of | 7,645,421 | 6,116,337 | 1,529,084 |
| Water Development Authority | 935,543 | 0 | 935,543 |
| Oklahoma | 30,473,702 | 8,986,041 | 21,487,661 |
| Advancement of Science and Technology, Center for the | 10,606,717 | 0 | 10,606,717 |
| Agriculture, Food, and Forestry, Department of | 701,688 | 701,688 | 0 |
| Grand River Dam Authority | 100,000 | 0 | 100,000 |
| Health, State Department of | 170,925 | 145,425 | 25,500 |
| Human Services, Department of | 350,000 | 350,000 | 0 |
| Sorghum Commission | 60,000 | 0 | 60,000 |

TABLE 20. State agency expenditures for R&D for all performers, by state, department or agency, and source of funds: FY 2014
(Dollars)

| Department or agency | Total | Federal government | State and all others ^a |
|---------------------------------------------------|-------------|--------------------|-----------------------------------|
| Tobacco Settlement Endowment Trust | 9,187,444 | 0 | 9,187,444 |
| Transportation, Department of | 4,588,928 | 4,588,928 | 0 |
| Wheat Commission | 308,000 | 0 | 308,000 |
| Wildlife Conservation, Department of | 4,400,000 | 3,200,000 | 1,200,000 |
| Oregon | 29,679,288 | 9,815,170 | 19,864,118 |
| Agriculture, Department of | 192,060 | 0 | 192,060 |
| Business Development Department | 10,650,000 | 0 | 10,650,000 |
| Energy, Department of | 159,464 | 109,318 | 50,146 |
| Environmental Quality, Department of | 75,000 | 0 | 75,000 |
| Fish and Wildlife, Department of | 14,644,063 | 7,825,260 | 6,818,803 |
| Forestry, Department of | 871,221 | 0 | 871,221 |
| Transportation, Department of | 1,540,000 | 1,232,000 | 308,000 |
| Water Resources Department | 125,000 | 0 | 125,000 |
| Watershed Enhancement Board | 1,422,480 | 648,592 | 773,888 |
| Pennsylvania | 35,432,244 | 5,353,083 | 30,079,161 |
| Agriculture, Department of | 787,000 | 0 | 787,000 |
| Community and Economic Development, Department of | 15,748,000 | 0 | 15,748,000 |
| Conservation and Natural Resources, Department of | 266,763 | 0 | 266,763 |
| Education, Department of | 30,000 | 0 | 30,000 |
| Energy Development Authority | 110,515 | 0 | 110,515 |
| Environmental Protection, Department of | 2,740,046 | 779,364 | 1,960,682 |
| Fish and Boat Commission | 304,243 | 232,501 | 71,742 |
| Game Commission | 6,265,856 | 1,127,621 | 5,138,235 |
| Health, Department of | 5,400,000 | 0 | 5,400,000 |
| Susquehanna River Basin Commission | 683,824 | 117,600 | 566,224 |
| Transportation, Department of | 3,095,997 | 3,095,997 | 0 |
| Rhode Island | 3,225,472 | 1,251,398 | 1,974,074 |
| Atomic Energy Commission | 2,000 | 2,000 | 0 |
| Commerce Corporation | 1,591,473 | 0 | 1,591,473 |
| Transportation, Department of | 1,576,999 | 1,249,398 | 327,601 |
| Water Resources Board | 55,000 | 0 | 55,000 |
| South Carolina | 22,311,739 | 16,290,802 | 6,020,937 |
| Agriculture, Department of | 396,576 | 0 | 396,576 |
| Mental Health, Department of | 100,884 | 0 | 100,884 |
| Natural Resources, Department of | 16,932,717 | 12,396,178 | 4,536,539 |
| Research Authority | 2,637,564 | 2,007,376 | 630,188 |
| Sea Grant Consortium | 670,990 | 639,787 | 31,203 |
| Transportation, Department of | 1,573,008 | 1,247,461 | 325,547 |
| South Dakota | 5,067,005 | 1,427,976 | 3,639,029 |
| Corn Utilization Council | 1,400,000 | 0 | 1,400,000 |
| Oilseeds Council | 60,000 | 0 | 60,000 |
| Pork Producers Council | 15,000 | 0 | 15,000 |
| Science and Technology Authority | 3,779 | 3,779 | 0 |
| Soybean Research and Promotion Council | 1,197,622 | 0 | 1,197,622 |
| Transportation, Department of | 1,843,604 | 1,424,197 | 419,407 |
| Weed and Pest Control Commission | 47,000 | 0 | 47,000 |
| Wheat Commission | 500,000 | 0 | 500,000 |
| Tennessee | 4,363,565 | 3,368,748 | 994,817 |
| Environment and Conservation, Department of | 290,224 | 181,186 | 109,038 |
| Geological Survey | 292,868 | 163,184 | 129,684 |
| Transportation, Department of | 3,780,473 | 3,024,378 | 756,095 |
| Texas | 162,287,552 | 17,280,822 | 145,006,730 |
| Agriculture, Department of | 1,417,500 | 322,000 | 1,095,500 |
| Cancer Prevention and Research Institute | 127,133,911 | 0 | 127,133,911 |
| Council on Alzheimer's Disease | 4,750,000 | 0 | 4,750,000 |

TABLE 20. State agency expenditures for R&D for all performers, by state, department or agency, and source of funds: FY 2014
(Dollars)

| Department or agency | Total | Federal government | State and all others ^a |
|---------------------------------------------------------------------------------------|------------|--------------------|-----------------------------------|
| Environmental Quality, Commission on | 1,000,000 | 0 | 1,000,000 |
| Parks and Wildlife Department | 9,907,770 | 6,046,675 | 3,861,095 |
| Transportation, Department of | 13,640,184 | 10,912,147 | 2,728,037 |
| Water Development Board | 4,438,187 | 0 | 4,438,187 |
| Utah | 36,466,790 | 755,484 | 35,711,306 |
| Agriculture and Food, Department of | 355,984 | 355,984 | 0 |
| Economic Development | 1,363,375 | 0 | 1,363,375 |
| Natural Resources, Department of | 17,000,000 | 0 | 17,000,000 |
| Science Technology and Research Initiative, Governor's Office of Economic Development | 16,597,431 | 0 | 16,597,431 |
| Transportation, Department of | 1,150,000 | 399,500 | 750,500 |
| Vermont | 2,039,520 | 1,583,729 | 455,791 |
| Agriculture, Food, and Markets, Agency of | 549,826 | 360,292 | 189,534 |
| Human Services, Agency of | 170,047 | 170,047 | 0 |
| Natural Resources, Agency of | 197,945 | 197,945 | 0 |
| Public Service Department | 113,837 | 0 | 113,837 |
| Transportation, Agency of | 1,007,865 | 855,445 | 152,420 |
| Virginia | 38,456,410 | 12,583,339 | 25,873,071 |
| Aging and Rehabilitation, Department of | 30,325 | 30,325 | 0 |
| Agriculture and Consumer Services, Department of | 700,636 | 200,588 | 500,048 |
| Commonwealth Health Research Board | 692,409 | 0 | 692,409 |
| Environmental Quality, Department of | 2,188,242 | 2,188,242 | 0 |
| Forensic Science, Department of | 267,000 | 0 | 267,000 |
| Forestry, Department of | 396,188 | 69,000 | 327,188 |
| Foundation for Healthy Youth | 773,023 | 0 | 773,023 |
| Game and Inland Fisheries, Department of | 1,875,188 | 1,466,312 | 408,876 |
| General Services, Department of | 40,000 | 40,000 | 0 |
| Innovative Technology, Center for | 5,006,000 | 601,000 | 4,405,000 |
| Marine Resources Commission | 2,606,910 | 1,853,653 | 753,257 |
| Mines, Minerals and Energy, Department of | 1,857,504 | 679,704 | 1,177,800 |
| Natural History, Museum of | 701,545 | 61,939 | 639,606 |
| Social Services, Department of | 20,000 | 0 | 20,000 |
| Tobacco Region Revitalization Commission | 8,521,485 | 0 | 8,521,485 |
| Transportation, Department of | 12,779,955 | 5,392,576 | 7,387,379 |
| Washington | 38,277,525 | 11,078,789 | 27,198,736 |
| Agriculture, Department of | 1,264,557 | 1,009,881 | 254,676 |
| Alfalfa Seed Commission | 32,000 | 0 | 32,000 |
| Archaeology and Historic Preservation, Department of | 335,280 | 335,280 | 0 |
| Asparagus Commission | 57,000 | 0 | 57,000 |
| Beef Commission | 20,000 | 0 | 20,000 |
| Blueberry Commission | 149,905 | 0 | 149,905 |
| Cranberry Commission | 14,358 | 0 | 14,358 |
| Dairy Products Commission | 80,200 | 0 | 80,200 |
| Dry Pea and Lentil Commission | 245,843 | 0 | 245,843 |
| Ecology, Department of | 380,786 | 71,100 | 309,686 |
| Fish and Wildlife, Department of | 4,977,664 | 2,712,500 | 2,265,164 |
| Fruit Commission | 8,000 | 0 | 8,000 |
| Grain Commission | 2,351,631 | 0 | 2,351,631 |
| Hop Commission | 158,986 | 0 | 158,986 |
| Labor and Industries, Department of | 2,632,593 | 459,621 | 2,172,972 |
| Life Sciences Discovery Fund | 11,904,246 | 0 | 11,904,246 |
| Mint Commission | 34,605 | 0 | 34,605 |
| Natural Resources, Department of | 3,180,045 | 263,100 | 2,916,945 |
| Oilseeds Commission | 9,000 | 0 | 9,000 |
| Pesticide Registration, Commission of | 385,113 | 0 | 385,113 |
| Potato Commission | 833,671 | 0 | 833,671 |
| Puget Sound Partnership | 727,600 | 715,300 | 12,300 |

TABLE 20. State agency expenditures for R&D for all performers, by state, department or agency, and source of funds: FY 2014
(Dollars)

| Department or agency | Total | Federal government | State and all others ^a |
|-----------------------------------------------------------------------|------------|--------------------|-----------------------------------|
| Red Raspberry Commission | 262,429 | 62,007 | 200,422 |
| Seed Potato Commission | 17,263 | 0 | 17,263 |
| Transportation, Department of | 5,450,000 | 4,910,000 | 540,000 |
| Tree Fruit Research Commission | 2,540,000 | 540,000 | 2,000,000 |
| Turfgrass Commission | 42,000 | 0 | 42,000 |
| Wine Commission | 182,750 | 0 | 182,750 |
| West Virginia | 9,705,200 | 4,572,114 | 5,133,086 |
| Geological and Economic Survey | 4,555,155 | 1,987,529 | 2,567,626 |
| Higher Education Policy Commission | 5,137,488 | 2,581,600 | 2,555,888 |
| Justice and Community Services, Division of | 12,557 | 2,985 | 9,572 |
| Wisconsin | 14,643,835 | 9,388,919 | 5,254,916 |
| Agriculture, Trade and Consumer Protection, Department of | 616,740 | 566,740 | 50,000 |
| Economic Development Corporation | 3,000,000 | 750,000 | 2,250,000 |
| Natural Resources, Department of | 7,183,900 | 4,644,000 | 2,539,900 |
| Transportation, Department of | 3,843,195 | 3,428,179 | 415,016 |
| Wyoming | 6,444,053 | 2,346,866 | 4,097,187 |
| Agriculture, Department of | 225,000 | 0 | 225,000 |
| Enhanced Oil Recovery Commission | 250,000 | 0 | 250,000 |
| Game and Fish Department | 1,857,846 | 1,242,717 | 615,129 |
| State Engineer, Office of | 100,000 | 0 | 100,000 |
| State Geological Survey | 265,471 | 121,863 | 143,608 |
| Transportation, Department of | 1,230,873 | 982,286 | 248,587 |
| Water Development Commission | 2,373,863 | 0 | 2,373,863 |
| Wildlife and Natural Resources Trust | 141,000 | 0 | 141,000 |
| Puerto Rico ^c | 6,569,500 | 1,489,553 | 5,079,947 |
| Agriculture, Department of ^d | 550,000 | 400,000 | 150,000 |
| Health, Department of | 165,922 | 0 | 165,922 |
| Highways and Transportation Authority | 560,000 | 0 | 560,000 |
| Hospital San Juan ^{d,e} | 2,000,000 | 1,000,000 | 1,000,000 |
| Institute of Statistics | 319,378 | 89,553 | 229,825 |
| Manufacturing Extension, Incorporated ^d | 617,966 | 0 | 617,966 |
| Mental Health and Anti-Addiction Services Administration ^d | 1,200,000 | 0 | 1,200,000 |
| Natural Resources, Department of | 100,000 | 0 | 100,000 |
| Science, Technology and Research Trust ^d | 1,056,234 | 0 | 1,056,234 |

^a State and all others category includes primarily other state governments and city, county, regional, township, or other local governments; it also includes nonprofit organizations and companies.

^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 2014 and 2015.

TABLE 21. State agency expenditures for R&D for all performers, by state, department or agency, and source of funds: FY 2015
(Dollars)

| Department or agency | Total | Federal government | State and all others ^a |
|----------------------------------------------------------------------------------|---------------|--------------------|-----------------------------------|
| United States ^b | 2,205,146,613 | 483,983,700 | 1,721,162,913 |
| Alabama | 24,486,963 | 8,931,316 | 15,555,647 |
| Choctawhatchee, Pea and Yellow River Watershed Management Authority | 6,340 | 0 | 6,340 |
| Education, Department of | 46,000 | 0 | 46,000 |
| Forensic Sciences, Department of | 120,724 | 0 | 120,724 |
| Geological Survey | 2,355,251 | 555,978 | 1,799,273 |
| Innovation Fund | 5,950,371 | 0 | 5,950,371 |
| Marine Environmental Science Consortium, Dauphin Island Sea Lab | 3,645,662 | 1,029,589 | 2,616,073 |
| Supercomputer Authority | 3,788,249 | 0 | 3,788,249 |
| Transportation, Department of | 8,574,366 | 7,345,749 | 1,228,617 |
| Alaska | 11,258,203 | 2,812,832 | 8,445,371 |
| Natural Resources, Division of Geological and Geophysical Surveys, Department of | 9,257,543 | 1,060,458 | 8,197,085 |
| Transportation and Public Facilities, Department of | 2,000,660 | 1,752,374 | 248,286 |
| Arizona | 14,942,124 | 8,321,298 | 6,620,826 |
| Agriculture, Department of | 818,816 | 705,057 | 113,759 |
| Game and Fish Department | 4,313,702 | 4,087,121 | 226,581 |
| Geological Survey | 3,256,000 | 2,522,000 | 734,000 |
| Health Services, Department of | 5,294,706 | 0 | 5,294,706 |
| Transportation, Department of | 1,258,900 | 1,007,120 | 251,780 |
| Arkansas | 16,642,711 | 6,238,800 | 10,403,911 |
| Beef Council | 40,750 | 0 | 40,750 |
| Catfish Promotion Board | 27,560 | 0 | 27,560 |
| Corn and Grain Sorghum Board | 779,000 | 0 | 779,000 |
| Economic Development Commission | 8,067,653 | 5,050,000 | 3,017,653 |
| Rice Research and Promotion Board | 2,996,500 | 0 | 2,996,500 |
| Soybean Promotion Board | 3,100,707 | 0 | 3,100,707 |
| State Highway and Transportation Department | 1,486,000 | 1,188,800 | 297,200 |
| Wheat Promotion Board | 144,541 | 0 | 144,541 |
| California | 500,071,595 | 20,343,864 | 479,727,731 |
| Air Resources Board | 18,218,725 | 0 | 18,218,725 |
| Children and Families Commission | 935,000 | 0 | 935,000 |
| Community Services and Development, Department of | 100,000 | 100,000 | 0 |
| Corrections and Rehabilitation, Department of | 6,300,000 | 0 | 6,300,000 |
| Delta Stewardship Council | 2,850,000 | 0 | 2,850,000 |
| Energy Commission | 194,354,000 | 0 | 194,354,000 |
| Environmental Health Hazard Assessment, Office of | 11,795,522 | 0 | 11,795,522 |
| Fish and Wildlife, Department of | 360,000 | 0 | 360,000 |
| Food and Agriculture, Department of | 4,041,669 | 88,098 | 3,953,571 |
| Forestry and Fire Protection, Department of | 1,143,564 | 0 | 1,143,564 |
| Horse Racing Board | 659,000 | 0 | 659,000 |
| Industrial Relations, Department of | 40,682 | 0 | 40,682 |
| Institute for Regenerative Medicine | 198,649,268 | 0 | 198,649,268 |
| Motor Vehicles, Department of | 1,287,082 | 344,839 | 942,243 |
| Pesticide Regulation, Department of | 10,211,000 | 72,000 | 10,139,000 |
| Public Health, Environmental Health Laboratory Branch, Department of | 250,000 | 100,000 | 150,000 |
| Public Health, Food and Drug Branch, Science and Education, Department of | 1,000,000 | 0 | 1,000,000 |
| Public Health, Genetic Disease, Department of | 603,000 | 400,000 | 203,000 |
| Public Utilities Commission, Communications Division | 1,135,474 | 908,379 | 227,095 |
| Resources Recycling and Recovery, Department of | 1,844,832 | 0 | 1,844,832 |
| Seismic Safety Commission | 920,490 | 0 | 920,490 |
| Social Services, Department of | 100,826 | 66,606 | 34,220 |
| State Coastal Conservancy | 73,833 | 0 | 73,833 |
| State Water Resources Control Board | 650,000 | 0 | 650,000 |
| Transportation, Department of | 34,951,005 | 18,163,942 | 16,787,063 |
| Water Resources, Department of | 7,596,623 | 100,000 | 7,496,623 |

TABLE 21. State agency expenditures for R&D for all performers, by state, department or agency, and source of funds: FY 2015
(Dollars)

| Department or agency | Total | Federal government | State and all others ^a |
|------------------------------------------------------------|-------------|--------------------|-----------------------------------|
| Colorado | 16,321,056 | 3,668,094 | 12,652,962 |
| Economic Development and International Trade, Office of | 2,809,069 | 0 | 2,809,069 |
| Higher Education Competitive, Research Authority | 2,314,761 | 0 | 2,314,761 |
| Natural Resources, Department of | 6,928,752 | 1,888,034 | 5,040,718 |
| Public Health and Environment, Department of | 1,156,437 | 0 | 1,156,437 |
| Public Safety, Department of | 992,092 | 222,092 | 770,000 |
| Transportation, Department of | 1,896,210 | 1,557,968 | 338,242 |
| Wine Industry Development Board | 223,735 | 0 | 223,735 |
| Connecticut | 55,816,528 | 13,036,055 | 42,780,473 |
| Aging, Department on | 62,752 | 62,752 | 0 |
| Agricultural Experiment Station | 10,842,422 | 4,295,334 | 6,547,088 |
| Energy and Environmental Protection, Department of | 6,725,328 | 5,126,613 | 1,598,715 |
| Innovation Inc. | 18,820,358 | 0 | 18,820,358 |
| Mental Health and Addiction Services, Department of | 5,203,948 | 737,454 | 4,466,494 |
| Public Health, Department of | 7,387,895 | 0 | 7,387,895 |
| Social Services, Department of | 1,363,958 | 973,552 | 390,406 |
| Transportation, Department of | 5,409,867 | 1,840,350 | 3,569,517 |
| Delaware | 2,199,635 | 862,471 | 1,337,164 |
| Geological Survey | 1,672,991 | 404,505 | 1,268,486 |
| Natural Resources and Environmental Control, Department of | 375,023 | 375,023 | 0 |
| Sustainable Energy Unit | 10,000 | 0 | 10,000 |
| Transportation, Department of | 141,621 | 82,943 | 58,678 |
| District of Columbia | 3,216,073 | 1,035,397 | 2,180,676 |
| Health, Department of | 312,696 | 312,696 | 0 |
| Transportation, Department of | 903,377 | 722,701 | 180,676 |
| Water and Sewer Authority | 2,000,000 | 0 | 2,000,000 |
| Florida | 191,598,669 | 22,302,689 | 169,295,980 |
| Agriculture and Consumer Services, Department of | 29,138,531 | 4,170,477 | 24,968,054 |
| Citrus, Department of | 3,435,397 | 0 | 3,435,397 |
| Fish and Wildlife Conservation Commission | 46,840,673 | 11,450,849 | 35,389,824 |
| Health, Department of | 101,063,013 | 0 | 101,063,013 |
| Space Florida | 1,350,000 | 0 | 1,350,000 |
| Transportation, Department of | 9,771,055 | 6,681,363 | 3,089,692 |
| Georgia | 10,052,848 | 8,055,609 | 1,997,239 |
| Environmental Finance Authority | 1,276,375 | 0 | 1,276,375 |
| Natural Resources Wildlife Division, Department of | 1,785,933 | 1,562,740 | 223,193 |
| Southern States Energy Board | 3,148,268 | 3,148,268 | 0 |
| Transportation, Department of | 3,842,272 | 3,344,601 | 497,671 |
| Hawaii | 11,520,961 | 6,940,018 | 4,580,943 |
| Agriculture, Department of | 60,000 | 60,000 | 0 |
| Business, Economic Development, and Tourism, Department of | 2,273,071 | 1,500,000 | 773,071 |
| Land and Natural Resources, Department of | 7,849,438 | 4,511,054 | 3,338,384 |
| Transportation, Department of | 1,338,452 | 868,964 | 469,488 |
| Idaho | 12,935,976 | 7,130,703 | 5,805,273 |
| Barley Commission | 346,105 | 0 | 346,105 |
| Bean Commission | 65,930 | 65,930 | 0 |
| Commerce, Department of | 964,154 | 0 | 964,154 |
| Environmental Quality, Department of | 620,407 | 70,096 | 550,311 |
| Fish and Game, Department of | 7,051,382 | 5,723,487 | 1,327,895 |
| Oilseed Commission | 30,000 | 0 | 30,000 |
| Pea and Lentil Commission | 144,725 | 0 | 144,725 |
| Potato Commission | 1,038,040 | 0 | 1,038,040 |
| Transportation Department | 1,436,567 | 1,271,190 | 165,377 |
| Water Resources, Department of | 300,000 | 0 | 300,000 |
| Wheat Commission | 938,666 | 0 | 938,666 |

TABLE 21. State agency expenditures for R&D for all performers, by state, department or agency, and source of funds: FY 2015
(Dollars)

| Department or agency | Total | Federal government | State and all others ^a |
|-------------------------------------------------------------------|------------|--------------------|-----------------------------------|
| Illinois | 30,817,406 | 6,913,774 | 23,903,632 |
| Children and Family Services, Department of | 2,853,572 | 0 | 2,853,572 |
| Commerce and Economic Opportunity, Department of | 15,798,322 | 0 | 15,798,322 |
| Housing Development Authority | 10,200 | 0 | 10,200 |
| Human Services, Department of | 61,316 | 0 | 61,316 |
| Public Health, Department of | 2,491,629 | 0 | 2,491,629 |
| Transportation, Department of | 9,602,367 | 6,913,774 | 2,688,593 |
| Indiana | 9,987,058 | 7,358,178 | 2,628,880 |
| Criminal Justice Institute | 640,000 | 600,000 | 40,000 |
| Economic Development Corporation | 1,488,480 | 771,287 | 717,193 |
| Kankakee River Basin Commission | 114,000 | 0 | 114,000 |
| Natural Resources, Department of | 250,000 | 0 | 250,000 |
| St. Joseph River Basin Commission | 10,964 | 0 | 10,964 |
| Transportation, Department of | 7,483,614 | 5,986,891 | 1,496,723 |
| Iowa | 11,277,534 | 5,615,415 | 5,662,119 |
| Economic Development Authority, Energy Office | 710,522 | 0 | 710,522 |
| Human Rights, Criminal and Juvenile Justice Planning, Division of | 457,808 | 220,230 | 237,578 |
| Natural Resources, Department of | 4,279,253 | 1,974,936 | 2,304,317 |
| Transportation, Department of | 5,829,951 | 3,420,249 | 2,409,702 |
| Kansas | 5,469,052 | 2,138,068 | 3,330,984 |
| State Board of Regents | 132,582 | 56,294 | 76,288 |
| Transportation, Department of | 3,749,587 | 2,081,774 | 1,667,813 |
| Water Office | 258,099 | 0 | 258,099 |
| Wheat Commission | 1,328,784 | 0 | 1,328,784 |
| Kentucky | 17,256,496 | 7,335,717 | 9,920,779 |
| Early Childhood Development, Governor's Office of | 53,264 | 0 | 53,264 |
| Economic Development, Cabinet for | 5,450,000 | 0 | 5,450,000 |
| Education Professional Standards Board | 668,491 | 668,491 | 0 |
| Energy Development and Independence, Department for | 1,667,000 | 0 | 1,667,000 |
| Fish and Wildlife Resources, Department of | 2,520,000 | 1,800,000 | 720,000 |
| Highways, Department of | 6,294,300 | 4,461,700 | 1,832,600 |
| Horse Racing Commission | 150,000 | 0 | 150,000 |
| Public Health, Department for | 34,000 | 0 | 34,000 |
| State Nature Preserves Commission | 32,100 | 18,185 | 13,915 |
| Vocational Rehabilitation, Office of | 387,341 | 387,341 | 0 |
| Louisiana | 32,175,199 | 10,012,449 | 22,162,750 |
| Agriculture and Forestry, Department of | 9,167 | 0 | 9,167 |
| Coastal Protection and Restoration Authority | 18,116,032 | 12,449 | 18,103,583 |
| Transportation and Development, Department of | 11,000,000 | 8,800,000 | 2,200,000 |
| Wildlife and Fisheries, Department of | 3,050,000 | 1,200,000 | 1,850,000 |
| Maine | 12,609,815 | 2,952,778 | 9,657,037 |
| Agriculture, Conservation and Forestry, Department of | 685,927 | 270,221 | 415,706 |
| Environmental Protection, Department of | 220,000 | 0 | 220,000 |
| Governor's Energy Office | 119,000 | 119,000 | 0 |
| Health and Human Services, Department of | 60,030 | 3,002 | 57,028 |
| Inland Fisheries and Wildlife, Department of | 101,759 | 75,759 | 26,000 |
| Marine Resources, Department of | 1,902,099 | 1,682,796 | 219,303 |
| State Fire Marshal's Office | 18,000 | 0 | 18,000 |
| Technology Institute | 8,500,000 | 0 | 8,500,000 |
| Transportation, Department of | 1,003,000 | 802,000 | 201,000 |
| Maryland | 24,852,978 | 1,649,862 | 23,203,116 |
| Health and Mental Hygiene, Department of | 7,000,000 | 0 | 7,000,000 |
| Natural Resources, Department of | 2,081,134 | 312,387 | 1,768,747 |
| Technology Development Corporation | 14,100,000 | 0 | 14,100,000 |
| Transportation, Department of | 1,671,844 | 1,337,475 | 334,369 |

TABLE 21. State agency expenditures for R&D for all performers, by state, department or agency, and source of funds: FY 2015
(Dollars)

| Department or agency | Total | Federal government | State and all others ^a |
|-------------------------------------------------------|------------|--------------------|-----------------------------------|
| Massachusetts | 22,664,539 | 6,490,647 | 16,173,892 |
| Clean Energy Center | 4,948,471 | 0 | 4,948,471 |
| Environmental Protection, Department of | 182,617 | 16,544 | 166,073 |
| Fish and Game, Department of | 12,083,700 | 6,210,000 | 5,873,700 |
| Mass Life Science Center | 3,213,698 | 0 | 3,213,698 |
| Mental Health, Department of | 1,752,150 | 0 | 1,752,150 |
| Public Health, Department of | 283,903 | 264,103 | 19,800 |
| Water Resources Authority | 200,000 | 0 | 200,000 |
| Michigan | 12,675,635 | 8,346,295 | 4,329,340 |
| Agriculture and Rural Development, Department of | 3,150,111 | 1,239,261 | 1,910,850 |
| Environmental Quality, Department of | 90,526 | 29,736 | 60,790 |
| Natural Resources, Department of | 3,934,998 | 1,852,298 | 2,082,700 |
| Transportation, Department of | 5,500,000 | 5,225,000 | 275,000 |
| Minnesota | 21,455,746 | 4,814,486 | 16,641,260 |
| Agriculture, Department of | 6,336,162 | 1,516,171 | 4,819,991 |
| Employment and Economic Development, Department of | 2,500,000 | 0 | 2,500,000 |
| Forest Resources Council | 90,000 | 0 | 90,000 |
| Pollution Control Agency | 534,262 | 0 | 534,262 |
| Transportation, Department of | 11,995,322 | 3,298,315 | 8,697,007 |
| Mississippi | 780,616 | 618,485 | 162,131 |
| Transportation, Department of | 236,219 | 188,975 | 47,244 |
| Wildlife, Fisheries, and Parks, Department of | 544,397 | 429,510 | 114,887 |
| Missouri | 9,806,222 | 5,556,141 | 4,250,081 |
| Agriculture, Department of | 813,834 | 0 | 813,834 |
| Conservation, Department of | 4,319,494 | 2,007,759 | 2,311,735 |
| Health and Senior Services, Department of | 48,741 | 41,545 | 7,196 |
| Natural Resources, Department of | 558,123 | 383,703 | 174,420 |
| Transportation, Department of | 4,066,030 | 3,123,134 | 942,896 |
| Montana | 10,362,726 | 3,672,296 | 6,690,430 |
| Agriculture, Department of | 2,143,438 | 189,597 | 1,953,841 |
| Environmental Quality, Department of | 310,952 | 181,936 | 129,016 |
| Fish, Wildlife and Parks | 2,853,805 | 1,859,763 | 994,042 |
| Natural Resources and Conservation, Department of | 385,690 | 0 | 385,690 |
| Research and Commercialization, Board of | 1,052,000 | 0 | 1,052,000 |
| Transportation, Department of | 1,663,000 | 1,441,000 | 222,000 |
| Wheat and Barley Committee | 1,953,841 | 0 | 1,953,841 |
| Nebraska | 5,475,420 | 1,668,537 | 3,806,883 |
| Agriculture, Department of | 377,452 | 242,726 | 134,726 |
| Corn Board | 699,960 | 0 | 699,960 |
| Dry Bean Commission | 153,182 | 0 | 153,182 |
| Economic Development, Department of | 1,536,378 | 0 | 1,536,378 |
| Natural Resources, Department of | 529,071 | 0 | 529,071 |
| Roads, Department of | 1,782,264 | 1,425,811 | 356,453 |
| Wheat Board | 397,113 | 0 | 397,113 |
| Nevada | 3,107,166 | 2,515,000 | 592,166 |
| Commission on Mineral Resources, Division of Minerals | 100,000 | 0 | 100,000 |
| Transportation, Department of | 2,914,364 | 2,458,978 | 455,386 |
| Wildlife, Department of | 92,802 | 56,022 | 36,780 |
| New Hampshire | 1,607,080 | 1,113,769 | 493,311 |
| Agriculture, Markets and Food, Department of | 135,899 | 10,988 | 124,911 |
| Environmental Services, Department of | 218,981 | 218,981 | 0 |
| Resources and Economic Development, Department of | 300,000 | 0 | 300,000 |
| Transportation, Department of | 952,200 | 883,800 | 68,400 |

TABLE 21. State agency expenditures for R&D for all performers, by state, department or agency, and source of funds: FY 2015
(Dollars)

| Department or agency | Total | Federal government | State and all others ^a |
|------------------------------------------------------------------|-------------|--------------------|-----------------------------------|
| New Jersey | 33,756,028 | 4,041,326 | 29,714,702 |
| Brain Injury Research, Commission on | 6,396,368 | 0 | 6,396,368 |
| Cancer Research, Commission on | 1,500,000 | 0 | 1,500,000 |
| Environmental Protection, Department of | 2,721,846 | 710,004 | 2,011,842 |
| Health, Department of | 10,980,769 | 0 | 10,980,769 |
| Medical Research and Treatment of Autism, Governor's Council for | 4,784,247 | 0 | 4,784,247 |
| Spinal Cord Research, Commission on | 3,573,956 | 0 | 3,573,956 |
| Transportation, Department of | 3,798,842 | 3,331,322 | 467,520 |
| New Mexico | 52,302,976 | 1,966,767 | 50,336,209 |
| Cultural Affairs, Department of | 1,237,700 | 4,100 | 1,233,600 |
| Game and Fish, Department of | 1,000,000 | 500,000 | 500,000 |
| Higher Education Department | 48,218,100 | 0 | 48,218,100 |
| Miners' Colfax Medical Center | 25,000 | 0 | 25,000 |
| State Engineer, Water Resource Allocation Program, Office of | 88,062 | 75,376 | 12,686 |
| Transportation, Department of | 1,734,114 | 1,387,291 | 346,823 |
| New York | 365,551,926 | 150,683,260 | 214,868,666 |
| Agriculture and Markets, Department of | 3,765,993 | 3,087,665 | 678,328 |
| Economic Development, Department of | 49,698,758 | 6,000,000 | 43,698,758 |
| Energy Research and Development Authority | 48,568,115 | 0 | 48,568,115 |
| Environmental Conservation, Department of | 5,832,656 | 3,249,124 | 2,583,532 |
| Health, Department of | 43,250,554 | 24,322,975 | 18,927,579 |
| Mental Health, Office of | 132,887,190 | 65,320,851 | 67,566,339 |
| People with Developmental Disabilities, Office of | 4,228,430 | 1,574,449 | 2,653,981 |
| Power Authority | 839,178 | 0 | 839,178 |
| Roswell Park Cancer Institute | 61,800,000 | 43,500,000 | 18,300,000 |
| State Museum | 10,121,651 | 281,812 | 9,839,839 |
| Thoroughbred Breeding and Development Fund Corp. | 439,108 | 0 | 439,108 |
| Transportation, Department of | 4,120,293 | 3,346,384 | 773,909 |
| North Carolina | 34,002,384 | 15,605,925 | 18,396,459 |
| Agriculture and Consumer Services, Department of | 13,000,000 | 0 | 13,000,000 |
| Environmental Quality, Department of | 2,079,756 | 567,958 | 1,511,798 |
| Science, Technology and Innovation, Office of | 12,037,647 | 9,537,647 | 2,500,000 |
| Transportation, Department of | 6,834,981 | 5,500,320 | 1,334,661 |
| Wine and Grape Growers Council | 50,000 | 0 | 50,000 |
| North Dakota | 9,611,936 | 1,020,728 | 8,591,208 |
| Agriculture, Department of | 244,764 | 0 | 244,764 |
| Game and Fish, Department of | 825,000 | 620,000 | 205,000 |
| Lignite Research Council | 943,377 | 0 | 943,377 |
| Oil and Gas Research Program | 4,017,199 | 0 | 4,017,199 |
| Renewable Energy Research Program | 745,155 | 0 | 745,155 |
| Soybean Council | 1,233,438 | 0 | 1,233,438 |
| Transportation, Department of | 407,000 | 400,728 | 6,272 |
| Wheat Commission | 1,196,003 | 0 | 1,196,003 |
| Ohio | 94,299,294 | 6,437,833 | 87,861,461 |
| Development Services Agency | 83,483,581 | 0 | 83,483,581 |
| Mental Health and Addiction Services, Department of | 820,000 | 0 | 820,000 |
| Natural Resources, Department of | 1,201,332 | 819,700 | 381,632 |
| Transportation, Department of | 7,022,666 | 5,618,133 | 1,404,533 |
| Water Development Authority | 1,771,715 | 0 | 1,771,715 |
| Oklahoma | 29,952,934 | 7,578,340 | 22,374,594 |
| Advancement of Science and Technology, Center for the | 10,665,489 | 0 | 10,665,489 |
| Agriculture, Food, and Forestry, Department of | 685,666 | 685,666 | 0 |
| Grand River Dam Authority | 260,000 | 0 | 260,000 |
| Health, State Department of | 170,570 | 165,425 | 5,145 |
| Human Services, Department of | 385,000 | 385,000 | 0 |
| Sorghum Commission | 45,000 | 0 | 45,000 |

TABLE 21. State agency expenditures for R&D for all performers, by state, department or agency, and source of funds: FY 2015
(Dollars)

| Department or agency | Total | Federal government | State and all others ^a |
|---------------------------------------------------|-------------|--------------------|-----------------------------------|
| Tobacco Settlement Endowment Trust | 10,072,460 | 0 | 10,072,460 |
| Transportation, Department of | 3,342,249 | 3,342,249 | 0 |
| Wheat Commission | 326,500 | 0 | 326,500 |
| Wildlife Conservation, Department of | 4,000,000 | 3,000,000 | 1,000,000 |
| Oregon | 31,990,073 | 10,390,644 | 21,599,429 |
| Agriculture, Department of | 190,591 | 0 | 190,591 |
| Business Development Department | 10,650,000 | 0 | 10,650,000 |
| Energy, Department of | 557,172 | 430,695 | 126,477 |
| Environmental Quality, Department of | 10,000 | 0 | 10,000 |
| Fish and Wildlife, Department of | 17,093,348 | 8,111,069 | 8,982,279 |
| Forestry, Department of | 871,221 | 0 | 871,221 |
| Transportation, Department of | 2,188,000 | 1,750,000 | 438,000 |
| Water Resources Department | 125,000 | 0 | 125,000 |
| Watershed Enhancement Board | 304,741 | 98,880 | 205,861 |
| Pennsylvania | 75,024,127 | 4,830,151 | 70,193,976 |
| Agriculture, Department of | 787,000 | 0 | 787,000 |
| Community and Economic Development, Department of | 18,050,000 | 0 | 18,050,000 |
| Conservation and Natural Resources, Department of | 163,856 | 0 | 163,856 |
| Education, Department of | 35,000 | 0 | 35,000 |
| Energy Development Authority | 24,974 | 0 | 24,974 |
| Environmental Protection, Department of | 2,390,366 | 879,639 | 1,510,727 |
| Fish and Boat Commission | 150,670 | 123,452 | 27,218 |
| Game Commission | 6,731,990 | 1,404,059 | 5,327,931 |
| Health, Department of | 43,529,698 | 0 | 43,529,698 |
| Susquehanna River Basin Commission | 922,294 | 184,722 | 737,572 |
| Transportation, Department of | 2,238,279 | 2,238,279 | 0 |
| Rhode Island | 2,594,978 | 1,114,694 | 1,480,284 |
| Atomic Energy Commission | 1,200 | 0 | 1,200 |
| Commerce Corporation | 1,101,985 | 0 | 1,101,985 |
| Transportation, Department of | 1,436,793 | 1,114,694 | 322,099 |
| Water Resources Board | 55,000 | 0 | 55,000 |
| South Carolina | 27,419,285 | 20,114,487 | 7,304,798 |
| Agriculture, Department of | 498,748 | 0 | 498,748 |
| Commerce, Department of | 78,500 | 0 | 78,500 |
| Mental Health, Department of | 100,884 | 0 | 100,884 |
| Natural Resources, Department of | 22,199,381 | 17,053,588 | 5,145,793 |
| Research Authority | 1,619,056 | 560,197 | 1,058,859 |
| Sea Grant Consortium | 1,067,761 | 1,034,280 | 33,481 |
| Transportation, Department of | 1,854,955 | 1,466,422 | 388,533 |
| South Dakota | 4,211,838 | 1,003,921 | 3,207,917 |
| Corn Utilization Council | 1,154,000 | 0 | 1,154,000 |
| Oilseeds Council | 45,000 | 0 | 45,000 |
| Pork Producers Council | 15,000 | 0 | 15,000 |
| Science and Technology Authority | 26,862 | 26,862 | 0 |
| Soybean Research and Promotion Council | 1,176,375 | 0 | 1,176,375 |
| Transportation, Department of | 1,256,834 | 977,059 | 279,775 |
| Weed and Pest Control Commission | 37,767 | 0 | 37,767 |
| Wheat Commission | 500,000 | 0 | 500,000 |
| Tennessee | 3,828,567 | 2,903,575 | 924,992 |
| Environment and Conservation, Department of | 259,299 | 126,582 | 132,717 |
| Geological Survey | 312,572 | 171,636 | 140,936 |
| Transportation, Department of | 3,256,696 | 2,605,357 | 651,339 |
| Texas | 185,094,332 | 21,106,336 | 163,987,996 |
| Agriculture, Department of | 761,154 | 705,800 | 55,354 |
| Cancer Prevention and Research Institute | 145,241,410 | 0 | 145,241,410 |

TABLE 21. State agency expenditures for R&D for all performers, by state, department or agency, and source of funds: FY 2015
(Dollars)

| Department or agency | Total | Federal government | State and all others ^a |
|---------------------------------------------------------------------------------------|------------|--------------------|-----------------------------------|
| Council on Alzheimer's Disease | 4,750,000 | 0 | 4,750,000 |
| Environmental Quality, Commission on | 1,000,000 | 0 | 1,000,000 |
| Parks and Wildlife Department | 10,901,637 | 4,558,049 | 6,343,588 |
| Transportation, Department of | 19,803,109 | 15,842,487 | 3,960,622 |
| Water Development Board | 2,637,022 | 0 | 2,637,022 |
| Utah | 38,168,197 | 1,077,198 | 37,090,999 |
| Agriculture and Food, Department of | 431,198 | 381,198 | 50,000 |
| Economic Development | 2,107,486 | 0 | 2,107,486 |
| Natural Resources, Department of | 17,100,000 | 0 | 17,100,000 |
| Science Technology and Research Initiative, Governor's Office of Economic Development | 17,058,613 | 0 | 17,058,613 |
| Transportation, Department of | 1,470,900 | 696,000 | 774,900 |
| Vermont | 2,199,082 | 1,183,900 | 1,015,182 |
| Agriculture, Food, and Markets, Agency of | 582,420 | 326,374 | 256,046 |
| Economic Development Authority | 515,612 | 0 | 515,612 |
| Human Services, Agency of | 152,706 | 152,706 | 0 |
| Natural Resources, Agency of | 32,441 | 32,441 | 0 |
| Public Service Department | 122,898 | 16,735 | 106,163 |
| Transportation, Agency of | 793,005 | 655,644 | 137,361 |
| Virginia | 43,615,877 | 12,782,781 | 30,833,096 |
| Aging and Rehabilitation, Department of | 29,628 | 29,628 | 0 |
| Agriculture and Consumer Services, Department of | 1,075,676 | 377,721 | 697,955 |
| Commonwealth Health Research Board | 892,552 | 0 | 892,552 |
| Environmental Quality, Department of | 2,308,956 | 2,308,956 | 0 |
| Forensic Science, Department of | 271,000 | 0 | 271,000 |
| Forestry, Department of | 400,904 | 69,000 | 331,904 |
| Foundation for Healthy Youth | 640,933 | 0 | 640,933 |
| Game and Inland Fisheries, Department of | 1,689,294 | 1,353,476 | 335,818 |
| General Services, Department of | 55,000 | 55,000 | 0 |
| Innovative Technology, Center for | 3,914,000 | 844,000 | 3,070,000 |
| Marine Resources Commission | 2,226,921 | 1,613,347 | 613,574 |
| Mines, Minerals and Energy, Department of | 2,192,061 | 781,908 | 1,410,153 |
| Natural History, Museum of | 650,570 | 28,312 | 622,258 |
| Social Services, Department of | 35,000 | 0 | 35,000 |
| Tobacco Region Revitalization Commission | 9,678,856 | 0 | 9,678,856 |
| Transportation, Department of | 17,554,526 | 5,321,433 | 12,233,093 |
| Washington | 36,918,558 | 12,398,340 | 24,520,218 |
| Agriculture, Department of | 2,500,896 | 2,120,105 | 380,791 |
| Alfalfa Seed Commission | 34,000 | 0 | 34,000 |
| Archaeology and Historic Preservation, Department of | 378,127 | 378,127 | 0 |
| Asparagus Commission | 62,000 | 0 | 62,000 |
| Beef Commission | 15,000 | 0 | 15,000 |
| Blueberry Commission | 150,000 | 0 | 150,000 |
| Cranberry Commission | 15,152 | 0 | 15,152 |
| Dairy Products Commission | 107,675 | 0 | 107,675 |
| Dry Pea and Lentil Commission | 262,570 | 0 | 262,570 |
| Ecology, Department of | 1,054,265 | 92,739 | 961,526 |
| Fish and Wildlife, Department of | 4,936,117 | 2,746,356 | 2,189,761 |
| Fruit Commission | 15,000 | 0 | 15,000 |
| Grain Commission | 2,391,171 | 0 | 2,391,171 |
| Hop Commission | 167,528 | 0 | 167,528 |
| Labor and Industries, Department of | 2,907,584 | 692,210 | 2,215,374 |
| Life Sciences Discovery Fund | 8,364,171 | 0 | 8,364,171 |
| Mint Commission | 24,147 | 0 | 24,147 |
| Natural Resources, Department of | 3,149,971 | 209,300 | 2,940,671 |
| Oilseeds Commission | 9,000 | 0 | 9,000 |
| Pesticide Registration, Commission of | 385,113 | 0 | 385,113 |

TABLE 21. State agency expenditures for R&D for all performers, by state, department or agency, and source of funds: FY 2015
(Dollars)

| Department or agency | Total | Federal government | State and all others ^a |
|-----------------------------------------------------------------------|------------|--------------------|-----------------------------------|
| Potato Commission | 854,111 | 0 | 854,111 |
| Puget Sound Partnership | 558,072 | 545,772 | 12,300 |
| Red Raspberry Commission | 268,388 | 63,731 | 204,657 |
| Seed Potato Commission | 20,000 | 0 | 20,000 |
| Transportation, Department of | 5,450,000 | 4,910,000 | 540,000 |
| Tree Fruit Research Commission | 2,640,000 | 640,000 | 2,000,000 |
| Turfgrass Commission | 23,500 | 0 | 23,500 |
| Wine Commission | 175,000 | 0 | 175,000 |
| West Virginia | 11,481,903 | 7,720,174 | 3,761,729 |
| Geological and Economic Survey | 3,084,623 | 763,609 | 2,321,014 |
| Higher Education Policy Commission | 6,189,639 | 5,125,400 | 1,064,239 |
| Justice and Community Services, Division of | 13,719 | 3,243 | 10,476 |
| Transportation, Department of | 2,193,922 | 1,827,922 | 366,000 |
| Wisconsin | 14,517,671 | 9,471,310 | 5,046,361 |
| Agriculture, Trade and Consumer Protection, Department of | 841,890 | 841,890 | 0 |
| Economic Development Corporation | 3,000,000 | 750,000 | 2,250,000 |
| Natural Resources, Department of | 7,569,100 | 5,065,000 | 2,504,100 |
| Transportation, Department of | 3,106,681 | 2,814,420 | 292,261 |
| Wyoming | 5,160,617 | 2,100,967 | 3,059,650 |
| Agriculture, Department of | 100,000 | 0 | 100,000 |
| Enhanced Oil Recovery Commission | 250,000 | 0 | 250,000 |
| Game and Fish Department | 1,826,682 | 1,181,282 | 645,400 |
| State Engineer, Office of | 80,000 | 0 | 80,000 |
| State Geological Survey | 248,879 | 122,635 | 126,244 |
| Transportation, Department of | 986,181 | 797,050 | 189,131 |
| Water Development Commission | 468,875 | 0 | 468,875 |
| Wildlife and Natural Resources Trust | 1,200,000 | 0 | 1,200,000 |
| Puerto Rico ^c | 5,673,544 | 1,561,588 | 4,111,956 |
| Agriculture, Department of ^d | 649,048 | 472,035 | 177,013 |
| Health, Department of | 165,922 | 0 | 165,922 |
| Highways and Transportation Authority | 560,000 | 0 | 560,000 |
| Hospital San Juan ^{d,e} | 2,000,000 | 1,000,000 | 1,000,000 |
| Institute of Statistics | 568,480 | 0 | 568,480 |
| Manufacturing Extension, Incorporated ^d | 319,378 | 89,553 | 229,825 |
| Mental Health and Anti-Addiction Services Administration ^d | 410,716 | 0 | 410,716 |
| Natural Resources, Department of | 100,000 | 0 | 100,000 |
| Science, Technology and Research Trust ^d | 900,000 | 0 | 900,000 |

^a State and all others category includes primarily other state governments and city, county, regional, township, or other local governments; it also includes nonprofit organizations and companies.

