

Table 11. State government expenditures for environment and natural resources-related R&D, by state: FYs 2009–24

(Dollars)

| State | 2009 ^a | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 |
|----------------------------|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| United States ^b | 328,102,718 | 356,603,823 | 380,376,738 | 357,528,082 | 380,245,106 | 369,242,699 | 416,120,534 | 411,765,467 | 450,709,184 | 418,889,511 | 440,269,973 | 448,489,450 | 444,593,349 | 556,643,092 | 591,276,952 | 615,568,273 |
| Alabama | 7,694,078 | 8,922,103 | 13,521,133 | 12,879,773 | 9,984,291 | 4,106,869 | 5,718,986 | 12,848,739 | 14,685,442 | 13,608,231 | 9,403,795 | 5,930,160 | 6,080,232 | 70,126,266 | 53,882,774 | 45,830,380 |
| Alaska | 6,449,300 | 5,833,600 | 6,767,900 | 3,702,011 | 3,662,664 | 9,001,900 | 8,987,200 | 7,617,940 | 5,324,200 | 7,104,800 | 8,392,100 | 8,878,600 | 9,713,200 | 10,015,251 | 12,740,515 | 10,752,476 |
| Arizona | 6,356,155 | 6,023,906 | 5,743,162 | 5,327,071 | 6,689,903 | 6,184,876 | 7,012,194 | 4,253,582 | 2,220,204 | 1,755,221 | 1,077,891 | 1,849,760 | 1,682,113 | 1,140,215 | 1,552,790 | 2,131,091 |
| Arkansas | 345,832 | 658,590 | 680,971 | 707,557 | 942,106 | 0 | 303,087 | 530,436 | 0 | 2,249,406 | 2,426,103 | 2,455,409 | 1,143,026 | 1,558,599 | 2,270,144 | 3,181,923 |
| California | 48,172,325 | 30,914,302 | 43,443,294 | 26,096,846 | 30,615,059 | 28,842,415 | 30,382,163 | 30,970,439 | 34,984,578 | 41,221,163 | 40,709,827 | 46,017,594 | 46,696,431 | 64,903,411 | 63,966,691 | 70,943,128 |
| Colorado | 8,317,796 | 7,142,396 | 7,185,567 | 6,957,024 | 6,576,449 | 8,449,733 | 8,630,632 | 7,187,484 | 9,718,770 | 9,097,135 | 10,798,678 | 11,609,704 | 11,287,126 | 7,762,275 | 10,539,540 | 11,926,882 |
| Connecticut | 5,814,050 | 13,081,012 | 12,517,073 | 12,661,538 | 13,780,616 | 10,592,603 | 10,303,327 | 10,527,008 | 9,545,714 | 10,218,069 | 10,599,160 | 11,473,607 | 11,706,792 | 11,877,203 | 12,908,890 | 12,644,615 |
| Delaware | 1,433,562 | 2,139,720 | 2,359,902 | 2,231,693 | 2,754,545 | 1,988,655 | 2,048,014 | 1,849,169 | 1,973,153 | 2,686,413 | 2,701,302 | 2,241,188 | 2,125,080 | 2,229,910 | 2,096,191 | 2,281,072 |
| District of Columbia | 0 | 0 | 0 | 0 | 0 | 1,740,000 | 2,000,000 | 2,000,000 | 2,000,000 | 2,000,000 | 2,000,000 | 2,920,000 | 1,821,400 | 1,976,600 | 1,848,077 | 1,850,270 |
| Florida | 17,934,886 | 50,262,488 | 47,437,237 | 48,709,314 | 47,462,678 | 51,191,986 | 57,934,383 | 51,313,340 | 52,812,260 | 50,929,717 | 52,486,202 | 56,851,522 | 57,586,211 | 57,744,843 | 66,897,373 | 83,757,827 |