^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 2014 and 2015.

TABLE 22. State agency expenditures for R&D for intramural performers, by state, department or agency, and source of funds: FY 2014
(Dollars)

| Department or agency | Total | Federal government | State | Other ^a |
|----------------------------------------------------------------------------------|-------------|--------------------|-------------|--------------------|
| United States ^b | 577,638,324 | 248,953,250 | 285,196,337 | 43,488,737 |
| Alabama | 4,589,652 | 1,741,884 | 1,611,029 | 1,236,739 |
| Education, Department of | 30,000 | 0 | 30,000 | 0 |
| Forensic Sciences, Department of | 72,431 | 0 | 72,431 | 0 |
| Geological Survey | 2,128,694 | 624,713 | 1,361,826 | 142,155 |
| Marine Environmental Science Consortium, Dauphin Island Sea Lab | 2,358,527 | 1,117,171 | 146,772 | 1,094,584 |
| Alaska | 9,399,991 | 1,627,358 | 6,307,256 | 1,465,377 |
| Natural Resources, Division of Geological and Geophysical Surveys, Department of | 9,254,991 | 1,511,358 | 6,278,256 | 1,465,377 |
| Transportation and Public Facilities, Department of | 145,000 | 116,000 | 29,000 | 0 |
| Arizona | 8,953,596 | 6,515,841 | 2,311,755 | 126,000 |
| Game and Fish Department | 3,653,841 | 3,653,841 | 0 | 0 |
| Geological Survey | 3,701,000 | 2,862,000 | 713,000 | 126,000 |
| Health Services, Department of | 1,598,755 | 0 | 1,598,755 | 0 |
| Arkansas | 708,544 | 658,744 | 49,800 | 0 |
| Economic Development Commission | 459,544 | 459,544 | 0 | 0 |
| State Highway and Transportation Department | 249,000 | 199,200 | 49,800 | 0 |
| California | 53,984,295 | 5,970,084 | 47,951,679 | 62,532 |
| Air Resources Board | 10,263,477 | 0 | 10,263,477 | 0 |
| Corrections and Rehabilitation, Department of | 6,500,000 | 0 | 6,500,000 | 0 |
| Delta Stewardship Council | 2,250,000 | 0 | 2,250,000 | 0 |
| Environmental Health Hazard Assessment, Office of | 10,681,387 | 0 | 10,681,387 | 0 |
| Fish and Wildlife, Department of | 360,000 | 0 | 360,000 | 0 |
| Forestry and Fire Protection, Department of | 452,546 | 0 | 452,546 | 0 |
| Motor Vehicles, Department of | 1,579,165 | 552,364 | 964,269 | 62,532 |
| Pesticide Regulation, Department of | 6,151,000 | 0 | 6,151,000 | 0 |
| Public Health, Environmental Health Laboratory Branch, Department of | 300,000 | 200,000 | 100,000 | 0 |
| Public Health, Food and Drug Branch, Science and Education, Department of | 1,000,000 | 0 | 1,000,000 | 0 |
| Public Health, Genetic Disease, Department of | 603,000 | 400,000 | 203,000 | 0 |
| Social Services, Department of | 108,568 | 71,720 | 36,848 | 0 |
| Transportation, Department of | 11,206,000 | 4,646,000 | 6,560,000 | 0 |
| Water Resources, Department of | 2,529,152 | 100,000 | 2,429,152 | 0 |
| Colorado | 8,178,672 | 2,823,507 | 4,565,828 | 789,337 |
| Natural Resources, Department of | 6,325,713 | 2,053,031 | 3,483,680 | 789,002 |
| Public Safety, Department of | 879,741 | 179,741 | 700,000 | 0 |
| Transportation, Department of | 701,669 | 561,335 | 140,334 | 0 |
| Wine Industry Development Board | 271,549 | 29,400 | 241,814 | 335 |
| Connecticut | 20,533,902 | 9,506,924 | 11,026,978 | 0 |
| Agricultural Experiment Station | 10,053,249 | 3,953,367 | 6,099,882 | 0 |
| Energy and Environmental Protection, Department of | 6,328,278 | 4,595,905 | 1,732,373 | 0 |
| Mental Health and Addiction Services, Department of | 3,045,942 | 187,224 | 2,858,718 | 0 |
| Public Health, Department of | 5,715 | 0 | 5,715 | 0 |
| Transportation, Department of | 1,100,718 | 770,428 | 330,290 | 0 |
| Delaware | 1,888,698 | 505,519 | 1,383,179 | 0 |
| Geological Survey | 1,834,248 | 451,069 | 1,383,179 | 0 |
| Natural Resources and Environmental Control, Department of | 54,450 | 54,450 | 0 | 0 |
| District of Columbia | 1,444,007 | 477,724 | 966,283 | 0 |
| Health, Department of | 212,593 | 212,593 | 0 | 0 |
| Transportation, Department of | 331,414 | 265,131 | 66,283 | 0 |
| Water and Sewer Authority | 900,000 | 0 | 900,000 | 0 |
| Florida | 44,017,593 | 11,507,669 | 30,036,140 | 2,473,784 |
| Agriculture and Consumer Services, Department of | 3,029,127 | 1,581,018 | 1,448,109 | 0 |
| Citrus, Department of | 179,788 | 0 | 179,788 | 0 |
| Fish and Wildlife Conservation Commission | 40,808,678 | 9,926,651 | 28,408,243 | 2,473,784 |

TABLE 22. State agency expenditures for R&D for intramural performers, by state, department or agency, and source of funds: FY 2014
(Dollars)

| Department or agency | Total | Federal government | State | Other ^a |
|-------------------------------------------------------------------|------------|--------------------|-----------|--------------------|
| Georgia | 1,766,014 | 1,713,151 | 52,863 | 0 |
| Natural Resources, Department of | 176,451 | 123,588 | 52,863 | 0 |
| Southern States Energy Board | 1,589,563 | 1,589,563 | 0 | 0 |
| Hawaii | 1,038,877 | 130,847 | 279,440 | 628,590 |
| Agriculture, Department of | 80,000 | 80,000 | 0 | 0 |
| Land and Natural Resources, Department of | 798,484 | 50,847 | 119,047 | 628,590 |
| Transportation, Department of | 160,393 | 0 | 160,393 | 0 |
| Idaho | 6,783,779 | 5,570,131 | 928,344 | 285,304 |
| Commerce, Department of | 11,400 | 0 | 11,400 | 0 |
| Fish and Game, Department of | 6,545,979 | 5,398,231 | 873,944 | 273,804 |
| Transportation Department | 214,900 | 171,900 | 43,000 | 0 |
| Wheat Commission | 11,500 | 0 | 0 | 11,500 |
| Illinois | 1,678,403 | 1,255,880 | 422,523 | 0 |
| Housing Development Authority | 2,040 | 0 | 2,040 | 0 |
| Transportation, Department of | 1,676,363 | 1,255,880 | 420,483 | 0 |
| Indiana | 675,629 | 545,548 | 129,877 | 204 |
| Criminal Justice Institute | 240,000 | 200,000 | 40,000 | 0 |
| St. Joseph River Basin Commission | 3,694 | 0 | 3,490 | 204 |
| Transportation, Department of | 431,935 | 345,548 | 86,387 | 0 |
| Iowa | 3,884,026 | 2,444,820 | 1,439,206 | 0 |
| Human Rights, Criminal and Juvenile Justice Planning, Division of | 522,607 | 315,995 | 206,612 | 0 |
| Natural Resources, Department of | 3,210,630 | 2,008,194 | 1,202,436 | 0 |
| Transportation, Department of | 150,789 | 120,631 | 30,158 | 0 |
| Kansas | 1,427,786 | 892,126 | 535,660 | 0 |
| Transportation, Department of | 1,427,786 | 892,126 | 535,660 | 0 |
| Kentucky | 2,654,669 | 2,051,169 | 603,500 | 0 |
| Education Professional Standards Board | 247,964 | 247,964 | 0 | 0 |
| Fish and Wildlife Resources, Department of | 2,200,000 | 1,600,000 | 600,000 | 0 |
| State Nature Preserves Commission | 21,300 | 17,800 | 3,500 | 0 |
| Vocational Rehabilitation, Office of | 185,405 | 185,405 | 0 | 0 |
| Louisiana | 8,785,247 | 5,800,000 | 2,885,247 | 100,000 |
| Coastal Protection and Restoration Authority | 485,247 | 0 | 485,247 | 0 |
| Transportation and Development, Department of | 6,000,000 | 4,800,000 | 1,200,000 | 0 |
| Wildlife and Fisheries, Department of | 2,300,000 | 1,000,000 | 1,200,000 | 100,000 |
| Maine | 2,048,918 | 1,425,144 | 613,774 | 10,000 |
| Agriculture, Conservation and Forestry, Department of | 513,754 | 253,754 | 250,000 | 10,000 |
| Environmental Protection, Department of | 130,000 | 0 | 130,000 | 0 |
| Health and Human Services, Department of | 39,688 | 3,171 | 36,517 | 0 |
| Marine Resources, Department of | 1,126,476 | 977,219 | 149,257 | 0 |
| Transportation, Department of | 239,000 | 191,000 | 48,000 | 0 |
| Maryland | 906,472 | 542,736 | 363,736 | 0 |
| Natural Resources, Department of | 616,472 | 310,736 | 305,736 | 0 |
| Transportation, Department of | 290,000 | 232,000 | 58,000 | 0 |
| Massachusetts | 10,934,792 | 4,235,588 | 6,659,954 | 39,250 |
| Environmental Protection, Department of | 117,732 | 15,588 | 102,144 | 0 |
| Fish and Game, Department of | 10,709,250 | 4,220,000 | 6,450,000 | 39,250 |
| Mental Health, Department of | 7,810 | 0 | 7,810 | 0 |
| Water Resources Authority | 100,000 | 0 | 100,000 | 0 |
| Michigan | 626,768 | 446,826 | 148,942 | 31,000 |
| Natural Resources, Department of | 626,768 | 446,826 | 148,942 | 31,000 |

TABLE 22. State agency expenditures for R&D for intramural performers, by state, department or agency, and source of funds: FY 2014
(Dollars)

| Department or agency | Total | Federal government | State | Other ^a |
|--------------------------------------------------------------|-------------|--------------------|------------|--------------------|
| Minnesota | 2,284,757 | 937,453 | 1,347,304 | 0 |
| Agriculture, Department of | 2,005,559 | 879,053 | 1,126,506 | 0 |
| Forest Resources Council | 65,000 | 0 | 65,000 | 0 |
| Transportation, Department of | 214,198 | 58,400 | 155,798 | 0 |
| Mississippi | 510,446 | 341,463 | 168,983 | 0 |
| Transportation, Department of | 7,681 | 6,145 | 1,536 | 0 |
| Wildlife, Fisheries, and Parks, Department of | 502,765 | 335,318 | 167,447 | 0 |
| Missouri | 1,005,924 | 103,013 | 902,911 | 0 |
| Conservation, Department of | 840,442 | 64,678 | 775,764 | 0 |
| Health and Senior Services, Department of | 21,534 | 8,728 | 12,806 | 0 |
| Natural Resources, Department of | 143,948 | 29,607 | 114,341 | 0 |
| Montana | 2,238,501 | 1,487,989 | 321,637 | 428,875 |
| Environmental Quality, Department of | 110,753 | 97,289 | 13,464 | 0 |
| Fish, Wildlife and Parks | 2,044,748 | 1,324,700 | 291,173 | 428,875 |
| Transportation, Department of | 83,000 | 66,000 | 17,000 | 0 |
| Nebraska | 769,135 | 527,835 | 241,300 | 0 |
| Agriculture, Department of | 380,711 | 274,135 | 106,576 | 0 |
| Natural Resources, Department of | 134,089 | 0 | 134,089 | 0 |
| Roads, Department of | 254,335 | 253,700 | 635 | 0 |
| Nevada | 9,927 | 9,927 | 0 | 0 |
| Wildlife, Department of | 9,927 | 9,927 | 0 | 0 |
| New Hampshire | 84,253 | 81,853 | 0 | 2,400 |
| Environmental Services, Department of | 69,853 | 69,853 | 0 | 0 |
| Transportation, Department of | 14,400 | 12,000 | 0 | 2,400 |
| New Jersey | 1,814,000 | 109,000 | 1,705,000 | 0 |
| Environmental Protection, Department of | 1,814,000 | 109,000 | 1,705,000 | 0 |
| New Mexico | 2,462,904 | 861,608 | 1,193,246 | 408,050 |
| Cultural Affairs, Department of | 1,156,400 | 9,000 | 750,400 | 397,000 |
| Game and Fish, Department of | 500,000 | 250,000 | 250,000 | 0 |
| Miners' Colfax Medical Center | 11,050 | 0 | 0 | 11,050 |
| State Engineer, Water Resource Allocation Program, Office of | 42,194 | 0 | 42,194 | 0 |
| Transportation, Department of | 753,260 | 602,608 | 150,652 | 0 |
| New York | 258,603,078 | 134,280,801 | 92,253,836 | 32,068,441 |
| Agriculture and Markets, Department of | 2,000,000 | 1,950,000 | 50,000 | 0 |
| Economic Development, Department of | 772,000 | 0 | 772,000 | 0 |
| Energy Research and Development Authority | 10,509,511 | 0 | 10,509,511 | 0 |
| Environmental Conservation, Department of | 3,149,157 | 973,280 | 2,175,877 | 0 |
| Health, Department of | 37,169,367 | 25,857,469 | 7,235,210 | 4,076,688 |
| Mental Health, Office of | 123,935,946 | 52,975,568 | 59,131,342 | 11,829,036 |
| People with Developmental Disabilities, Office of | 4,890,436 | 2,146,103 | 866,616 | 1,877,717 |
| Power Authority | 50,983 | 25,000 | 25,983 | 0 |
| Roswell Park Cancer Institute | 66,300,000 | 48,700,000 | 3,315,000 | 14,285,000 |
| State Museum | 8,261,844 | 402,314 | 7,859,530 | 0 |
| Transportation, Department of | 1,563,834 | 1,251,067 | 312,767 | 0 |
| North Carolina | 14,136,872 | 1,072,608 | 13,019,254 | 45,010 |
| Agriculture and Consumer Services, Department of | 12,000,000 | 0 | 12,000,000 | 0 |
| Environmental Quality, Department of | 1,471,306 | 625,488 | 800,808 | 45,010 |
| Transportation, Department of | 665,566 | 447,120 | 218,446 | 0 |
| North Dakota | 1,373,563 | 664,424 | 709,139 | 0 |
| Game and Fish, Department of | 825,000 | 620,000 | 205,000 | 0 |
| Lignite Research Council | 312,500 | 0 | 312,500 | 0 |
| Oil and Gas Program | 112,557 | 0 | 112,557 | 0 |

TABLE 22. State agency expenditures for R&D for intramural performers, by state, department or agency, and source of funds: FY 2014
(Dollars)

| Department or agency | Total | Federal government | State | Other ^a |
|---------------------------------------------------------------------------------------|------------|--------------------|------------|--------------------|
| Renewable Energy Research Program | 67,976 | 0 | 67,976 | 0 |
| Transportation, Department of | 55,530 | 44,424 | 11,106 | 0 |
| Ohio | 965,440 | 257,030 | 708,410 | 0 |
| Mental Health and Addiction Services, Department of | 190,000 | 0 | 190,000 | 0 |
| Natural Resources, Department of | 770,440 | 253,030 | 517,410 | 0 |
| Transportation, Department of | 5,000 | 4,000 | 1,000 | 0 |
| Oklahoma | 370,925 | 345,425 | 25,500 | 0 |
| Health, State Department of | 25,925 | 425 | 25,500 | 0 |
| Human Services, Department of | 345,000 | 345,000 | 0 | 0 |
| Oregon | 15,547,309 | 7,963,697 | 7,341,112 | 242,500 |
| Energy, Department of | 98,148 | 48,002 | 50,146 | 0 |
| Environmental Quality, Department of | 15,000 | 0 | 12,500 | 2,500 |
| Fish and Wildlife, Department of | 14,540,063 | 7,825,260 | 6,474,803 | 240,000 |
| Forestry, Department of | 677,205 | 0 | 677,205 | 0 |
| Transportation, Department of | 99,000 | 79,000 | 20,000 | 0 |
| Water Resources Department | 100,000 | 0 | 100,000 | 0 |
| Watershed Enhancement Board | 17,893 | 11,435 | 6,458 | 0 |
| Pennsylvania | 7,012,137 | 1,201,067 | 5,426,903 | 384,167 |
| Conservation and Natural Resources, Department of | 148,485 | 0 | 148,485 | 0 |
| Education, Department of | 30,000 | 0 | 30,000 | 0 |
| Environmental Protection, Department of | 612,179 | 221,862 | 390,317 | 0 |
| Fish and Boat Commission | 184,093 | 137,758 | 46,335 | 0 |
| Game Commission | 5,478,631 | 745,357 | 4,733,274 | 0 |
| Susquehanna River Basin Commission | 558,749 | 96,090 | 78,492 | 384,167 |
| Rhode Island | 389,829 | 300,062 | 89,767 | 0 |
| Atomic Energy Commission | 2,000 | 2,000 | 0 | 0 |
| Transportation, Department of | 387,829 | 298,062 | 89,767 | 0 |
| South Carolina | 17,374,915 | 12,747,887 | 4,123,548 | 503,480 |
| Natural Resources, Department of | 16,188,473 | 12,104,575 | 4,083,898 | 0 |
| Research Authority | 1,172,568 | 643,158 | 25,930 | 503,480 |
| Transportation, Department of | 13,874 | 154 | 13,720 | 0 |
| South Dakota | 220,000 | 176,000 | 44,000 | 0 |
| Transportation, Department of | 220,000 | 176,000 | 44,000 | 0 |
| Tennessee | 563,092 | 344,370 | 218,722 | 0 |
| Environment and Conservation, Department of | 270,224 | 181,186 | 89,038 | 0 |
| Geological Survey | 292,868 | 163,184 | 129,684 | 0 |
| Texas | 2,673,588 | 1,789,450 | 884,138 | 0 |
| Parks and Wildlife Department | 2,673,588 | 1,789,450 | 884,138 | 0 |
| Utah | 17,924,476 | 267,367 | 17,657,109 | 0 |
| Agriculture and Food, Department of | 16,667 | 16,667 | 0 | 0 |
| Natural Resources, Department of | 17,000,000 | 0 | 17,000,000 | 0 |
| Science Technology and Research Initiative, Governor's Office of Economic Development | 293,709 | 0 | 293,709 | 0 |
| Transportation, Department of | 614,100 | 250,700 | 363,400 | 0 |
| Vermont | 534,520 | 391,826 | 142,694 | 0 |
| Agriculture, Food, and Markets, Agency of | 184,840 | 90,073 | 94,767 | 0 |
| Human Services, Agency of | 170,047 | 170,047 | 0 | 0 |
| Public Service Department | 15,000 | 0 | 15,000 | 0 |
| Transportation, Agency of | 164,633 | 131,706 | 32,927 | 0 |
| Virginia | 10,129,948 | 4,082,534 | 6,027,342 | 20,072 |
| Aging and Rehabilitation, Department of | 30,325 | 30,325 | 0 | 0 |
| Forensic Science, Department of | 267,000 | 0 | 267,000 | 0 |
| General Services, Department of | 40,000 | 40,000 | 0 | 0 |

TABLE 22. State agency expenditures for R&D for intramural performers, by state, department or agency, and source of funds: FY 2014
(Dollars)

| Department or agency | Total | Federal government | State | Other ^a |
|-----------------------------------------------------------------------|-----------|--------------------|-----------|--------------------|
| Innovative Technology, Center for | 806,000 | 601,000 | 205,000 | 0 |
| Mines, Minerals and Energy, Department of | 1,307,504 | 679,704 | 627,800 | 0 |
| Natural History, Museum of | 701,545 | 61,939 | 619,534 | 20,072 |
| Social Services, Department of | 20,000 | 0 | 20,000 | 0 |
| Transportation, Department of | 6,957,574 | 2,669,566 | 4,288,008 | 0 |
| Washington | 9,824,415 | 3,826,601 | 4,228,202 | 1,769,612 |
| Archaeology and Historic Preservation, Department of | 335,280 | 335,280 | 0 | 0 |
| Ecology, Department of | 245,100 | 71,100 | 174,000 | 0 |
| Fish and Wildlife, Department of | 4,977,664 | 2,712,500 | 829,263 | 1,435,901 |
| Labor and Industries, Department of | 2,632,593 | 459,621 | 2,172,972 | 0 |
| Natural Resources, Department of | 1,621,478 | 248,100 | 1,039,667 | 333,711 |
| Puget Sound Partnership | 12,300 | 0 | 12,300 | 0 |
| West Virginia | 3,787,754 | 1,100,262 | 2,596,396 | 91,096 |
| Geological and Economic Survey | 2,824,578 | 866,177 | 1,867,305 | 91,096 |
| Higher Education Policy Commission | 950,619 | 231,100 | 719,519 | 0 |
| Justice and Community Services, Division of | 12,557 | 2,985 | 9,572 | 0 |
| Wisconsin | 6,279,098 | 4,017,958 | 2,179,240 | 81,900 |
| Natural Resources, Department of | 5,782,900 | 3,621,000 | 2,080,000 | 81,900 |
| Transportation, Department of | 496,198 | 396,958 | 99,240 | 0 |
| Wyoming | 1,837,188 | 1,274,520 | 367,651 | 195,017 |
| Game and Fish Department | 1,563,953 | 1,146,446 | 222,490 | 195,017 |
| State Geological Survey | 265,471 | 121,863 | 143,608 | 0 |
| Transportation, Department of | 7,764 | 6,211 | 1,553 | 0 |
| Puerto Rico ^c | 5,193,888 | 1,400,000 | 3,726,735 | 67,153 |
| Agriculture, Department of ^d | 550,000 | 400,000 | 150,000 | 0 |
| Health, Department of | 165,922 | 0 | 165,922 | 0 |
| Highways and Transportation Authority | 560,000 | 0 | 560,000 | 0 |
| Hospital San Juan ^{d,e} | 2,000,000 | 1,000,000 | 1,000,000 | 0 |
| Institute of Statistics | 617,966 | 0 | 550,813 | 67,153 |
| Mental Health and Anti-Addiction Services Administration ^d | 1,200,000 | 0 | 1,200,000 | 0 |
| Natural Resources, Department of ^d | 100,000 | 0 | 100,000 | 0 |

^a Other includes primarily other state governments and city, county, regional, township, or other local governments; it also includes nonprofit organizations and companies.

^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.

NOTE: 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.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FYs 2014 and 2015.

TABLE 23. State agency expenditures for R&D for intramural performers, by state, department or agency, and source of funds: FY 2015
(Dollars)

| Department or agency | Total | Federal government | State | Other ^a |
|----------------------------------------------------------------------------------|-------------|--------------------|-------------|--------------------|
| United States ^b | 581,667,140 | 242,636,750 | 293,696,409 | 45,333,981 |
| Alabama | 6,167,637 | 1,585,567 | 1,864,373 | 2,717,697 |
| Education, Department of | 46,000 | 0 | 46,000 | 0 |
| Forensic Sciences, Department of | 120,724 | 0 | 120,724 | 0 |
| Geological Survey | 2,355,251 | 555,978 | 1,581,095 | 218,178 |
| Marine Environmental Science Consortium | 3,645,662 | 1,029,589 | 116,554 | 2,499,519 |
| Alaska | 9,464,543 | 1,226,058 | 6,145,208 | 2,093,277 |
| Natural Resources, Division of Geological and Geophysical Surveys, Department of | 9,257,543 | 1,060,458 | 6,103,808 | 2,093,277 |
| Transportation and Public Facilities, Department of | 207,000 | 165,600 | 41,400 | 0 |
| Arizona | 8,268,168 | 6,581,121 | 1,400,047 | 287,000 |
| Game and Fish Department | 4,059,121 | 4,059,121 | 0 | 0 |
| Geological Survey | 3,256,000 | 2,522,000 | 447,000 | 287,000 |
| Health Services, Department of | 953,047 | 0 | 953,047 | 0 |
| Arkansas | 660,969 | 617,769 | 43,200 | 0 |
| Economic Development Commission | 444,969 | 444,969 | 0 | 0 |
| State Highway and Transportation Department | 216,000 | 172,800 | 43,200 | 0 |
| California | 55,223,244 | 5,848,445 | 48,715,602 | 659,197 |
| Air Resources Board | 10,803,660 | 0 | 10,803,660 | 0 |
| Corrections and Rehabilitation, Department of | 6,300,000 | 0 | 6,300,000 | 0 |
| Delta Stewardship Council | 2,850,000 | 0 | 2,250,000 | 600,000 |
| Environmental Health Hazard Assessment, Office of | 11,366,608 | 0 | 11,366,608 | 0 |
| Fish and Wildlife, Department of | 360,000 | 0 | 360,000 | 0 |
| Forestry and Fire Protection, Department of | 469,909 | 0 | 469,909 | 0 |
| Motor Vehicles, Department of | 1,175,660 | 344,839 | 771,624 | 59,197 |
| Pesticide Regulation, Department of | 6,179,000 | 0 | 6,179,000 | 0 |
| Public Health, Environmental Health Laboratory Branch, Department of | 250,000 | 100,000 | 150,000 | 0 |
| Public Health, Food and Drug Branch, Science and Education, Department of | 1,000,000 | 0 | 1,000,000 | 0 |
| Public Health, Genetic Disease, Department of | 603,000 | 400,000 | 203,000 | 0 |
| Social Services, Department of | 100,826 | 66,606 | 34,220 | 0 |
| State Coastal Conservancy | 5,000 | 0 | 5,000 | 0 |
| Transportation, Department of | 11,703,000 | 4,837,000 | 6,866,000 | 0 |
| Water Resources, Department of | 2,056,581 | 100,000 | 1,956,581 | 0 |
| Colorado | 8,467,517 | 2,674,442 | 5,195,466 | 597,609 |
| Natural Resources, Department of | 6,288,045 | 1,858,034 | 3,832,737 | 597,274 |
| Public Health and Environment, Department of | 200,000 | 0 | 200,000 | 0 |
| Public Safety, Department of | 909,092 | 139,092 | 770,000 | 0 |
| Transportation, Department of | 846,645 | 677,316 | 169,329 | 0 |
| Wine Industry Development Board | 223,735 | 0 | 223,400 | 335 |
| Connecticut | 21,885,609 | 10,182,038 | 11,703,571 | 0 |
| Agricultural Experiment Station | 10,842,422 | 4,295,334 | 6,547,088 | 0 |
| Energy and Environmental Protection, Department of | 5,900,448 | 4,367,090 | 1,533,358 | 0 |
| Mental Health and Addiction Services, Department of | 4,021,385 | 737,454 | 3,283,931 | 0 |
| Public Health, Department of | 3,874 | 0 | 3,874 | 0 |
| Transportation, Department of | 1,117,480 | 782,160 | 335,320 | 0 |
| Delaware | 1,709,791 | 481,305 | 1,218,486 | 10,000 |
| Geological Survey | 1,622,991 | 404,505 | 1,218,486 | 0 |
| Natural Resources and Environmental Control, Department of | 76,800 | 76,800 | 0 | 0 |
| Sustainable Energy Unit | 10,000 | 0 | 0 | 10,000 |
| District of Columbia | 1,541,038 | 461,896 | 1,079,142 | 0 |
| Health, Department of | 145,330 | 145,330 | 0 | 0 |
| Transportation, Department of | 395,708 | 316,566 | 79,142 | 0 |
| Water and Sewer Authority | 1,000,000 | 0 | 1,000,000 | 0 |

TABLE 23. State agency expenditures for R&D for intramural performers, by state, department or agency, and source of funds: FY 2015
(Dollars)

| Department or agency | Total | Federal government | State | Other ^a |
|-------------------------------------------------------------------|------------|--------------------|------------|--------------------|
| Florida | 45,015,557 | 11,284,888 | 30,459,912 | 3,270,757 |
| Agriculture and Consumer Services, Department of | 2,905,288 | 1,297,666 | 1,607,622 | 0 |
| Citrus, Department of | 133,351 | 0 | 133,351 | 0 |
| Fish and Wildlife Conservation Commission | 41,976,918 | 9,987,222 | 28,718,939 | 3,270,757 |
| Georgia | 1,709,229 | 1,654,724 | 54,505 | 0 |
| Natural Resources Wildlife Division, Department of | 194,020 | 139,515 | 54,505 | 0 |
| Southern States Energy Board | 1,515,209 | 1,515,209 | 0 | 0 |
| Hawaii | 1,659,573 | 119,047 | 349,860 | 1,190,666 |
| Agriculture, Department of | 60,000 | 60,000 | 0 | 0 |
| Land and Natural Resources, Department of | 1,336,076 | 59,047 | 86,363 | 1,190,666 |
| Transportation, Department of | 263,497 | 0 | 263,497 | 0 |
| Idaho | 6,469,463 | 5,188,837 | 914,614 | 366,012 |
| Commerce, Department of | 13,300 | 0 | 13,300 | 0 |
| Fish and Game, Department of | 6,161,747 | 5,039,304 | 763,931 | 358,512 |
| Transportation Department | 186,916 | 149,533 | 37,383 | 0 |
| Water Resources, Department of | 100,000 | 0 | 100,000 | 0 |
| Wheat Commission | 7,500 | 0 | 0 | 7,500 |
| Illinois | 1,550,890 | 1,131,220 | 419,670 | 0 |
| Housing Development Authority | 10,200 | 0 | 10,200 | 0 |
| Transportation, Department of | 1,540,690 | 1,131,220 | 409,470 | 0 |
| Indiana | 657,583 | 531,448 | 125,924 | 211 |
| Criminal Justice Institute | 240,000 | 200,000 | 40,000 | 0 |
| St. Joseph River Basin Commission | 3,273 | 0 | 3,062 | 211 |
| Transportation, Department of | 414,310 | 331,448 | 82,862 | 0 |
| Iowa | 3,696,335 | 1,691,929 | 2,004,406 | 0 |
| Human Rights, Criminal and Juvenile Justice Planning, Division of | 457,808 | 220,230 | 237,578 | 0 |
| Natural Resources, Department of | 3,156,308 | 1,405,924 | 1,750,384 | 0 |
| Transportation, Department of | 82,219 | 65,775 | 16,444 | 0 |
| Kansas | 1,333,800 | 879,952 | 453,848 | 0 |
| State Board of Regents | 37,557 | 0 | 37,557 | 0 |
| Transportation, Department of | 1,296,243 | 879,952 | 416,291 | 0 |
| Kentucky | 2,734,444 | 2,121,529 | 612,915 | 0 |
| Education Professional Standards Board | 316,003 | 316,003 | 0 | 0 |
| Fish and Wildlife Resources, Department of | 2,000,000 | 1,400,000 | 600,000 | 0 |
| State Nature Preserves Commission | 31,100 | 18,185 | 12,915 | 0 |
| Vocational Rehabilitation, Office of | 387,341 | 387,341 | 0 | 0 |
| Louisiana | 9,325,390 | 5,912,449 | 3,159,625 | 253,316 |
| Coastal Protection and Restoration Authority | 875,390 | 12,449 | 759,625 | 103,316 |
| Transportation and Development, Department of | 6,000,000 | 4,800,000 | 1,200,000 | 0 |
| Wildlife and Fisheries, Department of | 2,450,000 | 1,100,000 | 1,200,000 | 150,000 |
| Maine | 2,911,504 | 2,140,173 | 725,331 | 46,000 |
| Agriculture, Conservation and Forestry, Department of | 530,221 | 270,221 | 250,000 | 10,000 |
| Environmental Protection, Department of | 145,000 | 0 | 145,000 | 0 |
| Health and Human Services, Department of | 60,030 | 3,002 | 57,028 | 0 |
| Inland Fisheries and Wildlife, Department of | 101,759 | 75,759 | 5,000 | 21,000 |
| Marine Resources, Department of | 1,815,494 | 1,596,191 | 219,303 | 0 |
| State Fire Marshal's Office | 15,000 | 0 | 0 | 15,000 |
| Transportation, Department of | 244,000 | 195,000 | 49,000 | 0 |
| Maryland | 846,300 | 512,650 | 333,650 | 0 |
| Natural Resources, Department of | 556,300 | 280,650 | 275,650 | 0 |
| Transportation, Department of | 290,000 | 232,000 | 58,000 | 0 |

TABLE 23. State agency expenditures for R&D for intramural performers, by state, department or agency, and source of funds: FY 2015
(Dollars)

| Department or agency | Total | Federal government | State | Other ^a |
|---------------------------------------------------|-------------|--------------------|------------|--------------------|
| Massachusetts | 11,254,392 | 5,866,544 | 5,319,148 | 68,700 |
| Environmental Protection, Department of | 123,237 | 16,544 | 106,693 | 0 |
| Fish and Game, Department of | 11,023,700 | 5,850,000 | 5,105,000 | 68,700 |
| Mental Health, Department of | 7,455 | 0 | 7,455 | 0 |
| Water Resources Authority | 100,000 | 0 | 100,000 | 0 |
| Michigan | 702,187 | 502,758 | 167,429 | 32,000 |
| Environmental Quality, Department of | 470 | 470 | 0 | 0 |
| Natural Resources, Department of | 701,717 | 502,288 | 167,429 | 32,000 |
| Minnesota | 2,828,032 | 1,044,621 | 1,783,411 | 0 |
| Agriculture, Department of | 2,407,206 | 897,743 | 1,509,463 | 0 |
| Forest Resources Council | 65,000 | 0 | 65,000 | 0 |
| Transportation, Department of | 355,826 | 146,878 | 208,948 | 0 |
| Mississippi | 252,513 | 203,134 | 49,379 | 0 |
| Transportation, Department of | 22,635 | 18,108 | 4,527 | 0 |
| Wildlife, Fisheries, and Parks, Department of | 229,878 | 185,026 | 44,852 | 0 |
| Missouri | 1,150,753 | 403,508 | 747,245 | 0 |
| Conservation, Department of | 981,119 | 278,191 | 702,928 | 0 |
| Health and Senior Services, Department of | 48,741 | 41,545 | 7,196 | 0 |
| Natural Resources, Department of | 120,893 | 83,772 | 37,121 | 0 |
| Montana | 2,273,458 | 1,588,661 | 330,922 | 353,875 |
| Environmental Quality, Department of | 122,710 | 97,961 | 24,749 | 0 |
| Fish, Wildlife and Parks | 1,974,748 | 1,349,700 | 271,173 | 353,875 |
| Transportation, Department of | 176,000 | 141,000 | 35,000 | 0 |
| Nebraska | 534,852 | 235,151 | 299,701 | 0 |
| Agriculture, Department of | 336,212 | 228,206 | 108,006 | 0 |
| Natural Resources, Department of | 189,959 | 0 | 189,959 | 0 |
| Roads, Department of | 8,681 | 6,945 | 1,736 | 0 |
| Nevada | 3,893 | 3,893 | 0 | 0 |
| Wildlife, Department of | 3,893 | 3,893 | 0 | 0 |
| New Hampshire | 82,781 | 80,481 | 0 | 2,300 |
| Environmental Services, Department of | 68,981 | 68,981 | 0 | 0 |
| Transportation, Department of | 13,800 | 11,500 | 0 | 2,300 |
| New Jersey | 1,864,000 | 84,000 | 1,780,000 | 0 |
| Environmental Protection, Department of | 1,864,000 | 84,000 | 1,780,000 | 0 |
| New Mexico | 2,539,877 | 877,549 | 1,386,548 | 275,780 |
| Cultural Affairs, Department of | 1,237,700 | 4,100 | 968,000 | 265,600 |
| Game and Fish, Department of | 500,000 | 250,000 | 250,000 | 0 |
| Miners' Colfax Medical Center | 10,180 | 0 | 0 | 10,180 |
| State Engineer, Office of the | 12,686 | 0 | 12,686 | 0 |
| Transportation, Department of | 779,311 | 623,449 | 155,862 | 0 |
| New York | 241,920,626 | 121,004,014 | 91,144,435 | 29,772,177 |
| Agriculture and Markets, Department of | 2,000,000 | 1,950,000 | 50,000 | 0 |
| Economic Development, Department of | 802,758 | 0 | 802,758 | 0 |
| Energy Research and Development Authority | 10,726,706 | 0 | 10,726,706 | 0 |
| Environmental Conservation, Department of | 2,837,743 | 808,079 | 2,029,664 | 0 |
| Health, Department of | 32,085,201 | 21,777,122 | 7,147,735 | 3,160,344 |
| Mental Health, Office of | 117,117,415 | 49,551,076 | 55,640,739 | 11,925,600 |
| People with Developmental Disabilities, Office of | 4,228,430 | 1,574,449 | 1,323,748 | 1,330,233 |
| Power Authority | 24,029 | 0 | 24,029 | 0 |
| Roswell Park Cancer Institute | 61,800,000 | 43,500,000 | 4,944,000 | 13,356,000 |
| State Museum | 8,305,495 | 249,009 | 8,056,486 | 0 |
| Transportation, Department of | 1,992,849 | 1,594,279 | 398,570 | 0 |