| Georgia | 0 | 0 | 0 | 2,607,843 | 3,999,505 | 2,584,180 | 3,062,308 | 2,027,695 | 2,221,630 | 0 | 3,871,745 | 1,164,256 | 3,132,706 | 12,722,663 | 2,927,411 | 3,154,472 |
| Hawaii | 4,497,068 | 5,229,835 | 5,607,794 | 4,533,302 | 4,484,602 | 6,929,035 | 7,849,438 | 6,483,585 | 4,975,227 | 1,363,167 | 895,592 | 385,278 | 320,500 | 632,000 | 513,210 | 1,017,703 |
| Idaho | 5,881,390 | 6,123,012 | 6,064,901 | 8,072,165 | 8,059,032 | 7,827,527 | 8,164,676 | 7,991,169 | 8,495,485 | 8,049,677 | 8,364,544 | 10,831,981 | 9,473,386 | 9,482,216 | 9,232,224 | 6,062,574 |
| Illinois | 56,800 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18,525,888 | 17,723,231 | 32,327,079 | 4,623,526 |
| Indiana | 1,821,645 | 1,700,000 | 1,700,000 | 15,000 | 2,500 | 37,694 | 124,964 | 790,356 | 309,601 | 100,000 | 0 | 141,764 | 720,153 | 352,281 | 3,866,329 | 2,815,311 |
| Iowa | 0 | 7,074,696 | 3,640,397 | 3,278,552 | 3,517,000 | 4,135,147 | 4,279,253 | 3,981,402 | 3,892,642 | 3,669,395 | 3,797,923 | 4,170,756 | 2,994,029 | 3,688,099 | 1,945,868 | 4,471,907 |
| Kansas | 365,000 | 365,000 | 465,000 | 0 | 0 | 166,000 | 258,099 | 747,974 | 3,190,713 | 4,145,270 | 3,645,223 | 4,840,882 | 7,217,311 | 8,280,611 | 1,716,521 | 3,907,840 |
| Kentucky | 2,874,829 | 2,005,156 | 2,137,523 | 5,902,607 | 6,074,737 | 688,300 | 768,100 | 2,021,103 | 3,610,436 | 2,897,000 | 2,531,000 | 2,237,368 | 2,406,089 | 7,261,361 | 7,622,379 | 9,036,158 |
| Louisiana | 1,567,596 | 2,522,697 | 8,005,483 | 10,305,857 | 8,174,868 | 7,750,826 | 21,166,032 | 18,265,666 | 16,653,861 | 12,451,900 | 11,751,729 | 12,455,929 | 10,483,689 | 10,092,683 | 11,664,250 | 26,537,429 |
| Maine | 1,969,352 | 2,527,524 | 3,728,729 | 1,615,411 | 1,434,954 | 2,127,448 | 3,129,609 | 4,737,000 | 4,913,480 | 3,399,559 | 12,055,909 | 7,070,173 | 7,542,075 | 7,605,622 | 7,640,976 | 5,534,422 |
| Maryland | 6,853,050 | 390,000 | 616,000 | 963,777 | 947,472 | 1,191,164 | 3,070,807 | 790,790 | 2,328,795 | 1,680,353 | 1,625,725 | 1,184,063 | 900,754 | 410,466 | 439,038 | 157,000 |
| Massachusetts | 1,082,161 | 1,116,916 | 842,629 | 928,129 | 1,031,320 | 11,503,702 | 12,416,317 | 13,432,781 | 9,621,224 | 8,926,019 | 8,938,925 | 10,052,872 | 2,752,268 | 3,522,905 | 3,317,234 | 3,001,382 |
| Michigan | 2,320,826 | 4,792,530 | 4,595,080 | 3,164,059 | 4,582,027 | 3,561,675 | 4,025,524 | 7,519,042 | 8,548,682 | 471,572 | 1,555,898 | 1,265,405 | 1,690,204 | 880,828 | 702,204 | 909,155 |
| Minnesota | 1,566,712 | 1,813,748 | 794,167 | 673,544 | 1,662,951 | 2,678,015 | 3,562,237 | 3,499,210 | 3,446,554 | 3,790,153 | 5,356,934 | 3,365,930 | 3,612,375 | 4,929,165 | 4,711,365 | 6,233,155 |
| Mississippi | 2,105,823 | 3,634,374 | 3,295,081 | 1,458,268 | 1,562,376 | 917,631 | 566,320 | 1,025,908 | 2,162,824 | 6,216,398 | 5,579,050 | 4,637,046 | 4,036,645 | 6,374,191 | 7,059,347 | 8,889,870 |
| Missouri | 10,133,435 | 9,482,088 | 8,530,764 | 9,502,232 | 9,297,498 | 10,347,414 | 11,728,858 | 12,524,705 | 12,672,628 | 13,159,754 | 11,968,316 | 11,624,124 | 10,111,070 | 7,213,438 | 7,666,807 | 7,637,047 |
| Montana | 1,871,061 | 2,185,884 | 2,343,724 | 2,920,932 | 2,479,271 | 3,247,491 | 3,688,918 | 3,336,125 | 4,888,356 | 4,140,091 | 4,146,533 | 7,753,095 | 3,873,284 | 4,371,611 | 4,658,143 | 7,102,438 |
| Nebraska | 2,048,838 | 2,214,924 | 1,902,385 | 1,818,917 | 2,040,414 | 219,783 | 529,071 | 928,291 | 400,154 | 679,369 | 4,757,681 | 6,941,251 | 5,465,378 | 4,079,403 | 2,068,739 | 3,232,300 |
| Nevada | 0 | 32,942 | 47,582 | 46,905 | 45,408 | 170,494 | 192,802 | 83,663 | 4,967 | 100,000 | 128,914 | 222,553 | 439,233 | 474,700 | 920,333 | 3,285,206 |
| New Hampshire | 155,000 | 100,000 | 111,000 | 0 | 0 | 262,850 | 331,476 | 744,520 | 642,613 | 74,981 | 101,215 | 113,525 | 593,070 | 1,406,171 | 1,641,411 | 149,472 |
| New Jersey | 2,974,000 | 4,305,318 | 1,988,395 | 2,837,940 | 3,192,669 | 3,162,639 | 2,721,846 | 2,591,814 | 2,487,857 | 1,823,000 | 2,192,254 | 2,206,594 | 2,940,457 | 5,608,633 | 7,057,203 | 7,671,387 |
| New Mexico | 0 | 0 | 0 | 312,918 | 502,068 | 1,274,000 | 1,156,279 | 1,595,891 | 1,283,998 | 1,727,331 | 2,108,672 | 2,147,277 | 1,550,674 | 1,950,400 | 1,566,851 | 1,357,029 |
| New York | 36,911,399 | 29,002,576 | 19,416,212 | 25,121,628 | 23,232,954 | 24,029,807 | 21,834,761 | 21,338,549 | 25,507,577 | 23,271,335 | 33,457,115 | 30,312,324 | 31,482,716 | 21,860,827 | 30,403,179 | 35,047,412 |
| North Carolina | 20,919,615 | 5,076,664 | 6,817,285 | 3,011,692 | 3,136,983 | 2,864,841 | 2,901,909 | 5,490,244 | 6,354,160 | 7,534,575 | 7,935,915 | 7,263,072 | 5,733,496 | 6,263,664 | 2,906,002 | 4,718,145 |
| North Dakota | 587,710 | 22,500 | 15,000 | 0 | 0 | 825,000 | 825,000 | 432,220 | 1,339,067 | 1,150,015 | 1,546,256 | 789,902 | 918,049 | 624,754 | 659,780 | 1,197,474 |
| Ohio | 6,306,109 | 38,137,758 | 38,596,214 | 15,477,600 | 38,073,964 | 36,843,569 | 42,606,559 | 46,302,620 | 61,383,778 | 50,609,867 | 46,098,202 | 50,405,927 | 31,774,578 | 49,888,407 | 49,445,763 | 46,317,006 |
| Oklahoma | 2,552,285 | 1,631,015 | 2,505,761 | 2,248,062 | 4,765,208 | 5,921,730 | 5,465,000 | 5,201,284 | 5,714,953 | 3,041,465 | 3,697,616 | 2,281,991 | 2,291,905 | 3,000,003 | 2,389,244 | 3,801,498 |