TABLE 23. State agency expenditures for R&D for intramural performers, by state, department or agency, and source of funds: FY 2015
(Dollars)

| Department or agency | Total | Federal government | State | Other ^a |
|---------------------------------------------------------------------------------------|------------|--------------------|------------|--------------------|
| North Carolina | 14,429,283 | 980,391 | 13,382,394 | 66,498 |
| Agriculture and Consumer Services, Department of | 12,000,000 | 0 | 12,000,000 | 0 |
| Environmental Quality, Department of | 1,676,602 | 526,951 | 1,083,153 | 66,498 |
| Transportation, Department of | 752,681 | 453,440 | 299,241 | 0 |
| North Dakota | 1,189,828 | 638,236 | 551,592 | 0 |
| Game and Fish, Department of | 825,000 | 620,000 | 205,000 | 0 |
| Lignite Research Council | 252,500 | 0 | 252,500 | 0 |
| Oil and Gas Program | 52,557 | 0 | 52,557 | 0 |
| Renewable Energy Research Program | 36,976 | 0 | 36,976 | 0 |
| Transportation, Department of | 22,795 | 18,236 | 4,559 | 0 |
| Ohio | 864,161 | 285,529 | 578,632 | 0 |
| Mental Health and Addiction Services, Department of | 190,000 | 0 | 190,000 | 0 |
| Natural Resources, Department of | 564,161 | 197,529 | 366,632 | 0 |
| Transportation, Department of | 110,000 | 88,000 | 22,000 | 0 |
| Oklahoma | 350,570 | 345,425 | 5,145 | 0 |
| Health, State Department of | 5,570 | 425 | 5,145 | 0 |
| Human Services, Department of | 345,000 | 345,000 | 0 | 0 |
| Oregon | 18,022,139 | 8,269,858 | 9,552,339 | 199,942 |
| Energy, Department of | 226,036 | 99,559 | 107,535 | 18,942 |
| Fish and Wildlife, Department of | 16,942,348 | 8,111,069 | 8,650,279 | 181,000 |
| Forestry, Department of | 677,205 | 0 | 677,205 | 0 |
| Transportation, Department of | 54,000 | 43,000 | 11,000 | 0 |
| Water Resources Department | 100,000 | 0 | 100,000 | 0 |
| Watershed Enhancement Board | 22,550 | 16,230 | 6,320 | 0 |
| Pennsylvania | 7,387,261 | 1,432,802 | 5,453,744 | 500,715 |
| Conservation and Natural Resources, Department of | 63,348 | 0 | 63,348 | 0 |
| Education, Department of | 35,000 | 0 | 35,000 | 0 |
| Environmental Protection, Department of | 639,112 | 358,464 | 280,648 | 0 |
| Fish and Boat Commission | 76,261 | 57,137 | 19,124 | 0 |
| Game Commission | 5,806,790 | 863,632 | 4,943,158 | 0 |
| Susquehanna River Basin Commission | 766,750 | 153,569 | 112,466 | 500,715 |
| Rhode Island | 281,200 | 189,260 | 91,940 | 0 |
| Atomic Energy Commission | 1,200 | 0 | 1,200 | 0 |
| Transportation, Department of | 280,000 | 189,260 | 90,740 | 0 |
| South Carolina | 22,351,601 | 16,757,709 | 4,918,788 | 675,104 |
| Natural Resources, Department of | 20,998,966 | 16,326,371 | 4,672,595 | 0 |
| Research Authority | 1,207,150 | 332,492 | 199,554 | 675,104 |
| Transportation, Department of | 145,485 | 98,846 | 46,639 | 0 |
| South Dakota | 240,000 | 192,000 | 48,000 | 0 |
| Transportation, Department of | 240,000 | 192,000 | 48,000 | 0 |
| Tennessee | 531,871 | 298,218 | 233,653 | 0 |
| Environment and Conservation, Department of | 219,299 | 126,582 | 92,717 | 0 |
| Geological Survey | 312,572 | 171,636 | 140,936 | 0 |
| Texas | 2,745,383 | 1,766,679 | 971,545 | 7,159 |
| Parks and Wildlife Department | 2,745,383 | 1,766,679 | 971,545 | 7,159 |
| Utah | 18,192,260 | 297,855 | 17,894,405 | 0 |
| Agriculture and Food, Department of | 41,155 | 41,155 | 0 | 0 |
| Natural Resources, Department of | 17,100,000 | 0 | 17,100,000 | 0 |
| Science Technology and Research Initiative, Governor's Office of Economic Development | 423,705 | 0 | 423,705 | 0 |
| Transportation, Department of | 627,400 | 256,700 | 370,700 | 0 |

TABLE 23. State agency expenditures for R&D for intramural performers, by state, department or agency, and source of funds: FY 2015
(Dollars)

| Department or agency | Total | Federal government | State | Other ^a |
|-----------------------------------------------------------------------|------------|--------------------|------------|--------------------|
| Vermont | 555,772 | 377,059 | 178,713 | 0 |
| Agriculture, Food, and Markets, Agency of | 209,616 | 81,593 | 128,023 | 0 |
| Human Services, Agency of | 152,706 | 152,706 | 0 | 0 |
| Public Service Department | 15,000 | 0 | 15,000 | 0 |
| Transportation, Agency of | 178,450 | 142,760 | 35,690 | 0 |
| Virginia | 14,190,632 | 4,067,858 | 10,108,828 | 13,946 |
| Aging and Rehabilitation, Department of | 29,628 | 29,628 | 0 | 0 |
| Forensic Science, Department of | 271,000 | 0 | 271,000 | 0 |
| General Services, Department of | 55,000 | 55,000 | 0 | 0 |
| Innovative Technology, Center for | 1,114,000 | 844,000 | 270,000 | 0 |
| Mines, Minerals and Energy, Department of | 1,320,668 | 693,108 | 627,560 | 0 |
| Natural History, Museum of | 650,570 | 28,312 | 608,312 | 13,946 |
| Social Services, Department of | 35,000 | 0 | 35,000 | 0 |
| Transportation, Department of | 10,714,766 | 2,417,810 | 8,296,956 | 0 |
| Washington | 10,470,091 | 4,106,732 | 4,858,414 | 1,504,945 |
| Archaeology and Historic Preservation, Department of | 378,127 | 378,127 | 0 | 0 |
| Ecology, Department of | 899,377 | 92,739 | 806,638 | 0 |
| Fish and Wildlife, Department of | 4,936,117 | 2,746,356 | 853,908 | 1,335,853 |
| Labor and Industries, Department of | 2,907,584 | 692,210 | 2,215,374 | 0 |
| Natural Resources, Department of | 1,336,586 | 197,300 | 970,194 | 169,092 |
| Puget Sound Partnership | 12,300 | 0 | 12,300 | 0 |
| West Virginia | 4,728,205 | 2,383,408 | 2,275,431 | 69,366 |
| Geological and Economic Survey | 1,879,326 | 165,543 | 1,644,417 | 69,366 |
| Higher Education Policy Commission | 641,238 | 386,700 | 254,538 | 0 |
| Justice and Community Services, Division of | 13,719 | 3,243 | 10,476 | 0 |
| Transportation, Department of | 2,193,922 | 1,827,922 | 366,000 | 0 |
| Wisconsin | 6,547,800 | 4,278,360 | 2,205,340 | 64,100 |
| Natural Resources, Department of | 6,091,100 | 3,913,000 | 2,114,000 | 64,100 |
| Transportation, Department of | 456,700 | 365,360 | 91,340 | 0 |
| Wyoming | 1,883,135 | 1,247,570 | 399,933 | 235,632 |
| Game and Fish Department | 1,630,215 | 1,121,702 | 272,881 | 235,632 |
| State Geological Survey | 248,879 | 122,635 | 126,244 | 0 |
| Transportation, Department of | 4,041 | 3,233 | 808 | 0 |
| Puerto Rico ^c | 4,454,166 | 1,472,035 | 2,912,131 | 70,000 |
| Agriculture, Department of ^d | 649,048 | 472,035 | 177,013 | 0 |
| Health, Department of | 165,922 | 0 | 165,922 | 0 |
| Highways and Transportation Authority | 560,000 | 0 | 560,000 | 0 |
| Hospital San Juan ^{d,e} | 2,000,000 | 1,000,000 | 1,000,000 | 0 |
| Institute of Statistics | 568,480 | 0 | 498,480 | 70,000 |
| Mental Health and Anti-Addiction Services Administration ^d | 410,716 | 0 | 410,716 | 0 |
| Natural Resources, Department of | 100,000 | 0 | 100,000 | 0 |

^a Other includes nonprofit organizations; other state governments; and city, county, regional, township, or other local governments.

^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.

NOTE: 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.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FYs 2014 and 2015.

TABLE 24. State agency expenditures for R&D, by state, department or agency, and performer: FY 2014
(Dollars)

| Department or agency | All R&D expenditures | Intramural performers ^a | Extramural performers | | | |
|----------------------------------------------------------------------------------|----------------------|------------------------------------|-----------------------|-------------|----------------------------------------|--------------------|
| | | | Total | Academic | Companies and individuals ^b | Other ^c |
| United States ^d | 1,885,923,321 | 577,638,324 | 1,308,284,997 | 820,590,986 | 284,413,583 | 203,280,158 |
| Alabama | 18,532,534 | 4,589,652 | 13,942,882 | 8,273,271 | 0 | 5,669,611 |
| Choctawhatchee, Pea and Yellow River Watershed Management Authority | 6,340 | 0 | 6,340 | 0 | 0 | 6,340 |
| Education, Department of | 30,000 | 30,000 | 0 | 0 | 0 | 0 |
| Forensic Sciences, Department of | 72,431 | 72,431 | 0 | 0 | 0 | 0 |
| Geological Survey | 2,128,694 | 2,128,694 | 0 | 0 | 0 | 0 |
| Innovation Fund | 2,800,000 | 0 | 2,800,000 | 0 | 0 | 2,800,000 |
| Marine Environmental Science Consortium, Dauphin Island Sea Lab | 2,358,527 | 2,358,527 | 0 | 0 | 0 | 0 |
| Supercomputer Authority | 3,898,736 | 0 | 3,898,736 | 1,035,465 | 0 | 2,863,271 |
| Transportation, Department of | 7,237,806 | 0 | 7,237,806 | 7,237,806 | 0 | 0 |
| Alaska | 12,031,675 | 9,399,991 | 2,631,684 | 1,125,000 | 453,001 | 1,053,683 |
| Natural Resources, Division of Geological and Geophysical Surveys, Department of | 9,254,991 | 9,254,991 | 0 | 0 | 0 | 0 |
| Transportation and Public Facilities, Department of | 2,776,684 | 145,000 | 2,631,684 | 1,125,000 | 453,001 | 1,053,683 |
| Arizona | 18,820,149 | 8,953,596 | 9,866,553 | 3,830,463 | 5,982,788 | 53,302 |
| Agriculture, Department of | 1,063,107 | 0 | 1,063,107 | 1,056,350 | 0 | 6,757 |
| Game and Fish Department | 3,912,386 | 3,653,841 | 258,545 | 180,000 | 32,000 | 46,545 |
| Geological Survey | 3,701,000 | 3,701,000 | 0 | 0 | 0 | 0 |
| Health Services, Department of | 8,881,971 | 1,598,755 | 7,283,216 | 2,330,629 | 4,952,587 | 0 |
| Transportation, Department of | 1,261,685 | 0 | 1,261,685 | 263,484 | 998,201 | 0 |
| Arkansas | 14,994,903 | 708,544 | 14,286,359 | 13,947,662 | 338,697 | 0 |
| Beef Council | 10,000 | 0 | 10,000 | 10,000 | 0 | 0 |
| Catfish Promotion Board | 7,500 | 0 | 7,500 | 7,500 | 0 | 0 |
| Corn and Grain Sorghum Board | 777,000 | 0 | 777,000 | 777,000 | 0 | 0 |
| Economic Development Commission | 5,282,653 | 459,544 | 4,823,109 | 4,633,109 | 190,000 | 0 |
| Rice Research and Promotion Board | 2,545,040 | 0 | 2,545,040 | 2,545,040 | 0 | 0 |
| Soybean Promotion Board | 4,822,275 | 0 | 4,822,275 | 4,673,578 | 148,697 | 0 |
| State Highway and Transportation Department | 1,269,000 | 249,000 | 1,020,000 | 1,020,000 | 0 | 0 |
| Wheat Promotion Board | 281,435 | 0 | 281,435 | 281,435 | 0 | 0 |
| California | 321,958,885 | 53,984,295 | 267,974,590 | 165,066,530 | 48,781,646 | 54,126,414 |
| Air Resources Board | 17,307,789 | 10,263,477 | 7,044,312 | 6,044,312 | 0 | 1,000,000 |
| Children and Families Commission | 750,000 | 0 | 750,000 | 750,000 | 0 | 0 |
| Corrections and Rehabilitation, Department of | 6,500,000 | 6,500,000 | 0 | 0 | 0 | 0 |
| Delta Stewardship Council | 2,250,000 | 2,250,000 | 0 | 0 | 0 | 0 |
| Energy Commission | 18,393,000 | 0 | 18,393,000 | 6,989,340 | 9,196,500 | 2,207,160 |
| Environmental Health Hazard Assessment, Office of | 11,756,017 | 10,681,387 | 1,074,630 | 1,074,630 | 0 | 0 |
| Fish and Wildlife, Department of | 360,000 | 360,000 | 0 | 0 | 0 | 0 |
| Food and Agriculture, Department of | 3,879,645 | 0 | 3,879,645 | 2,850,927 | 985,684 | 43,034 |
| Forestry and Fire Protection, Department of | 803,866 | 452,546 | 351,320 | 76,753 | 0 | 274,567 |
| Horse Racing Board | 643,000 | 0 | 643,000 | 643,000 | 0 | 0 |
| Industrial Relations, Department of | 788,560 | 0 | 788,560 | 0 | 0 | 788,560 |
| Institute for Regenerative Medicine | 194,022,123 | 0 | 194,022,123 | 121,897,645 | 31,143,353 | 40,981,125 |
| Motor Vehicles, Department of | 2,042,738 | 1,579,165 | 463,573 | 463,573 | 0 | 0 |
| Pesticide Regulation, Department of | 9,072,000 | 6,151,000 | 2,921,000 | 1,382,000 | 0 | 1,539,000 |
| Public Health, Environmental Health Laboratory Branch, Department of | 300,000 | 300,000 | 0 | 0 | 0 | 0 |
| Public Health, Food and Drug Branch, Science and Education, Department of | 1,000,000 | 1,000,000 | 0 | 0 | 0 | 0 |
| Public Health, Genetic Disease, Department of | 603,000 | 603,000 | 0 | 0 | 0 | 0 |
| Public Utilities Commission, Communications Division | 364,610 | 0 | 364,610 | 364,610 | 0 | 0 |
| Resources Recycling and Recovery, Department of | 1,411,393 | 0 | 1,411,393 | 931,921 | 479,472 | 0 |
| Seismic Safety Commission | 99,980 | 0 | 99,980 | 99,980 | 0 | 0 |
| Social Services, Department of | 120,459 | 108,568 | 11,891 | 11,891 | 0 | 0 |
| State Coastal Conservancy | 183,200 | 0 | 183,200 | 0 | 0 | 183,200 |
| State Water Resources Control Board | 995,000 | 0 | 995,000 | 0 | 0 | 995,000 |

TABLE 24. State agency expenditures for R&D, by state, department or agency, and performer: FY 2014
(Dollars)

| Department or agency | All R&D expenditures | Intramural performers ^a | Extramural performers | | | |
|------------------------------------------------------------|----------------------|------------------------------------|-----------------------|------------|----------------------------------------|--------------------|
| | | | Total | Academic | Companies and individuals ^b | Other ^c |
| Transportation, Department of | 34,956,150 | 11,206,000 | 23,750,150 | 17,703,250 | 1,458,637 | 4,588,263 |
| Water Resources, Department of | 13,356,355 | 2,529,152 | 10,827,203 | 3,782,698 | 5,518,000 | 1,526,505 |
| Colorado | 15,745,589 | 8,178,672 | 7,566,917 | 4,096,592 | 2,322,790 | 1,147,535 |
| Economic Development and International Trade, Office of | 3,523,750 | 0 | 3,523,750 | 1,033,000 | 1,640,750 | 850,000 |
| Higher Education Competitive, Research Authority | 1,025,000 | 0 | 1,025,000 | 1,025,000 | 0 | 0 |
| Natural Resources, Department of | 6,611,921 | 6,325,713 | 286,208 | 58,673 | 0 | 227,535 |
| Public Health and Environment, Department of | 1,184,052 | 0 | 1,184,052 | 1,184,052 | 0 | 0 |
| Public Safety, Department of | 904,741 | 879,741 | 25,000 | 0 | 25,000 | 0 |
| Transportation, Department of | 2,224,576 | 701,669 | 1,522,907 | 795,867 | 657,040 | 70,000 |
| Wine Industry Development Board | 271,549 | 271,549 | 0 | 0 | 0 | 0 |
| Connecticut | 47,405,244 | 20,533,902 | 26,871,342 | 11,785,548 | 14,636,079 | 449,715 |
| Agricultural Experiment Station | 10,053,249 | 10,053,249 | 0 | 0 | 0 | 0 |
| Energy and Environmental Protection, Department of | 7,275,031 | 6,328,278 | 946,753 | 620,226 | 30,000 | 296,527 |
| Green Bank | 468,000 | 0 | 468,000 | 0 | 468,000 | 0 |
| Innovation Inc. | 12,185,315 | 0 | 12,185,315 | 0 | 12,185,315 | 0 |
| Mental Health and Addiction Services, Department of | 4,343,791 | 3,045,942 | 1,297,849 | 1,297,849 | 0 | 0 |
| Public Health, Department of | 8,184,667 | 5,715 | 8,178,952 | 6,073,000 | 1,952,764 | 153,188 |
| Social Services, Department of | 959,065 | 0 | 959,065 | 959,065 | 0 | 0 |
| Transportation, Department of | 3,936,126 | 1,100,718 | 2,835,408 | 2,835,408 | 0 | 0 |
| Delaware | 2,243,868 | 1,888,698 | 355,170 | 302,272 | 52,898 | 0 |
| Geological Survey | 1,884,248 | 1,834,248 | 50,000 | 50,000 | 0 | 0 |
| Natural Resources and Environmental Control, Department of | 104,407 | 54,450 | 49,957 | 49,957 | 0 | 0 |
| Transportation, Department of | 255,213 | 0 | 255,213 | 202,315 | 52,898 | 0 |
| District of Columbia | 3,136,271 | 1,444,007 | 1,692,264 | 1,401,130 | 151,134 | 140,000 |
| Health, Department of | 641,944 | 212,593 | 429,351 | 429,351 | 0 | 0 |
| Transportation, Department of | 794,327 | 331,414 | 462,913 | 341,779 | 121,134 | 0 |
| Water and Sewer Authority | 1,700,000 | 900,000 | 800,000 | 630,000 | 30,000 | 140,000 |
| Florida | 157,004,903 | 44,017,593 | 112,987,310 | 62,814,335 | 10,545,928 | 39,627,047 |
| Agriculture and Consumer Services, Department of | 28,745,442 | 3,029,127 | 25,716,315 | 6,052,894 | 6,254,620 | 13,408,801 |
| Citrus, Department of | 2,784,635 | 179,788 | 2,604,847 | 2,064,057 | 540,790 | 0 |
| Environmental Protection, Department of | 12,591 | 0 | 12,591 | 0 | 0 | 12,591 |
| Fish and Wildlife Conservation Commission | 45,157,246 | 40,808,678 | 4,348,568 | 1,782,018 | 2,360,895 | 205,655 |
| Health, Department of | 65,250,000 | 0 | 65,250,000 | 39,250,000 | 0 | 26,000,000 |
| Space Florida | 1,250,000 | 0 | 1,250,000 | 250,000 | 1,000,000 | 0 |
| Transportation, Department of | 13,804,989 | 0 | 13,804,989 | 13,415,366 | 389,623 | 0 |
| Georgia | 11,776,221 | 1,766,014 | 10,010,207 | 8,701,675 | 872,204 | 436,328 |
| Environmental Finance Authority | 435,875 | 0 | 435,875 | 0 | 435,875 | 0 |
| Natural Resources Wildlife Division, Department of | 2,148,305 | 176,451 | 1,971,854 | 1,099,197 | 436,329 | 436,328 |
| Southern States Energy Board | 3,096,465 | 1,589,563 | 1,506,902 | 1,506,902 | 0 | 0 |
| Transportation, Department of | 6,095,576 | 0 | 6,095,576 | 6,095,576 | 0 | 0 |
| Hawaii | 13,125,455 | 1,038,877 | 12,086,578 | 6,319,142 | 5,767,436 | 0 |
| Agriculture, Department of | 80,000 | 80,000 | 0 | 0 | 0 | 0 |
| Business, Economic Development, and Tourism, Department of | 4,967,972 | 0 | 4,967,972 | 667,972 | 4,300,000 | 0 |
| Land and Natural Resources, Department of | 6,929,035 | 798,484 | 6,130,551 | 4,663,115 | 1,467,436 | 0 |
| Transportation, Department of | 1,148,448 | 160,393 | 988,055 | 988,055 | 0 | 0 |
| Idaho | 12,862,935 | 6,783,779 | 6,079,156 | 3,847,393 | 649,172 | 1,582,591 |
| Barley Commission | 335,273 | 0 | 335,273 | 240,049 | 95,224 | 0 |
| Bean Commission | 23,424 | 0 | 23,424 | 23,424 | 0 | 0 |
| Commerce, Department of | 632,699 | 11,400 | 621,299 | 621,299 | 0 | 0 |
| Environmental Quality, Department of | 416,787 | 0 | 416,787 | 50,000 | 366,787 | 0 |
| Fish and Game, Department of | 7,358,733 | 6,545,979 | 812,754 | 365,195 | 0 | 447,559 |
| Oilseed Commission | 28,000 | 0 | 28,000 | 28,000 | 0 | 0 |
| Pea and Lentil Commission | 146,369 | 0 | 146,369 | 146,369 | 0 | 0 |

TABLE 24. State agency expenditures for R&D, by state, department or agency, and performer: FY 2014
(Dollars)

| Department or agency | All R&D expenditures | Intramural performers ^a | Extramural performers | | | |
|-------------------------------------------------------------------|----------------------|------------------------------------|-----------------------|-------------------|----------------------------------------|--------------------|
| | | | Total | Academic | Companies and individuals ^b | Other ^c |
| Potato Commission | 967,490 | 0 | 967,490 | 854,990 | 40,000 | 72,500 |
| Transportation Department | 2,161,329 | 214,900 | 1,946,429 | 810,262 | 121,695 | 1,014,472 |
| Wheat Commission | 792,831 | 11,500 | 781,331 | 707,805 | 25,466 | 48,060 |
| Illinois | 24,988,306 | 1,678,403 | 23,309,903 | 17,841,437 | 1,453,821 | 4,014,645 |
| Children and Family Services, Department of | 2,746,254 | 0 | 2,746,254 | 2,746,254 | 0 | 0 |
| Commerce and Economic Opportunity, Department of | 11,288,985 | 0 | 11,288,985 | 10,022,081 | 1,266,904 | 0 |
| Housing Development Authority | 2,040 | 2,040 | 0 | 0 | 0 | 0 |
| Public Health, Department of | 1,433,534 | 0 | 1,433,534 | 0 | 0 | 1,433,534 |
| Transportation, Department of | 9,517,493 | 1,676,363 | 7,841,130 | 5,073,102 | 186,917 | 2,581,111 |
| Indiana | 23,590,723 | 675,629 | 22,915,094 | 12,223,787 | 657,307 | 10,034,000 |
| Criminal Justice Institute | 640,000 | 240,000 | 400,000 | 400,000 | 0 | 0 |
| Economic Development Corporation | 12,078,594 | 0 | 12,078,594 | 1,421,287 | 657,307 | 10,000,000 |
| Kankakee River Basin Commission | 34,000 | 0 | 34,000 | 0 | 0 | 34,000 |
| Natural Resources, Department of | 250,000 | 0 | 250,000 | 250,000 | 0 | 0 |
| St. Joseph River Basin Commission | 3,694 | 3,694 | 0 | 0 | 0 | 0 |
| Transportation, Department of | 10,584,435 | 431,935 | 10,152,500 | 10,152,500 | 0 | 0 |
| Iowa | 10,357,010 | 3,884,026 | 6,472,984 | 5,470,629 | 1,002,355 | 0 |
| Economic Development Authority, Energy Office | 1,117,561 | 0 | 1,117,561 | 1,117,561 | 0 | 0 |
| Human Rights, Criminal and Juvenile Justice Planning, Division of | 522,607 | 522,607 | 0 | 0 | 0 | 0 |
| Natural Resources, Department of | 4,135,147 | 3,210,630 | 924,517 | 918,882 | 5,635 | 0 |
| Transportation, Department of | 4,581,695 | 150,789 | 4,430,906 | 3,434,186 | 996,720 | 0 |
| Kansas | 5,326,455 | 1,427,786 | 3,898,669 | 2,332,669 | 0 | 1,566,000 |
| State Board of Regents | 107,479 | 0 | 107,479 | 107,479 | 0 | 0 |
| Transportation, Department of | 3,923,777 | 1,427,786 | 2,495,991 | 1,095,991 | 0 | 1,400,000 |
| Water Office | 166,000 | 0 | 166,000 | 0 | 0 | 166,000 |
| Wheat Commission | 1,129,199 | 0 | 1,129,199 | 1,129,199 | 0 | 0 |
| Kentucky | 16,756,867 | 2,654,669 | 14,102,198 | 8,219,698 | 5,632,500 | 250,000 |
| Early Childhood Development, Governor's Office of | 295,898 | 0 | 295,898 | 295,898 | 0 | 0 |
| Economic Development, Cabinet for | 5,450,000 | 0 | 5,450,000 | 0 | 5,450,000 | 0 |
| Education Professional Standards Board | 247,964 | 247,964 | 0 | 0 | 0 | 0 |
| Energy Development and Independence, Department for | 1,753,100 | 0 | 1,753,100 | 1,503,100 | 0 | 250,000 |
| Fish and Wildlife Resources, Department of | 2,720,000 | 2,200,000 | 520,000 | 400,000 | 120,000 | 0 |
| Highways, Department of | 5,769,400 | 0 | 5,769,400 | 5,769,400 | 0 | 0 |
| Horse Racing Commission | 250,000 | 0 | 250,000 | 187,500 | 62,500 | 0 |
| Public Health, Department for | 61,800 | 0 | 61,800 | 61,800 | 0 | 0 |
| State Nature Preserves Commission | 23,300 | 21,300 | 2,000 | 2,000 | 0 | 0 |
| Vocational Rehabilitation, Office of | 185,405 | 185,405 | 0 | 0 | 0 | 0 |
| Louisiana | 18,778,159 | 8,785,247 | 9,992,912 | 5,027,333 | 2,715,114 | 2,250,465 |
| Agriculture and Forestry, Department of | 27,333 | 0 | 27,333 | 27,333 | 0 | 0 |
| Coastal Protection and Restoration Authority | 4,850,826 | 485,247 | 4,365,579 | 0 | 2,115,114 | 2,250,465 |
| Transportation and Development, Department of | 11,000,000 | 6,000,000 | 5,000,000 | 4,500,000 | 500,000 | 0 |
| Wildlife and Fisheries, Department of | 2,900,000 | 2,300,000 | 600,000 | 500,000 | 100,000 | 0 |
| Maine | 6,857,948 | 2,048,918 | 4,809,030 | 784,030 | 4,025,000 | 0 |
| Agriculture, Conservation and Forestry, Department of | 513,754 | 513,754 | 0 | 0 | 0 | 0 |
| Environmental Protection, Department of | 200,000 | 130,000 | 70,000 | 50,000 | 20,000 | 0 |
| Health and Human Services, Department of | 39,688 | 39,688 | 0 | 0 | 0 | 0 |
| Marine Resources, Department of | 1,236,506 | 1,126,476 | 110,030 | 110,030 | 0 | 0 |
| Technology Institute | 4,000,000 | 0 | 4,000,000 | 0 | 4,000,000 | 0 |
| Transportation, Department of | 868,000 | 239,000 | 629,000 | 624,000 | 5,000 | 0 |
| Maryland | 29,981,260 | 906,472 | 29,074,788 | 26,974,788 | 2,100,000 | 0 |
| Health and Mental Hygiene, Department of | 13,000,000 | 0 | 13,000,000 | 13,000,000 | 0 | 0 |
| Natural Resources, Department of | 834,164 | 616,472 | 217,692 | 217,692 | 0 | 0 |

TABLE 24. State agency expenditures for R&D, by state, department or agency, and performer: FY 2014
(Dollars)

| Department or agency | All R&D expenditures | Intramural performers ^a | Extramural performers | | | |
|-------------------------------------------------------|----------------------|------------------------------------|-----------------------|------------|----------------------------------------|--------------------|
| | | | Total | Academic | Companies and individuals ^b | Other ^c |
| Technology Development Corporation | 14,400,000 | 0 | 14,400,000 | 12,400,000 | 2,000,000 | 0 |
| Transportation, Department of | 1,747,096 | 290,000 | 1,457,096 | 1,357,096 | 100,000 | 0 |
| Massachusetts | 18,259,928 | 10,934,792 | 7,325,136 | 3,534,499 | 2,506,948 | 1,283,689 |
| Agriculture, Department of | 34,227 | 0 | 34,227 | 34,227 | 0 | 0 |
| Clean Energy Center | 2,590,446 | 0 | 2,590,446 | 165,802 | 1,800,644 | 624,000 |
| Environmental Protection, Department of | 181,452 | 117,732 | 63,720 | 33,870 | 29,850 | 0 |
| Fish and Game, Department of | 11,172,250 | 10,709,250 | 463,000 | 144,000 | 319,000 | 0 |
| Mass Life Science Center | 1,107,482 | 0 | 1,107,482 | 812,226 | 295,256 | 0 |
| Mental Health, Department of | 1,756,445 | 7,810 | 1,748,635 | 1,748,635 | 0 | 0 |
| Public Health, Department of | 1,217,626 | 0 | 1,217,626 | 495,739 | 62,198 | 659,689 |
| Water Resources Authority | 200,000 | 100,000 | 100,000 | 100,000 | 0 | 0 |
| Michigan | 12,252,555 | 626,768 | 11,625,787 | 8,417,862 | 1,575,448 | 1,632,477 |
| Agriculture and Rural Development, Department of | 3,190,880 | 0 | 3,190,880 | 1,182,955 | 475,448 | 1,532,477 |
| Environmental Quality, Department of | 213 | 0 | 213 | 213 | 0 | 0 |
| Natural Resources, Department of | 3,561,462 | 626,768 | 2,934,694 | 2,834,694 | 0 | 100,000 |
| Transportation, Department of | 5,500,000 | 0 | 5,500,000 | 4,400,000 | 1,100,000 | 0 |
| Minnesota | 19,378,825 | 2,284,757 | 17,094,068 | 11,362,598 | 3,211,644 | 2,519,826 |
| Agriculture, Department of | 4,846,071 | 2,005,559 | 2,840,512 | 1,619,197 | 932,420 | 288,895 |
| Employment and Economic Development, Department of | 2,500,000 | 0 | 2,500,000 | 2,500,000 | 0 | 0 |
| Forest Resources Council | 90,000 | 65,000 | 25,000 | 25,000 | 0 | 0 |
| Pollution Control Agency | 273,994 | 0 | 273,994 | 12,478 | 240,191 | 21,325 |
| Transportation, Department of | 11,668,760 | 214,198 | 11,454,562 | 7,205,923 | 2,039,033 | 2,209,606 |
| Mississippi | 1,313,376 | 510,446 | 802,930 | 425,294 | 377,636 | 0 |
| Transportation, Department of | 475,147 | 7,681 | 467,466 | 239,962 | 227,504 | 0 |
| Wildlife, Fisheries, and Parks, Department of | 838,229 | 502,765 | 335,464 | 185,332 | 150,132 | 0 |
| Missouri | 8,436,666 | 1,005,924 | 7,430,742 | 4,583,533 | 204,729 | 2,642,480 |
| Agriculture, Department of | 711,626 | 0 | 711,626 | 711,626 | 0 | 0 |
| Conservation, Department of | 3,025,190 | 840,442 | 2,184,748 | 2,022,703 | 0 | 162,045 |
| Health and Senior Services, Department of | 21,534 | 21,534 | 0 | 0 | 0 | 0 |
| Natural Resources, Department of | 693,277 | 143,948 | 549,329 | 440,174 | 9,340 | 99,815 |
| Transportation, Department of | 3,985,039 | 0 | 3,985,039 | 1,409,030 | 195,389 | 2,380,620 |
| Montana | 10,428,010 | 2,238,501 | 8,189,509 | 7,015,284 | 313,350 | 860,875 |
| Agriculture, Department of | 2,409,883 | 0 | 2,409,883 | 2,409,883 | 0 | 0 |
| Environmental Quality, Department of | 293,361 | 110,753 | 182,608 | 142,124 | 33,968 | 6,516 |
| Fish, Wildlife and Parks | 2,754,248 | 2,044,748 | 709,500 | 709,500 | 0 | 0 |
| Natural Resources and Conservation, Department of | 209,882 | 0 | 209,882 | 199,882 | 0 | 10,000 |
| Research and Commercialization, Board of | 1,108,929 | 0 | 1,108,929 | 897,547 | 211,382 | 0 |
| Transportation, Department of | 1,418,000 | 83,000 | 1,335,000 | 475,000 | 68,000 | 792,000 |
| Wheat and Barley Committee | 2,233,707 | 0 | 2,233,707 | 2,181,348 | 0 | 52,359 |
| Nebraska | 6,621,771 | 769,135 | 5,852,636 | 2,409,361 | 3,443,275 | 0 |
| Agriculture, Department of | 471,752 | 380,711 | 91,041 | 0 | 91,041 | 0 |
| Corn Board | 601,604 | 0 | 601,604 | 601,604 | 0 | 0 |
| Dry Bean Commission | 160,059 | 0 | 160,059 | 160,059 | 0 | 0 |
| Economic Development, Department of | 3,341,314 | 0 | 3,341,314 | 0 | 3,341,314 | 0 |
| Grain Sorghum Board | 10,000 | 0 | 10,000 | 10,000 | 0 | 0 |
| Natural Resources, Department of | 177,710 | 134,089 | 43,621 | 32,701 | 10,920 | 0 |
| Roads, Department of | 1,511,003 | 254,335 | 1,256,668 | 1,256,668 | 0 | 0 |
| Wheat Board | 348,329 | 0 | 348,329 | 348,329 | 0 | 0 |
| Nevada | 3,438,157 | 9,927 | 3,428,230 | 1,899,860 | 1,528,370 | 0 |
| Alfalfa Seed Advisory Board | 10,000 | 0 | 10,000 | 10,000 | 0 | 0 |
| Commission on Mineral Resources, Division of Minerals | 100,000 | 0 | 100,000 | 100,000 | 0 | 0 |
| Transportation, Department of | 3,257,663 | 0 | 3,257,663 | 1,729,293 | 1,528,370 | 0 |
| Wildlife, Department of | 70,494 | 9,927 | 60,567 | 60,567 | 0 | 0 |

TABLE 24. State agency expenditures for R&D, by state, department or agency, and performer: FY 2014
(Dollars)

| Department or agency | All R&D expenditures | Intramural performers ^a | Extramural performers | | | |
|------------------------------------------------------------------|----------------------|------------------------------------|-----------------------|------------|----------------------------------------|--------------------|
| | | | Total | Academic | Companies and individuals ^b | Other ^c |
| New Hampshire | 1,448,090 | 84,253 | 1,363,837 | 633,272 | 0 | 730,565 |
| Agriculture, Markets and Food, Department of | 138,837 | 0 | 138,837 | 92,972 | 0 | 45,865 |
| Environmental Services, Department of | 219,853 | 69,853 | 150,000 | 150,000 | 0 | 0 |
| Resources and Economic Development, Department of | 300,000 | 0 | 300,000 | 300,000 | 0 | 0 |
| Transportation, Department of | 789,400 | 14,400 | 775,000 | 90,300 | 0 | 684,700 |
| New Jersey | 30,384,821 | 1,814,000 | 28,570,821 | 24,101,713 | 535,722 | 3,933,386 |
| Brain Injury Research, Commission on | 3,953,357 | 0 | 3,953,357 | 3,193,384 | 0 | 759,973 |
| Cancer Research, Commission on | 591,000 | 0 | 591,000 | 591,000 | 0 | 0 |
| Environmental Protection, Department of | 3,162,639 | 1,814,000 | 1,348,639 | 1,348,639 | 0 | 0 |
| Health, Department of | 13,323,746 | 0 | 13,323,746 | 12,229,536 | 0 | 1,094,210 |
| Medical Research and Treatment of Autism, Governor's Council for | 2,862,556 | 0 | 2,862,556 | 2,065,451 | 0 | 797,105 |
| Spinal Cord Research, Commission on | 2,804,045 | 0 | 2,804,045 | 2,158,434 | 0 | 645,611 |
| Transportation, Department of | 3,687,478 | 0 | 3,687,478 | 2,515,269 | 535,722 | 636,487 |
| New Mexico | 49,805,916 | 2,462,904 | 47,343,012 | 47,069,012 | 274,000 | 0 |
| Cultural Affairs, Department of | 1,156,400 | 1,156,400 | 0 | 0 | 0 | 0 |
| Game and Fish, Department of | 1,000,000 | 500,000 | 500,000 | 500,000 | 0 | 0 |
| Higher Education Department | 45,630,800 | 0 | 45,630,800 | 45,630,800 | 0 | 0 |
| Miners' Colfax Medical Center | 15,000 | 11,050 | 3,950 | 3,950 | 0 | 0 |
| State Engineer, Water Resource Allocation Program, Office of | 81,699 | 42,194 | 39,505 | 39,505 | 0 | 0 |
| Transportation, Department of | 1,922,017 | 753,260 | 1,168,757 | 894,757 | 274,000 | 0 |
| New York | 371,224,749 | 258,603,078 | 112,621,671 | 74,397,178 | 22,634,357 | 15,590,136 |
| Agriculture and Markets, Department of | 3,390,676 | 2,000,000 | 1,390,676 | 1,340,154 | 0 | 50,522 |
| Economic Development, Department of | 48,029,330 | 772,000 | 47,257,330 | 36,609,330 | 0 | 10,648,000 |
| Energy Research and Development Authority | 41,546,339 | 10,509,511 | 31,036,828 | 5,739,770 | 21,075,472 | 4,221,586 |
| Environmental Conservation, Department of | 6,069,764 | 3,149,157 | 2,920,607 | 2,920,607 | 0 | 0 |
| Health, Department of | 48,273,199 | 37,169,367 | 11,103,832 | 10,528,238 | 95,948 | 479,646 |
| Mental Health, Office of | 137,561,179 | 123,935,946 | 13,625,233 | 13,625,233 | 0 | 0 |
| People with Developmental Disabilities, Office of | 4,890,436 | 4,890,436 | 0 | 0 | 0 | 0 |
| Power Authority | 213,846 | 50,983 | 162,863 | 0 | 162,863 | 0 |
| Roswell Park Cancer Institute | 66,300,000 | 66,300,000 | 0 | 0 | 0 | 0 |
| State Museum | 10,471,818 | 8,261,844 | 2,209,974 | 1,952,132 | 67,460 | 190,382 |
| Thoroughbred Breeding and Development Fund Corp. | 441,928 | 0 | 441,928 | 441,928 | 0 | 0 |
| Transportation, Department of | 4,036,234 | 1,563,834 | 2,472,400 | 1,239,786 | 1,232,614 | 0 |
| North Carolina | 22,114,350 | 14,136,872 | 7,977,478 | 6,247,478 | 100,000 | 1,630,000 |
| Agriculture and Consumer Services, Department of | 13,000,000 | 12,000,000 | 1,000,000 | 900,000 | 100,000 | 0 |
| Environmental Quality, Department of | 1,886,893 | 1,471,306 | 415,587 | 415,587 | 0 | 0 |
| Golden LEAF | 189,391 | 0 | 189,391 | 189,391 | 0 | 0 |
| Transportation, Department of | 6,988,066 | 665,566 | 6,322,500 | 4,692,500 | 0 | 1,630,000 |
| Wine and Grape Growers Council | 50,000 | 0 | 50,000 | 50,000 | 0 | 0 |
| North Dakota | 10,784,572 | 1,373,563 | 9,411,009 | 7,179,950 | 1,006,186 | 1,224,873 |
| Agriculture, Department of | 112,689 | 0 | 112,689 | 112,689 | 0 | 0 |
| Game and Fish, Department of | 825,000 | 825,000 | 0 | 0 | 0 | 0 |
| Lignite Research Council | 1,419,359 | 312,500 | 1,106,859 | 622,859 | 444,000 | 40,000 |
| Oil and Gas Research Program | 3,958,048 | 112,557 | 3,845,491 | 3,278,400 | 25,000 | 542,091 |
| Renewable Energy Research Program | 1,481,149 | 67,976 | 1,413,173 | 791,787 | 537,186 | 84,200 |
| Soybean Council | 1,288,295 | 0 | 1,288,295 | 1,288,295 | 0 | 0 |
| Transportation, Department of | 596,824 | 55,530 | 541,294 | 32,712 | 0 | 508,582 |
| Wheat Commission | 1,103,208 | 0 | 1,103,208 | 1,053,208 | 0 | 50,000 |
| Ohio | 94,882,275 | 965,440 | 93,916,835 | 8,098,828 | 85,427,147 | 390,860 |
| Development Services Agency | 84,085,784 | 0 | 84,085,784 | 0 | 84,085,784 | 0 |
| Mental Health and Addiction Services, Department of | 820,000 | 190,000 | 630,000 | 630,000 | 0 | 0 |
| Natural Resources, Department of | 1,395,527 | 770,440 | 625,087 | 625,087 | 0 | 0 |
| Transportation, Department of | 7,645,421 | 5,000 | 7,640,421 | 6,158,954 | 1,341,363 | 140,104 |
| Water Development Authority | 935,543 | 0 | 935,543 | 684,787 | 0 | 250,756 |