Table 11. State government expenditures for environment and natural resources-related R&D, by state: FYs 2009–24

(Dollars)

| State | 2009 ^a | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 |
|--------------------------|-------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Oregon | 8,279,562 | 14,867,136 | 16,924,664 | 19,780,040 | 20,153,209 | 17,070,483 | 18,412,322 | 11,208,431 | 16,722,907 | 14,527,986 | 19,896,508 | 16,706,262 | 17,198,988 | 18,199,863 | 22,483,060 | 20,121,499 |
| Pennsylvania | 9,395,553 | 7,891,207 | 7,749,253 | 8,058,329 | 9,069,833 | 8,792,509 | 9,129,370 | 9,043,493 | 7,739,820 | 8,326,030 | 8,385,384 | 8,868,958 | 10,393,255 | 13,890,852 | 18,896,798 | 18,974,193 |
| Rhode Island | 446,347 | 401,045 | 590,282 | 927,489 | 1,059,308 | 861,501 | 869,042 | 1,342,772 | 1,320,932 | 2,476,653 | 3,507,663 | 3,868,806 | 9,014,506 | 6,658,944 | 2,199,338 | 732,267 |
| South Carolina | 25,183,342 | 34,711,576 | 45,163,028 | 46,038,125 | 36,316,203 | 17,608,196 | 23,516,239 | 24,859,330 | 26,168,247 | 29,097,570 | 28,245,560 | 27,721,566 | 27,217,435 | 29,745,041 | 31,915,915 | 36,481,183 |
| South Dakota | 2,311,292 | 1,638,739 | 1,628,888 | 1,894,989 | 1,774,517 | 45,000 | 20,000 | 0 | 62,998 | 0 | 0 | 50,000 | 0 | 0 | 34,950 | 0 |
| Tennessee | 0 | 0 | 320,000 | 856,000 | 866,500 | 583,092 | 571,871 | 1,085,874 | 863,020 | 901,162 | 906,097 | 919,243 | 233,025 | 314,273 | 0 | 759,197 |
| Texas | 24,750,247 | 6,351,022 | 4,805,152 | 5,492,140 | 6,428,787 | 13,206,103 | 14,491,269 | 13,099,100 | 16,408,555 | 9,895,119 | 9,797,876 | 7,456,321 | 11,309,543 | 6,661,241 | 11,126,708 | 9,621,662 |
| Utah | 6,149,899 | 6,329,203 | 7,943,186 | 17,978,580 | 18,312,681 | 17,125,000 | 18,245,765 | 17,814,501 | 18,126,510 | 17,282,000 | 4,537,659 | 5,558,311 | 4,995,663 | 5,847,503 | 7,388,968 | 8,424,400 |
| Vermont | 0 | 75,000 | 75,000 | 115,469 | 102,379 | 252,928 | 90,683 | 153,931 | 50,195 | 49,859 | 308,227 | 282,511 | 274,477 | 63,773 | 79,783 | 35,450 |
| Virginia | 4,005,964 | 3,947,713 | 3,829,525 | 4,874,529 | 5,709,773 | 9,017,423 | 9,630,219 | 7,583,316 | 5,564,985 | 6,068,610 | 7,210,949 | 5,985,898 | 7,597,646 | 10,742,492 | 18,131,290 | 9,478,187 |
| Washington | 6,993,436 | 10,782,537 | 11,087,560 | 10,712,941 | 10,953,130 | 9,118,095 | 9,698,425 | 11,991,928 | 14,779,468 | 12,726,589 | 16,415,784 | 23,572,042 | 20,929,359 | 22,916,358 | 28,731,394 | 44,359,876 |
| West Virginia | 1,804,769 | 1,818,077 | 1,873,514 | 1,501,719 | 1,611,130 | 279,478 | 305,196 | 1,709,742 | 3,335,151 | 2,967,206 | 4,141,682 | 3,939,496 | 3,183,300 | 2,433,225 | 3,460,082 | 2,588,233 |
| Wisconsin | 15,201,270 | 6,717,528 | 10,197,725 | 9,081,222 | 8,894,211 | 7,183,900 | 7,569,100 | 6,503,000 | 7,237,000 | 7,206,044 | 6,060,492 | 5,423,223 | 6,879,700 | 7,047,780 | 7,574,828 | 7,355,100 |
| Wyoming | 3,641,349 | 4,607,766 | 4,765,616 | 4,126,343 | 4,225,353 | 4,731,992 | 3,824,884 | 2,388,305 | 2,013,813 | 2,022,282 | 2,152,148 | 2,043,931 | 2,542,859 | 2,086,841 | 3,481,963 | 3,469,044 |
| Puerto Rico ^c | 136,021 | 100,000 | 100,000 | 201,685 | 244,845 | 205,623 | 150,000 | na | na | na | na | na | na | 796,996 | 276,257 | 354,553 |

na = not applicable; did not report to survey.

^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 the other category and in the environment and natural resources category.^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(s):**

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(s):

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