TABLE 24. State agency expenditures for R&D, by state, department or agency, and performer: FY 2014
(Dollars)

| Department or agency | All R&D expenditures | Intramural performers ^a | Extramural performers | | | |
|-------------------------------------------------------|----------------------|------------------------------------|-----------------------|------------|----------------------------------------|--------------------|
| | | | Total | Academic | Companies and individuals ^b | Other ^c |
| Oklahoma | 30,473,702 | 370,925 | 30,102,777 | 22,753,928 | 4,450,114 | 2,898,735 |
| Advancement of Science and Technology, Center for the | 10,606,717 | 0 | 10,606,717 | 5,401,000 | 4,420,114 | 785,603 |
| Agriculture, Food, and Forestry, Department of | 701,688 | 0 | 701,688 | 671,688 | 30,000 | 0 |
| Grand River Dam Authority | 100,000 | 0 | 100,000 | 100,000 | 0 | 0 |
| Health, State Department of | 170,925 | 25,925 | 145,000 | 145,000 | 0 | 0 |
| Human Services, Department of | 350,000 | 345,000 | 5,000 | 5,000 | 0 | 0 |
| Sorghum Commission | 60,000 | 0 | 60,000 | 60,000 | 0 | 0 |
| Tobacco Settlement Endowment Trust | 9,187,444 | 0 | 9,187,444 | 7,074,312 | 0 | 2,113,132 |
| Transportation, Department of | 4,588,928 | 0 | 4,588,928 | 4,588,928 | 0 | 0 |
| Wheat Commission | 308,000 | 0 | 308,000 | 308,000 | 0 | 0 |
| Wildlife Conservation, Department of | 4,400,000 | 0 | 4,400,000 | 4,400,000 | 0 | 0 |
| Oregon | 29,679,288 | 15,547,309 | 14,131,979 | 5,696,628 | 428,686 | 8,006,665 |
| Agriculture, Department of | 192,060 | 0 | 192,060 | 47,424 | 0 | 144,636 |
| Business Development Department | 10,650,000 | 0 | 10,650,000 | 3,700,000 | 0 | 6,950,000 |
| Energy, Department of | 159,464 | 98,148 | 61,316 | 0 | 57,545 | 3,771 |
| Environmental Quality, Department of | 75,000 | 15,000 | 60,000 | 55,000 | 5,000 | 0 |
| Fish and Wildlife, Department of | 14,644,063 | 14,540,063 | 104,000 | 104,000 | 0 | 0 |
| Forestry, Department of | 871,221 | 677,205 | 194,016 | 131,195 | 57,188 | 5,633 |
| Transportation, Department of | 1,540,000 | 99,000 | 1,441,000 | 1,397,047 | 43,953 | 0 |
| Water Resources Department | 125,000 | 100,000 | 25,000 | 0 | 15,000 | 10,000 |
| Watershed Enhancement Board | 1,422,480 | 17,893 | 1,404,587 | 261,962 | 250,000 | 892,625 |
| Pennsylvania | 35,432,244 | 7,012,137 | 28,420,107 | 5,189,177 | 6,322,440 | 16,908,490 |
| Agriculture, Department of | 787,000 | 0 | 787,000 | 632,600 | 0 | 154,400 |
| Community and Economic Development, Department of | 15,748,000 | 0 | 15,748,000 | 600,000 | 750,000 | 14,398,000 |
| Conservation and Natural Resources, Department of | 266,763 | 148,485 | 118,278 | 0 | 118,278 | 0 |
| Education, Department of | 30,000 | 30,000 | 0 | 0 | 0 | 0 |
| Energy Development Authority | 110,515 | 0 | 110,515 | 0 | 110,515 | 0 |
| Environmental Protection, Department of | 2,740,046 | 612,179 | 2,127,867 | 986,648 | 605,137 | 536,082 |
| Fish and Boat Commission | 304,243 | 184,093 | 120,150 | 72,590 | 0 | 47,560 |
| Game Commission | 6,265,856 | 5,478,631 | 787,225 | 706,277 | 10,000 | 70,948 |
| Health, Department of | 5,400,000 | 0 | 5,400,000 | 1,000,000 | 2,700,000 | 1,700,000 |
| Susquehanna River Basin Commission | 683,824 | 558,749 | 125,075 | 1,750 | 121,825 | 1,500 |
| Transportation, Department of | 3,095,997 | 0 | 3,095,997 | 1,189,312 | 1,906,685 | 0 |
| Rhode Island | 3,225,472 | 389,829 | 2,835,643 | 1,645,807 | 1,134,836 | 55,000 |
| Atomic Energy Commission | 2,000 | 2,000 | 0 | 0 | 0 | 0 |
| Commerce Corporation | 1,591,473 | 0 | 1,591,473 | 1,225,434 | 366,039 | 0 |
| Transportation, Department of | 1,576,999 | 387,829 | 1,189,170 | 420,373 | 768,797 | 0 |
| Water Resources Board | 55,000 | 0 | 55,000 | 0 | 0 | 55,000 |
| South Carolina | 22,311,739 | 17,374,915 | 4,936,824 | 3,185,262 | 678,793 | 1,072,769 |
| Agriculture, Department of | 396,576 | 0 | 396,576 | 396,576 | 0 | 0 |
| Mental Health, Department of | 100,884 | 0 | 100,884 | 100,884 | 0 | 0 |
| Natural Resources, Department of | 16,932,717 | 16,188,473 | 744,244 | 176,485 | 66,848 | 500,911 |
| Research Authority | 2,637,564 | 1,172,568 | 1,464,996 | 853,051 | 611,945 | 0 |
| Sea Grant Consortium | 670,990 | 0 | 670,990 | 563,050 | 0 | 107,940 |
| Transportation, Department of | 1,573,008 | 13,874 | 1,559,134 | 1,095,216 | 0 | 463,918 |
| South Dakota | 5,067,005 | 220,000 | 4,847,005 | 3,053,277 | 1,298,728 | 495,000 |
| Corn Utilization Council | 1,400,000 | 0 | 1,400,000 | 1,120,000 | 0 | 280,000 |
| Oilseeds Council | 60,000 | 0 | 60,000 | 60,000 | 0 | 0 |
| Pork Producers Council | 15,000 | 0 | 15,000 | 15,000 | 0 | 0 |
| Science and Technology Authority | 3,779 | 0 | 3,779 | 3,779 | 0 | 0 |
| Soybean Research and Promotion Council | 1,197,622 | 0 | 1,197,622 | 1,027,622 | 0 | 170,000 |
| Transportation, Department of | 1,843,604 | 220,000 | 1,623,604 | 279,876 | 1,298,728 | 45,000 |
| Weed and Pest Control Commission | 47,000 | 0 | 47,000 | 47,000 | 0 | 0 |
| Wheat Commission | 500,000 | 0 | 500,000 | 500,000 | 0 | 0 |

TABLE 24. State agency expenditures for R&D, by state, department or agency, and performer: FY 2014
(Dollars)

| Department or agency | All R&D expenditures | Intramural performers ^a | Extramural performers | | | |
|---------------------------------------------------------------------------------------|----------------------|------------------------------------|-----------------------|-------------|----------------------------------------|--------------------|
| | | | Total | Academic | Companies and individuals ^b | Other ^c |
| Tennessee | 4,363,565 | 563,092 | 3,800,473 | 3,800,473 | 0 | 0 |
| Environment and Conservation, Department of | 290,224 | 270,224 | 20,000 | 20,000 | 0 | 0 |
| Geological Survey | 292,868 | 292,868 | 0 | 0 | 0 | 0 |
| Transportation, Department of | 3,780,473 | 0 | 3,780,473 | 3,780,473 | 0 | 0 |
| Texas | 162,287,552 | 2,673,588 | 159,613,964 | 122,518,992 | 28,725,454 | 8,369,518 |
| Agriculture, Department of | 1,417,500 | 0 | 1,417,500 | 949,000 | 124,500 | 344,000 |
| Cancer Prevention and Research Institute | 127,133,911 | 0 | 127,133,911 | 95,914,053 | 24,667,364 | 6,552,494 |
| Council on Alzheimer's Disease | 4,750,000 | 0 | 4,750,000 | 4,750,000 | 0 | 0 |
| Environmental Quality, Commission on | 1,000,000 | 0 | 1,000,000 | 1,000,000 | 0 | 0 |
| Parks and Wildlife Department | 9,907,770 | 2,673,588 | 7,234,182 | 4,743,565 | 2,456,866 | 33,751 |
| Transportation, Department of | 13,640,184 | 0 | 13,640,184 | 13,640,184 | 0 | 0 |
| Water Development Board | 4,438,187 | 0 | 4,438,187 | 1,522,190 | 1,476,724 | 1,439,273 |
| Utah | 36,466,790 | 17,924,476 | 18,542,314 | 17,866,618 | 567,409 | 108,287 |
| Agriculture and Food, Department of | 355,984 | 16,667 | 339,317 | 232,570 | 0 | 106,747 |
| Economic Development | 1,363,375 | 0 | 1,363,375 | 896,026 | 465,809 | 1,540 |
| Natural Resources, Department of | 17,000,000 | 17,000,000 | 0 | 0 | 0 | 0 |
| Science Technology and Research Initiative, Governor's Office of Economic Development | 16,597,431 | 293,709 | 16,303,722 | 16,303,722 | 0 | 0 |
| Transportation, Department of | 1,150,000 | 614,100 | 535,900 | 434,300 | 101,600 | 0 |
| Vermont | 2,039,520 | 534,520 | 1,505,000 | 882,835 | 534,515 | 87,650 |
| Agriculture, Food, and Markets, Agency of | 549,826 | 184,840 | 364,986 | 218,990 | 145,996 | 0 |
| Human Services, Agency of | 170,047 | 170,047 | 0 | 0 | 0 | 0 |
| Natural Resources, Agency of | 197,945 | 0 | 197,945 | 110,295 | 0 | 87,650 |
| Public Service Department | 113,837 | 15,000 | 98,837 | 0 | 98,837 | 0 |
| Transportation, Agency of | 1,007,865 | 164,633 | 843,232 | 553,550 | 289,682 | 0 |
| Virginia | 38,456,410 | 10,129,948 | 28,326,462 | 21,302,482 | 1,839,928 | 5,184,052 |
| Aging and Rehabilitation, Department of | 30,325 | 30,325 | 0 | 0 | 0 | 0 |
| Agriculture and Consumer Services, Department of | 700,636 | 0 | 700,636 | 688,636 | 0 | 12,000 |
| Commonwealth Health Research Board | 692,409 | 0 | 692,409 | 593,771 | 0 | 98,638 |
| Environmental Quality, Department of | 2,188,242 | 0 | 2,188,242 | 918,620 | 0 | 1,269,622 |
| Forensic Science, Department of | 267,000 | 267,000 | 0 | 0 | 0 | 0 |
| Forestry, Department of | 396,188 | 0 | 396,188 | 23,230 | 372,958 | 0 |
| Foundation for Healthy Youth | 773,023 | 0 | 773,023 | 773,023 | 0 | 0 |
| Game and Inland Fisheries, Department of | 1,875,188 | 0 | 1,875,188 | 1,685,753 | 4,970 | 184,465 |
| General Services, Department of | 40,000 | 40,000 | 0 | 0 | 0 | 0 |
| Innovative Technology, Center for | 5,006,000 | 806,000 | 4,200,000 | 2,930,000 | 912,000 | 358,000 |
| Marine Resources Commission | 2,606,910 | 0 | 2,606,910 | 2,606,910 | 0 | 0 |
| Mines, Minerals and Energy, Department of | 1,857,504 | 1,307,504 | 550,000 | 0 | 550,000 | 0 |
| Natural History, Museum of | 701,545 | 701,545 | 0 | 0 | 0 | 0 |
| Social Services, Department of | 20,000 | 20,000 | 0 | 0 | 0 | 0 |
| Tobacco Region Revitalization Commission | 8,521,485 | 0 | 8,521,485 | 5,260,158 | 0 | 3,261,327 |
| Transportation, Department of | 12,779,955 | 6,957,574 | 5,822,381 | 5,822,381 | 0 | 0 |
| Washington | 38,277,525 | 9,824,415 | 28,453,110 | 25,749,496 | 856,389 | 1,847,225 |
| Agriculture, Department of | 1,264,557 | 0 | 1,264,557 | 900,053 | 81,127 | 283,377 |
| Alfalfa Seed Commission | 32,000 | 0 | 32,000 | 32,000 | 0 | 0 |
| Archaeology and Historic Preservation, Department of | 335,280 | 335,280 | 0 | 0 | 0 | 0 |
| Asparagus Commission | 57,000 | 0 | 57,000 | 57,000 | 0 | 0 |
| Beef Commission | 20,000 | 0 | 20,000 | 20,000 | 0 | 0 |
| Blueberry Commission | 149,905 | 0 | 149,905 | 149,905 | 0 | 0 |
| Cranberry Commission | 14,358 | 0 | 14,358 | 14,358 | 0 | 0 |
| Dairy Products Commission | 80,200 | 0 | 80,200 | 30,342 | 13,301 | 36,557 |
| Dry Pea and Lentil Commission | 245,843 | 0 | 245,843 | 245,843 | 0 | 0 |
| Ecology, Department of | 380,786 | 245,100 | 135,686 | 135,686 | 0 | 0 |
| Fish and Wildlife, Department of | 4,977,664 | 4,977,664 | 0 | 0 | 0 | 0 |

TABLE 24. State agency expenditures for R&D, by state, department or agency, and performer: FY 2014
(Dollars)

| Department or agency | All R&D expenditures | Intramural performers ^a | Extramural performers | | | |
|-----------------------------------------------------------------------|----------------------|------------------------------------|-----------------------|------------|----------------------------------------|--------------------|
| | | | Total | Academic | Companies and individuals ^b | Other ^c |
| Fruit Commission | 8,000 | 0 | 8,000 | 8,000 | 0 | 0 |
| Grain Commission | 2,351,631 | 0 | 2,351,631 | 2,351,631 | 0 | 0 |
| Hop Commission | 158,986 | 0 | 158,986 | 158,986 | 0 | 0 |
| Labor and Industries, Department of | 2,632,593 | 2,632,593 | 0 | 0 | 0 | 0 |
| Life Sciences Discovery Fund | 11,904,246 | 0 | 11,904,246 | 11,904,246 | 0 | 0 |
| Mint Commission | 34,605 | 0 | 34,605 | 34,605 | 0 | 0 |
| Natural Resources, Department of | 3,180,045 | 1,621,478 | 1,558,567 | 214,594 | 0 | 1,343,973 |
| Oilseeds Commission | 9,000 | 0 | 9,000 | 9,000 | 0 | 0 |
| Pesticide Registration, Commission of | 385,113 | 0 | 385,113 | 385,113 | 0 | 0 |
| Potato Commission | 833,671 | 0 | 833,671 | 833,671 | 0 | 0 |
| Puget Sound Partnership | 727,600 | 12,300 | 715,300 | 6,395 | 543,187 | 165,718 |
| Red Raspberry Commission | 262,429 | 0 | 262,429 | 226,055 | 18,774 | 17,600 |
| Seed Potato Commission | 17,263 | 0 | 17,263 | 17,263 | 0 | 0 |
| Transportation, Department of | 5,450,000 | 0 | 5,450,000 | 5,250,000 | 200,000 | 0 |
| Tree Fruit Research Commission | 2,540,000 | 0 | 2,540,000 | 2,540,000 | 0 | 0 |
| Turfgrass Commission | 42,000 | 0 | 42,000 | 42,000 | 0 | 0 |
| Wine Commission | 182,750 | 0 | 182,750 | 182,750 | 0 | 0 |
| West Virginia | 9,705,200 | 3,787,754 | 5,917,446 | 4,585,961 | 605,696 | 725,789 |
| Geological and Economic Survey | 4,555,155 | 2,824,578 | 1,730,577 | 399,092 | 605,696 | 725,789 |
| Higher Education Policy Commission | 5,137,488 | 950,619 | 4,186,869 | 4,186,869 | 0 | 0 |
| Justice and Community Services, Division of | 12,557 | 12,557 | 0 | 0 | 0 | 0 |
| Wisconsin | 14,643,835 | 6,279,098 | 8,364,737 | 3,058,544 | 3,461,476 | 1,844,717 |
| Agriculture, Trade and Consumer Protection, Department of | 616,740 | 0 | 616,740 | 476,439 | 85,060 | 55,241 |
| Economic Development Corporation | 3,000,000 | 0 | 3,000,000 | 0 | 3,000,000 | 0 |
| Natural Resources, Department of | 7,183,900 | 5,782,900 | 1,401,000 | 1,401,000 | 0 | 0 |
| Transportation, Department of | 3,843,195 | 496,198 | 3,346,997 | 1,181,105 | 376,416 | 1,789,476 |
| Wyoming | 6,444,053 | 1,837,188 | 4,606,865 | 1,540,400 | 2,230,707 | 835,758 |
| Agriculture, Department of | 225,000 | 0 | 225,000 | 125,000 | 0 | 100,000 |
| Enhanced Oil Recovery Commission | 250,000 | 0 | 250,000 | 250,000 | 0 | 0 |
| Game and Fish Department | 1,857,846 | 1,563,953 | 293,893 | 293,893 | 0 | 0 |
| State Engineer, Office of | 100,000 | 0 | 100,000 | 0 | 100,000 | 0 |
| State Geological Survey | 265,471 | 265,471 | 0 | 0 | 0 | 0 |
| Transportation, Department of | 1,230,873 | 7,764 | 1,223,109 | 12,060 | 1,211,049 | 0 |
| Water Development Commission | 2,373,863 | 0 | 2,373,863 | 718,447 | 919,658 | 735,758 |
| Wildlife and Natural Resources Trust | 141,000 | 0 | 141,000 | 141,000 | 0 | 0 |
| Puerto Rico ^e | 6,569,500 | 5,193,888 | 1,375,612 | 844,987 | 530,625 | 0 |
| Agriculture, Department of ^f | 550,000 | 550,000 | 0 | 0 | 0 | 0 |
| Health, Department of | 165,922 | 165,922 | 0 | 0 | 0 | 0 |
| Highways and Transportation Authority | 560,000 | 560,000 | 0 | 0 | 0 | 0 |
| Hospital San Juan ^{f,g} | 2,000,000 | 2,000,000 | 0 | 0 | 0 | 0 |
| Institute of Statistics | 617,966 | 617,966 | 0 | 0 | 0 | 0 |
| Manufacturing Extension, Incorporated ^f | 319,378 | 0 | 319,378 | 0 | 319,378 | 0 |
| Mental Health and Anti-Addiction Services Administration ^f | 1,200,000 | 1,200,000 | 0 | 0 | 0 | 0 |
| Natural Resources, Department of | 100,000 | 100,000 | 0 | 0 | 0 | 0 |
| Science, Technology and Research Trust ^f | 1,056,234 | 0 | 1,056,234 | 844,987 | 211,247 | 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.

^b Companies and individuals include individuals under contract for research projects.

^c Other includes federal government; nonprofit organizations; city, county, regional, or other local governments; and other state governments.

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

^e Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

^f Data are provided as imputed by the Puerto Rico Institute of Statistics.

^g 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 2014 and 2015.

TABLE 25. State agency expenditures for R&D, by state, department or agency, and performer: FY 2015
(Dollars)

| Department or agency | All R&D expenditures | Intramural performers ^a | Extramural performers | | | |
|----------------------------------------------------------------------------------|----------------------|------------------------------------|-----------------------|-------------|----------------------------------------|--------------------|
| | | | Total | Academic | Companies and individuals ^b | Other ^c |
| United States ^d | 2,205,146,613 | 581,667,140 | 1,623,479,473 | 951,095,709 | 449,158,167 | 223,225,597 |
| Alabama | 24,486,963 | 6,167,637 | 18,319,326 | 14,702,754 | 0 | 3,616,572 |
| Choctawhatchee, Pea and Yellow River Watershed Management Authority | 6,340 | 0 | 6,340 | 0 | 0 | 6,340 |
| Education, Department of | 46,000 | 46,000 | 0 | 0 | 0 | 0 |
| Forensic Sciences, Department of | 120,724 | 120,724 | 0 | 0 | 0 | 0 |
| Geological Survey | 2,355,251 | 2,355,251 | 0 | 0 | 0 | 0 |
| Innovation Fund | 5,950,371 | 0 | 5,950,371 | 5,202,571 | 0 | 747,800 |
| Marine Environmental Science Consortium, Dauphin Island Sea Lab | 3,645,662 | 3,645,662 | 0 | 0 | 0 | 0 |
| Supercomputer Authority | 3,788,249 | 0 | 3,788,249 | 925,817 | 0 | 2,862,432 |
| Transportation, Department of | 8,574,366 | 0 | 8,574,366 | 8,574,366 | 0 | 0 |
| Alaska | 11,258,203 | 9,464,543 | 1,793,660 | 567,720 | 435,000 | 790,940 |
| Natural Resources, Division of Geological and Geophysical Surveys, Department of | 9,257,543 | 9,257,543 | 0 | 0 | 0 | 0 |
| Transportation and Public Facilities, Department of | 2,000,660 | 207,000 | 1,793,660 | 567,720 | 435,000 | 790,940 |
| Arizona | 14,942,124 | 8,268,168 | 6,673,956 | 2,377,380 | 4,211,395 | 85,181 |
| Agriculture, Department of | 818,816 | 0 | 818,816 | 769,216 | 0 | 49,600 |
| Game and Fish Department | 4,313,702 | 4,059,121 | 254,581 | 191,000 | 28,000 | 35,581 |
| Geological Survey | 3,256,000 | 3,256,000 | 0 | 0 | 0 | 0 |
| Health Services, Department of | 5,294,706 | 953,047 | 4,341,659 | 1,389,331 | 2,952,328 | 0 |
| Transportation, Department of | 1,258,900 | 0 | 1,258,900 | 27,833 | 1,231,067 | 0 |
| Arkansas | 16,642,711 | 660,969 | 15,981,742 | 15,281,405 | 700,337 | 0 |
| Beef Council | 40,750 | 0 | 40,750 | 40,750 | 0 | 0 |
| Catfish Promotion Board | 27,560 | 0 | 27,560 | 27,560 | 0 | 0 |
| Corn and Grain Sorghum Board | 779,000 | 0 | 779,000 | 779,000 | 0 | 0 |
| Economic Development Commission | 8,067,653 | 444,969 | 7,622,684 | 7,042,684 | 580,000 | 0 |
| Rice Research and Promotion Board | 2,996,500 | 0 | 2,996,500 | 2,996,500 | 0 | 0 |
| Soybean Promotion Board | 3,100,707 | 0 | 3,100,707 | 2,980,370 | 120,337 | 0 |
| State Highway and Transportation Department | 1,486,000 | 216,000 | 1,270,000 | 1,270,000 | 0 | 0 |
| Wheat Promotion Board | 144,541 | 0 | 144,541 | 144,541 | 0 | 0 |
| California | 500,071,595 | 55,223,244 | 444,848,351 | 207,483,829 | 170,379,215 | 66,985,307 |
| Air Resources Board | 18,218,725 | 10,803,660 | 7,415,065 | 6,815,065 | 0 | 600,000 |
| Children and Families Commission | 935,000 | 0 | 935,000 | 750,000 | 0 | 185,000 |
| Community Services and Development, Department of | 100,000 | 0 | 100,000 | 0 | 0 | 100,000 |
| Corrections and Rehabilitation, Department of | 6,300,000 | 6,300,000 | 0 | 0 | 0 | 0 |
| Delta Stewardship Council | 2,850,000 | 2,850,000 | 0 | 0 | 0 | 0 |
| Energy Commission | 194,354,000 | 0 | 194,354,000 | 38,870,800 | 132,160,720 | 23,322,480 |
| Environmental Health Hazard Assessment, Office of | 11,795,522 | 11,366,608 | 428,914 | 428,914 | 0 | 0 |
| Fish and Wildlife, Department of | 360,000 | 360,000 | 0 | 0 | 0 | 0 |
| Food and Agriculture, Department of | 4,041,669 | 0 | 4,041,669 | 3,906,224 | 47,347 | 88,098 |
| Forestry and Fire Protection, Department of | 1,143,564 | 469,909 | 673,655 | 337,381 | 0 | 336,274 |
| Horse Racing Board | 659,000 | 0 | 659,000 | 659,000 | 0 | 0 |
| Industrial Relations, Department of | 40,682 | 0 | 40,682 | 40,682 | 0 | 0 |
| Institute for Regenerative Medicine | 198,649,268 | 0 | 198,649,268 | 131,018,792 | 33,032,265 | 34,598,211 |
| Motor Vehicles, Department of | 1,287,082 | 1,175,660 | 111,422 | 111,422 | 0 | 0 |
| Pesticide Regulation, Department of | 10,211,000 | 6,179,000 | 4,032,000 | 2,164,000 | 0 | 1,868,000 |
| Public Health, Environmental Health Laboratory Branch, Department of | 250,000 | 250,000 | 0 | 0 | 0 | 0 |
| Public Health, Food and Drug Branch, Science and Education, Department of | 1,000,000 | 1,000,000 | 0 | 0 | 0 | 0 |
| Public Health, Genetic Disease, Department of | 603,000 | 603,000 | 0 | 0 | 0 | 0 |
| Public Utilities Commission, Communications Division | 1,135,474 | 0 | 1,135,474 | 1,135,474 | 0 | 0 |
| Resources Recycling and Recovery, Department of | 1,844,832 | 0 | 1,844,832 | 412,804 | 1,432,028 | 0 |
| Seismic Safety Commission | 920,490 | 0 | 920,490 | 870,990 | 49,500 | 0 |
| Social Services, Department of | 100,826 | 100,826 | 0 | 0 | 0 | 0 |
| State Coastal Conservancy | 73,833 | 5,000 | 68,833 | 0 | 0 | 68,833 |

TABLE 25. State agency expenditures for R&D, by state, department or agency, and performer: FY 2015
(Dollars)

| Department or agency | All R&D expenditures | Intramural performers ^a | Extramural performers | | | |
|------------------------------------------------------------|----------------------|------------------------------------|-----------------------|------------|----------------------------------------|--------------------|
| | | | Total | Academic | Companies and individuals ^b | Other ^c |
| State Water Resources Control Board | 650,000 | 0 | 650,000 | 0 | 0 | 650,000 |
| Transportation, Department of | 34,951,005 | 11,703,000 | 23,248,005 | 16,860,994 | 1,298,355 | 5,088,656 |
| Water Resources, Department of | 7,596,623 | 2,056,581 | 5,540,042 | 3,101,287 | 2,359,000 | 79,755 |
| Colorado | 16,321,056 | 8,467,517 | 7,853,539 | 3,780,835 | 3,144,565 | 928,139 |
| Economic Development and International Trade, Office of | 2,809,069 | 0 | 2,809,069 | 108,500 | 2,217,000 | 483,569 |
| Higher Education Competitive, Research Authority | 2,314,761 | 0 | 2,314,761 | 2,314,761 | 0 | 0 |
| Natural Resources, Department of | 6,928,752 | 6,288,045 | 640,707 | 196,137 | 0 | 444,570 |
| Public Health and Environment, Department of | 1,156,437 | 200,000 | 956,437 | 956,437 | 0 | 0 |
| Public Safety, Department of | 992,092 | 909,092 | 83,000 | 0 | 83,000 | 0 |
| Transportation, Department of | 1,896,210 | 846,645 | 1,049,565 | 205,000 | 844,565 | 0 |
| Wine Industry Development Board | 223,735 | 223,735 | 0 | 0 | 0 | 0 |
| Connecticut | 55,816,528 | 21,885,609 | 33,930,919 | 19,905,962 | 13,809,727 | 215,230 |
| Aging, Department on | 62,752 | 0 | 62,752 | 62,752 | 0 | 0 |
| Agricultural Experiment Station | 10,842,422 | 10,842,422 | 0 | 0 | 0 | 0 |
| Energy and Environmental Protection, Department of | 6,725,328 | 5,900,448 | 824,880 | 596,059 | 66,461 | 162,360 |
| Innovation Inc. | 18,820,358 | 0 | 18,820,358 | 6,300,000 | 12,520,358 | 0 |
| Mental Health and Addiction Services, Department of | 5,203,948 | 4,021,385 | 1,182,563 | 1,182,563 | 0 | 0 |
| Public Health, Department of | 7,387,895 | 3,874 | 7,384,021 | 6,108,243 | 1,222,908 | 52,870 |
| Social Services, Department of | 1,363,958 | 0 | 1,363,958 | 1,363,958 | 0 | 0 |
| Transportation, Department of | 5,409,867 | 1,117,480 | 4,292,387 | 4,292,387 | 0 | 0 |
| Delaware | 2,199,635 | 1,709,791 | 489,844 | 419,629 | 70,215 | 0 |
| Geological Survey | 1,672,991 | 1,622,991 | 50,000 | 50,000 | 0 | 0 |
| Natural Resources and Environmental Control, Department of | 375,023 | 76,800 | 298,223 | 248,224 | 49,999 | 0 |
| Sustainable Energy Unit | 10,000 | 10,000 | 0 | 0 | 0 | 0 |
| Transportation, Department of | 141,621 | 0 | 141,621 | 121,405 | 20,216 | 0 |
| District of Columbia | 3,216,073 | 1,541,038 | 1,675,035 | 1,125,035 | 400,000 | 150,000 |
| Health, Department of | 312,696 | 145,330 | 167,366 | 167,366 | 0 | 0 |
| Transportation, Department of | 903,377 | 395,708 | 507,669 | 407,669 | 100,000 | 0 |
| Water and Sewer Authority | 2,000,000 | 1,000,000 | 1,000,000 | 550,000 | 300,000 | 150,000 |
| Florida | 191,598,669 | 45,015,557 | 146,583,112 | 86,084,927 | 15,800,070 | 44,698,115 |
| Agriculture and Consumer Services, Department of | 29,138,531 | 2,905,288 | 26,233,243 | 6,925,796 | 11,093,710 | 8,213,737 |
| Citrus, Department of | 3,435,397 | 133,351 | 3,302,046 | 3,269,682 | 32,364 | 0 |
| Fish and Wildlife Conservation Commission | 46,840,673 | 41,976,918 | 4,863,755 | 1,170,116 | 3,388,174 | 305,465 |
| Health, Department of | 101,063,013 | 0 | 101,063,013 | 64,884,100 | 0 | 36,178,913 |
| Space Florida | 1,350,000 | 0 | 1,350,000 | 350,000 | 1,000,000 | 0 |
| Transportation, Department of | 9,771,055 | 0 | 9,771,055 | 9,485,233 | 285,822 | 0 |
| Georgia | 10,052,848 | 1,709,229 | 8,343,619 | 6,419,803 | 1,600,096 | 323,720 |
| Environmental Finance Authority | 1,276,375 | 0 | 1,276,375 | 0 | 1,276,375 | 0 |
| Natural Resources Wildlife Division, Department of | 1,785,933 | 194,020 | 1,591,913 | 944,472 | 323,721 | 323,720 |
| Southern States Energy Board | 3,148,268 | 1,515,209 | 1,633,059 | 1,633,059 | 0 | 0 |
| Transportation, Department of | 3,842,272 | 0 | 3,842,272 | 3,842,272 | 0 | 0 |
| Hawaii | 11,520,961 | 1,659,573 | 9,861,388 | 6,609,154 | 3,252,234 | 0 |
| Agriculture, Department of | 60,000 | 60,000 | 0 | 0 | 0 | 0 |
| Business, Economic Development, and Tourism, Department of | 2,273,071 | 0 | 2,273,071 | 773,071 | 1,500,000 | 0 |
| Land and Natural Resources, Department of | 7,849,438 | 1,336,076 | 6,513,362 | 4,761,128 | 1,752,234 | 0 |
| Transportation, Department of | 1,338,452 | 263,497 | 1,074,955 | 1,074,955 | 0 | 0 |
| Idaho | 12,935,976 | 6,469,463 | 6,466,513 | 4,116,233 | 952,905 | 1,397,375 |
| Barley Commission | 346,105 | 0 | 346,105 | 219,672 | 126,433 | 0 |
| Bean Commission | 65,930 | 0 | 65,930 | 34,430 | 0 | 31,500 |
| Commerce, Department of | 964,154 | 13,300 | 950,854 | 950,854 | 0 | 0 |
| Environmental Quality, Department of | 620,407 | 0 | 620,407 | 0 | 373,182 | 247,225 |
| Fish and Game, Department of | 7,051,382 | 6,161,747 | 889,635 | 519,722 | 0 | 369,913 |
| Oilseed Commission | 30,000 | 0 | 30,000 | 30,000 | 0 | 0 |

TABLE 25. State agency expenditures for R&D, by state, department or agency, and performer: FY 2015
(Dollars)

| Department or agency | All R&D expenditures | Intramural performers ^a | Extramural performers | | | |
|-------------------------------------------------------------------|----------------------|------------------------------------|-----------------------|-------------------|----------------------------------------|--------------------|
| | | | Total | Academic | Companies and individuals ^b | Other ^c |
| Pea and Lentil Commission | 144,725 | 0 | 144,725 | 144,725 | 0 | 0 |
| Potato Commission | 1,038,040 | 0 | 1,038,040 | 962,404 | 0 | 75,636 |
| Transportation Department | 1,436,567 | 186,916 | 1,249,651 | 353,760 | 253,290 | 642,601 |
| Water Resources, Department of | 300,000 | 100,000 | 200,000 | 0 | 200,000 | 0 |
| Wheat Commission | 938,666 | 7,500 | 931,166 | 900,666 | 0 | 30,500 |
| Illinois | 30,817,406 | 1,550,890 | 29,266,516 | 16,711,913 | 7,639,281 | 4,915,322 |
| Children and Family Services, Department of | 2,853,572 | 0 | 2,853,572 | 2,853,572 | 0 | 0 |
| Commerce and Economic Opportunity, Department of | 15,798,322 | 0 | 15,798,322 | 8,237,204 | 7,561,118 | 0 |
| Housing Development Authority | 10,200 | 10,200 | 0 | 0 | 0 | 0 |
| Human Services, Department of | 61,316 | 0 | 61,316 | 61,316 | 0 | 0 |
| Public Health, Department of | 2,491,629 | 0 | 2,491,629 | 0 | 0 | 2,491,629 |
| Transportation, Department of | 9,602,367 | 1,540,690 | 8,061,677 | 5,559,821 | 78,163 | 2,423,693 |
| Indiana | 9,987,058 | 657,583 | 9,329,475 | 8,853,091 | 362,384 | 114,000 |
| Criminal Justice Institute | 640,000 | 240,000 | 400,000 | 400,000 | 0 | 0 |
| Economic Development Corporation | 1,488,480 | 0 | 1,488,480 | 1,133,787 | 354,693 | 0 |
| Kankakee River Basin Commission | 114,000 | 0 | 114,000 | 0 | 0 | 114,000 |
| Natural Resources, Department of | 250,000 | 0 | 250,000 | 250,000 | 0 | 0 |
| St. Joseph River Basin Commission | 10,964 | 3,273 | 7,691 | 0 | 7,691 | 0 |
| Transportation, Department of | 7,483,614 | 414,310 | 7,069,304 | 7,069,304 | 0 | 0 |
| Iowa | 11,277,534 | 3,696,335 | 7,581,199 | 5,998,277 | 1,582,922 | 0 |
| Economic Development Authority, Energy Office | 710,522 | 0 | 710,522 | 710,522 | 0 | 0 |
| Human Rights, Criminal and Juvenile Justice Planning, Division of | 457,808 | 457,808 | 0 | 0 | 0 | 0 |
| Natural Resources, Department of | 4,279,253 | 3,156,308 | 1,122,945 | 1,111,247 | 11,698 | 0 |
| Transportation, Department of | 5,829,951 | 82,219 | 5,747,732 | 4,176,508 | 1,571,224 | 0 |
| Kansas | 5,469,052 | 1,333,800 | 4,135,252 | 2,684,331 | 0 | 1,450,921 |
| State Board of Regents | 132,582 | 37,557 | 95,025 | 95,025 | 0 | 0 |
| Transportation, Department of | 3,749,587 | 1,296,243 | 2,453,344 | 1,251,522 | 0 | 1,201,822 |
| Water Office | 258,099 | 0 | 258,099 | 9,000 | 0 | 249,099 |
| Wheat Commission | 1,328,784 | 0 | 1,328,784 | 1,328,784 | 0 | 0 |
| Kentucky | 17,256,496 | 2,734,444 | 14,522,052 | 8,562,064 | 5,645,489 | 314,499 |
| Early Childhood Development, Governor's Office of | 53,264 | 0 | 53,264 | 53,264 | 0 | 0 |
| Economic Development, Cabinet for | 5,450,000 | 0 | 5,450,000 | 0 | 5,450,000 | 0 |
| Education Professional Standards Board | 668,491 | 316,003 | 352,488 | 0 | 37,989 | 314,499 |
| Energy Development and Independence, Department for | 1,667,000 | 0 | 1,667,000 | 1,667,000 | 0 | 0 |
| Fish and Wildlife Resources, Department of | 2,520,000 | 2,000,000 | 520,000 | 400,000 | 120,000 | 0 |
| Highways, Department of | 6,294,300 | 0 | 6,294,300 | 6,294,300 | 0 | 0 |
| Horse Racing Commission | 150,000 | 0 | 150,000 | 112,500 | 37,500 | 0 |
| Public Health, Department for | 34,000 | 0 | 34,000 | 34,000 | 0 | 0 |
| State Nature Preserves Commission | 32,100 | 31,100 | 1,000 | 1,000 | 0 | 0 |
| Vocational Rehabilitation, Office of | 387,341 | 387,341 | 0 | 0 | 0 | 0 |
| Louisiana | 32,175,199 | 9,325,390 | 22,849,809 | 5,959,446 | 16,888,592 | 1,771 |
| Agriculture and Forestry, Department of | 9,167 | 0 | 9,167 | 9,167 | 0 | 0 |
| Coastal Protection and Restoration Authority | 18,116,032 | 875,390 | 17,240,642 | 950,279 | 16,288,592 | 1,771 |
| Transportation and Development, Department of | 11,000,000 | 6,000,000 | 5,000,000 | 4,500,000 | 500,000 | 0 |
| Wildlife and Fisheries, Department of | 3,050,000 | 2,450,000 | 600,000 | 500,000 | 100,000 | 0 |
| Maine | 12,609,815 | 2,911,504 | 9,698,311 | 813,605 | 8,794,706 | 90,000 |
| Agriculture, Conservation and Forestry, Department of | 685,927 | 530,221 | 155,706 | 0 | 155,706 | 0 |
| Environmental Protection, Department of | 220,000 | 145,000 | 75,000 | 55,000 | 20,000 | 0 |
| Governor's Energy Office | 119,000 | 0 | 119,000 | 0 | 119,000 | 0 |
| Health and Human Services, Department of | 60,030 | 60,030 | 0 | 0 | 0 | 0 |
| Inland Fisheries and Wildlife, Department of | 101,759 | 101,759 | 0 | 0 | 0 | 0 |
| Marine Resources, Department of | 1,902,099 | 1,815,494 | 86,605 | 86,605 | 0 | 0 |
| State Fire Marshal's Office | 18,000 | 15,000 | 3,000 | 3,000 | 0 | 0 |

TABLE 25. State agency expenditures for R&D, by state, department or agency, and performer: FY 2015
(Dollars)

| Department or agency | All R&D expenditures | Intramural performers ^a | Extramural performers | | | |
|----------------------------------------------------|----------------------|------------------------------------|-----------------------|------------|----------------------------------------|--------------------|
| | | | Total | Academic | Companies and individuals ^b | Other ^c |
| Technology Institute | 8,500,000 | 0 | 8,500,000 | 0 | 8,500,000 | 0 |
| Transportation, Department of | 1,003,000 | 244,000 | 759,000 | 669,000 | 0 | 90,000 |
| Maryland | 24,852,978 | 846,300 | 24,006,678 | 21,485,428 | 2,521,250 | 0 |
| Health and Mental Hygiene, Department of | 7,000,000 | 0 | 7,000,000 | 7,000,000 | 0 | 0 |
| Natural Resources, Department of | 2,081,134 | 556,300 | 1,524,834 | 1,293,584 | 231,250 | 0 |
| Technology Development Corporation | 14,100,000 | 0 | 14,100,000 | 12,100,000 | 2,000,000 | 0 |
| Transportation, Department of | 1,671,844 | 290,000 | 1,381,844 | 1,091,844 | 290,000 | 0 |
| Massachusetts | 22,664,539 | 11,254,392 | 11,410,147 | 4,242,654 | 4,631,651 | 2,535,842 |
| Clean Energy Center | 4,948,471 | 0 | 4,948,471 | 619,331 | 2,481,140 | 1,848,000 |
| Environmental Protection, Department of | 182,617 | 123,237 | 59,380 | 29,580 | 29,800 | 0 |
| Fish and Game, Department of | 12,083,700 | 11,023,700 | 1,060,000 | 303,000 | 257,000 | 500,000 |
| Mass Life Science Center | 3,213,698 | 0 | 3,213,698 | 1,349,987 | 1,863,711 | 0 |
| Mental Health, Department of | 1,752,150 | 7,455 | 1,744,695 | 1,744,695 | 0 | 0 |
| Public Health, Department of | 283,903 | 0 | 283,903 | 96,061 | 0 | 187,842 |
| Water Resources Authority | 200,000 | 100,000 | 100,000 | 100,000 | 0 | 0 |
| Michigan | 12,675,635 | 702,187 | 11,973,448 | 8,317,762 | 1,723,881 | 1,931,805 |
| Agriculture and Rural Development, Department of | 3,150,111 | 0 | 3,150,111 | 818,577 | 549,729 | 1,781,805 |
| Environmental Quality, Department of | 90,526 | 470 | 90,056 | 15,904 | 74,152 | 0 |
| Natural Resources, Department of | 3,934,998 | 701,717 | 3,233,281 | 3,083,281 | 0 | 150,000 |
| Transportation, Department of | 5,500,000 | 0 | 5,500,000 | 4,400,000 | 1,100,000 | 0 |
| Minnesota | 21,455,746 | 2,828,032 | 18,627,714 | 11,697,612 | 4,098,788 | 2,831,314 |
| Agriculture, Department of | 6,336,162 | 2,407,206 | 3,928,956 | 1,982,831 | 1,545,870 | 400,255 |
| Employment and Economic Development, Department of | 2,500,000 | 0 | 2,500,000 | 2,500,000 | 0 | 0 |
| Forest Resources Council | 90,000 | 65,000 | 25,000 | 25,000 | 0 | 0 |
| Pollution Control Agency | 534,262 | 0 | 534,262 | 116,759 | 396,320 | 21,183 |
| Transportation, Department of | 11,995,322 | 355,826 | 11,639,496 | 7,073,022 | 2,156,598 | 2,409,876 |
| Mississippi | 780,616 | 252,513 | 528,103 | 208,225 | 319,878 | 0 |
| Transportation, Department of | 236,219 | 22,635 | 213,584 | 65,501 | 148,083 | 0 |
| Wildlife, Fisheries, and Parks, Department of | 544,397 | 229,878 | 314,519 | 142,724 | 171,795 | 0 |
| Missouri | 9,806,222 | 1,150,753 | 8,655,469 | 5,732,902 | 738,668 | 2,183,899 |
| Agriculture, Department of | 813,834 | 0 | 813,834 | 813,834 | 0 | 0 |
| Conservation, Department of | 4,319,494 | 981,119 | 3,338,375 | 3,320,875 | 0 | 17,500 |
| Health and Senior Services, Department of | 48,741 | 48,741 | 0 | 0 | 0 | 0 |
| Natural Resources, Department of | 558,123 | 120,893 | 437,230 | 389,744 | 4,761 | 42,725 |
| Transportation, Department of | 4,066,030 | 0 | 4,066,030 | 1,208,449 | 733,907 | 2,123,674 |
| Montana | 10,362,726 | 2,273,458 | 8,089,268 | 6,307,875 | 973,685 | 807,708 |
| Agriculture, Department of | 2,143,438 | 0 | 2,143,438 | 2,143,438 | 0 | 0 |
| Environmental Quality, Department of | 310,952 | 122,710 | 188,242 | 81,674 | 68,623 | 37,945 |
| Fish, Wildlife and Parks | 2,853,805 | 1,974,748 | 879,057 | 879,057 | 0 | 0 |
| Natural Resources and Conservation, Department of | 385,690 | 0 | 385,690 | 275,690 | 0 | 110,000 |
| Research and Commercialization, Board of | 1,052,000 | 0 | 1,052,000 | 477,938 | 574,062 | 0 |
| Transportation, Department of | 1,663,000 | 176,000 | 1,487,000 | 669,000 | 331,000 | 487,000 |
| Wheat and Barley Committee | 1,953,841 | 0 | 1,953,841 | 1,781,078 | 0 | 172,763 |
| Nebraska | 5,475,420 | 534,852 | 4,940,568 | 3,044,994 | 1,895,574 | 0 |
| Agriculture, Department of | 377,452 | 336,212 | 41,240 | 0 | 41,240 | 0 |
| Corn Board | 699,960 | 0 | 699,960 | 699,960 | 0 | 0 |
| Dry Bean Commission | 153,182 | 0 | 153,182 | 153,182 | 0 | 0 |
| Economic Development, Department of | 1,536,378 | 0 | 1,536,378 | 0 | 1,536,378 | 0 |
| Natural Resources, Department of | 529,071 | 189,959 | 339,112 | 21,156 | 317,956 | 0 |
| Roads, Department of | 1,782,264 | 8,681 | 1,773,583 | 1,773,583 | 0 | 0 |
| Wheat Board | 397,113 | 0 | 397,113 | 397,113 | 0 | 0 |

TABLE 25. State agency expenditures for R&D, by state, department or agency, and performer: FY 2015
(Dollars)

| Department or agency | All R&D expenditures | Intramural performers ^a | Extramural performers | | | |
|------------------------------------------------------------------|----------------------|------------------------------------|-----------------------|------------|----------------------------------------|--------------------|
| | | | Total | Academic | Companies and individuals ^b | Other ^c |
| Nevada | 3,107,166 | 3,893 | 3,103,273 | 1,587,007 | 1,516,266 | 0 |
| Commission on Mineral Resources, Division of Minerals | 100,000 | 0 | 100,000 | 100,000 | 0 | 0 |
| Transportation, Department of | 2,914,364 | 0 | 2,914,364 | 1,398,098 | 1,516,266 | 0 |
| Wildlife, Department of | 92,802 | 3,893 | 88,909 | 88,909 | 0 | 0 |
| New Hampshire | 1,607,080 | 82,781 | 1,524,299 | 827,604 | 24,750 | 671,945 |
| Agriculture, Markets and Food, Department of | 135,899 | 0 | 135,899 | 130,904 | 0 | 4,995 |
| Environmental Services, Department of | 218,981 | 68,981 | 150,000 | 150,000 | 0 | 0 |
| Resources and Economic Development, Department of | 300,000 | 0 | 300,000 | 300,000 | 0 | 0 |
| Transportation, Department of | 952,200 | 13,800 | 938,400 | 246,700 | 24,750 | 666,950 |
| New Jersey | 33,756,028 | 1,864,000 | 31,892,028 | 24,429,466 | 587,522 | 6,875,040 |
| Brain Injury Research, Commission on | 6,396,368 | 0 | 6,396,368 | 3,418,674 | 0 | 2,977,694 |
| Cancer Research, Commission on | 1,500,000 | 0 | 1,500,000 | 1,500,000 | 0 | 0 |
| Environmental Protection, Department of | 2,721,846 | 1,864,000 | 857,846 | 737,846 | 120,000 | 0 |
| Health, Department of | 10,980,769 | 0 | 10,980,769 | 9,573,178 | 0 | 1,407,591 |
| Medical Research and Treatment of Autism, Governor's Council for | 4,784,247 | 0 | 4,784,247 | 3,586,057 | 0 | 1,198,190 |
| Spinal Cord Research, Commission on | 3,573,956 | 0 | 3,573,956 | 2,776,680 | 0 | 797,276 |
| Transportation, Department of | 3,798,842 | 0 | 3,798,842 | 2,837,031 | 467,522 | 494,289 |
| New Mexico | 52,302,976 | 2,539,877 | 49,763,099 | 49,531,444 | 231,655 | 0 |
| Cultural Affairs, Department of | 1,237,700 | 1,237,700 | 0 | 0 | 0 | 0 |
| Game and Fish, Department of | 1,000,000 | 500,000 | 500,000 | 500,000 | 0 | 0 |
| Higher Education Department | 48,218,100 | 0 | 48,218,100 | 48,218,100 | 0 | 0 |
| Miners' Colfax Medical Center | 25,000 | 10,180 | 14,820 | 14,820 | 0 | 0 |
| State Engineer, Water Resource Allocation Program, Office of | 88,062 | 12,686 | 75,376 | 0 | 75,376 | 0 |
| Transportation, Department of | 1,734,114 | 779,311 | 954,803 | 798,524 | 156,279 | 0 |
| New York | 365,551,926 | 241,920,626 | 123,631,300 | 79,267,606 | 26,989,804 | 17,373,890 |
| Agriculture and Markets, Department of | 3,765,993 | 2,000,000 | 1,765,993 | 1,765,993 | 0 | 0 |
| Economic Development, Department of | 49,698,758 | 802,758 | 48,896,000 | 37,998,000 | 0 | 10,898,000 |
| Energy Research and Development Authority | 48,568,115 | 10,726,706 | 37,841,409 | 6,966,262 | 24,880,257 | 5,994,890 |
| Environmental Conservation, Department of | 5,832,656 | 2,837,743 | 2,994,913 | 2,994,913 | 0 | 0 |
| Health, Department of | 43,250,554 | 32,085,201 | 11,165,353 | 10,624,487 | 92,669 | 448,197 |
| Mental Health, Office of | 132,887,190 | 117,117,415 | 15,769,775 | 15,769,775 | 0 | 0 |
| People with Developmental Disabilities, Office of | 4,228,430 | 4,228,430 | 0 | 0 | 0 | 0 |
| Power Authority | 839,178 | 24,029 | 815,149 | 0 | 815,149 | 0 |
| Roswell Park Cancer Institute | 61,800,000 | 61,800,000 | 0 | 0 | 0 | 0 |
| State Museum | 10,121,651 | 8,305,495 | 1,816,156 | 1,764,693 | 18,660 | 32,803 |
| Thoroughbred Breeding and Development Fund Corp. | 439,108 | 0 | 439,108 | 439,108 | 0 | 0 |
| Transportation, Department of | 4,120,293 | 1,992,849 | 2,127,444 | 944,375 | 1,183,069 | 0 |
| North Carolina | 34,002,384 | 14,429,283 | 19,573,101 | 15,435,572 | 2,507,529 | 1,630,000 |
| Agriculture and Consumer Services, Department of | 13,000,000 | 12,000,000 | 1,000,000 | 900,000 | 100,000 | 0 |
| Environmental Quality, Department of | 2,079,756 | 1,676,602 | 403,154 | 403,154 | 0 | 0 |
| Science, Technology and Innovation, Office of | 12,037,647 | 0 | 12,037,647 | 9,630,118 | 2,407,529 | 0 |
| Transportation, Department of | 6,834,981 | 752,681 | 6,082,300 | 4,452,300 | 0 | 1,630,000 |
| Wine and Grape Growers Council | 50,000 | 0 | 50,000 | 50,000 | 0 | 0 |
| North Dakota | 9,611,936 | 1,189,828 | 8,422,108 | 6,268,868 | 1,209,207 | 944,033 |
| Agriculture, Department of | 244,764 | 0 | 244,764 | 151,264 | 35,000 | 58,500 |
| Game and Fish, Department of | 825,000 | 825,000 | 0 | 0 | 0 | 0 |
| Lignite Research Council | 943,377 | 252,500 | 690,877 | 357,940 | 262,937 | 70,000 |
| Oil and Gas Research Program | 4,017,199 | 52,557 | 3,964,642 | 3,258,625 | 326,125 | 379,892 |
| Renewable Energy Research Program | 745,155 | 36,976 | 708,179 | 113,034 | 585,145 | 10,000 |
| Soybean Council | 1,233,438 | 0 | 1,233,438 | 1,233,438 | 0 | 0 |
| Transportation, Department of | 407,000 | 22,795 | 384,205 | 8,564 | 0 | 375,641 |
| Wheat Commission | 1,196,003 | 0 | 1,196,003 | 1,146,003 | 0 | 50,000 |

TABLE 25. State agency expenditures for R&D, by state, department or agency, and performer: FY 2015
(Dollars)

| Department or agency | All R&D expenditures | Intramural performers ^a | Extramural performers | | | |
|-------------------------------------------------------|----------------------|------------------------------------|-----------------------|------------|----------------------------------------|--------------------|
| | | | Total | Academic | Companies and individuals ^b | Other ^c |
| Ohio | 94,299,294 | 864,161 | 93,435,133 | 7,714,186 | 85,415,055 | 305,892 |
| Development Services Agency | 83,483,581 | 0 | 83,483,581 | 0 | 83,483,581 | 0 |
| Mental Health and Addiction Services, Department of | 820,000 | 190,000 | 630,000 | 630,000 | 0 | 0 |
| Natural Resources, Department of | 1,201,332 | 564,161 | 637,171 | 637,171 | 0 | 0 |
| Transportation, Department of | 7,022,666 | 110,000 | 6,912,666 | 4,915,362 | 1,931,474 | 65,830 |
| Water Development Authority | 1,771,715 | 0 | 1,771,715 | 1,531,653 | 0 | 240,062 |
| Oklahoma | 29,952,934 | 350,570 | 29,602,364 | 22,135,660 | 4,303,009 | 3,163,695 |
| Advancement of Science and Technology, Center for the | 10,665,489 | 0 | 10,665,489 | 5,883,450 | 4,223,009 | 559,030 |
| Agriculture, Food, and Forestry, Department of | 685,666 | 0 | 685,666 | 605,666 | 80,000 | 0 |
| Grand River Dam Authority | 260,000 | 0 | 260,000 | 260,000 | 0 | 0 |
| Health, State Department of | 170,570 | 5,570 | 165,000 | 165,000 | 0 | 0 |
| Human Services, Department of | 385,000 | 345,000 | 40,000 | 40,000 | 0 | 0 |
| Sorghum Commission | 45,000 | 0 | 45,000 | 45,000 | 0 | 0 |
| Tobacco Settlement Endowment Trust | 10,072,460 | 0 | 10,072,460 | 7,467,795 | 0 | 2,604,665 |
| Transportation, Department of | 3,342,249 | 0 | 3,342,249 | 3,342,249 | 0 | 0 |
| Wheat Commission | 326,500 | 0 | 326,500 | 326,500 | 0 | 0 |
| Wildlife Conservation, Department of | 4,000,000 | 0 | 4,000,000 | 4,000,000 | 0 | 0 |
| Oregon | 31,990,073 | 18,022,139 | 13,967,934 | 6,129,513 | 363,341 | 7,475,080 |
| Agriculture, Department of | 190,591 | 0 | 190,591 | 0 | 0 | 190,591 |
| Business Development Department | 10,650,000 | 0 | 10,650,000 | 3,700,000 | 0 | 6,950,000 |
| Energy, Department of | 557,172 | 226,036 | 331,136 | 0 | 287,358 | 43,778 |
| Environmental Quality, Department of | 10,000 | 0 | 10,000 | 10,000 | 0 | 0 |
| Fish and Wildlife, Department of | 17,093,348 | 16,942,348 | 151,000 | 151,000 | 0 | 0 |
| Forestry, Department of | 871,221 | 677,205 | 194,016 | 131,195 | 57,188 | 5,633 |
| Transportation, Department of | 2,188,000 | 54,000 | 2,134,000 | 2,130,205 | 3,795 | 0 |
| Water Resources Department | 125,000 | 100,000 | 25,000 | 0 | 15,000 | 10,000 |
| Watershed Enhancement Board | 304,741 | 22,550 | 282,191 | 7,113 | 0 | 275,078 |
| Pennsylvania | 75,024,127 | 7,387,261 | 67,636,866 | 33,621,211 | 5,056,554 | 28,959,101 |
| Agriculture, Department of | 787,000 | 0 | 787,000 | 632,600 | 0 | 154,400 |
| Community and Economic Development, Department of | 18,050,000 | 0 | 18,050,000 | 850,000 | 200,000 | 17,000,000 |
| Conservation and Natural Resources, Department of | 163,856 | 63,348 | 100,508 | 0 | 100,508 | 0 |
| Education, Department of | 35,000 | 35,000 | 0 | 0 | 0 | 0 |
| Energy Development Authority | 24,974 | 0 | 24,974 | 0 | 24,974 | 0 |
| Environmental Protection, Department of | 2,390,366 | 639,112 | 1,751,254 | 806,288 | 307,712 | 637,254 |
| Fish and Boat Commission | 150,670 | 76,261 | 74,409 | 23,126 | 0 | 51,283 |
| Game Commission | 6,731,990 | 5,806,790 | 925,200 | 779,664 | 33,736 | 111,800 |
| Health, Department of | 43,529,698 | 0 | 43,529,698 | 29,829,059 | 2,700,000 | 11,000,639 |
| Susquehanna River Basin Commission | 922,294 | 766,750 | 155,544 | 2,980 | 148,839 | 3,725 |
| Transportation, Department of | 2,238,279 | 0 | 2,238,279 | 697,494 | 1,540,785 | 0 |
| Rhode Island | 2,594,978 | 281,200 | 2,313,778 | 1,223,081 | 1,035,697 | 55,000 |
| Atomic Energy Commission | 1,200 | 1,200 | 0 | 0 | 0 | 0 |
| Commerce Corporation | 1,101,985 | 0 | 1,101,985 | 826,489 | 275,496 | 0 |
| Transportation, Department of | 1,436,793 | 280,000 | 1,156,793 | 396,592 | 760,201 | 0 |
| Water Resources Board | 55,000 | 0 | 55,000 | 0 | 0 | 55,000 |
| South Carolina | 27,419,285 | 22,351,601 | 5,067,684 | 3,245,102 | 337,270 | 1,485,312 |
| Agriculture, Department of | 498,748 | 0 | 498,748 | 498,748 | 0 | 0 |
| Commerce, Department of | 78,500 | 0 | 78,500 | 78,500 | 0 | 0 |
| Mental Health, Department of | 100,884 | 0 | 100,884 | 100,884 | 0 | 0 |
| Natural Resources, Department of | 22,199,381 | 20,998,966 | 1,200,415 | 82,032 | 26,738 | 1,091,645 |
| Research Authority | 1,619,056 | 1,207,150 | 411,906 | 54,342 | 310,532 | 47,032 |
| Sea Grant Consortium | 1,067,761 | 0 | 1,067,761 | 981,951 | 0 | 85,810 |
| Transportation, Department of | 1,854,955 | 145,485 | 1,709,470 | 1,448,645 | 0 | 260,825 |

TABLE 25. State agency expenditures for R&D, by state, department or agency, and performer: FY 2015
(Dollars)

| Department or agency | All R&D expenditures | Intramural performers ^a | Extramural performers | | | |
|------------------------------------------------------------------|----------------------|------------------------------------|-----------------------|-------------|----------------------------------------|--------------------|
| | | | Total | Academic | Companies and individuals ^b | Other ^c |
| South Dakota | 4,211,838 | 240,000 | 3,971,838 | 2,632,748 | 868,290 | 470,800 |
| Corn Utilization Council | 1,154,000 | 0 | 1,154,000 | 923,200 | 0 | 230,800 |
| Oilseeds Council | 45,000 | 0 | 45,000 | 45,000 | 0 | 0 |
| Pork Producers Council | 15,000 | 0 | 15,000 | 15,000 | 0 | 0 |
| Science and Technology Authority | 26,862 | 0 | 26,862 | 26,862 | 0 | 0 |
| Soybean Research and Promotion Council | 1,176,375 | 0 | 1,176,375 | 956,375 | 0 | 220,000 |
| Transportation, Department of | 1,256,834 | 240,000 | 1,016,834 | 128,544 | 868,290 | 20,000 |
| Weed and Pest Control Commission | 37,767 | 0 | 37,767 | 37,767 | 0 | 0 |
| Wheat Commission | 500,000 | 0 | 500,000 | 500,000 | 0 | 0 |
| Tennessee | 3,828,567 | 531,871 | 3,296,696 | 3,296,696 | 0 | 0 |
| Environment and Conservation, Department of | 259,299 | 219,299 | 40,000 | 40,000 | 0 | 0 |
| Geological Survey | 312,572 | 312,572 | 0 | 0 | 0 | 0 |
| Transportation, Department of | 3,256,696 | 0 | 3,256,696 | 3,256,696 | 0 | 0 |
| Texas | 185,094,332 | 2,745,383 | 182,348,949 | 140,159,224 | 35,264,378 | 6,925,347 |
| Agriculture, Department of | 761,154 | 0 | 761,154 | 0 | 95,554 | 665,600 |
| Cancer Prevention and Research Institute | 145,241,410 | 0 | 145,241,410 | 109,156,186 | 29,911,311 | 6,173,913 |
| Council on Alzheimer's Disease | 4,750,000 | 0 | 4,750,000 | 4,750,000 | 0 | 0 |
| Environmental Quality, Commission on | 1,000,000 | 0 | 1,000,000 | 1,000,000 | 0 | 0 |
| Parks and Wildlife Department | 10,901,637 | 2,745,383 | 8,156,254 | 5,170,391 | 2,985,863 | 0 |
| Transportation, Department of | 19,803,109 | 0 | 19,803,109 | 19,803,109 | 0 | 0 |
| Water Development Board | 2,637,022 | 0 | 2,637,022 | 279,538 | 2,271,650 | 85,834 |
| Utah | 38,168,197 | 18,192,260 | 19,975,937 | 18,099,360 | 1,764,575 | 112,002 |
| Agriculture and Food, Department of | 431,198 | 41,155 | 390,043 | 291,252 | 0 | 98,791 |
| Economic Development | 2,107,486 | 0 | 2,107,486 | 633,000 | 1,461,275 | 13,211 |
| Natural Resources, Department of | 17,100,000 | 17,100,000 | 0 | 0 | 0 | 0 |
| Science Technology and Research Initiative, Governor's Office of | | | | | | |
| Economic Development | 17,058,613 | 423,705 | 16,634,908 | 16,634,908 | 0 | 0 |
| Transportation, Department of | 1,470,900 | 627,400 | 843,500 | 540,200 | 303,300 | 0 |
| Vermont | 2,199,082 | 555,772 | 1,643,310 | 763,353 | 879,957 | 0 |
| Agriculture, Food, and Markets, Agency of | 582,420 | 209,616 | 372,804 | 223,680 | 149,124 | 0 |
| Economic Development Authority | 515,612 | 0 | 515,612 | 0 | 515,612 | 0 |
| Human Services, Agency of | 152,706 | 152,706 | 0 | 0 | 0 | 0 |
| Natural Resources, Agency of | 32,441 | 0 | 32,441 | 32,441 | 0 | 0 |
| Public Service Department | 122,898 | 15,000 | 107,898 | 0 | 107,898 | 0 |
| Transportation, Agency of | 793,005 | 178,450 | 614,555 | 507,232 | 107,323 | 0 |
| Virginia | 43,615,877 | 14,190,632 | 29,425,245 | 21,506,372 | 2,301,680 | 5,617,193 |
| Aging and Rehabilitation, Department of | 29,628 | 29,628 | 0 | 0 | 0 | 0 |
| Agriculture and Consumer Services, Department of | 1,075,676 | 0 | 1,075,676 | 922,054 | 0 | 153,622 |
| Commonwealth Health Research Board | 892,552 | 0 | 892,552 | 892,552 | 0 | 0 |
| Environmental Quality, Department of | 2,308,956 | 0 | 2,308,956 | 910,071 | 0 | 1,398,885 |
| Forensic Science, Department of | 271,000 | 271,000 | 0 | 0 | 0 | 0 |
| Forestry, Department of | 400,904 | 0 | 400,904 | 36,827 | 364,077 | 0 |
| Foundation for Healthy Youth | 640,933 | 0 | 640,933 | 640,933 | 0 | 0 |
| Game and Inland Fisheries, Department of | 1,689,294 | 0 | 1,689,294 | 1,455,699 | 16,210 | 217,385 |
| General Services, Department of | 55,000 | 55,000 | 0 | 0 | 0 | 0 |
| Innovative Technology, Center for | 3,914,000 | 1,114,000 | 2,800,000 | 1,450,000 | 1,050,000 | 300,000 |
| Marine Resources Commission | 2,226,921 | 0 | 2,226,921 | 2,226,921 | 0 | 0 |
| Mines, Minerals and Energy, Department of | 2,192,061 | 1,320,668 | 871,393 | 0 | 871,393 | 0 |
| Natural History, Museum of | 650,570 | 650,570 | 0 | 0 | 0 | 0 |
| Social Services, Department of | 35,000 | 35,000 | 0 | 0 | 0 | 0 |
| Tobacco Region Revitalization Commission | 9,678,856 | 0 | 9,678,856 | 6,131,555 | 0 | 3,547,301 |
| Transportation, Department of | 17,554,526 | 10,714,766 | 6,839,760 | 6,839,760 | 0 | 0 |

TABLE 25. State agency expenditures for R&D, by state, department or agency, and performer: FY 2015
(Dollars)

| Department or agency | All R&D expenditures | Intramural performers ^a | Extramural performers | | | |
|-----------------------------------------------------------|----------------------|------------------------------------|-----------------------|------------|----------------------------------------|--------------------|
| | | | Total | Academic | Companies and individuals ^b | Other ^c |
| Washington | 36,918,558 | 10,470,091 | 26,448,467 | 23,594,015 | 642,182 | 2,212,270 |
| Agriculture, Department of | 2,500,896 | 0 | 2,500,896 | 1,725,782 | 295,761 | 479,353 |
| Alfalfa Seed Commission | 34,000 | 0 | 34,000 | 34,000 | 0 | 0 |
| Archaeology and Historic Preservation, Department of | 378,127 | 378,127 | 0 | 0 | 0 | 0 |
| Asparagus Commission | 62,000 | 0 | 62,000 | 62,000 | 0 | 0 |
| Beef Commission | 15,000 | 0 | 15,000 | 15,000 | 0 | 0 |
| Blueberry Commission | 150,000 | 0 | 150,000 | 150,000 | 0 | 0 |
| Cranberry Commission | 15,152 | 0 | 15,152 | 15,152 | 0 | 0 |
| Dairy Products Commission | 107,675 | 0 | 107,675 | 74,910 | 1,283 | 31,482 |
| Dry Pea and Lentil Commission | 262,570 | 0 | 262,570 | 262,570 | 0 | 0 |
| Ecology, Department of | 1,054,265 | 899,377 | 154,888 | 154,888 | 0 | 0 |
| Fish and Wildlife, Department of | 4,936,117 | 4,936,117 | 0 | 0 | 0 | 0 |
| Fruit Commission | 15,000 | 0 | 15,000 | 15,000 | 0 | 0 |
| Grain Commission | 2,391,171 | 0 | 2,391,171 | 2,391,171 | 0 | 0 |
| Hop Commission | 167,528 | 0 | 167,528 | 167,528 | 0 | 0 |
| Labor and Industries, Department of | 2,907,584 | 2,907,584 | 0 | 0 | 0 | 0 |
| Life Sciences Discovery Fund | 8,364,171 | 0 | 8,364,171 | 8,364,171 | 0 | 0 |
| Mint Commission | 24,147 | 0 | 24,147 | 24,147 | 0 | 0 |
| Natural Resources, Department of | 3,149,971 | 1,336,586 | 1,813,385 | 286,150 | 0 | 1,527,235 |
| Oilseeds Commission | 9,000 | 0 | 9,000 | 9,000 | 0 | 0 |
| Pesticide Registration, Commission of | 385,113 | 0 | 385,113 | 385,113 | 0 | 0 |
| Potato Commission | 854,111 | 0 | 854,111 | 854,111 | 0 | 0 |
| Puget Sound Partnership | 558,072 | 12,300 | 545,772 | 266,077 | 131,495 | 148,200 |
| Red Raspberry Commission | 268,388 | 0 | 268,388 | 228,745 | 13,643 | 26,000 |
| Seed Potato Commission | 20,000 | 0 | 20,000 | 20,000 | 0 | 0 |
| Transportation, Department of | 5,450,000 | 0 | 5,450,000 | 5,250,000 | 200,000 | 0 |
| Tree Fruit Research Commission | 2,640,000 | 0 | 2,640,000 | 2,640,000 | 0 | 0 |
| Turfgrass Commission | 23,500 | 0 | 23,500 | 23,500 | 0 | 0 |
| Wine Commission | 175,000 | 0 | 175,000 | 175,000 | 0 | 0 |
| West Virginia | 11,481,903 | 4,728,205 | 6,753,698 | 5,793,626 | 297,103 | 662,969 |
| Geological and Economic Survey | 3,084,623 | 1,879,326 | 1,205,297 | 245,225 | 297,103 | 662,969 |
| Higher Education Policy Commission | 6,189,639 | 641,238 | 5,548,401 | 5,548,401 | 0 | 0 |
| Justice and Community Services, Division of | 13,719 | 13,719 | 0 | 0 | 0 | 0 |
| Transportation, Department of | 2,193,922 | 2,193,922 | 0 | 0 | 0 | 0 |
| Wisconsin | 14,517,671 | 6,547,800 | 7,969,871 | 3,139,217 | 3,147,519 | 1,683,135 |
| Agriculture, Trade and Consumer Protection, Department of | 841,890 | 0 | 841,890 | 804,130 | 0 | 37,760 |
| Economic Development Corporation | 3,000,000 | 0 | 3,000,000 | 0 | 3,000,000 | 0 |
| Natural Resources, Department of | 7,569,100 | 6,091,100 | 1,478,000 | 1,478,000 | 0 | 0 |
| Transportation, Department of | 3,106,681 | 456,700 | 2,649,981 | 857,087 | 147,519 | 1,645,375 |
| Wyoming | 5,160,617 | 1,883,135 | 3,277,482 | 1,199,933 | 1,842,316 | 235,233 |
| Agriculture, Department of | 100,000 | 0 | 100,000 | 0 | 0 | 100,000 |
| Enhanced Oil Recovery Commission | 250,000 | 0 | 250,000 | 250,000 | 0 | 0 |
| Game and Fish Department | 1,826,682 | 1,630,215 | 196,467 | 196,467 | 0 | 0 |
| State Engineer, Office of | 80,000 | 0 | 80,000 | 0 | 80,000 | 0 |
| State Geological Survey | 248,879 | 248,879 | 0 | 0 | 0 | 0 |
| Transportation, Department of | 986,181 | 4,041 | 982,140 | 14,224 | 967,916 | 0 |
| Water Development Commission | 468,875 | 0 | 468,875 | 19,242 | 314,400 | 135,233 |
| Wildlife and Natural Resources Trust | 1,200,000 | 0 | 1,200,000 | 720,000 | 480,000 | 0 |
| Puerto Rico ^e | 5,673,544 | 4,454,166 | 1,219,378 | 750,000 | 469,378 | 0 |
| Agriculture, Department of ^f | 649,048 | 649,048 | 0 | 0 | 0 | 0 |
| Health, Department of | 165,922 | 165,922 | 0 | 0 | 0 | 0 |
| Highways and Transportation Authority | 560,000 | 560,000 | 0 | 0 | 0 | 0 |
| Hospital San Juan ^g | 2,000,000 | 2,000,000 | 0 | 0 | 0 | 0 |
| Institute of Statistics | 568,480 | 568,480 | 0 | 0 | 0 | 0 |
| Manufacturing Extension, Incorporated ^d | 319,378 | 0 | 319,378 | 0 | 319,378 | 0 |

TABLE 25. State agency expenditures for R&D, by state, department or agency, and performer: FY 2015
(Dollars)

| Department or agency | All R&D expenditures | Intramural performers ^a | Extramural performers | | | |
|-----------------------------------------------------------------------|----------------------|------------------------------------|-----------------------|----------|----------------------------------------|--------------------|
| | | | Total | Academic | Companies and individuals ^b | Other ^c |
| Mental Health and Anti-Addiction Services Administration ^f | 410,716 | 410,716 | 0 | 0 | 0 | 0 |
| Natural Resources, Department of | 100,000 | 100,000 | 0 | 0 | 0 | 0 |
| Science, Technology and Research Trust ^f | 900,000 | 0 | 900,000 | 750,000 | 150,000 | 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.

^b Companies and individuals include individuals under contract for research projects.

^c Other includes federal government; nonprofit organizations; city, county, regional, or other local governments; and other state governments.

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

^e Puerto Rico is not included in U.S. total due to its classification as a U.S. territory.

^f Data are provided as imputed by the Puerto Rico Institute of Statistics.

^g 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 2014 and 2015.

TABLE 26. State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2014

(Dollars)

| Department or agency | Total | Agriculture | Energy | Environment and natural resources | Health | Transportation | Other ^a |
|----------------------------------------------------------------------------------|---------------|-------------|-------------|-----------------------------------|-------------|----------------|--------------------|
| United States ^b | 1,885,923,321 | 129,028,757 | 120,229,416 | 366,678,067 | 852,894,337 | 253,299,125 | 163,793,619 |
| Alabama | 18,532,534 | 0 | 386,692 | 4,106,869 | 1,000,000 | 7,237,806 | 5,801,167 |
| Choctawhatchee, Pea and Yellow River Watershed Management Authority | 6,340 | 0 | 0 | 6,340 | 0 | 0 | 0 |
| Education, Department of | 30,000 | 0 | 0 | 0 | 0 | 0 | 30,000 |
| Forensic Sciences, Department of | 72,431 | 0 | 0 | 0 | 0 | 0 | 72,431 |
| Geological Survey | 2,128,694 | 0 | 386,692 | 1,742,002 | 0 | 0 | 0 |
| Innovation Fund | 2,800,000 | 0 | 0 | 0 | 1,000,000 | 0 | 1,800,000 |
| Marine Environmental Science Consortium, Dauphin Island Sea Lab | 2,358,527 | 0 | 0 | 2,358,527 | 0 | 0 | 0 |
| Supercomputer Authority | 3,898,736 | 0 | 0 | 0 | 0 | 0 | 3,898,736 |
| Transportation, Department of | 7,237,806 | 0 | 0 | 0 | 0 | 7,237,806 | 0 |
| Alaska | 12,031,675 | 217,231 | 35,860 | 9,001,900 | 0 | 2,776,684 | 0 |
| Natural Resources, Division of Geological and Geophysical Surveys, Department of | 9,254,991 | 217,231 | 35,860 | 9,001,900 | 0 | 0 | 0 |
| Transportation and Public Facilities, Department of | 2,776,684 | 0 | 0 | 0 | 0 | 2,776,684 | 0 |
| Arizona | 18,820,149 | 944,617 | 1,547,000 | 6,184,876 | 8,881,971 | 1,261,685 | 0 |
| Agriculture, Department of | 1,063,107 | 944,617 | 0 | 118,490 | 0 | 0 | 0 |
| Game and Fish Department | 3,912,386 | 0 | 0 | 3,912,386 | 0 | 0 | 0 |
| Geological Survey | 3,701,000 | 0 | 1,547,000 | 2,154,000 | 0 | 0 | 0 |
| Health Services, Department of | 8,881,971 | 0 | 0 | 0 | 8,881,971 | 0 | 0 |
| Transportation, Department of | 1,261,685 | 0 | 0 | 0 | 0 | 1,261,685 | 0 |
| Arkansas | 14,994,903 | 8,483,250 | 4,800,000 | 0 | 75,000 | 1,269,000 | 367,653 |
| Beef Council | 10,000 | 10,000 | 0 | 0 | 0 | 0 | 0 |
| Catfish Promotion Board | 7,500 | 7,500 | 0 | 0 | 0 | 0 | 0 |
| Corn and Grain Sorghum Board | 777,000 | 777,000 | 0 | 0 | 0 | 0 | 0 |
| Economic Development Commission | 5,282,653 | 40,000 | 4,800,000 | 0 | 75,000 | 0 | 367,653 |
| Rice Research and Promotion Board | 2,545,040 | 2,545,040 | 0 | 0 | 0 | 0 | 0 |
| Soybean Promotion Board | 4,822,275 | 4,822,275 | 0 | 0 | 0 | 0 | 0 |
| State Highway and Transportation Department | 1,269,000 | 0 | 0 | 0 | 0 | 1,269,000 | 0 |
| Wheat Promotion Board | 281,435 | 281,435 | 0 | 0 | 0 | 0 | 0 |
| California | 321,958,885 | 6,827,645 | 18,393,000 | 28,842,415 | 217,257,046 | 35,560,150 | 15,078,629 |
| Air Resources Board | 17,307,789 | 0 | 0 | 14,711,621 | 2,596,168 | 0 | 0 |
| Children and Families Commission | 750,000 | 0 | 0 | 0 | 375,000 | 0 | 375,000 |
| Corrections and Rehabilitation, Department of | 6,500,000 | 0 | 0 | 0 | 0 | 0 | 6,500,000 |
| Delta Stewardship Council | 2,250,000 | 0 | 0 | 2,250,000 | 0 | 0 | 0 |
| Energy Commission | 18,393,000 | 0 | 18,393,000 | 0 | 0 | 0 | 0 |
| Environmental Health Hazard Assessment, Office of | 11,756,017 | 0 | 0 | 0 | 11,756,017 | 0 | 0 |
| Fish and Wildlife, Department of | 360,000 | 0 | 0 | 360,000 | 0 | 0 | 0 |
| Food and Agriculture, Department of | 3,879,645 | 3,879,645 | 0 | 0 | 0 | 0 | 0 |
| Forestry and Fire Protection, Department of | 803,866 | 0 | 0 | 803,866 | 0 | 0 | 0 |
| Horse Racing Board | 643,000 | 0 | 0 | 0 | 643,000 | 0 | 0 |
| Industrial Relations, Department of | 788,560 | 0 | 0 | 0 | 0 | 0 | 788,560 |

TABLE 26. State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2014
(Dollars)

| Department or agency | Total | Agriculture | Energy | Environment and natural resources | Health | Transportation | Other ^a |
|---------------------------------------------------------------------------|-------------|-------------|-----------|-----------------------------------|-------------|----------------|--------------------|
| Institute for Regenerative Medicine | 194,022,123 | 0 | 0 | 0 | 194,022,123 | 0 | 0 |
| Motor Vehicles, Department of | 2,042,738 | 0 | 0 | 0 | 2,042,738 | 0 | 0 |
| Pesticide Regulation, Department of | 9,072,000 | 2,348,000 | 0 | 2,205,000 | 4,519,000 | 0 | 0 |
| Public Health, Environmental Health Laboratory Branch, Department of | 300,000 | 0 | 0 | 0 | 300,000 | 0 | 0 |
| Public Health, Food and Drug Branch, Science and Education, Department of | 1,000,000 | 600,000 | 0 | 0 | 400,000 | 0 | 0 |
| Public Health, Genetic Disease, Department of | 603,000 | 0 | 0 | 0 | 603,000 | 0 | 0 |
| Public Utilities Commission, Communications Division | 364,610 | 0 | 0 | 0 | 0 | 0 | 364,610 |
| Resources Recycling and Recovery, Department of | 1,411,393 | 0 | 0 | 807,393 | 0 | 604,000 | 0 |
| Seismic Safety Commission | 99,980 | 0 | 0 | 99,980 | 0 | 0 | 0 |
| Social Services, Department of | 120,459 | 0 | 0 | 0 | 0 | 0 | 120,459 |
| State Coastal Conservancy | 183,200 | 0 | 0 | 183,200 | 0 | 0 | 0 |
| State Water Resources Control Board | 995,000 | 0 | 0 | 995,000 | 0 | 0 | 0 |
| Transportation, Department of | 34,956,150 | 0 | 0 | 0 | 0 | 34,956,150 | 0 |
| Water Resources, Department of | 13,356,355 | 0 | 0 | 6,426,355 | 0 | 0 | 6,930,000 |
| Colorado | 15,745,589 | 316,549 | 1,934,715 | 8,449,733 | 1,640,750 | 2,099,101 | 1,304,741 |
| Economic Development and International Trade, Office of | 3,523,750 | 45,000 | 1,525,000 | 60,000 | 1,640,750 | 253,000 | 0 |
| Higher Education Competitive, Research Authority | 1,025,000 | 0 | 150,000 | 475,000 | 0 | 0 | 400,000 |
| Natural Resources, Department of | 6,611,921 | 0 | 184,745 | 6,427,176 | 0 | 0 | 0 |
| Public Health and Environment, Department of | 1,184,052 | 0 | 0 | 1,184,052 | 0 | 0 | 0 |
| Public Safety, Department of | 904,741 | 0 | 0 | 0 | 0 | 0 | 904,741 |
| Transportation, Department of | 2,224,576 | 0 | 74,970 | 303,505 | 0 | 1,846,101 | 0 |
| Wine Industry Development Board | 271,549 | 271,549 | | | | | |
| Connecticut | 47,405,244 | 3,920,767 | 1,714,724 | 10,592,603 | 20,966,024 | 3,936,126 | 6,275,000 |
| Agricultural Experiment Station | 10,053,249 | 3,920,767 | 0 | 3,317,572 | 2,814,910 | 0 | 0 |
| Energy and Environmental Protection, Department of | 7,275,031 | 0 | 0 | 7,275,031 | 0 | 0 | 0 |
| Green Bank | 468,000 | 0 | 468,000 | 0 | 0 | 0 | 0 |
| Innovation Inc. | 12,185,315 | 0 | 1,246,724 | 0 | 4,663,591 | 0 | 6,275,000 |
| Mental Health and Addiction Services, Department of | 4,343,791 | 0 | 0 | 0 | 4,343,791 | 0 | 0 |
| Public Health, Department of | 8,184,667 | 0 | 0 | 0 | 8,184,667 | 0 | 0 |
| Social Services, Department of | 959,065 | 0 | 0 | 0 | 959,065 | 0 | 0 |
| Transportation, Department of | 3,936,126 | 0 | 0 | 0 | 0 | 3,936,126 | 0 |
| Delaware | 2,243,868 | 0 | 0 | 1,988,655 | 0 | 255,213 | 0 |
| Geological Survey | 1,884,248 | 0 | 0 | 1,884,248 | 0 | 0 | 0 |
| Natural Resources and Environmental Control, Department of | 104,407 | 0 | 0 | 104,407 | 0 | 0 | 0 |
| Transportation, Department of | 255,213 | 0 | 0 | 0 | 0 | 255,213 | 0 |
| District of Columbia | 3,136,271 | 0 | 0 | 1,740,000 | 563,442 | 754,327 | 78,502 |
| Health, Department of | 641,944 | 0 | 0 | 0 | 563,442 | 0 | 78,502 |
| Transportation, Department of | 794,327 | 0 | 0 | 40,000 | 0 | 754,327 | 0 |
| Water and Sewer Authority | 1,700,000 | 0 | 0 | 1,700,000 | 0 | 0 | 0 |

TABLE 26. State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2014

(Dollars)

| Department or agency | Total | Agriculture | Energy | Environment and natural resources | Health | Transportation | Other ^a |
|------------------------------------------------------------|-------------|-------------|-----------|-----------------------------------|------------|----------------|--------------------|
| Florida | 157,004,903 | 23,026,254 | 355,629 | 51,191,986 | 67,376,045 | 15,054,989 | 0 |
| Agriculture and Consumer Services, Department of | 28,745,442 | 20,580,109 | 343,038 | 6,034,740 | 1,787,555 | 0 | 0 |
| Citrus, Department of | 2,784,635 | 2,446,145 | 0 | 0 | 338,490 | 0 | 0 |
| Environmental Protection, Department of | 12,591 | 0 | 12,591 | 0 | 0 | 0 | 0 |
| Fish and Wildlife Conservation Commission | 45,157,246 | 0 | 0 | 45,157,246 | 0 | 0 | 0 |
| Health, Department of | 65,250,000 | 0 | 0 | 0 | 65,250,000 | 0 | 0 |
| Space Florida | 1,250,000 | 0 | 0 | 0 | 0 | 1,250,000 | 0 |
| Transportation, Department of | 13,804,989 | 0 | 0 | 0 | 0 | 13,804,989 | 0 |
| Georgia | 11,776,221 | 0 | 3,096,465 | 2,584,180 | 0 | 6,095,576 | 0 |
| Environmental Finance Authority | 435,875 | 0 | 0 | 435,875 | 0 | 0 | 0 |
| Natural Resources Wildlife Division, Department of | 2,148,305 | 0 | 0 | 2,148,305 | 0 | 0 | 0 |
| Southern States Energy Board | 3,096,465 | 0 | 3,096,465 | 0 | 0 | 0 | 0 |
| Transportation, Department of | 6,095,576 | 0 | 0 | 0 | 0 | 6,095,576 | 0 |
| Hawaii | 13,125,455 | 80,000 | 4,300,000 | 6,929,035 | 0 | 1,148,448 | 667,972 |
| Agriculture, Department of | 80,000 | 80,000 | 0 | 0 | 0 | 0 | 0 |
| Business, Economic Development, and Tourism, Department of | 4,967,972 | 0 | 4,300,000 | 0 | 0 | 0 | 667,972 |
| Land and Natural Resources, Department of | 6,929,035 | 0 | 0 | 6,929,035 | 0 | 0 | 0 |
| Transportation, Department of | 1,148,448 | 0 | 0 | 0 | 0 | 1,148,448 | 0 |
| Idaho | 12,862,935 | 2,442,070 | 401,783 | 7,827,527 | 30,226 | 2,161,329 | 0 |
| Barley Commission | 335,273 | 335,273 | 0 | 0 | 0 | 0 | 0 |
| Bean Commission | 23,424 | 23,424 | 0 | 0 | 0 | 0 | 0 |
| Commerce, Department of | 632,699 | 148,683 | 401,783 | 52,007 | 30,226 | 0 | 0 |
| Environmental Quality, Department of | 416,787 | 0 | 0 | 416,787 | 0 | 0 | 0 |
| Fish and Game, Department of | 7,358,733 | 0 | 0 | 7,358,733 | 0 | 0 | 0 |
| Oilseed Commission | 28,000 | 28,000 | 0 | 0 | 0 | 0 | 0 |
| Pea and Lentil Commission | 146,369 | 146,369 | 0 | 0 | 0 | 0 | 0 |
| Potato Commission | 967,490 | 967,490 | 0 | 0 | 0 | 0 | 0 |
| Transportation Department | 2,161,329 | 0 | 0 | 0 | 0 | 2,161,329 | 0 |
| Wheat Commission | 792,831 | 792,831 | 0 | 0 | 0 | 0 | 0 |
| Illinois | 24,988,306 | 0 | 5,885,366 | 0 | 1,433,534 | 9,517,493 | 8,151,913 |
| Children and Family Services, Department of | 2,746,254 | 0 | 0 | 0 | 0 | 0 | 2,746,254 |
| Commerce and Economic Opportunity, Department of | 11,288,985 | 0 | 5,885,366 | 0 | 0 | 0 | 5,403,619 |
| Housing Development Authority | 2,040 | 0 | 0 | 0 | 0 | 0 | 2,040 |
| Public Health, Department of | 1,433,534 | 0 | 0 | 0 | 1,433,534 | 0 | 0 |
| Transportation, Department of | 9,517,493 | 0 | 0 | 0 | 0 | 9,517,493 | 0 |
| Indiana | 23,590,723 | 250,000 | 657,307 | 37,694 | 10,000,000 | 10,584,435 | 2,061,287 |
| Criminal Justice Institute | 640,000 | 0 | 0 | 0 | 0 | 0 | 640,000 |
| Economic Development Corporation | 12,078,594 | 0 | 657,307 | 0 | 10,000,000 | 0 | 1,421,287 |
| Kankakee River Basin Commission | 34,000 | 0 | 0 | 34,000 | 0 | 0 | 0 |
| Natural Resources, Department of | 250,000 | 250,000 | 0 | 0 | 0 | 0 | 0 |

TABLE 26. State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2014

(Dollars)

| Department or agency | Total | Agriculture | Energy | Environment and natural resources | Health | Transportation | Other ^a |
|-------------------------------------------------------------------|------------|-------------|-----------|-----------------------------------|------------|----------------|--------------------|
| St. Joseph River Basin Commission | 3,694 | 0 | 0 | 3,694 | 0 | 0 | 0 |
| Transportation, Department of | 10,584,435 | 0 | 0 | 0 | 0 | 10,584,435 | 0 |
| Iowa | 10,357,010 | 0 | 1,117,561 | 4,135,147 | 0 | 4,581,695 | 522,607 |
| Economic Development Authority, Energy Office | 1,117,561 | 0 | 1,117,561 | 0 | 0 | 0 | 0 |
| Human Rights, Criminal and Juvenile Justice Planning, Division of | 522,607 | 0 | 0 | 0 | 0 | 0 | 522,607 |
| Natural Resources, Department of | 4,135,147 | 0 | 0 | 4,135,147 | 0 | 0 | 0 |
| Transportation, Department of | 4,581,695 | 0 | 0 | 0 | 0 | 4,581,695 | 0 |
| Kansas | 5,326,455 | 1,129,199 | 0 | 166,000 | 0 | 3,923,777 | 107,479 |
| State Board of Regents | 107,479 | 0 | 0 | 0 | 0 | 0 | 107,479 |
| Transportation, Department of | 3,923,777 | 0 | 0 | 0 | 0 | 3,923,777 | 0 |
| Water Office | 166,000 | 0 | 0 | 166,000 | 0 | 0 | 0 |
| Wheat Commission | 1,129,199 | 1,129,199 | 0 | 0 | 0 | 0 | 0 |
| Kentucky | 16,756,867 | 250,000 | 2,403,100 | 2,888,300 | 4,461,800 | 5,769,400 | 984,267 |
| Early Childhood Development, Governor's Office of | 295,898 | 0 | 0 | 0 | 0 | 0 | 295,898 |
| Economic Development, Cabinet for | 5,450,000 | 0 | 650,000 | 145,000 | 4,400,000 | 0 | 255,000 |
| Education Professional Standards Board | 247,964 | 0 | 0 | 0 | 0 | 0 | 247,964 |
| Energy Development and Independence, Department for | 1,753,100 | 0 | 1,753,100 | 0 | 0 | 0 | 0 |
| Fish and Wildlife Resources, Department of | 2,720,000 | 0 | 0 | 2,720,000 | 0 | 0 | 0 |
| Highways, Department of | 5,769,400 | 0 | 0 | 0 | 0 | 5,769,400 | 0 |
| Horse Racing Commission | 250,000 | 250,000 | 0 | 0 | 0 | 0 | 0 |
| Public Health, Department for | 61,800 | 0 | 0 | 0 | 61,800 | 0 | 0 |
| State Nature Preserves Commission | 23,300 | 0 | 0 | 23,300 | 0 | 0 | 0 |
| Vocational Rehabilitation, Office of | 185,405 | 0 | 0 | 0 | 0 | 0 | 185,405 |
| Louisiana | 18,778,159 | 27,333 | 0 | 7,750,826 | 0 | 11,000,000 | 0 |
| Agriculture and Forestry, Department of | 27,333 | 27,333 | 0 | 0 | 0 | 0 | 0 |
| Coastal Protection and Restoration Authority | 4,850,826 | 0 | 0 | 4,850,826 | 0 | 0 | 0 |
| Transportation and Development, Department of | 11,000,000 | 0 | 0 | 0 | 0 | 11,000,000 | 0 |
| Wildlife and Fisheries, Department of | 2,900,000 | 0 | 0 | 2,900,000 | 0 | 0 | 0 |
| Maine | 6,857,948 | 407,500 | 415,000 | 2,127,448 | 1,040,000 | 868,000 | 2,000,000 |
| Agriculture, Conservation and Forestry, Department of | 513,754 | 0 | 0 | 513,754 | 0 | 0 | 0 |
| Environmental Protection, Department of | 200,000 | 7,500 | 15,000 | 177,500 | 0 | 0 | 0 |
| Health and Human Services, Department of | 39,688 | 0 | 0 | 39,688 | 0 | 0 | 0 |
| Marine Resources, Department of | 1,236,506 | 0 | 0 | 1,236,506 | 0 | 0 | 0 |
| Technology Institute | 4,000,000 | 400,000 | 400,000 | 160,000 | 1,040,000 | 0 | 2,000,000 |
| Transportation, Department of | 868,000 | 0 | 0 | 0 | 0 | 868,000 | 0 |
| Maryland | 29,981,260 | 200,000 | 200,000 | 1,191,164 | 26,800,000 | 1,590,096 | 0 |
| Health and Mental Hygiene, Department of | 13,000,000 | 0 | 0 | 0 | 13,000,000 | 0 | 0 |
| Natural Resources, Department of | 834,164 | 0 | 0 | 834,164 | 0 | 0 | 0 |
| Technology Development Corporation | 14,400,000 | 200,000 | 200,000 | 200,000 | 13,800,000 | 0 | 0 |
| Transportation, Department of | 1,747,096 | 0 | 0 | 157,000 | 0 | 1,590,096 | 0 |

TABLE 26. State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2014
(Dollars)

| Department or agency | Total | Agriculture | Energy | Environment and natural resources | Health | Transportation | Other ^a |
|----------------------------------------------------|------------|-------------|-----------|-----------------------------------|-----------|----------------|--------------------|
| Massachusetts | 18,259,928 | 34,227 | 2,640,446 | 11,503,702 | 4,081,553 | 0 | 0 |
| Agriculture, Department of | 34,227 | 34,227 | 0 | 0 | 0 | 0 | 0 |
| Clean Energy Center | 2,590,446 | 0 | 2,590,446 | 0 | 0 | 0 | 0 |
| Environmental Protection, Department of | 181,452 | 0 | 0 | 181,452 | 0 | 0 | 0 |
| Fish and Game, Department of | 11,172,250 | 0 | 0 | 11,172,250 | 0 | 0 | 0 |
| Mass Life Science Center | 1,107,482 | 0 | 0 | 0 | 1,107,482 | 0 | 0 |
| Mental Health, Department of | 1,756,445 | 0 | 0 | 0 | 1,756,445 | 0 | 0 |
| Public Health, Department of | 1,217,626 | 0 | 0 | 0 | 1,217,626 | 0 | 0 |
| Water Resources Authority | 200,000 | 0 | 50,000 | 150,000 | 0 | 0 | 0 |
| Michigan | 12,252,555 | 3,190,880 | 0 | 3,561,675 | 0 | 5,500,000 | 0 |
| Agriculture and Rural Development, Department of | 3,190,880 | 3,190,880 | 0 | 0 | 0 | 0 | 0 |
| Environmental Quality, Department of | 213 | 0 | 0 | 213 | 0 | 0 | 0 |
| Natural Resources, Department of | 3,561,462 | 0 | 0 | 3,561,462 | 0 | 0 | 0 |
| Transportation, Department of | 5,500,000 | 0 | 0 | 0 | 0 | 5,500,000 | 0 |
| Minnesota | 19,378,825 | 2,725,197 | 327,995 | 2,678,015 | 2,500,000 | 11,147,618 | 0 |
| Agriculture, Department of | 4,846,071 | 2,725,197 | 327,995 | 1,792,879 | 0 | 0 | 0 |
| Employment and Economic Development, Department of | 2,500,000 | 0 | 0 | 0 | 2,500,000 | 0 | 0 |
| Forest Resources Council | 90,000 | 0 | 0 | 90,000 | 0 | 0 | 0 |
| Pollution Control Agency | 273,994 | 0 | 0 | 273,994 | 0 | 0 | 0 |
| Transportation, Department of | 11,668,760 | 0 | 0 | 521,142 | 0 | 11,147,618 | 0 |
| Mississippi | 1,313,376 | 84,209 | 22,914 | 917,631 | 0 | 288,622 | 0 |
| Transportation, Department of | 475,147 | 84,209 | 22,914 | 79,402 | 0 | 288,622 | 0 |
| Wildlife, Fisheries, and Parks, Department of | 838,229 | 0 | 0 | 838,229 | 0 | 0 | 0 |
| Missouri | 8,436,666 | 711,626 | 0 | 3,718,467 | 21,534 | 3,985,039 | 0 |
| Agriculture, Department of | 711,626 | 711,626 | 0 | 0 | 0 | 0 | 0 |
| Conservation, Department of | 3,025,190 | 0 | 0 | 3,025,190 | 0 | 0 | 0 |
| Health and Senior Services, Department of | 21,534 | 0 | 0 | 0 | 21,534 | 0 | 0 |
| Natural Resources, Department of | 693,277 | 0 | 0 | 693,277 | 0 | 0 | 0 |
| Transportation, Department of | 3,985,039 | 0 | 0 | 0 | 0 | 3,985,039 | 0 |
| Montana | 10,428,010 | 4,713,540 | 332,678 | 3,247,491 | 577,157 | 1,418,000 | 139,144 |
| Agriculture, Department of | 2,409,883 | 2,409,883 | 0 | 0 | 0 | 0 | 0 |
| Environmental Quality, Department of | 293,361 | 0 | 0 | 293,361 | 0 | 0 | 0 |
| Fish, Wildlife and Parks | 2,754,248 | 0 | 0 | 2,754,248 | 0 | 0 | 0 |
| Natural Resources and Conservation, Department of | 209,882 | 10,000 | 0 | 199,882 | 0 | 0 | 0 |
| Research and Commercialization, Board of | 1,108,929 | 59,950 | 332,678 | 0 | 577,157 | 0 | 139,144 |
| Transportation, Department of | 1,418,000 | 0 | 0 | 0 | 0 | 1,418,000 | 0 |
| Wheat and Barley Committee | 2,233,707 | 2,233,707 | 0 | 0 | 0 | 0 | 0 |
| Nebraska | 6,621,771 | 2,996,054 | 100,000 | 219,783 | 1,400,000 | 1,708,434 | 197,500 |
| Agriculture, Department of | 471,752 | 471,752 | 0 | 0 | 0 | 0 | 0 |
| Corn Board | 601,604 | 601,604 | 0 | 0 | 0 | 0 | 0 |

TABLE 26. State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2014

(Dollars)

| Department or agency | Total | Agriculture | Energy | Environment and natural resources | Health | Transportation | Other ^a |
|------------------------------------------------------------------|-------------|-------------|------------|-----------------------------------|-------------|----------------|--------------------|
| Dry Bean Commission | 160,059 | 160,059 | 0 | 0 | 0 | 0 | 0 |
| Economic Development, Department of | 3,341,314 | 1,404,310 | 100,000 | 42,073 | 1,400,000 | 197,431 | 197,500 |
| Grain Sorghum Board | 10,000 | 10,000 | 0 | 0 | 0 | 0 | 0 |
| Natural Resources, Department of | 177,710 | 0 | 0 | 177,710 | 0 | 0 | 0 |
| Roads, Department of | 1,511,003 | 0 | 0 | 0 | 0 | 1,511,003 | 0 |
| Wheat Board | 348,329 | 348,329 | 0 | 0 | 0 | 0 | 0 |
| Nevada | 3,438,157 | 10,000 | 0 | 170,494 | 0 | 3,257,663 | 0 |
| Alfalfa Seed Advisory Board | 10,000 | 10,000 | 0 | 0 | 0 | 0 | 0 |
| Commission on Mineral Resources, Division of Minerals | 100,000 | 0 | 0 | 100,000 | 0 | 0 | 0 |
| Transportation, Department of | 3,257,663 | 0 | 0 | 0 | 0 | 3,257,663 | 0 |
| Wildlife, Department of | 70,494 | 0 | 0 | 70,494 | 0 | 0 | 0 |
| New Hampshire | 1,448,090 | 98,640 | 0 | 262,850 | 0 | 786,600 | 300,000 |
| Agriculture, Markets and Food, Department of | 138,837 | 98,640 | 0 | 40,197 | 0 | 0 | 0 |
| Environmental Services, Department of | 219,853 | 0 | 0 | 219,853 | 0 | 0 | 0 |
| Resources and Economic Development, Department of | 300,000 | 0 | 0 | 0 | 0 | 0 | 300,000 |
| Transportation, Department of | 789,400 | 0 | 0 | 2,800 | 0 | 786,600 | 0 |
| New Jersey | 30,384,821 | 0 | 0 | 3,162,639 | 23,534,704 | 3,687,478 | 0 |
| Brain Injury Research, Commission on | 3,953,357 | 0 | 0 | 0 | 3,953,357 | 0 | 0 |
| Cancer Research, Commission on | 591,000 | 0 | 0 | 0 | 591,000 | 0 | 0 |
| Environmental Protection, Department of | 3,162,639 | 0 | 0 | 3,162,639 | 0 | 0 | 0 |
| Health, Department of | 13,323,746 | 0 | 0 | 0 | 13,323,746 | 0 | 0 |
| Medical Research and Treatment of Autism, Governor's Council for | 2,862,556 | 0 | 0 | 0 | 2,862,556 | 0 | 0 |
| Spinal Cord Research, Commission on | 2,804,045 | 0 | 0 | 0 | 2,804,045 | 0 | 0 |
| Transportation, Department of | 3,687,478 | 0 | 0 | 0 | 0 | 3,687,478 | 0 |
| New Mexico | 49,805,916 | 26,948,199 | 2,796,200 | 3,334,100 | 10,741,900 | 2,685,017 | 3,300,500 |
| Cultural Affairs, Department of | 1,156,400 | 0 | 0 | 0 | 0 | 0 | 1,156,400 |
| Game and Fish, Department of | 1,000,000 | 0 | 0 | 1,000,000 | 0 | 0 | 0 |
| Higher Education Department | 45,630,800 | 26,866,500 | 2,796,200 | 2,060,100 | 10,726,900 | 1,037,000 | 2,144,100 |
| Miners' Colfax Medical Center | 15,000 | 0 | 0 | 0 | 15,000 | 0 | 0 |
| State Engineer, Water Resource Allocation Program, Office of | 81,699 | 81,699 | 0 | 0 | 0 | 0 | 0 |
| Transportation, Department of | 1,922,017 | 0 | 0 | 274,000 | 0 | 1,648,017 | 0 |
| New York | 371,224,749 | 1,823,801 | 31,242,349 | 23,806,153 | 257,001,469 | 9,321,647 | 48,029,330 |
| Agriculture and Markets, Department of | 3,390,676 | 1,440,676 | 0 | 0 | 1,950,000 | 0 | 0 |
| Economic Development, Department of | 48,029,330 | 0 | 0 | 0 | 0 | 0 | 48,029,330 |
| Energy Research and Development Authority | 41,546,339 | 0 | 31,028,503 | 4,965,825 | 266,598 | 5,285,413 | 0 |
| Environmental Conservation, Department of | 6,069,764 | 0 | 0 | 6,069,764 | 0 | 0 | 0 |
| Health, Department of | 48,273,199 | 383,125 | 0 | 2,298,746 | 45,591,328 | 0 | 0 |
| Mental Health, Office of | 137,561,179 | 0 | 0 | 0 | 137,561,179 | 0 | 0 |
| People with Developmental Disabilities, Office of | 4,890,436 | 0 | 0 | 0 | 4,890,436 | 0 | 0 |
| Power Authority | 213,846 | 0 | 213,846 | 0 | 0 | 0 | 0 |
| Roswell Park Cancer Institute | 66,300,000 | 0 | 0 | 0 | 66,300,000 | 0 | 0 |

TABLE 26. State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2014
(Dollars)

| Department or agency | Total | Agriculture | Energy | Environment and natural resources | Health | Transportation | Other ^a |
|-------------------------------------------------------|------------|-------------|-----------|-----------------------------------|------------|----------------|--------------------|
| State Museum | 10,471,818 | 0 | 0 | 10,471,818 | 0 | 0 | 0 |
| Thoroughbred Breeding and Development Fund Corp. | 441,928 | 0 | 0 | 0 | 441,928 | 0 | 0 |
| Transportation, Department of | 4,036,234 | 0 | 0 | 0 | 0 | 4,036,234 | 0 |
| North Carolina | 22,114,350 | 12,239,391 | 1,322,052 | 2,864,841 | 0 | 5,688,066 | 0 |
| Agriculture and Consumer Services, Department of | 13,000,000 | 12,000,000 | 1,000,000 | 0 | 0 | 0 | 0 |
| Environmental Quality, Department of | 1,886,893 | 0 | 322,052 | 1,564,841 | 0 | 0 | 0 |
| Golden LEAF | 189,391 | 189,391 | 0 | 0 | 0 | 0 | 0 |
| Transportation, Department of | 6,988,066 | 0 | 0 | 1,300,000 | 0 | 5,688,066 | 0 |
| Wine and Grape Growers Council | 50,000 | 50,000 | 0 | 0 | 0 | 0 | 0 |
| North Dakota | 10,784,572 | 2,504,192 | 6,858,556 | 825,000 | 0 | 596,824 | 0 |
| Agriculture, Department of | 112,689 | 112,689 | 0 | 0 | 0 | 0 | 0 |
| Game and Fish, Department of | 825,000 | 0 | 0 | 825,000 | 0 | 0 | 0 |
| Lignite Research Council | 1,419,359 | 0 | 1,419,359 | 0 | 0 | 0 | 0 |
| Oil and Gas Research Program | 3,958,048 | 0 | 3,958,048 | 0 | 0 | 0 | 0 |
| Renewable Energy Research Program | 1,481,149 | 0 | 1,481,149 | 0 | 0 | 0 | 0 |
| Soybean Council | 1,288,295 | 1,288,295 | 0 | 0 | 0 | 0 | 0 |
| Transportation, Department of | 596,824 | 0 | 0 | 0 | 0 | 596,824 | 0 |
| Wheat Commission | 1,103,208 | 1,103,208 | 0 | 0 | 0 | 0 | 0 |
| Ohio | 94,882,275 | 0 | 6,472,561 | 36,843,569 | 4,508,615 | 16,507,471 | 30,550,059 |
| Development Services Agency | 84,085,784 | 0 | 6,208,182 | 34,776,878 | 3,688,615 | 8,862,050 | 30,550,059 |
| Mental Health and Addiction Services, Department of | 820,000 | 0 | 0 | 0 | 820,000 | 0 | 0 |
| Natural Resources, Department of | 1,395,527 | 0 | 264,379 | 1,131,148 | 0 | 0 | 0 |
| Transportation, Department of | 7,645,421 | 0 | 0 | 0 | 0 | 7,645,421 | 0 |
| Water Development Authority | 935,543 | 0 | 0 | 935,543 | 0 | 0 | 0 |
| Oklahoma | 30,473,702 | 1,708,188 | 1,246,000 | 5,921,730 | 14,455,147 | 4,873,928 | 2,268,709 |
| Advancement of Science and Technology, Center for the | 10,606,717 | 638,500 | 1,246,000 | 1,421,730 | 5,104,000 | 285,000 | 1,911,487 |
| Agriculture, Food, and Forestry, Department of | 701,688 | 701,688 | 0 | 0 | 0 | 0 | 0 |
| Grand River Dam Authority | 100,000 | 0 | 0 | 100,000 | 0 | 0 | 0 |
| Health, State Department of | 170,925 | 0 | 0 | 0 | 163,703 | 0 | 7,222 |
| Human Services, Department of | 350,000 | 0 | 0 | 0 | 0 | 0 | 350,000 |
| Sorghum Commission | 60,000 | 60,000 | 0 | 0 | 0 | 0 | 0 |
| Tobacco Settlement Endowment Trust | 9,187,444 | 0 | 0 | 0 | 9,187,444 | 0 | 0 |
| Transportation, Department of | 4,588,928 | 0 | 0 | 0 | 0 | 4,588,928 | 0 |
| Wheat Commission | 308,000 | 308,000 | 0 | 0 | 0 | 0 | 0 |
| Wildlife Conservation, Department of | 4,400,000 | 0 | 0 | 4,400,000 | 0 | 0 | 0 |
| Oregon | 29,679,288 | 384,341 | 7,099,464 | 17,070,483 | 1,000,000 | 2,290,000 | 1,835,000 |
| Agriculture, Department of | 192,060 | 184,341 | 0 | 7,719 | 0 | 0 | 0 |
| Business Development Department | 10,650,000 | 200,000 | 6,900,000 | 0 | 1,000,000 | 750,000 | 1,800,000 |
| Energy, Department of | 159,464 | 0 | 159,464 | 0 | 0 | 0 | 0 |
| Environmental Quality, Department of | 75,000 | 0 | 40,000 | 0 | 0 | 0 | 35,000 |
| Fish and Wildlife, Department of | 871,221 | 0 | 0 | 871,221 | 0 | 0 | 0 |

TABLE 26. State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2014

(Dollars)

| Department or agency | Total | Agriculture | Energy | Environment and natural resources | Health | Transportation | Other ^a |
|---------------------------------------------------|------------|-------------|-----------|-----------------------------------|------------|----------------|--------------------|
| Forestry, Department of | 14,644,063 | 0 | 0 | 14,644,063 | 0 | 0 | 0 |
| Transportation, Department of | 1,540,000 | 0 | 0 | 0 | 0 | 1,540,000 | 0 |
| Water Resources Department | 125,000 | 0 | 0 | 125,000 | 0 | 0 | 0 |
| Watershed Enhancement Board | 1,422,480 | 0 | 0 | 1,422,480 | 0 | 0 | 0 |
| Pennsylvania | 35,432,244 | 787,000 | 2,580,520 | 8,792,509 | 11,421,718 | 3,095,997 | 8,754,500 |
| Agriculture, Department of | 787,000 | 787,000 | 0 | 0 | 0 | 0 | 0 |
| Community and Economic Development, Department of | 15,748,000 | 0 | 2,450,000 | 0 | 5,298,000 | 0 | 8,000,000 |
| Conservation and Natural Resources, Department of | 266,763 | 0 | 0 | 266,763 | 0 | 0 | 0 |
| Education, Department of | 30,000 | 0 | 0 | 0 | 0 | 0 | 30,000 |
| Energy Development Authority | 110,515 | 0 | 110,515 | 0 | 0 | 0 | 0 |
| Environmental Protection, Department of | 2,740,046 | 0 | 0 | 2,015,546 | 0 | 0 | 724,500 |
| Fish and Boat Commission | 304,243 | 0 | 0 | 304,243 | 0 | 0 | 0 |
| Game Commission | 6,265,856 | 0 | 20,005 | 5,522,133 | 723,718 | 0 | 0 |
| Health, Department of | 5,400,000 | 0 | 0 | 0 | 5,400,000 | 0 | 0 |
| Susquehanna River Basin Commission | 683,824 | 0 | 0 | 683,824 | 0 | 0 | 0 |
| Transportation, Department of | 3,095,997 | 0 | 0 | 0 | 0 | 3,095,997 | 0 |
| Rhode Island | 3,225,472 | 0 | 2,000 | 861,501 | 305,066 | 1,576,999 | 479,906 |
| Atomic Energy Commission | 2,000 | 0 | 2,000 | 0 | 0 | 0 | 0 |
| Commerce Corporation | 1,591,473 | 0 | 0 | 806,501 | 305,066 | 0 | 479,906 |
| Transportation, Department of | 1,576,999 | 0 | 0 | 0 | 0 | 1,576,999 | 0 |
| Water Resources Board | 55,000 | 0 | 0 | 55,000 | 0 | 0 | 0 |
| South Carolina | 22,311,739 | 534,646 | 56,129 | 17,608,196 | 461,758 | 1,594,110 | 2,056,900 |
| Agriculture, Department of | 396,576 | 396,576 | 0 | 0 | 0 | 0 | 0 |
| Mental Health, Department of | 100,884 | 0 | 0 | 0 | 100,884 | 0 | 0 |
| Natural Resources, Department of | 16,932,717 | 0 | 0 | 16,932,717 | 0 | 0 | 0 |
| Research Authority | 2,637,564 | 0 | 56,129 | 142,559 | 360,874 | 21,102 | 2,056,900 |
| Sea Grant Consortium | 670,990 | 138,070 | 0 | 532,920 | 0 | 0 | 0 |
| Transportation, Department of | 1,573,008 | 0 | 0 | 0 | 0 | 1,573,008 | 0 |
| South Dakota | 5,067,005 | 3,219,622 | 3,779 | 45,000 | 0 | 1,798,604 | 0 |
| Corn Utilization Council | 1,400,000 | 1,400,000 | 0 | 0 | 0 | 0 | 0 |
| Oilseeds Council | 60,000 | 60,000 | 0 | 0 | 0 | 0 | 0 |
| Pork Producers Council | 15,000 | 15,000 | 0 | 0 | 0 | 0 | 0 |
| Science and Technology Authority | 3,779 | 0 | 3,779 | 0 | 0 | 0 | 0 |
| Soybean Research and Promotion Council | 1,197,622 | 1,197,622 | 0 | 0 | 0 | 0 | 0 |
| Transportation, Department of | 1,843,604 | 0 | 0 | 45,000 | 0 | 1,798,604 | 0 |
| Weed and Pest Control Commission | 47,000 | 47,000 | 0 | 0 | 0 | 0 | 0 |
| Wheat Commission | 500,000 | 500,000 | 0 | 0 | 0 | 0 | 0 |
| Tennessee | 4,363,565 | 0 | 0 | 583,092 | 0 | 3,780,473 | 0 |
| Environment and Conservation, Department of | 290,224 | 0 | 0 | 290,224 | 0 | 0 | 0 |
| Geological Survey | 292,868 | 0 | 0 | 292,868 | 0 | 0 | 0 |
| Transportation, Department of | 3,780,473 | 0 | 0 | 0 | 0 | 3,780,473 | 0 |

TABLE 26. State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2014

(Dollars)

| Department or agency | Total | Agriculture | Energy | Environment and natural resources | Health | Transportation | Other ^a |
|---------------------------------------------------------------------------------------|-------------|-------------|-----------|-----------------------------------|-------------|----------------|--------------------|
| Texas | 162,287,552 | 3,557,354 | 0 | 13,206,103 | 131,883,911 | 13,640,184 | 0 |
| Agriculture, Department of | 1,417,500 | 1,417,500 | 0 | 0 | 0 | 0 | 0 |
| Cancer Prevention and Research Institute | 127,133,911 | 0 | 0 | 0 | 127,133,911 | 0 | 0 |
| Council on Alzheimer's Disease | 4,750,000 | 0 | 0 | 0 | 4,750,000 | 0 | 0 |
| Environmental Quality, Commission on | 1,000,000 | 0 | 0 | 1,000,000 | 0 | 0 | 0 |
| Parks and Wildlife Department | 9,907,770 | 0 | 0 | 9,907,770 | 0 | 0 | 0 |
| Transportation, Department of | 13,640,184 | 0 | 0 | 0 | 0 | 13,640,184 | 0 |
| Water Development Board | 4,438,187 | 2,139,854 | 0 | 2,298,333 | 0 | 0 | 0 |
| Utah | 36,466,790 | 1,688,670 | 2,076,936 | 17,125,000 | 8,226,438 | 2,293,133 | 5,056,613 |
| Agriculture and Food, Department of | 355,984 | 355,984 | 0 | 0 | 0 | 0 | 0 |
| Economic Development | 1,363,375 | 0 | 414,875 | 125,000 | 703,500 | 0 | 120,000 |
| Natural Resources, Department of | 17,000,000 | 0 | 0 | 17,000,000 | 0 | 0 | 0 |
| Science Technology and Research Initiative, Governor's Office of Economic Development | 16,597,431 | 1,332,686 | 1,662,061 | 0 | 7,522,938 | 1,143,133 | 4,936,613 |
| Transportation, Department of | 1,150,000 | 0 | 0 | 0 | 0 | 1,150,000 | 0 |
| Vermont | 2,039,520 | 384,878 | 223,802 | 252,928 | 170,047 | 1,007,865 | 0 |
| Agriculture, Food, and Markets, Agency of | 549,826 | 384,878 | 109,965 | 54,983 | 0 | 0 | 0 |
| Human Services, Agency of | 170,047 | 0 | 0 | 0 | 170,047 | 0 | 0 |
| Natural Resources, Agency of | 197,945 | 0 | 0 | 197,945 | 0 | 0 | 0 |
| Public Service Department | 113,837 | 0 | 113,837 | 0 | 0 | 0 | 0 |
| Transportation, Agency of | 1,007,865 | 0 | 0 | 0 | 0 | 1,007,865 | 0 |
| Virginia | 38,456,410 | 730,636 | 5,789,258 | 9,034,190 | 6,113,236 | 12,779,955 | 4,009,135 |
| Aging and Rehabilitation, Department of | 30,325 | 0 | 0 | 0 | 0 | 0 | 30,325 |
| Agriculture and Consumer Services, Department of | 700,636 | 700,636 | 0 | 0 | 0 | 0 | 0 |
| Commonwealth Health Research Board | 692,409 | 0 | 0 | 0 | 692,409 | 0 | 0 |
| Environmental Quality, Department of | 2,188,242 | 0 | 0 | 2,188,242 | 0 | 0 | 0 |
| Forensic Science, Department of | 267,000 | 0 | 0 | 0 | 0 | 0 | 267,000 |
| Forestry, Department of | 396,188 | 0 | 0 | 396,188 | 0 | 0 | 0 |
| Foundation for Healthy Youth | 773,023 | 0 | 0 | 0 | 773,023 | 0 | 0 |
| Game and Inland Fisheries, Department of | 1,875,188 | 0 | 0 | 1,875,188 | 0 | 0 | 0 |
| General Services, Department of | 40,000 | 30,000 | 0 | 0 | 10,000 | 0 | 0 |
| Innovative Technology, Center for | 5,006,000 | 0 | 331,000 | 124,000 | 2,503,000 | 0 | 2,048,000 |
| Marine Resources Commission | 2,606,910 | 0 | 0 | 2,606,910 | 0 | 0 | 0 |
| Mines, Minerals and Energy, Department of | 1,857,504 | 0 | 915,756 | 941,748 | 0 | 0 | 0 |
| Natural History, Museum of | 701,545 | 0 | 0 | 701,545 | 0 | 0 | 0 |
| Social Services, Department of | 20,000 | 0 | 0 | 0 | 0 | 0 | 20,000 |
| Tobacco Region Revitalization Commission | 8,521,485 | 0 | 4,542,502 | 200,369 | 2,134,804 | 0 | 1,643,810 |
| Transportation, Department of | 12,779,955 | 0 | 0 | 0 | 0 | 12,779,955 | 0 |
| Washington | 38,277,525 | 8,689,311 | 148,000 | 9,118,095 | 11,904,246 | 5,450,000 | 2,967,873 |
| Agriculture, Department of | 1,264,557 | 1,264,557 | 0 | 0 | 0 | 0 | 0 |
| Alfalfa Seed Commission | 32,000 | 32,000 | 0 | 0 | 0 | 0 | 0 |

TABLE 26. State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2014

(Dollars)

| Department or agency | Total | Agriculture | Energy | Environment and natural resources | Health | Transportation | Other ^a |
|-----------------------------------------------------------|------------|-------------|---------|-----------------------------------|------------|----------------|--------------------|
| Archaeology and Historic Preservation, Department of | 335,280 | 0 | 0 | 0 | 0 | 0 | 335,280 |
| Asparagus Commission | 57,000 | 57,000 | 0 | 0 | 0 | 0 | 0 |
| Beef Commission | 20,000 | 20,000 | 0 | 0 | 0 | 0 | 0 |
| Blueberry Commission | 149,905 | 149,905 | 0 | 0 | 0 | 0 | 0 |
| Cranberry Commission | 14,358 | 14,358 | 0 | 0 | 0 | 0 | 0 |
| Dairy Products Commission | 80,200 | 80,200 | 0 | 0 | 0 | 0 | 0 |
| Dry Pea and Lentil Commission | 245,843 | 245,843 | 0 | 0 | 0 | 0 | 0 |
| Ecology, Department of | 380,786 | 0 | 0 | 380,786 | 0 | 0 | 0 |
| Fish and Wildlife, Department of | 4,977,664 | 0 | 0 | 4,977,664 | 0 | 0 | 0 |
| Fruit Commission | 8,000 | 8,000 | 0 | 0 | 0 | 0 | 0 |
| Grain Commission | 2,351,631 | 2,351,631 | 0 | 0 | 0 | 0 | 0 |
| Hop Commission | 158,986 | 158,986 | 0 | 0 | 0 | 0 | 0 |
| Labor and Industries, Department of | 2,632,593 | 0 | 0 | 0 | 0 | 0 | 2,632,593 |
| Life Sciences Discovery Fund | 11,904,246 | 0 | 0 | 0 | 11,904,246 | 0 | 0 |
| Mint Commission | 34,605 | 34,605 | 0 | 0 | 0 | 0 | 0 |
| Natural Resources, Department of | 3,180,045 | 0 | 148,000 | 3,032,045 | 0 | 0 | 0 |
| Oilseeds Commission | 9,000 | 9,000 | 0 | 0 | 0 | 0 | 0 |
| Pesticide Registration, Commission of | 385,113 | 385,113 | 0 | 0 | 0 | 0 | 0 |
| Potato Commission | 833,671 | 833,671 | 0 | 0 | 0 | 0 | 0 |
| Puget Sound Partnership | 727,600 | 0 | 0 | 727,600 | 0 | 0 | 0 |
| Red Raspberry Commission | 262,429 | 262,429 | 0 | 0 | 0 | 0 | 0 |
| Seed Potato Commission | 17,263 | 17,263 | 0 | 0 | 0 | 0 | 0 |
| Transportation, Department of | 5,450,000 | 0 | 0 | 0 | 0 | 5,450,000 | 0 |
| Tree Fruit Research Commission | 2,540,000 | 2,540,000 | 0 | 0 | 0 | 0 | 0 |
| Turfgrass Commission | 42,000 | 42,000 | 0 | 0 | 0 | 0 | 0 |
| Wine Commission | 182,750 | 182,750 | 0 | 0 | 0 | 0 | 0 |
| West Virginia | 9,705,200 | 0 | 857,387 | 290,580 | 220,000 | 20,000 | 8,317,233 |
| Geological and Economic Survey | 4,555,155 | 0 | 857,387 | 230,580 | 0 | 0 | 3,467,188 |
| Higher Education Policy Commission | 5,137,488 | 0 | 0 | 60,000 | 220,000 | 20,000 | 4,837,488 |
| Justice and Community Services, Division of | 12,557 | 0 | 0 | 0 | 0 | 0 | 12,557 |
| Wisconsin | 14,643,835 | 616,740 | 30,000 | 7,183,900 | 840,000 | 3,843,195 | 2,130,000 |
| Agriculture, Trade and Consumer Protection, Department of | 616,740 | 616,740 | 0 | 0 | 0 | 0 | 0 |
| Economic Development Corporation | 3,000,000 | 0 | 30,000 | 0 | 840,000 | 0 | 2,130,000 |
| Natural Resources, Department of | 7,183,900 | 0 | 0 | 7,183,900 | 0 | 0 | 0 |
| Transportation, Department of | 3,843,195 | 0 | 0 | 0 | 0 | 3,843,195 | 0 |
| Wyoming | 6,444,053 | 125,000 | 356,188 | 4,731,992 | 0 | 1,230,873 | 0 |
| Agriculture, Department of | 225,000 | 125,000 | 0 | 100,000 | 0 | 0 | 0 |
| Enhanced Oil Recovery Commission | 250,000 | 0 | 250,000 | 0 | 0 | 0 | 0 |
| Game and Fish Department | 1,857,846 | 0 | 0 | 1,857,846 | 0 | 0 | 0 |
| State Engineer, Office of | 100,000 | 0 | 0 | 100,000 | 0 | 0 | 0 |
| State Geological Survey | 265,471 | 0 | 106,188 | 159,283 | 0 | 0 | 0 |
| Transportation, Department of | 1,230,873 | 0 | 0 | 0 | 0 | 1,230,873 | 0 |

TABLE 26. State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2014
(Dollars)

| Department or agency | Total | Agriculture | Energy | Environment and natural resources | Health | Transportation | Other ^a |
|-----------------------------------------------------------------------|-----------|-------------|---------|-----------------------------------|-----------|----------------|--------------------|
| Water Development Commission | 2,373,863 | 0 | 0 | 2,373,863 | 0 | 0 | 0 |
| Wildlife and Natural Resources Trust | 141,000 | 0 | 0 | 141,000 | 0 | 0 | 0 |
| Puerto Rico ^c | 6,569,500 | 550,000 | 422,494 | 205,623 | 4,036,171 | 560,000 | 795,212 |
| Agriculture, Department of ^d | 550,000 | 550,000 | 0 | 0 | 0 | 0 | 0 |
| Health, Department of | 165,922 | 0 | 0 | 0 | 165,922 | 0 | 0 |
| Highways and Transportation Authority | 560,000 | 0 | 0 | 0 | 0 | 560,000 | 0 |
| Hospital San Juan ^{d,e} | 2,000,000 | 0 | 0 | 0 | 2,000,000 | 0 | 0 |
| Institute of Statistics | 617,966 | 0 | 0 | 0 | 142,132 | 0 | 475,834 |
| Manufacturing Extension, Incorporated ^d | 319,378 | 0 | 0 | 0 | 0 | 0 | 319,378 |
| Mental Health and Anti-Addiction Services Administration ^d | 1,200,000 | 0 | 0 | 0 | 1,200,000 | 0 | 0 |
| Natural Resources, Department of | 100,000 | 0 | 0 | 100,000 | 0 | 0 | 0 |
| Science, Technology and Research Trust ^d | 1,056,234 | 0 | 422,494 | 105,623 | 528,117 | 0 | 0 |

^a Other functions include, but are not limited to, corrections, criminal justice, education, forensic science, labor, public safety, and social services.

^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 2014 and 2015.

TABLE 27. State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2015

(Dollars)

| Department or agency | Total | Agriculture | Energy | Environment and natural resources | Health | Transportation | Other ^a |
|----------------------------------------------------------------------------------|---------------|-------------|-------------|-----------------------------------|-------------|----------------|--------------------|
| United States ^b | 2,205,146,613 | 127,363,440 | 312,114,377 | 413,229,629 | 939,828,386 | 247,779,544 | 164,831,237 |
| Alabama | 24,486,963 | 250,000 | 688,913 | 5,718,986 | 2,829,600 | 9,255,656 | 5,743,808 |
| Choctawhatchee, Pea and Yellow River Watershed Management Authority | 6,340 | 0 | 0 | 6,340 | 0 | 0 | 0 |
| Education, Department of | 46,000 | 0 | 0 | 0 | 0 | 0 | 46,000 |
| Forensic Sciences, Department of | 120,724 | 0 | 0 | 0 | 0 | 0 | 120,724 |
| Geological Survey | 2,355,251 | 0 | 288,267 | 2,066,984 | 0 | 0 | 0 |
| Innovation Fund | 5,950,371 | 250,000 | 400,646 | 0 | 2,829,600 | 681,290 | 1,788,835 |
| Marine Environmental Science Consortium, Dauphin Island Sea Lab | 3,645,662 | 0 | 0 | 3,645,662 | 0 | 0 | 0 |
| Supercomputer Authority | 3,788,249 | 0 | 0 | 0 | 0 | 0 | 3,788,249 |
| Transportation, Department of | 8,574,366 | 0 | 0 | 0 | 0 | 8,574,366 | 0 |
| Alaska | 11,258,203 | 217,141 | 53,202 | 8,987,200 | 0 | 2,000,660 | 0 |
| Natural Resources, Division of Geological and Geophysical Surveys, Department of | 9,257,543 | 217,141 | 53,202 | 8,987,200 | 0 | 0 | 0 |
| Transportation and Public Facilities, Department of | 2,000,660 | 0 | 0 | 0 | 0 | 2,000,660 | 0 |
| Arizona | 14,942,124 | 718,324 | 658,000 | 7,012,194 | 5,294,706 | 1,258,900 | 0 |
| Agriculture, Department of | 818,816 | 718,324 | 0 | 100,492 | 0 | 0 | 0 |
| Game and Fish Department | 4,313,702 | 0 | 0 | 4,313,702 | 0 | 0 | 0 |
| Geological Survey | 3,256,000 | 0 | 658,000 | 2,598,000 | 0 | 0 | 0 |
| Health Services, Department of | 5,294,706 | 0 | 0 | 0 | 5,294,706 | 0 | 0 |
| Transportation, Department of | 1,258,900 | 0 | 0 | 0 | 0 | 1,258,900 | 0 |
| Arkansas | 16,642,711 | 8,248,838 | 5,243,216 | 303,087 | 726,189 | 1,486,000 | 635,381 |
| Beef Council | 40,750 | 40,750 | 0 | 0 | 0 | 0 | 0 |
| Catfish Promotion Board | 27,560 | 27,560 | 0 | 0 | 0 | 0 | 0 |
| Corn and Grain Sorghum Board | 779,000 | 779,000 | 0 | 0 | 0 | 0 | 0 |
| Economic Development Commission | 8,067,653 | 1,159,780 | 5,243,216 | 303,087 | 726,189 | 0 | 635,381 |
| Rice Research and Promotion Board | 2,996,500 | 2,996,500 | 0 | 0 | 0 | 0 | 0 |
| Soybean Promotion Board | 3,100,707 | 3,100,707 | 0 | 0 | 0 | 0 | 0 |
| State Highway and Transportation Department | 1,486,000 | 0 | 0 | 0 | 0 | 1,486,000 | 0 |
| Wheat Promotion Board | 144,541 | 144,541 | 0 | 0 | 0 | 0 | 0 |
| California | 500,071,595 | 7,566,669 | 194,354,000 | 30,382,163 | 221,873,363 | 35,201,005 | 10,694,395 |
| Air Resources Board | 18,218,725 | 0 | 0 | 15,485,916 | 2,732,809 | 0 | 0 |
| Children and Families Commission | 935,000 | 0 | 0 | 0 | 375,000 | 0 | 560,000 |
| Community Services and Development, Department of | 100,000 | 0 | 0 | 0 | 0 | 0 | 100,000 |
| Corrections and Rehabilitation, Department of | 6,300,000 | 0 | 0 | 0 | 0 | 0 | 6,300,000 |
| Delta Stewardship Council | 2,850,000 | 0 | 0 | 2,850,000 | 0 | 0 | 0 |
| Energy Commission | 194,354,000 | 0 | 194,354,000 | 0 | 0 | 0 | 0 |
| Environmental Health Hazard Assessment, Office of | 11,795,522 | 0 | 0 | 0 | 11,795,522 | 0 | 0 |
| Fish and Wildlife, Department of | 360,000 | 0 | 0 | 360,000 | 0 | 0 | 0 |
| Food and Agriculture, Department of | 4,041,669 | 4,041,669 | 0 | 0 | 0 | 0 | 0 |
| Forestry and Fire Protection, Department of | 1,143,564 | 0 | 0 | 1,143,564 | 0 | 0 | 0 |
| Horse Racing Board | 659,000 | 0 | 0 | 0 | 659,000 | 0 | 0 |
| Industrial Relations, Department of | 40,682 | 0 | 0 | 0 | 40,682 | 0 | 0 |

TABLE 27. State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2015

(Dollars)

| Department or agency | Total | Agriculture | Energy | Environment and natural resources | Health | Transportation | Other ^a |
|---------------------------------------------------------------------------|-------------|-------------|-----------|-----------------------------------|-------------|----------------|--------------------|
| Institute for Regenerative Medicine | 198,649,268 | 0 | 0 | 0 | 198,649,268 | 0 | 0 |
| Motor Vehicles, Department of | 1,287,082 | 0 | 0 | 0 | 1,287,082 | 0 | 0 |
| Pesticide Regulation, Department of | 10,211,000 | 2,785,000 | 0 | 2,345,000 | 5,081,000 | 0 | 0 |
| Public Health, Environmental Health Laboratory Branch, Department of | 250,000 | 0 | 0 | 0 | 250,000 | 0 | 0 |
| Public Health, Food and Drug Branch, Science and Education, Department of | 1,000,000 | 600,000 | 0 | 0 | 400,000 | 0 | 0 |
| Public Health, Genetic Disease, Department of | 603,000 | 0 | 0 | 0 | 603,000 | 0 | 0 |
| Public Utilities Commission, Communications Division | 1,135,474 | 0 | 0 | 0 | 0 | 0 | 1,135,474 |
| Resources Recycling and Recovery, Department of | 1,844,832 | 0 | 0 | 1,594,832 | 0 | 250,000 | 0 |
| Seismic Safety Commission | 920,490 | 0 | 0 | 920,490 | 0 | 0 | 0 |
| Social Services, Department of | 100,826 | 0 | 0 | 0 | 0 | 0 | 100,826 |
| State Coastal Conservancy | 73,833 | 0 | 0 | 73,833 | 0 | 0 | 0 |
| State Water Resources Control Board | 650,000 | 0 | 0 | 650,000 | 0 | 0 | 0 |
| Transportation, Department of | 34,951,005 | 0 | 0 | 0 | 0 | 34,951,005 | 0 |
| Water Resources, Department of | 7,596,623 | 140,000 | 0 | 4,958,528 | 0 | 0 | 2,498,095 |
| Colorado | 16,321,056 | 373,735 | 2,241,216 | 8,630,632 | 1,248,410 | 1,881,210 | 1,945,853 |
| Economic Development and International Trade, Office of | 2,809,069 | 150,000 | 1,168,427 | 187,232 | 1,248,410 | 55,000 | 0 |
| Higher Education Competitive, Research Authority | 2,314,761 | 0 | 886,000 | 475,000 | 0 | 0 | 953,761 |
| Natural Resources, Department of | 6,928,752 | 0 | 186,789 | 6,741,963 | 0 | 0 | 0 |
| Public Health and Environment, Department of | 1,156,437 | 0 | 0 | 1,156,437 | 0 | 0 | 0 |
| Public Safety, Department of | 992,092 | 0 | 0 | 0 | 0 | 0 | 992,092 |
| Transportation, Department of | 1,896,210 | 0 | 0 | 70,000 | 0 | 1,826,210 | 0 |
| Wine Industry Development Board | 223,735 | 223,735 | 0 | 0 | 0 | 0 | 0 |
| Connecticut | 55,816,528 | 4,228,545 | 1,944,337 | 10,303,327 | 28,803,862 | 5,409,867 | 5,126,590 |
| Aging, Department on | 62,752 | 0 | 0 | 0 | 62,752 | 0 | 0 |
| Agricultural Experiment Station | 10,842,422 | 4,228,545 | 0 | 3,577,999 | 3,035,878 | 0 | 0 |
| Energy and Environmental Protection, Department of | 6,725,328 | 0 | 0 | 6,725,328 | 0 | 0 | 0 |
| Innovation Inc. | 18,820,358 | 0 | 1,944,337 | 0 | 11,749,431 | 0 | 5,126,590 |
| Mental Health and Addiction Services, Department of | 5,203,948 | 0 | 0 | 0 | 5,203,948 | 0 | 0 |
| Public Health, Department of | 7,387,895 | 0 | 0 | 0 | 7,387,895 | 0 | 0 |
| Social Services, Department of | 1,363,958 | 0 | 0 | 0 | 1,363,958 | 0 | 0 |
| Transportation, Department of | 5,409,867 | 0 | 0 | 0 | 0 | 5,409,867 | 0 |
| Delaware | 2,199,635 | 0 | 10,000 | 2,048,014 | 0 | 141,621 | 0 |
| Geological Survey | 1,672,991 | 0 | 0 | 1,672,991 | 0 | 0 | 0 |
| Natural Resources and Environmental Control, Department of | 375,023 | 0 | 0 | 375,023 | 0 | 0 | 0 |
| Sustainable Energy Unit | 10,000 | 0 | 10,000 | 0 | 0 | 0 | 0 |
| Transportation, Department of | 141,621 | 0 | 0 | 0 | 0 | 141,621 | 0 |
| District of Columbia | 3,216,073 | 0 | 75,000 | 2,000,000 | 174,578 | 828,377 | 138,118 |
| Health, Department of | 312,696 | 0 | 0 | 0 | 174,578 | 0 | 138,118 |
| Transportation, Department of | 903,377 | 0 | 75,000 | 0 | 0 | 828,377 | 0 |
| Water and Sewer Authority | 2,000,000 | 0 | 0 | 2,000,000 | 0 | 0 | 0 |

TABLE 27. State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2015

(Dollars)

| Department or agency | Total | Agriculture | Energy | Environment and natural resources | Health | Transportation | Other ^a |
|------------------------------------------------------------|-------------|-------------|-----------|-----------------------------------|-------------|----------------|--------------------|
| Florida | 191,598,669 | 18,529,725 | 1,117,124 | 57,934,383 | 102,896,382 | 11,121,055 | 0 |
| Agriculture and Consumer Services, Department of | 29,138,531 | 15,349,763 | 1,117,124 | 11,093,710 | 1,577,934 | 0 | 0 |
| Citrus, Department of | 3,435,397 | 3,179,962 | 0 | 0 | 255,435 | 0 | 0 |
| Fish and Wildlife Conservation Commission | 46,840,673 | 0 | 0 | 46,840,673 | 0 | 0 | 0 |
| Health, Department of | 101,063,013 | 0 | 0 | 0 | 101,063,013 | 0 | 0 |
| Space Florida | 1,350,000 | 0 | 0 | 0 | 0 | 1,350,000 | 0 |
| Transportation, Department of | 9,771,055 | 0 | 0 | 0 | 0 | 9,771,055 | 0 |
| Georgia | 10,052,848 | 0 | 3,148,268 | 3,062,308 | 0 | 3,842,272 | 0 |
| Environmental Finance Authority | 1,276,375 | 0 | 0 | 1,276,375 | 0 | 0 | 0 |
| Natural Resources Wildlife Division, Department of | 1,785,933 | 0 | 0 | 1,785,933 | 0 | 0 | 0 |
| Southern States Energy Board | 3,148,268 | 0 | 3,148,268 | 0 | 0 | 0 | 0 |
| Transportation, Department of | 3,842,272 | 0 | 0 | 0 | 0 | 3,842,272 | 0 |
| Hawaii | 11,520,961 | 60,000 | 1,500,000 | 7,849,438 | 0 | 1,338,452 | 773,071 |
| Agriculture, Department of | 60,000 | 60,000 | 0 | 0 | 0 | 0 | 0 |
| Business, Economic Development, and Tourism, Department of | 2,273,071 | 0 | 1,500,000 | 0 | 0 | 0 | 773,071 |
| Land and Natural Resources, Department of | 7,849,438 | 0 | 0 | 7,849,438 | 0 | 0 | 0 |
| Transportation, Department of | 1,338,452 | 0 | 0 | 0 | 0 | 1,338,452 | 0 |
| Idaho | 12,935,976 | 2,930,637 | 274,051 | 8,164,676 | 130,045 | 1,436,567 | 0 |
| Barley Commission | 346,105 | 346,105 | 0 | 0 | 0 | 0 | 0 |
| Bean Commission | 65,930 | 65,930 | 0 | 0 | 0 | 0 | 0 |
| Commerce, Department of | 964,154 | 367,171 | 274,051 | 192,887 | 130,045 | 0 | 0 |
| Environmental Quality, Department of | 620,407 | 0 | 0 | 620,407 | 0 | 0 | 0 |
| Fish and Game, Department of | 7,051,382 | 0 | 0 | 7,051,382 | 0 | 0 | 0 |
| Oilseed Commission | 30,000 | 30,000 | 0 | 0 | 0 | 0 | 0 |
| Pea and Lentil Commission | 144,725 | 144,725 | 0 | 0 | 0 | 0 | 0 |
| Potato Commission | 1,038,040 | 1,038,040 | 0 | 0 | 0 | 0 | 0 |
| Transportation Department | 1,436,567 | 0 | 0 | 0 | 0 | 1,436,567 | 0 |
| Water Resources, Department of | 300,000 | 0 | 0 | 300,000 | 0 | 0 | 0 |
| Wheat Commission | 938,666 | 938,666 | 0 | 0 | 0 | 0 | 0 |
| Illinois | 30,817,406 | 139,697 | 4,333,344 | 0 | 2,552,945 | 9,602,367 | 14,189,053 |
| Children and Family Services, Department of | 2,853,572 | 0 | 0 | 0 | 0 | 0 | 2,853,572 |
| Commerce and Economic Opportunity, Department of | 15,798,322 | 139,697 | 4,333,344 | 0 | 0 | 0 | 11,325,281 |
| Housing Development Authority | 10,200 | 0 | 0 | 0 | 0 | 0 | 10,200 |
| Human Services, Department of | 61,316 | 0 | 0 | 0 | 61,316 | 0 | 0 |
| Public Health, Department of | 2,491,629 | 0 | 0 | 0 | 2,491,629 | 0 | 0 |
| Transportation, Department of | 9,602,367 | 0 | 0 | 0 | 0 | 9,602,367 | 0 |
| Indiana | 9,987,058 | 250,000 | 354,693 | 124,964 | 0 | 7,483,614 | 1,773,787 |
| Criminal Justice Institute | 640,000 | 0 | 0 | 0 | 0 | 0 | 640,000 |
| Economic Development Corporation | 1,488,480 | 0 | 354,693 | 0 | 0 | 0 | 1,133,787 |
| Kankakee River Basin Commission | 114,000 | 0 | 0 | 114,000 | 0 | 0 | 0 |
| Natural Resources, Department of | 250,000 | 250,000 | 0 | 0 | 0 | 0 | 0 |

TABLE 27. State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2015

(Dollars)

| Department or agency | Total | Agriculture | Energy | Environment and natural resources | Health | Transportation | Other ^a |
|-------------------------------------------------------------------|------------|-------------|-----------|-----------------------------------|-----------|----------------|--------------------|
| St. Joseph River Basin Commission | 10,964 | 0 | 0 | 10,964 | 0 | 0 | 0 |
| Transportation, Department of | 7,483,614 | 0 | 0 | 0 | 0 | 7,483,614 | 0 |
| Iowa | 11,277,534 | 0 | 710,522 | 4,279,253 | 0 | 5,829,951 | 457,808 |
| Economic Development Authority, Energy Office | 710,522 | 0 | 710,522 | 0 | 0 | 0 | 0 |
| Human Rights, Criminal and Juvenile Justice Planning, Division of | 457,808 | 0 | 0 | 0 | 0 | 0 | 457,808 |
| Natural Resources, Department of | 4,279,253 | 0 | 0 | 4,279,253 | 0 | 0 | 0 |
| Transportation, Department of | 5,829,951 | 0 | 0 | 0 | 0 | 5,829,951 | 0 |
| Kansas | 5,469,052 | 1,328,784 | 0 | 258,099 | 0 | 3,749,587 | 132,582 |
| State Board of Regents | 132,582 | 0 | 0 | 0 | 0 | 0 | 132,582 |
| Transportation, Department of | 3,749,587 | 0 | 0 | 0 | 0 | 3,749,587 | 0 |
| Water Office | 258,099 | 0 | 0 | 258,099 | 0 | 0 | 0 |
| Wheat Commission | 1,328,784 | 1,328,784 | 0 | 0 | 0 | 0 | 0 |
| Kentucky | 17,256,496 | 378,000 | 2,173,000 | 2,768,100 | 4,534,000 | 6,294,300 | 1,109,096 |
| Early Childhood Development, Governor's Office of | 53,264 | 0 | 0 | 0 | 0 | 0 | 53,264 |
| Economic Development, Cabinet for | 5,450,000 | 228,000 | 506,000 | 216,000 | 4,500,000 | 0 | 0 |
| Education Professional Standards Board | 668,491 | 0 | 0 | 0 | 0 | 0 | 668,491 |
| Energy Development and Independence, Department for | 1,667,000 | 0 | 1,667,000 | 0 | 0 | 0 | 0 |
| Fish and Wildlife Resources, Department of | 2,520,000 | 0 | 0 | 2,520,000 | 0 | 0 | 0 |
| Highways, Department of | 6,294,300 | 0 | 0 | 0 | 0 | 6,294,300 | 0 |
| Horse Racing Commission | 150,000 | 150,000 | 0 | 0 | 0 | 0 | 0 |
| Public Health, Department for | 34,000 | 0 | 0 | 0 | 34,000 | 0 | 0 |
| State Nature Preserves Commission | 32,100 | 0 | 0 | 32,100 | 0 | 0 | 0 |
| Vocational Rehabilitation, Office of | 387,341 | 0 | 0 | 0 | 0 | 0 | 387,341 |
| Louisiana | 32,175,199 | 9,167 | 0 | 21,166,032 | 0 | 11,000,000 | 0 |
| Agriculture and Forestry, Department of | 9,167 | 9,167 | 0 | 0 | 0 | 0 | 0 |
| Coastal Protection and Restoration Authority | 18,116,032 | 0 | 0 | 18,116,032 | 0 | 0 | 0 |
| Transportation and Development, Department of | 11,000,000 | 0 | 0 | 0 | 0 | 11,000,000 | 0 |
| Wildlife and Fisheries, Department of | 3,050,000 | 0 | 0 | 3,050,000 | 0 | 0 | 0 |
| Maine | 12,609,815 | 1,013,206 | 986,000 | 3,129,609 | 2,210,000 | 1,003,000 | 4,268,000 |
| Agriculture, Conservation and Forestry, Department of | 685,927 | 155,706 | 0 | 530,221 | 0 | 0 | 0 |
| Environmental Protection, Department of | 220,000 | 7,500 | 17,000 | 195,500 | 0 | 0 | 0 |
| Governor's Energy Office | 119,000 | 0 | 119,000 | 0 | 0 | 0 | 0 |
| Health and Human Services, Department of | 60,030 | 0 | 0 | 60,030 | 0 | 0 | 0 |
| Inland Fisheries and Wildlife, Department of | 101,759 | 0 | 0 | 101,759 | 0 | 0 | 0 |
| Marine Resources, Department of | 1,902,099 | 0 | 0 | 1,902,099 | 0 | 0 | 0 |
| State Fire Marshal's Office | 18,000 | 0 | 0 | 0 | 0 | 0 | 18,000 |
| Technology Institute | 8,500,000 | 850,000 | 850,000 | 340,000 | 2,210,000 | 0 | 4,250,000 |
| Transportation, Department of | 1,003,000 | 0 | 0 | 0 | 0 | 1,003,000 | 0 |

TABLE 27. State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2015

(Dollars)

| Department or agency | Total | Agriculture | Energy | Environment and natural resources | Health | Transportation | Other ^a |
|----------------------------------------------------|------------|-------------|-----------|-----------------------------------|------------|----------------|--------------------|
| Maryland | 24,852,978 | 200,000 | 200,000 | 3,070,807 | 20,500,000 | 882,171 | 0 |
| Health and Mental Hygiene, Department of | 7,000,000 | 0 | 0 | 0 | 7,000,000 | 0 | 0 |
| Natural Resources, Department of | 2,081,134 | 0 | 0 | 2,081,134 | 0 | 0 | 0 |
| Technology Development Corporation | 14,100,000 | 200,000 | 200,000 | 200,000 | 13,500,000 | 0 | 0 |
| Transportation, Department of | 1,671,844 | 0 | 0 | 789,673 | 0 | 882,171 | 0 |
| Massachusetts | 22,664,539 | 0 | 4,998,471 | 12,416,317 | 5,249,751 | 0 | 0 |
| Clean Energy Center | 4,948,471 | 0 | 4,948,471 | 0 | 0 | 0 | 0 |
| Environmental Protection, Department of | 182,617 | 0 | 0 | 182,617 | 0 | 0 | 0 |
| Fish and Game, Department of | 12,083,700 | 0 | 0 | 12,083,700 | 0 | 0 | 0 |
| Mass Life Science Center | 3,213,698 | 0 | 0 | 0 | 3,213,698 | 0 | 0 |
| Mental Health, Department of | 1,752,150 | 0 | 0 | 0 | 1,752,150 | 0 | 0 |
| Public Health, Department of | 283,903 | 0 | 0 | 0 | 283,903 | 0 | 0 |
| Water Resources Authority | 200,000 | 0 | 50,000 | 150,000 | 0 | 0 | 0 |
| Michigan | 12,675,635 | 3,150,111 | 0 | 4,025,524 | 0 | 5,500,000 | 0 |
| Agriculture and Rural Development, Department of | 3,150,111 | 3,150,111 | 0 | 0 | 0 | 0 | 0 |
| Environmental Quality, Department of | 90,526 | 0 | 0 | 90,526 | 0 | 0 | 0 |
| Natural Resources, Department of | 3,934,998 | 0 | 0 | 3,934,998 | 0 | 0 | 0 |
| Transportation, Department of | 5,500,000 | 0 | 0 | 0 | 0 | 5,500,000 | 0 |
| Minnesota | 21,455,746 | 2,938,310 | 897,117 | 3,562,237 | 2,500,000 | 11,558,082 | 0 |
| Agriculture, Department of | 6,336,162 | 2,938,310 | 897,117 | 2,500,735 | 0 | 0 | 0 |
| Employment and Economic Development, Department of | 2,500,000 | 0 | 0 | 0 | 2,500,000 | 0 | 0 |
| Forest Resources Council | 90,000 | 0 | 0 | 90,000 | 0 | 0 | 0 |
| Pollution Control Agency | 534,262 | 0 | 0 | 534,262 | 0 | 0 | 0 |
| Transportation, Department of | 11,995,322 | 0 | 0 | 437,240 | 0 | 11,558,082 | 0 |
| Mississippi | 780,616 | 0 | 1,739 | 566,320 | 0 | 212,557 | 0 |
| Transportation, Department of | 236,219 | 0 | 1,739 | 21,923 | 0 | 212,557 | 0 |
| Wildlife, Fisheries, and Parks, Department of | 544,397 | 0 | 0 | 544,397 | 0 | 0 | 0 |
| Missouri | 9,806,222 | 830,064 | 0 | 4,861,387 | 48,741 | 4,066,030 | 0 |
| Agriculture, Department of | 813,834 | 813,834 | 0 | 0 | 0 | 0 | 0 |
| Conservation, Department of | 4,319,494 | 0 | 0 | 4,319,494 | 0 | 0 | 0 |
| Health and Senior Services, Department of | 48,741 | 0 | 0 | 0 | 48,741 | 0 | 0 |
| Natural Resources, Department of | 558,123 | 16,230 | 0 | 541,893 | 0 | 0 | 0 |
| Transportation, Department of | 4,066,030 | 0 | 0 | 0 | 0 | 4,066,030 | 0 |
| Montana | 10,362,726 | 4,097,279 | 0 | 3,688,918 | 642,384 | 1,663,000 | 271,145 |
| Agriculture, Department of | 2,143,438 | 2,143,438 | 0 | 0 | 0 | 0 | 0 |
| Environmental Quality, Department of | 310,952 | 0 | 0 | 310,952 | 0 | 0 | 0 |
| Fish, Wildlife and Parks | 2,853,805 | 0 | 0 | 2,853,805 | 0 | 0 | 0 |
| Natural Resources and Conservation, Department of | 385,690 | 0 | 0 | 385,690 | 0 | 0 | 0 |
| Research and Commercialization, Board of | 1,052,000 | 0 | 0 | 138,471 | 642,384 | 0 | 271,145 |

TABLE 27. State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2015

(Dollars)

| Department or agency | Total | Agriculture | Energy | Environment and natural resources | Health | Transportation | Other ^a |
|------------------------------------------------------------------|-------------|-------------|------------|-----------------------------------|-------------|----------------|--------------------|
| Transportation, Department of | 1,663,000 | 0 | 0 | 0 | 0 | 1,663,000 | 0 |
| Wheat and Barley Committee | 1,953,841 | 1,953,841 | 0 | 0 | 0 | 0 | 0 |
| Nebraska | 5,475,420 | 2,725,502 | 0 | 529,071 | 312,977 | 1,810,483 | 97,387 |
| Agriculture, Department of | 377,452 | 377,452 | 0 | 0 | 0 | 0 | 0 |
| Corn Board | 699,960 | 699,960 | 0 | 0 | 0 | 0 | 0 |
| Dry Bean Commission | 153,182 | 153,182 | 0 | 0 | 0 | 0 | 0 |
| Economic Development, Department of | 1,536,378 | 1,097,795 | 0 | 0 | 312,977 | 28,219 | 97,387 |
| Natural Resources, Department of | 529,071 | 0 | 0 | 529,071 | 0 | 0 | 0 |
| Roads, Department of | 1,782,264 | 0 | 0 | 0 | 0 | 1,782,264 | 0 |
| Wheat Board | 397,113 | 397,113 | 0 | 0 | 0 | 0 | 0 |
| Nevada | 3,107,166 | 0 | 0 | 192,802 | 0 | 2,914,364 | 0 |
| Commission on Mineral Resources, Division of Minerals | 100,000 | 0 | 0 | 100,000 | 0 | 0 | 0 |
| Transportation, Department of | 2,914,364 | 0 | 0 | 0 | 0 | 2,914,364 | 0 |
| Wildlife, Department of | 92,802 | 0 | 0 | 92,802 | 0 | 0 | 0 |
| New Hampshire | 1,607,080 | 130,904 | 0 | 331,476 | 0 | 844,700 | 300,000 |
| Agriculture, Markets and Food, Department of | 135,899 | 130,904 | 0 | 4,995 | 0 | 0 | 0 |
| Environmental Services, Department of | 218,981 | 0 | 0 | 218,981 | 0 | 0 | 0 |
| Resources and Economic Development, Department of | 300,000 | 0 | 0 | 0 | 0 | 0 | 300,000 |
| Transportation, Department of | 952,200 | 0 | 0 | 107,500 | 0 | 844,700 | 0 |
| New Jersey | 33,756,028 | 0 | 0 | 2,721,846 | 27,235,340 | 3,798,842 | 0 |
| Brain Injury Research, Commission on | 6,396,368 | 0 | 0 | 0 | 6,396,368 | 0 | 0 |
| Cancer Research, Commission on | 1,500,000 | 0 | 0 | 0 | 1,500,000 | 0 | 0 |
| Environmental Protection, Department of | 2,721,846 | 0 | 0 | 2,721,846 | 0 | 0 | 0 |
| Health, Department of | 10,980,769 | 0 | 0 | 0 | 10,980,769 | 0 | 0 |
| Medical Research and Treatment of Autism, Governor's Council for | 4,784,247 | 0 | 0 | 0 | 4,784,247 | 0 | 0 |
| Spinal Cord Research, Commission on | 3,573,956 | 0 | 0 | 0 | 3,573,956 | 0 | 0 |
| Transportation, Department of | 3,798,842 | 0 | 0 | 0 | 0 | 3,798,842 | 0 |
| New Mexico | 52,302,976 | 28,426,162 | 2,978,000 | 3,348,379 | 11,312,600 | 2,787,035 | 3,450,800 |
| Cultural Affairs, Department of | 1,237,700 | 0 | 0 | 0 | 0 | 0 | 1,237,700 |
| Game and Fish, Department of | 1,000,000 | 0 | 0 | 1,000,000 | 0 | 0 | 0 |
| Higher Education Department | 48,218,100 | 28,338,100 | 2,978,000 | 2,192,100 | 11,287,600 | 1,209,200 | 2,213,100 |
| Miners' Colfax Medical Center | 25,000 | 0 | 0 | 0 | 25,000 | 0 | 0 |
| State Engineer, Water Resource Allocation Program, Office of | 88,062 | 88,062 | 0 | 0 | 0 | 0 | 0 |
| Transportation, Department of | 1,734,114 | 0 | 0 | 156,279 | 0 | 1,577,835 | 0 |
| New York | 365,551,926 | 2,166,324 | 40,787,626 | 21,640,818 | 244,407,831 | 6,850,569 | 49,698,758 |
| Agriculture and Markets, Department of | 3,765,993 | 1,815,993 | 0 | 0 | 1,950,000 | 0 | 0 |
| Economic Development, Department of | 49,698,758 | 0 | 0 | 0 | 0 | 0 | 49,698,758 |
| Energy Research and Development Authority | 48,568,115 | 0 | 39,948,448 | 3,728,990 | 2,160,401 | 2,730,276 | 0 |
| Environmental Conservation, Department of | 5,832,656 | 20,638 | 0 | 5,812,018 | 0 | 0 | 0 |
| Health, Department of | 43,250,554 | 329,693 | 0 | 1,978,159 | 40,942,702 | 0 | 0 |

TABLE 27. State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2015

(Dollars)

| Department or agency | Total | Agriculture | Energy | Environment and natural resources | Health | Transportation | Other ^a |
|-------------------------------------------------------|-------------|-------------|------------|-----------------------------------|-------------|----------------|--------------------|
| Mental Health, Office of | 132,887,190 | 0 | 0 | 0 | 132,887,190 | 0 | 0 |
| People with Developmental Disabilities, Office of | 4,228,430 | 0 | 0 | 0 | 4,228,430 | 0 | 0 |
| Power Authority | 839,178 | 0 | 839,178 | 0 | 0 | 0 | 0 |
| Roswell Park Cancer Institute | 61,800,000 | 0 | 0 | 0 | 61,800,000 | 0 | 0 |
| State Museum | 10,121,651 | 0 | 0 | 10,121,651 | 0 | 0 | 0 |
| Thoroughbred Breeding and Development Fund Corp. | 439,108 | 0 | 0 | 0 | 439,108 | 0 | 0 |
| Transportation, Department of | 4,120,293 | 0 | 0 | 0 | 0 | 4,120,293 | 0 |
| North Carolina | 34,002,384 | 12,050,000 | 1,652,847 | 2,901,909 | 7,966,618 | 5,534,981 | 3,896,029 |
| Agriculture and Consumer Services, Department of | 13,000,000 | 12,000,000 | 1,000,000 | 0 | 0 | 0 | 0 |
| Environmental Quality, Department of | 2,079,756 | 0 | 377,847 | 1,701,909 | 0 | 0 | 0 |
| Science, Technology and Innovation, Office of | 12,037,647 | 0 | 175,000 | 0 | 7,966,618 | 0 | 3,896,029 |
| Transportation, Department of | 6,834,981 | 0 | 100,000 | 1,200,000 | 0 | 5,534,981 | 0 |
| Wine and Grape Growers Council | 50,000 | 50,000 | 0 | 0 | 0 | 0 | 0 |
| North Dakota | 9,611,936 | 2,674,205 | 5,705,731 | 825,000 | 0 | 407,000 | 0 |
| Agriculture, Department of | 244,764 | 244,764 | 0 | 0 | 0 | 0 | 0 |
| Game and Fish, Department of | 825,000 | 0 | 0 | 825,000 | 0 | 0 | 0 |
| Lignite Research Council | 943,377 | 0 | 943,377 | 0 | 0 | 0 | 0 |
| Oil and Gas Research Program | 4,017,199 | 0 | 4,017,199 | 0 | 0 | 0 | 0 |
| Renewable Energy Research Program | 745,155 | 0 | 745,155 | 0 | 0 | 0 | 0 |
| Soybean Council | 1,233,438 | 1,233,438 | 0 | 0 | 0 | 0 | 0 |
| Transportation, Department of | 407,000 | 0 | 0 | 0 | 0 | 407,000 | 0 |
| Wheat Commission | 1,196,003 | 1,196,003 | 0 | 0 | 0 | 0 | 0 |
| Ohio | 94,299,294 | 0 | 11,048,550 | 42,606,559 | 3,246,554 | 10,142,447 | 27,255,184 |
| Development Services Agency | 83,483,581 | 0 | 10,879,447 | 39,802,615 | 2,426,554 | 3,119,781 | 27,255,184 |
| Mental Health and Addiction Services, Department of | 820,000 | 0 | 0 | 0 | 820,000 | 0 | 0 |
| Natural Resources, Department of | 1,201,332 | 0 | 169,103 | 1,032,229 | 0 | 0 | 0 |
| Transportation, Department of | 7,022,666 | 0 | 0 | 0 | 0 | 7,022,666 | 0 |
| Water Development Authority | 1,771,715 | 0 | 0 | 1,771,715 | 0 | 0 | 0 |
| Oklahoma | 29,952,934 | 1,811,266 | 1,625,000 | 5,465,000 | 14,970,721 | 3,817,249 | 2,263,698 |
| Advancement of Science and Technology, Center for the | 10,665,489 | 754,100 | 1,625,000 | 1,205,000 | 4,730,700 | 475,000 | 1,875,689 |
| Agriculture, Food, and Forestry, Department of | 685,666 | 685,666 | 0 | 0 | 0 | 0 | 0 |
| Grand River Dam Authority | 260,000 | 0 | 0 | 260,000 | 0 | 0 | 0 |
| Health, State Department of | 170,570 | 0 | 0 | 0 | 167,561 | 0 | 3,009 |
| Human Services, Department of | 385,000 | 0 | 0 | 0 | 0 | 0 | 385,000 |
| Sorghum Commission | 45,000 | 45,000 | 0 | 0 | 0 | 0 | 0 |
| Tobacco Settlement Endowment Trust | 10,072,460 | 0 | 0 | 0 | 10,072,460 | 0 | 0 |
| Transportation, Department of | 3,342,249 | 0 | 0 | 0 | 0 | 3,342,249 | 0 |
| Wheat Commission | 326,500 | 326,500 | 0 | 0 | 0 | 0 | 0 |
| Wildlife Conservation, Department of | 4,000,000 | 0 | 0 | 4,000,000 | 0 | 0 | 0 |

TABLE 27. State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2015

(Dollars)

| Department or agency | Total | Agriculture | Energy | Environment and natural resources | Health | Transportation | Other ^a |
|---------------------------------------------------|------------|-------------|-----------|-----------------------------------|------------|----------------|--------------------|
| Oregon | 31,990,073 | 372,579 | 7,467,172 | 18,412,322 | 1,000,000 | 2,938,000 | 1,800,000 |
| Agriculture, Department of | 190,591 | 172,579 | 0 | 18,012 | 0 | 0 | 0 |
| Business Development Department | 10,650,000 | 200,000 | 6,900,000 | 0 | 1,000,000 | 750,000 | 1,800,000 |
| Energy, Department of | 557,172 | 0 | 557,172 | 0 | 0 | 0 | 0 |
| Environmental Quality, Department of | 10,000 | 0 | 10,000 | 0 | 0 | 0 | 0 |
| Fish and Wildlife, Department of | 17,093,348 | 0 | 0 | 17,093,348 | 0 | 0 | 0 |
| Forestry, Department of | 871,221 | 0 | 0 | 871,221 | 0 | 0 | 0 |
| Transportation, Department of | 2,188,000 | 0 | 0 | 0 | 0 | 2,188,000 | 0 |
| Water Resources Department | 125,000 | 0 | 0 | 125,000 | 0 | 0 | 0 |
| Watershed Enhancement Board | 304,741 | 0 | 0 | 304,741 | 0 | 0 | 0 |
| Pennsylvania | 75,024,127 | 787,000 | 2,156,564 | 9,129,370 | 52,398,628 | 2,438,279 | 8,114,286 |
| Agriculture, Department of | 787,000 | 787,000 | 0 | 0 | 0 | 0 | 0 |
| Community and Economic Development, Department of | 18,050,000 | 0 | 2,100,000 | 35,714 | 7,900,000 | 200,000 | 7,814,286 |
| Conservation and Natural Resources, Department of | 163,856 | 0 | 0 | 163,856 | 0 | 0 | 0 |
| Education, Department of | 35,000 | 0 | 0 | 0 | 0 | 0 | 35,000 |
| Energy Development Authority | 24,974 | 0 | 24,974 | 0 | 0 | 0 | 0 |
| Environmental Protection, Department of | 2,390,366 | 0 | 0 | 2,125,366 | 0 | 0 | 265,000 |
| Fish and Boat Commission | 150,670 | 0 | 0 | 150,670 | 0 | 0 | 0 |
| Game Commission | 6,731,990 | 0 | 31,590 | 5,731,470 | 968,930 | 0 | 0 |
| Health, Department of | 43,529,698 | 0 | 0 | 0 | 43,529,698 | 0 | 0 |
| Susquehanna River Basin Commission | 922,294 | 0 | 0 | 922,294 | 0 | 0 | 0 |
| Transportation, Department of | 2,238,279 | 0 | 0 | 0 | 0 | 2,238,279 | 0 |
| Rhode Island | 2,594,978 | 0 | 1,200 | 869,042 | 179,946 | 1,436,793 | 107,997 |
| Atomic Energy Commission | 1,200 | 0 | 1,200 | 0 | 0 | 0 | 0 |
| Commerce Corporation | 1,101,985 | 0 | 0 | 814,042 | 179,946 | 0 | 107,997 |
| Transportation, Department of | 1,436,793 | 0 | 0 | 0 | 0 | 1,436,793 | 0 |
| Water Resources Board | 55,000 | 0 | 0 | 55,000 | 0 | 0 | 0 |
| South Carolina | 27,419,285 | 498,748 | 163,885 | 23,516,239 | 152,441 | 2,160,647 | 927,325 |
| Agriculture, Department of | 498,748 | 498,748 | 0 | 0 | 0 | 0 | 0 |
| Commerce, Department of | 78,500 | 0 | 0 | 0 | 0 | 0 | 78,500 |
| Mental Health, Department of | 100,884 | 0 | 0 | 0 | 100,884 | 0 | 0 |
| Natural Resources, Department of | 22,199,381 | 0 | 0 | 22,199,381 | 0 | 0 | 0 |
| Research Authority | 1,619,056 | 0 | 163,885 | 249,097 | 51,557 | 305,692 | 848,825 |
| Sea Grant Consortium | 1,067,761 | 0 | 0 | 1,067,761 | 0 | 0 | 0 |
| Transportation, Department of | 1,854,955 | 0 | 0 | 0 | 0 | 1,854,955 | 0 |
| South Dakota | 4,211,838 | 2,928,142 | 26,862 | 20,000 | 0 | 1,236,834 | 0 |
| Corn Utilization Council | 1,154,000 | 1,154,000 | 0 | 0 | 0 | 0 | 0 |
| Oilseeds Council | 45,000 | 45,000 | 0 | 0 | 0 | 0 | 0 |
| Pork Producers Council | 15,000 | 15,000 | 0 | 0 | 0 | 0 | 0 |
| Science and Technology Authority | 26,862 | 0 | 26,862 | 0 | 0 | 0 | 0 |
| Soybean Research and Promotion Council | 1,176,375 | 1,176,375 | 0 | 0 | 0 | 0 | 0 |

TABLE 27. State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2015

(Dollars)

| Department or agency | Total | Agriculture | Energy | Environment and natural resources | Health | Transportation | Other ^a |
|---------------------------------------------------------------------------------------|-------------|-------------|-----------|-----------------------------------|-------------|----------------|--------------------|
| Transportation, Department of | 1,256,834 | 0 | 0 | 20,000 | 0 | 1,236,834 | 0 |
| Weed and Pest Control Commission | 37,767 | 37,767 | 0 | 0 | 0 | 0 | 0 |
| Wheat Commission | 500,000 | 500,000 | 0 | 0 | 0 | 0 | 0 |
| Tennessee | 3,828,567 | 0 | 0 | 571,871 | 0 | 3,256,696 | 0 |
| Environment and Conservation, Department of | 259,299 | 0 | 0 | 259,299 | 0 | 0 | 0 |
| Geological Survey | 312,572 | 0 | 0 | 312,572 | 0 | 0 | 0 |
| Transportation, Department of | 3,256,696 | 0 | 0 | 0 | 0 | 3,256,696 | 0 |
| Texas | 185,094,332 | 808,544 | 0 | 14,491,269 | 149,991,410 | 19,803,109 | 0 |
| Agriculture, Department of | 761,154 | 761,154 | 0 | 0 | 0 | 0 | 0 |
| Cancer Prevention and Research Institute | 145,241,410 | 0 | 0 | 0 | 145,241,410 | 0 | 0 |
| Council on Alzheimer's Disease | 4,750,000 | 0 | 0 | 0 | 4,750,000 | 0 | 0 |
| Environmental Quality, Commission on | 1,000,000 | 0 | 0 | 1,000,000 | 0 | 0 | 0 |
| Parks and Wildlife Department | 10,901,637 | 0 | 0 | 10,901,637 | 0 | 0 | 0 |
| Transportation, Department of | 19,803,109 | 0 | 0 | 0 | 0 | 19,803,109 | 0 |
| Water Development Board | 2,637,022 | 47,390 | 0 | 2,589,632 | 0 | 0 | 0 |
| Utah | 38,168,197 | 2,035,321 | 4,835,743 | 18,245,765 | 8,531,383 | 1,470,900 | 3,049,085 |
| Agriculture and Food, Department of | 431,198 | 431,198 | 0 | 0 | 0 | 0 | 0 |
| Economic Development | 2,107,486 | 0 | 782,000 | 315,000 | 1,010,486 | 0 | 0 |
| Natural Resources, Department of | 17,100,000 | 0 | 0 | 17,100,000 | 0 | 0 | 0 |
| Science Technology and Research Initiative, Governor's Office of Economic Development | 17,058,613 | 1,604,123 | 4,053,743 | 830,765 | 7,520,897 | 0 | 3,049,085 |
| Transportation, Department of | 1,470,900 | 0 | 0 | 0 | 0 | 1,470,900 | 0 |
| Vermont | 2,199,082 | 407,694 | 239,382 | 90,683 | 252,706 | 793,005 | 415,612 |
| Agriculture, Food, and Markets, Agency of | 582,420 | 407,694 | 116,484 | 58,242 | 0 | 0 | 0 |
| Economic Development Authority | 515,612 | 0 | 0 | 0 | 100,000 | 0 | 415,612 |
| Human Services, Agency of | 152,706 | 0 | 0 | 0 | 152,706 | 0 | 0 |
| Natural Resources, Agency of | 32,441 | 0 | 0 | 32,441 | 0 | 0 | 0 |
| Public Service Department | 122,898 | 0 | 122,898 | 0 | 0 | 0 | 0 |
| Transportation, Agency of | 793,005 | 0 | 0 | 0 | 0 | 793,005 | 0 |
| Virginia | 43,615,877 | 1,120,676 | 6,263,600 | 9,600,341 | 6,250,104 | 17,554,526 | 2,826,630 |
| Aging and Rehabilitation, Department of | 29,628 | 0 | 0 | 0 | 0 | 0 | 29,628 |
| Agriculture and Consumer Services, Department of | 1,075,676 | 1,075,676 | 0 | 0 | 0 | 0 | 0 |
| Commonwealth Health Research Board | 892,552 | 0 | 0 | 0 | 892,552 | 0 | 0 |
| Environmental Quality, Department of | 2,308,956 | 0 | 0 | 2,308,956 | 0 | 0 | 0 |
| Forensic Science, Department of | 271,000 | 0 | 0 | 0 | 0 | 0 | 271,000 |
| Forestry, Department of | 400,904 | 0 | 0 | 400,904 | 0 | 0 | 0 |
| Foundation for Healthy Youth | 640,933 | 0 | 0 | 0 | 640,933 | 0 | 0 |
| Game and Inland Fisheries, Department of | 1,689,294 | 0 | 0 | 1,689,294 | 0 | 0 | 0 |
| General Services, Department of | 55,000 | 45,000 | 0 | 0 | 10,000 | 0 | 0 |
| Innovative Technology, Center for | 3,914,000 | 0 | 450,000 | 0 | 1,500,000 | 0 | 1,964,000 |
| Marine Resources Commission | 2,226,921 | 0 | 0 | 2,226,921 | 0 | 0 | 0 |

TABLE 27. State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2015

(Dollars)

| Department or agency | Total | Agriculture | Energy | Environment and natural resources | Health | Transportation | Other ^a |
|-----------------------------------------------------------|------------|-------------|-----------|-----------------------------------|-----------|----------------|--------------------|
| Mines, Minerals and Energy, Department of | 2,192,061 | 0 | 1,062,540 | 1,129,521 | 0 | 0 | 0 |
| Natural History, Museum of | 650,570 | 0 | 0 | 650,570 | 0 | 0 | 0 |
| Social Services, Department of | 35,000 | 0 | 0 | 0 | 0 | 0 | 35,000 |
| Tobacco Region Revitalization Commission | 9,678,856 | 0 | 4,751,060 | 1,194,175 | 3,206,619 | 0 | 527,002 |
| Transportation, Department of | 17,554,526 | 0 | 0 | 0 | 0 | 17,554,526 | 0 |
| Washington | 36,918,558 | 10,120,251 | 0 | 9,698,425 | 8,364,171 | 5,450,000 | 3,285,711 |
| Agriculture, Department of | 2,500,896 | 2,500,896 | 0 | 0 | 0 | 0 | 0 |
| Alfalfa Seed Commission | 34,000 | 34,000 | 0 | 0 | 0 | 0 | 0 |
| Archaeology and Historic Preservation, Department of | 378,127 | 0 | 0 | 0 | 0 | 0 | 378,127 |
| Asparagus Commission | 62,000 | 62,000 | 0 | 0 | 0 | 0 | 0 |
| Beef Commission | 15,000 | 15,000 | 0 | 0 | 0 | 0 | 0 |
| Blueberry Commission | 150,000 | 150,000 | 0 | 0 | 0 | 0 | 0 |
| Cranberry Commission | 15,152 | 15,152 | 0 | 0 | 0 | 0 | 0 |
| Dairy Products Commission | 107,675 | 107,675 | 0 | 0 | 0 | 0 | 0 |
| Dry Pea and Lentil Commission | 262,570 | 262,570 | 0 | 0 | 0 | 0 | 0 |
| Ecology, Department of | 1,054,265 | 0 | 0 | 1,054,265 | 0 | 0 | 0 |
| Fish and Wildlife, Department of | 4,936,117 | 0 | 0 | 4,936,117 | 0 | 0 | 0 |
| Fruit Commission | 15,000 | 15,000 | 0 | 0 | 0 | 0 | 0 |
| Grain Commission | 2,391,171 | 2,391,171 | 0 | 0 | 0 | 0 | 0 |
| Hop Commission | 167,528 | 167,528 | 0 | 0 | 0 | 0 | 0 |
| Labor and Industries, Department of | 2,907,584 | 0 | 0 | 0 | 0 | 0 | 2,907,584 |
| Life Sciences Discovery Fund | 8,364,171 | 0 | 0 | 0 | 8,364,171 | 0 | 0 |
| Mint Commission | 24,147 | 24,147 | 0 | 0 | 0 | 0 | 0 |
| Natural Resources, Department of | 3,149,971 | 0 | 0 | 3,149,971 | 0 | 0 | 0 |
| Oilseeds Commission | 9,000 | 9,000 | 0 | 0 | 0 | 0 | 0 |
| Pesticide Registration, Commission of | 385,113 | 385,113 | 0 | 0 | 0 | 0 | 0 |
| Potato Commission | 854,111 | 854,111 | 0 | 0 | 0 | 0 | 0 |
| Puget Sound Partnership | 558,072 | 0 | 0 | 558,072 | 0 | 0 | 0 |
| Red Raspberry Commission | 268,388 | 268,388 | 0 | 0 | 0 | 0 | 0 |
| Seed Potato Commission | 20,000 | 20,000 | 0 | 0 | 0 | 0 | 0 |
| Transportation, Department of | 5,450,000 | 0 | 0 | 0 | 0 | 5,450,000 | 0 |
| Tree Fruit Research Commission | 2,640,000 | 2,640,000 | 0 | 0 | 0 | 0 | 0 |
| Turfgrass Commission | 23,500 | 23,500 | 0 | 0 | 0 | 0 | 0 |
| Wine Commission | 175,000 | 175,000 | 0 | 0 | 0 | 0 | 0 |
| West Virginia | 11,481,903 | 0 | 820,450 | 313,483 | 200,000 | 2,193,922 | 7,954,048 |
| Geological and Economic Survey | 3,084,623 | 0 | 820,450 | 233,487 | 0 | 0 | 2,030,686 |
| Higher Education Policy Commission | 6,189,639 | 0 | 0 | 79,996 | 200,000 | 0 | 5,909,643 |
| Justice and Community Services, Division of | 13,719 | 0 | 0 | 0 | 0 | 0 | 13,719 |
| Transportation, Department of | 2,193,922 | 0 | 0 | 0 | 0 | 2,193,922 | 0 |
| Wisconsin | 14,517,671 | 841,890 | 30,000 | 7,569,100 | 840,000 | 3,106,681 | 2,130,000 |
| Agriculture, Trade and Consumer Protection, Department of | 841,890 | 841,890 | 0 | 0 | 0 | 0 | 0 |
| Economic Development Corporation | 3,000,000 | 0 | 30,000 | 0 | 840,000 | 0 | 2,130,000 |

TABLE 27. State agency expenditures for R&D, by state, department or agency, and function of R&D: FY 2015

(Dollars)

| Department or agency | Total | Agriculture | Energy | Environment and natural resources | Health | Transportation | Other ^a |
|-----------------------------------------------------------------------|-----------|-------------|---------|-----------------------------------|-----------|----------------|--------------------|
| Natural Resources, Department of | 7,569,100 | 0 | 0 | 7,569,100 | 0 | 0 | 0 |
| Transportation, Department of | 3,106,681 | 0 | 0 | 0 | 0 | 3,106,681 | 0 |
| Wyoming | 5,160,617 | 0 | 349,552 | 3,824,884 | 0 | 986,181 | 0 |
| Agriculture, Department of | 100,000 | 0 | 0 | 100,000 | 0 | 0 | 0 |
| Enhanced Oil Recovery Commission | 250,000 | 0 | 250,000 | 0 | 0 | 0 | 0 |
| Game and Fish Department | 1,826,682 | 0 | 0 | 1,826,682 | 0 | 0 | 0 |
| State Engineer, Office of | 80,000 | 0 | 0 | 80,000 | 0 | 0 | 0 |
| State Geological Survey | 248,879 | 0 | 99,552 | 149,327 | 0 | 0 | 0 |
| Transportation, Department of | 986,181 | 0 | 0 | 0 | 0 | 986,181 | 0 |
| Water Development Commission | 468,875 | 0 | 0 | 468,875 | 0 | 0 | 0 |
| Wildlife and Natural Resources Trust | 1,200,000 | 0 | 0 | 1,200,000 | 0 | 0 | 0 |
| Puerto Rico ^c | 5,673,544 | 683,157 | 400,000 | 150,000 | 3,123,280 | 560,000 | 757,107 |
| Agriculture, Department of ^d | 649,048 | 649,048 | 0 | 0 | 0 | 0 | 0 |
| Health, Department of | 165,922 | 0 | 0 | 0 | 165,922 | 0 | 0 |
| Highways and Transportation Authority | 560,000 | 0 | 0 | 0 | 0 | 560,000 | 0 |
| Hospital San Juan ^{d,e} | 2,000,000 | 0 | 0 | 0 | 2,000,000 | 0 | 0 |
| Institute of Statistics | 568,480 | 34,109 | 0 | 0 | 96,642 | 0 | 437,729 |
| Manufacturing Extension, Incorporated ^d | 319,378 | 0 | 0 | 0 | 0 | 0 | 319,378 |
| Mental Health and Anti-Addiction Services Administration ^d | 410,716 | 0 | 0 | 0 | 410,716 | 0 | 0 |
| Natural Resources, Department of | 100,000 | 0 | 0 | 100,000 | 0 | 0 | 0 |
| Science, Technology and Research Trust ^d | 900,000 | 0 | 400,000 | 50,000 | 450,000 | 0 | 0 |

^a Other functions include, but are not limited to, corrections, criminal justice, education, forensic science, labor, public safety, and social services.

^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 2014 and 2015.

Appendix A. Technical Notes

Survey Overview (FYs 2014 and 2015 Survey of State Government Research and Development)

Purpose. The Survey of State Government Research and Development is the only source for comprehensive uniform statistics regarding the extent of R&D activity performed and funded by departments and agencies in each of the nation's 50 state governments, the government of the District of Columbia, and the government of Puerto Rico.

Data collection authority. The information is solicited under the National Science Foundation Act of 1950, as amended; the America COMPETES Reauthorization Act of 2010; and Title 13, United States Code, § 8(b). It is collected under Office of Management and Budget control number 0607-0933, expiration date 31 May 2016.

Survey contractor. U.S. Census Bureau, under National Science Foundation interagency agreement number NCSE-1546582, collected, processed, and tabulated the statistics in this report.

Survey sponsor. The National Center for Science and Engineering Statistics (NCSES) within the National Science Foundation.

Key Survey Information

Frequency. Biennial.

Initial survey year. 2006.

Reference period. State governments' fiscal years ending in 2014 and 2015.

Response unit. State government departments, agencies, commissions, public authorities, institutions, and other entities that operate separately or somewhat autonomously from the central state government—but where the state government maintains administrative or fiscal control over their activities—with the capacity to perform or fund R&D; units are collectively referred to as *agencies*.

Sample or census. Census.

Population size. The population comprised 643 agencies from the 50 state governments, the District of Columbia, and Puerto Rico with the capacity to perform or fund R&D during FY 2014 or FY 2015.

Sample size. Not applicable.

Survey Design

Target population. State government departments, agencies, commissions, public authorities, institutions, and other entities that operate separately or somewhat autonomously from the central state government but where the state government maintains administrative or fiscal control over their activities, as defined by the [U.S. Census Bureau Government Finance and Employment Classification Manual](#) (see chapter 1), and which funded or performed R&D for state government fiscal years ending in 2014 or 2015. Several industry-specific state commissions, which are generally chartered by state legislatures but are administered independently, are considered state agencies and included in the survey's population. State-run colleges and universities, which are canvassed as part of NCSES's Higher Education Research and Development (HERD) Survey, are excluded from the survey frame. State-run laboratories or experiment stations controlled by state universities are also excluded from the respondent universe, as are any entities

determined to be nonprofit or private, as defined by the Census Bureau government classification criteria. However, because agricultural experiment stations in Connecticut are legally organized as a state government–dependent agency and are not affiliated with any university system, they are included in the survey’s population.

Sample frame. The total universe includes all state government-dependent units, including those for the District of Columbia and Puerto Rico, with the capacity to perform and fund R&D, identified with the aid of a state coordinator who is appointed by the governor of each state.

Sample design. The Survey of State Government Research and Development is a census. For the FYs 2014–15 survey, state coordinators were provided with a list of agencies that were previously identified as having the potential to perform or fund R&D from the FYs 2012–13 survey cycle. In addition, these lists included agencies identified from a systematic review of state session laws and additional review of agencies reporting to the Census Bureau’s [Census of Governments](#) program by Census Bureau and NCSSES staffs. Coordinators were asked to review this list and add agencies that they believed were involved with R&D and were not already identified. State coordinators also made adjustments to the agency universe to remove agencies that have never had any qualifying R&D to report to NCSSES, to address organizational changes within their respective states since the previous survey, and to provide updated agency contact information.

Data Collection and Processing Methods

Data collection. On 7 November 2015, a letter was sent to the office of each state governor, as well as to the governor of Puerto Rico and the mayor of the District of Columbia, asking them to appoint a state coordinator who would provide updates to the universe of state government-dependent agencies that had the capacity to perform or fund R&D during FY 2014 or FY 2015. State coordinators were sent a spreadsheet of agencies and contacts that were surveyed for the FYs 2012–13 Survey of State Government R&D and asked to add state-dependent agencies that might have some R&D, remove any agencies from the survey universe that no longer perform or fund R&D or have been reorganized, and update agency points of contact. Once the state coordinators completed updates to the list of active agencies to be surveyed, they then initiated introductory e-mails to the agency respondents to log in and complete the survey. State government agency respondents would log in to a secure, Web-based survey instrument and complete the questionnaire. Upon completion by all agencies within a state, the state coordinators were provided with a spreadsheet of agency responses to review the survey results before they were provided to NCSSES for final analysis and dissemination.

Mode. Self-administered online questionnaire for state agency respondents. State coordinators were provided with a spreadsheet of potential state agencies and contact information to review and revise as necessary to add agencies to be surveyed, remove others from the survey as inactive, or make corrections to agency points of contact.

Response rates. Two response rates were calculated for the FYs 2014–15 Survey of State Government R&D: one for official data verification at the state level, and one for agency-level respondents. Table A-1 presents final agency response rates and also counts of agencies that identified themselves as having qualifying R&D expenditures on the FYs 2012–13 survey.

TABLE A-1. Final response rates and agencies reporting R&D to the survey: FYs 2014–15

| Agencies selected | Agencies surveyed | Responses | | R&D reported | |
|-------------------|-------------------|-----------|----------|--------------|---------------|
| | | Agencies | Rate (%) | Agencies | Responses (%) |
| All agencies | 643 | 618 | 96.1 | 375 | 60.7 |
| Preselected | 394 | 384 | 97.5 | 277 | 72.1 |
| Added | 249 | 234 | 94.0 | 98 | 41.9 |

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, Survey of State Government Research and Development, FYs 2014 and 2015.

- All 50 state governments, the District of Columbia, and Puerto Rico participated in the survey; however, only 13 of 52 (25.0%) state coordinators officially verified the final aggregate state data. Those states where the coordinator did not verify data officially had some or all agencies submit data. The states of Alaska, Georgia, Illinois, Louisiana, Nevada, South Carolina, Tennessee, Texas, and the District of Columbia did not appoint a coordinator.
- The final agency response was 618 of 643 agencies (96.1%). The following agencies failed to respond to the survey and, as a result, may contribute to an undercount in their states' public expenditures for R&D activities: Alaska Department of Commerce, Community, and Economic Development; Alaska Seafood Marketing Institute; Alaska Department of Health and Social Services; Alaska Aerospace Development Corporation; and Alaska Housing Finance Corporation; Connecticut Department of Children and Families and Department of Education; Georgia Department of Behavioral Health and Developmental Disabilities; Illinois Smart Grid Advisory Council; Kentucky Office of Homeland Security and Department of Military Affairs; Louisiana Department of Education and River Region Cancer Screening and Early Detection Center; Massachusetts Technology Development Corporation; Michigan Economic Development Corporation; Nevada Department of Education and Department of Health and Human Services; New Mexico Department of Information Technology; Oregon Department of Human Services and Department of Geology and the Mineral Industries; Tennessee Department of Community and Economic Development; Texas Department of State Health Services; Utah Dairy Council of Utah and Nevada; and Wyoming Department of Employment, Research, and Planning and Department of Workforce Services. Of the 618 agencies that responded, 375 (60.7%) reported having some R&D activity in FY 2014 or FY 2015.

Data editing. Before officially submitting the data for their state, coordinators were asked to perform a final verification of aggregated agency data. All responses, including the initial agency data submissions and final state coordinator verifications, were received via the Web-based survey. Basic logical edit checks, review of respondent comments, and comparisons of data from previous surveys allowed Census Bureau and NCSSES staff to detect data errors and work with state respondents to correct them. Census Bureau and NCSSES staff also conducted follow-up calls to agencies with data changes of plus or minus 50% and at least \$1 million in R&D between FY 2014 and FY 2015 to ensure the accuracy of the survey data.

Imputation. Given the high agency response rate and likely low bias, no statistical methods were used to account for nonresponding agencies. All state and national totals are aggregates of reported agency data. Each state government's organizational structure, laws, and delegation of powers within its purview are unique. Therefore, there are no formal methods of imputation to account for these structural differences, which are consistent with basic statistical methods.

Weighting. Not applicable.

Variance estimation. Not applicable.

Survey Quality Measures

Sampling error. Not applicable.

Coverage error. In addition to a Census Bureau review of state session laws to identify agencies with the capacity to fund R&D, NCSSES utilizes the expertise of an appointed state coordinator to assist in identifying state government agencies that have the capacity to perform or fund R&D. State coordinators are also offered the opportunity to review survey responses from their respective state agencies before results were finalized for data release. In cases where the state coordinator refused to cooperate, or where some agencies failed to respond to the survey, it is possible there may be an undercount of state government R&D activities, despite efforts by NCSSES and Census Bureau staffs to conduct additional queries and outreach with state agencies in lieu of an appointed state coordinator. In other instances, the appointed state coordinator could misinterpret the survey definition and examples of qualifying R&D activities and thus fail to identify all state government-dependent units with the capacity to perform or fund R&D.

Nonresponse error. Of the 643 agencies in the survey universe, 618 (96.1%) responded to the survey. Of the 618 respondents, 375 (60.7%) reported having R&D activities in FY 2014 or FY 2015. No statistical methods were used to account for nonresponding agencies.

Measurement error. The most common form of nonsampling error may be found in the respondents' interpretation of the survey definition of qualifying R&D activities. To mitigate any potential misinterpretations several steps were taken. NCSSES provided a series of examples specific to the types of activities performed or funded by state government agencies in the survey questionnaire's definitions and examples. Before officially submitting data, state coordinators performed a final verification of aggregated agency data. All responses, including the initial agency data submissions and final state coordinator verifications, were received via the Web form or e-mail. Census Bureau staff performed basic logical edit checks and reviewed respondent comments, allowing staff to detect errors and work with state respondents to correct them. Despite these efforts, some of the data reported could include expenditures for non-R&D activities, such as commercialization, environmental testing, or routine survey or monitoring work.

Data Comparability (Changes)

State government R&D totals can display considerable volatility between survey cycles. For example, state agency expenditures are influenced by several national and state-specific factors, and large changes (either increases or decreases) are not unusual, especially for discretionary spending items such as R&D. States often will create special funds to support specific research activities for a limited time. These funds may have a one-time appropriation from the legislature and expire within 2–5 fiscal years; state agencies obligate those funds for specific R&D projects, depending on availability and expiration of funding authority as well as other program-specific and administrative considerations. Data reported are agency direct expenditures for R&D in a given fiscal year, not obligations; as such, in the case of multiyear grants to extramural performers, an agency's expenditures for that fiscal year may be greater than its obligations because expenditures may include spending from the previous year's appropriations, depending on the specific budget authority granted by the legislature. Given that state governments have comparatively little experience in tracking and measuring R&D specifically, it is likely that some portion of the reported changes reflects measurement and coverage errors. In the case of R&D funds for

extramural performers, some agencies were able to report only obligations made in a given fiscal year and were not able to provide detailed expenditures for each fiscal year.

The survey asked about state agencies' expenditures for R&D as of the end of FY 2014 and of FY 2015. Most states have a fiscal-year period that begins 1 July and ends the following 30 June. For example, FY 2015 is the state fiscal period beginning on 1 July 2014 and ending on 30 June 2015. There are, however, four exceptions to the 30 June fiscal-year end: New York (ends 31 March), Texas (ends 31 August), Alabama (ends 30 September), and Michigan (ends 30 September). Puerto Rico's fiscal year begins 1 July and ends on 30 June, whereas the District of Columbia follows the federal government fiscal year, which ends on 30 September. For comparability, all states, the District of Columbia, and Puerto Rico are surveyed at the same time.

A state's R&D priorities may be shaped by the state's unique legislative and budgeting processes. State budget practices vary considerably due to both political and historical reasons. Nineteen states enact biennial budgets. Of these states, Montana, Nevada, North Dakota, and Texas have both biennial legislative sessions and biennial budgets. The remaining 15 states of Connecticut, Hawaii, Indiana, Kentucky, Maine, Minnesota, Nebraska, New Hampshire, North Carolina, Ohio, Oregon, Virginia, Washington, Wisconsin, and Wyoming hold annual legislative sessions but maintain biennial budgeting. Only North Dakota and Wyoming enact consolidated 2-year budgets; other biennial budget states enact two annual budgets at one time. As such, the nature of a state's budget priorities for R&D may be determined on a biennial basis in some states; in others, however, it may be determined on an annual basis. In states with biennial budgets, the legislatures will often make supplemental appropriations to the second-year budget, which may result in further changes to the initial funding priorities.

The data exclude R&D expenditures by state governments that did not flow through state agencies' budgets. The state totals do not include direct appropriations from state legislatures to colleges and universities. For FY 2015, universities and colleges reported expending \$3.8 billion on separately budgeted R&D activities that were funded from all sources of state and local government support (see the HERD Survey). For FY 2015, state agencies reported \$951 million in expenditures used to support R&D performance by academic institutions. A major factor for the difference between totals reported in NCSSES's HERD Survey and the Survey of State Government R&D is direct appropriations or grants to state-run universities that are included in the former but not in the latter. Another likely factor is the exclusion of R&D at agricultural experiment stations from the state survey totals because they are generally associated with land-grant colleges and universities and are canvassed on the HERD Survey.

Direct comparison of state agency expenditures should also be viewed with caution because state governments often reorganize departments and agencies such that some divisions and offices that were part of one agency may be moved to another agency. In other instances, entire departments may be reorganized into newly created departments. Although the FYs 2014–15 Survey of State Government R&D encountered several instances of these organizational changes in several states, the survey itself is not designed to measure specific changes in state government organization. To account for these and other changes in the data, Census Bureau and NCSSES staff conducted follow-up calls for agencies with data changes of plus or minus 50% and at least \$1 million between FY 2014 and FY 2015 to ensure the accuracy of the survey data.

Data specific to state government agencies were first released with the FY 2009 survey results and are also included in the FYs 2014–15 detailed statistical tables (DSTs). Since the FYs 2014–15 Survey of State Government R&D collected two fiscal years of data at once, some agencies only had qualifying R&D activities in one of those two years. In these cases, the agency is presented only in the DSTs where

the agency had R&D for that specific fiscal year. Specific agency-level data for FY 2006 and FY 2007 are not available.

The current Survey of State Government R&D has been conducted for FY 2006, FY 2007, FY 2009, FYs 2010–11, FYs 2012–13, and FYs 2014–15. (No survey was conducted for state governments' FY 2008.) Data presented in trend tables in this report are from the most recently completed survey cycle, which canvassed two fiscal years (FYs 2014–15) as part of the same survey cycle. References to prior-year data should be restricted to those published in this report for two reasons: (1) when completing the current year's survey, survey respondents may revise their prior year's data; and (2) NCSSES reviews data for prior years for consistency with current-year responses and, if necessary, may revise these data in consultation with respondents.

For FY 1995, FY 1988, and FY 1987, data collections of state government R&D were conducted by nonfederal organizations that were supported by NSF grants. Prior to those efforts, NSF collected state government R&D data for FY 1977, FY 1973, FY 1972, FY 1967, FY 1968, FY 1965, and FY 1964 in collaboration with the U.S. Census Bureau's Census of Governments and related programs. As a result of differences in the survey populations, in definitions of covered R&D activities, and in collection methods over time, the results of these historical surveys are not comparable with the statistics collected for the FY 2006 and subsequent Surveys of State Government R&D.

Changes in survey coverage and/or population. Each year, state coordinators update the universe of agencies most likely to have funded or performed R&D based on changes in funding authority, organization changes within the government, or other initiatives by the legislature. No survey was conducted for state governments' FY 2008. Beginning with the FY 2009 survey cycle, state coordinators were no longer able to overwrite the aggregate R&D data reported by state agencies to correct or modify the state total. Any changes or revisions were now required to be made at the state government agency level.

Changes in questionnaire.

- FY 2009. The FY 2009 questionnaire changed from the 2007 version to collect state government R&D activities by governmental functions of agriculture, environment and natural resources, health, transportation, and other.
- FYs 2010 and 2011. The survey was reorganized as a biennial survey and collected two fiscal years of data on one questionnaire. In addition, the energy category was added to the list of specific government functions of R&D.
- FYs 2012 and 2013. A minor change to the instructions in question 1 for extramural performers was made from "R&D done for your department/agency" to "R&D funded by your department/agency" to ensure that all R&D-related projects that the agency funds regardless of the end result (i.e., grants) were properly included.
- FYs 2014 and 2015. The survey was revised to collect additional detail about R&D funding and performance to better align with the Organisation for Economic Co-operation and Development (OECD) 2002 Frascati Manual, the most recent edition available at survey launch. These changes include source of funds for extramural R&D performance supported by federal funds, state funds, or other funds. For all federal funds received for both intramural and extramural R&D, respondents were asked how much was received from specific federal agencies. For intramural R&D performance, respondents were asked how much of federal and

state and other funding was classified as basic research, applied research, or experimental development.

Changes in reporting procedures or classification. None.

Definitions

Applied research. Research conducted to gain the knowledge or understanding to meet a specific, recognized need.

Basic research. Research undertaken primarily to acquire new knowledge without any particular application or use in mind.

Construction and acquisition of facilities used primarily for R&D. Includes major costs for construction and purchase of buildings to be used primarily as R&D facilities; also includes new construction, major renovations, and purchase of land or buildings.

Experimental development. The systematic use of knowledge or understanding gained from research directed toward the production of useful materials, devices, systems, or methods, including the design and development of prototypes and processes.

Performers, extramural. Those outside the department or agency who perform R&D under the administrative oversight or control of that department or agency. This may include projects for the department or agency as well as the department's or agency's extramural research programs. Extramural performers include the following:

- *Academic institutions.* Public or private universities and colleges.
- *Companies and individuals.* Include those performers under contract for research projects or that received grants for research projects.
- *Other.* Nonprofit organizations, including foundations; other departments or agencies within the state; other state governments; county, municipal, township, or other local governments; federal government.

Performers, intramural. Department's or agency's own employees who perform R&D, which includes R&D performed by those employees and services performed by others in support of an internal R&D project (e.g., laboratory testing).

Research and development. Creative work conducted systematically to (1) extend scientific knowledge, or (2) devise new or improved applications, including materials, products, devices, processes, systems, or services. Sources and examples of R&D funding include the following:

- *Federal government.* Grants, awards, contracts, and appropriations from the U.S. government.
- *State.* Appropriations from the state legislature, agricultural commodity assessments, bond funds, general funds, restricted funds, revenue funds, state grants, tobacco settlement funds, lottery proceeds, and funds from other agencies within the state.
- *Other.* Grants and contracts from companies, nonprofit organizations (including foundations), other state governments, and city, county, regional, or other local governments.

Appendix B. Survey Materials

- U.S. Census Bureau Director's Letter
- Survey Questionnaire



UNITED STATES DEPARTMENT OF COMMERCE
Economics and Statistics Administration
U.S. Census Bureau
Washington, DC 20233-0001
OFFICE OF THE DIRECTOR

The Honorable «GOVNAME»
«GOVADDRESS1»
«GOVADDRESS2»
«GOVADDRESS3»
«GOVCITY», «GOVSTATE» «GOVZIP»«GOVZIP4»

Dear Governor «GOVLAST»:

I am writing to request that your office appoint a coordinator for the fiscal year (FY) **2014 and FY 2015 Survey of State Government Research and Development**. The U.S. Census Bureau is collaborating with the National Science Foundation (NSF) to collect research and development (R&D) expenditure information from the 50 states, the District of Columbia, and Puerto Rico. You may recall that your state participated in the FY 2012 and FY 2013 survey. Please note the reporting period will cover two fiscal years: FY 2014 and FY 2015. Your survey response will be compiled by the Census Bureau and forwarded to the NSF, the federal agency charged with collecting and reporting national R&D statistics. These statistics are used to measure states' contributions to our nation's science and technology base, a building block of a strong U.S. economy.

Your state coordinator will be asked to confirm the names and contact information for your state departments and agencies that are most likely to fund or conduct R&D activities. These departments and agencies will receive a web survey questionnaire asking about their R&D activities. The coordinator also serves as the authorizing official for your state's survey response after all departments and agencies complete their survey questionnaires. A copy of the FY 2014 and FY 2015 survey questionnaire is included. An electronic copy is available at <<https://econhelp.census.gov/sgrd>> under 'Forms and Letters' on the Census Business Help Site.

Please contact Lisa McNelis, Census Bureau project manager for this survey, with your state coordinator selection by e-mailing: erd.sgrd@census.gov or calling: 1-888-340-7525. For the FY 2012 and FY 2013 survey, «MRMS» «CONTACTNAME» «CONTACTTITLE» served as your state's survey coordinator.

Thank you in advance for your continuing help to complete a picture of our nation's R&D expenditures by state governments. You can find results from last year's survey from the NSF Web page: <http://www.nsf.gov/statistics/2015/nsf15313/>.

Sincerely,

John H. Thompson
Director

Enclosures

cc: «CONTACTNAME»



FY 2014 and FY 2015 Survey of State Government R&D



Reference Copy Only

Survey Questions

pages 2-15

The purpose of this survey is to measure your state’s contributions toward scientific and technological advances. The results of this survey will be used to estimate national totals for R&D in conjunction with other data collected by the National Science Foundation from private industry, academic institutions, and the Federal government.

The Survey of State Government R&D is conducted by the National Science Foundation, with the Department of Commerce, U.S. Census Bureau as the collection agent. Your participation is voluntary.

If you have any questions, please
contact: Lisa McNelis
U.S. Census Bureau
1-888-340-7525
erd.sgrd@census.gov

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Burden Statement

OMB: 0607-0933
Exp: 05/31/2016

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless such collection displays a valid Office of Management and Budget (OMB) control number. The OMB Control number for this survey is displayed at the top right of the survey "Home" page.

The time required to complete these responses is estimated to be approximately 90 minutes for the state coordinator and four hours for agency respondents.

The burden on state coordinators includes the initial identification of department and agency contacts, monitoring of department and agency responses, and final review and verification of state data.

The burden on agency respondents includes the initial collection of data and the entry of data into the Web application.

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Paperwork Project 0607-0933
U.S. Census Bureau
4700 Silver Hill Road, Stop
1500 Washington, DC
20233-1500

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Contact Information

Please complete the contact information below and update if needed. (*required fields)

Primary Respondent

Your Name:*

Title:*

Agency:

Address:

City:*

State:*

Zip: -

Telephone:* () - Extension:

Email:*

Additional Contact Information (if applicable)

Your Name:

Title:

Agency:

Address:

City:

State:

Zip: -

Telephone: () - Extension:

Email:

Reporting Period

2a. When did your state agency's Fiscal Year 2013-14 end?

| | | |
|----------------------|----------------------|------|
| <input type="text"/> | <input type="text"/> | 2014 |
| MM | DD | YYYY |

Note: For the rest of this survey, we will refer to this Fiscal Year as FY 2014.

2b. When did your state agency's Fiscal Year 2014-15 end?

| | | |
|----------------------|----------------------|------|
| <input type="text"/> | <input type="text"/> | 2015 |
| MM | DD | YYYY |

Note: For the rest of this survey, we will refer to this Fiscal Year as FY 2015.

R&D Activities

Please read through the following definitions of R&D and answer the Screener Question below.

What is Research and Development (R&D)?

Research and development (R&D) is creative work conducted systematically to extend scientific knowledge, or devise new applications, which may include materials, products, devices, processes, systems, methods, or services.

What is R&D

- R&D is aimed at new findings
 - It has not been done before
 - It may produce findings that could be published in academic journals
 - It includes ideas that could be patented
- R&D increases our knowledge of the subject
 - Helps create new products or applications
- R&D creates solutions that others may find useful
 - Findings can be generalized to other situations and locations
- R&D outcomes are uncertain (because it has never been done before)
 - Solutions are not always obvious or expected

What is NOT R&D?

- Construction and acquisition of land and facilities used primarily for R&D (this is reported separately in Question 11)
- Fixed equipment used primarily for R&D (this is reported separately in Question 11)
- Program planning and evaluation
- Business development services for new companies
- Commercialization (includes promoting/producing the products/services from R&D projects)
- Economic/policy/feasibility studies
- General patient services
- Information systems
- Management studies
- Marketing of products/services
- Market research or analysis
- Routine data collection/dissemination
- Routine monitoring/testing
- Strategic planning
- Technology transfer

Examples of R&D

| What makes it R&D | When it is R&D | When it is NOT R&D |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>R&D is novel.</p> <ul style="list-style-type: none"> • It increases our knowledge of the subject. • It has not been done before. | <p>You are testing blood samples as part of a research project to find out the side effects of a new cancer treatment.</p> | <p>You are collecting information from samples of patients to estimate the incidence of chicken pox in the state's population. (You are using a standard approach to estimate the spread of chicken pox.)</p> |
| <p>R&D creates solutions useful to others.</p> <ul style="list-style-type: none"> • Others might benefit from the findings. • The findings can be generalized to other situations and locations. | <p>You are testing a pavement on your highways that is currently used only at airports. Other states will want the results.</p> | <p>You are testing pavement on your state's highways to estimate how much you need to budget for pavement replacement over the next five years. (Other states will not benefit from your specific state information.)</p> |
| <p>The outcome of R&D is uncertain.</p> <ul style="list-style-type: none"> • The solution is not obvious to an expert in that field. | <p>Your research involves monitoring streams to determine whether a new program is increasing the population of a particular type of fish.</p> | <p>You are monitoring streams as part of plan to implement long-term monitoring for a particular type of fish. (The monitoring plan has already been tested and you are certain of the quality of the plan.)</p> |

Reporting unit

The reporting unit is your department, agency, commission, public authority (herein referred to as agency) including all divisions and offices regardless of location that either perform or fund R&D.

Estimates are acceptable

Please report all items to the best of your ability.

[Go to Question 3](#)

Examples of classifying R&D from four activities

| Activity | It IS R&D | It is NOT R&D |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Technical assistance | You hire a technical consultant to test the disease resistance for the new fish species you are developing. (The assistance addresses the uncertainty of the science/technology aspects of the product or service.) | You hire a technical consultant to help you design the graphic design for the package to ship your new fish species when you begin offering it for sale to other states. (The assistance addresses the uncertainty of the marketing/production aspects of the product or service.) |
| Help for new businesses | You provide funding to new businesses to help them with the costs of building prototypes of products they are developing. | You provide funding for new technology companies to help them acquire basic skills to market their new products. |
| Consulting | You use a consultant to plan testing of a highway pavement material that your transportation research center is trying to develop. | You use a consultant to help you secure health and safety approval for your new pavement material. |
| Developing a product from your research | You hire a university research center to test a new type of grass you developed to test whether it will survive actual conditions along the coastline. | You hire a law firm to help you with the process for patenting the new grass that you developed. |

R&D Activities

3. Did your agency do any of the following during FY 2014 OR FY 2015?

3a. Had a division, branch, or office devoted to research and development

Yes
No

3b. Performed research and development activities using agency staff

Yes
No

3c. Funded research and development at another state or local government

Yes
No

3d. Funded universities or other nonprofit organizations to perform research and development activities

Yes
No

3e. Funded companies or individuals to perform research and development activities

Yes
No

3f. Performed or funded other research and development activities not specified above

Yes

Please specify:

No

Expenditures for R&D Performed Internally (Internal R&D)

4. During FY 2014 and FY 2015, what were the total expenditures for internal R&D performance from federal funds, state funds, or other funds?

Include

Types of Activities

- R&D performed by your agency's employees
- Services performed by others in support of an agency R&D project (e.g., lab testing)
- Administration and management of R&D performed external to your agency (e.g., administration of R&D-related contracts)

Types of Costs

- Salaries
- Benefits
- Supplies and movable equipment for R&D
- Travel
- Indirect costs
- Purchased services

Exclude

- R&D performed by higher education institutions
- R&D performed by businesses and individuals
- R&D performed by non-profit organizations
- R&D performed by other governments
- Construction and acquisition of land or facilities used primarily for R&D (report in Question 11)
- Fixed equipment used primarily for R&D (report in Question 11)

| | FY 2014 | FY 2015 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|
| a. Federal Funds used for internal R&D \$ <input style="width: 150px; height: 20px;" type="text"/> \$ <input style="width: 150px; height: 20px;" type="text"/> | | |
| For example: | | |
| <ul style="list-style-type: none"> • Grants • Awards • Contracts • Appropriations from the United States Government | | |
| b. State Funds used for internal R&D \$ <input style="width: 150px; height: 20px;" type="text"/> \$ <input style="width: 150px; height: 20px;" type="text"/> | | |
| For example: | | |
| <ul style="list-style-type: none"> • Appropriations from the state legislature • Bond Funds • General funds • Restricted funds • Revenue funds • State grants • Tobacco settlement funds • Lottery proceeds • Funds from other agencies within your state | | |
| c. Other Sources used for internal R&D \$ <input style="width: 150px; height: 20px;" type="text"/> \$ <input style="width: 150px; height: 20px;" type="text"/> | | |
| For example: | | |
| <ul style="list-style-type: none"> • Funding from other state governments • Funding from state/regional partnership agreements • Funding from local or tribal governments • Funding from nonprofit organizations • Funding from business | | |
| Please specify: | | |
| <input style="width: 450px; height: 30px;" type="text"/> | | |
| d. These are your total expenditures for internal R&D: (sum of 4a through 4c) \$ <input style="width: 150px; height: 20px;" type="text"/> \$ <input style="width: 150px; height: 20px;" type="text"/> | | |

Expenditures for R&D Performed Externally (External R&D)

5. During FY 2014 and FY 2015, what were the total expenditures for external R&D performance from federal funds, state funds, and other funds?

Include

R&D funded by your agency and performed by,

- Higher-education institutions
- Agricultural experiment stations
- Businesses and individuals
- Non-Profit organizations
- Other state or local governments

Exclude

Pass-through funding for which you have no administrative oversight or control

| | FY 2014 | FY 2015 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|
| <p>a. Federal Funds used for external R&D..... \$ <input style="width: 150px; height: 20px;" type="text"/> \$ <input style="width: 150px; height: 20px;" type="text"/></p> <p>For example:</p> <ul style="list-style-type: none"> • Grants • Awards • Contracts • Appropriations from the United States Government | | |
| <p>b. State Funds used for external R&D..... \$ <input style="width: 150px; height: 20px;" type="text"/> \$ <input style="width: 150px; height: 20px;" type="text"/></p> <p>For example:</p> <ul style="list-style-type: none"> • Appropriations from the state legislature • Bond Funds • General funds • Restricted funds • Revenue funds • State grants • Tobacco settlement funds • Lottery proceeds • Funds from other agencies within your state | | |
| <p>c. Other Sources used for external R&D..... \$ <input style="width: 150px; height: 20px;" type="text"/> \$ <input style="width: 150px; height: 20px;" type="text"/></p> <p>For example:</p> <ul style="list-style-type: none"> • Funding from other state governments • Funding from state/regional partnership agreements • Funding from local or tribal governments • Funding from nonprofit organizations • Funding from business <p>Please specify:</p> <div style="border: 1px solid black; height: 30px; width: 450px; margin-top: 5px;"></div> | | |
| <p>d. These are your total expenditures for external R&D: (sum of 5a through 5c) \$ <input style="width: 150px; height: 20px;" type="text"/> \$ <input style="width: 150px; height: 20px;" type="text"/></p> | | |

Total R&D Expenditures

6. The following matrix shows the answers reported in Question 4 and Question 5.
To revise them, please return to the appropriate question and enter new data.

FY 2014

FY 2015

| | Internal | External | Total by Source | | Internal | External | Total by Source |
|--------------|-------------------------|-------------------------|-------------------------|--------------|-------------------------|-------------------------|-------------------------|
| Federal | \$ <input type="text"/> | \$ <input type="text"/> | \$ <input type="text"/> | Federal | \$ <input type="text"/> | \$ <input type="text"/> | \$ <input type="text"/> |
| State | \$ <input type="text"/> | \$ <input type="text"/> | \$ <input type="text"/> | State | \$ <input type="text"/> | \$ <input type="text"/> | \$ <input type="text"/> |
| Other | \$ <input type="text"/> | \$ <input type="text"/> | \$ <input type="text"/> | Other | \$ <input type="text"/> | \$ <input type="text"/> | \$ <input type="text"/> |
| TOTAL | \$ <input type="text"/> | \$ <input type="text"/> | \$ <input type="text"/> | TOTAL | \$ <input type="text"/> | \$ <input type="text"/> | \$ <input type="text"/> |

Total R&D Expenditures by Function

7. Of the amount reported for FY 2014 and FY 2015 reported expenditures, how much was for:

| | | FY 2014 | | FY 2015 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------|----|---------|
| a. Agriculture For example: <ul style="list-style-type: none"> • Animal husbandry • Aquaculture • Crop management • Food and commodities | \$ | | \$ | |
| b. Energy For example: <ul style="list-style-type: none"> • Alternative fuels (e.g., ethanol, biofuels) • Energy conservation/efficiency • Oil and gas • Other fossil fuels (e.g., coal, clean-coal, lignite) • Renewable energy (e.g., wind, solar) | \$ | | \$ | |
| c. Environment and Natural Resources For example: <ul style="list-style-type: none"> • Air and water quality • Fish, game, and wildlife • Forestry • Geological studies • Marine and aquatic environments • Parks and preserves • Soil and water conservation | \$ | | \$ | |
| d. Health For example: <ul style="list-style-type: none"> • Biomedical research • Mental health and addiction • Pharmaceutical • Public health | \$ | | \$ | |
| e. Transportation For example: <ul style="list-style-type: none"> • Aviation • Highways, roads, and bridges • Ports and waterways • Public transportation • Rail and freight | \$ | | \$ | |
| f. Other functions For example: <ul style="list-style-type: none"> • Corrections and criminal justice • Education • Labor • Public safety • Social services | \$ | | \$ | |
| Please specify: | | | | |
| 9. Total (sum of 7a through 7f) | \$ | | \$ | |

Funds Received from Federal Agencies for R&D

8. Of the amount reported for FY 2014 and FY 2015 reported expenditures from federal funds, what amount came from the following agencies? Please add any agencies not already listed. If none, please report \$0.

| Federal Agency | FY 2014 | FY 2015 |
|-----------------------------------------------|---------|---------|
| Department of Agriculture | \$ | \$ |
| Department of Commerce | \$ | \$ |
| Department of Defense | \$ | \$ |
| Department of Education | \$ | \$ |
| Department of Energy | \$ | \$ |
| Department of Health and Human Services | \$ | \$ |
| Department of Homeland Security | \$ | \$ |
| Department of Housing and Urban Development | \$ | \$ |
| Department of the Interior | \$ | \$ |
| Department of Justice | \$ | \$ |
| Department of Labor | \$ | \$ |
| Department of State | \$ | \$ |
| Department of Transportation | \$ | \$ |
| Department of the Treasury | \$ | \$ |
| Department of Veterans Affairs | \$ | \$ |
| Environmental Protection Agency | \$ | \$ |
| National Aeronautics and Space Administration | \$ | \$ |
| National Science Foundation | \$ | \$ |
| Other, please specify: | | |
| <input style="width: 90%;" type="text"/> | \$ | \$ |
| <input style="width: 90%;" type="text"/> | \$ | \$ |
| Total (sum of all above) | \$ | \$ |

FY 2015 Expenditures for R&D Performed Internally by Type of R&D

9. What amount of your reported FY 2015 federal internal R&D expenditures and reported FY 2015 non-federal internal R&D expenditures in Question 4 were for basic research, applied research, and experimental development from federal and non-federal funds? (Please use your best estimate.)

| | FY 2014 | | FY 2015 | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------|---------|-------------|
| | Federal | Non-Federal | Federal | Non-Federal |
| <p>a. Basic Research.....\$</p> <p>Research undertaken primarily to acquire new knowledge without any particular application or use in mind. (see Examples of Basic Research below)</p> | n/a | n/a | | |
| <p>b. Applied Research.....\$</p> <p>Research conducted to gain the knowledge or understanding to meet a specific, recognized need. (see Examples of Applied Research below)</p> | n/a | n/a | | |
| <p>c. Experimental Development....\$</p> <p>The systematic use of the knowledge or understanding gained from research directed towards the production of useful materials, devices, systems, or methods, including the design and development of prototypes and processes. (see Examples of Experimental Development below)</p> | n/a | n/a | | |
| <p>d. Total (sum of 9a through 9c)...\$</p> | n/a | n/a | | |

Examples

Basic Research

Applied Research

Experimental Development

| | | |
|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| You are studying the properties of blood to determine what affects coagulation. | You are conducting research on how a new chicken pox vaccine affects blood coagulation. | You are testing a newly developed chicken pox vaccine with various ages of school children before implementing it statewide. |
| You are studying the properties of molecules under various heat and cold conditions. | You are conducting research on the properties of particular substances under various heat and cold conditions with the objective of finding longer lasting components for pavement. | You are testing a newly developed pavement under various types of heat and cold conditions prior to using it on your state's highways. |
| You are studying the heart chambers of various fish species. | You are examining various levels of a toxic substance to determine the maximum safe level for fish in a stream. | You are designing a new system for monitoring a stream that will try out the results of your recent research in a real world situation. |
| You are studying the effects of various strategies for teaching math in order to understand which is the most effective. | You are studying the implementation of a specific math curriculum to determine what factors lead to successful implementation by teachers. | You are using research in the field to develop education software and support tools for math curriculum. |

Expenditures for R&D Performed Externally by Type of Entity

10. Of the reported external R&D performance for FY 2014 and FY 2015 reported expenditures in Question 5, how much was to:

| | FY 2014 | FY 2015 |
|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|
| a. Higher education institutions?..... | \$ <input style="width: 150px; height: 20px;" type="text"/> | \$ <input style="width: 150px; height: 20px;" type="text"/> |
| b. Businesses or individuals? | \$ <input style="width: 150px; height: 20px;" type="text"/> | \$ <input style="width: 150px; height: 20px;" type="text"/> |
| c. Other entities? | \$ <input style="width: 150px; height: 20px;" type="text"/> | \$ <input style="width: 150px; height: 20px;" type="text"/> |
| For example: | | |
| <ul style="list-style-type: none"> Other state governments Local governments Non-profit organizations | | |
| Please specify: | | |
| | | |
| d. Total (sum of 10a through 10c) | \$ <input style="width: 150px; height: 30px;" type="text"/> | \$ <input style="width: 150px; height: 30px;" type="text"/> |

R&D Expenditures for Land and Facilities

11. During FY 2014 and FY 2015, what were your agency's R&D expenditures for construction and acquisition of land and facilities (including fixed equipment) used primarily for R&D?

This question asks about R&D land and facilities (including fixed equipment, such as reactors, wind tunnels, and particle accelerators) used primarily for R&D. It includes the acquisition of, construction of, and major repairs or alterations to structures, works, equipment, facilities, or land for use in R&D activities. Construction and acquisition of land and facilities used primarily for R&D includes major costs for construction and purchase of buildings to be primarily used as R&D facilities.

Include:

- Only expenditures related to the R&D activities of your agency.

Exclude:

- Expendable or movable equipment (e.g., spectrometers, microscopes).
- Office furniture and equipment.
- Costs of pre-design studies (e.g., those undertaken before commitment to a specific facility).

NOTE: The expenditures reported on this question are separate from the R&D expenditures asked throughout the rest of the survey, and should not be included in the expenditures on any other question in the survey.

| | |
|-------------------------------------------------------------|-------------------------------------------------------------|
| FY 2014 | FY 2015 |
| \$ <input style="width: 150px; height: 20px;" type="text"/> | \$ <input style="width: 150px; height: 20px;" type="text"/> |

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