

TABLE 96

Federal outlays for research, development, and R&D plant, by agency: FYs 2001–11

(Dollars in millions)

| Agency | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 |
|--|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| All agencies | 87,061.8 | 92,685.9 | 104,337.1 | 109,030.5 | 121,230.1 | 118,908.6 | 123,998.3 | 125,125.3 | 129,678.7 | 137,523.1 | 135,752.8 |
| Departments | | | | | | | | | | | |
| Department of Agriculture | 1,869.5 | 2,026.1 | 2,043.4 | 2,161.4 | 2,281.5 | 2,369.5 | 2,433.5 | 2,401.8 | 2,303.7 | 2,434.6 | 2,419.5 |
| Agricultural Marketing Service | 4.7 | 5.2 | 4.7 | 8.4 | 9.4 | 6.3 | 6.4 | 3.8 | 4.3 | 4.4 | 4.3 |
| Agricultural Research Service | 1,014.6 | 1,131.4 | 1,100.0 | 1,192.9 | 1,248.7 | 1,305.7 | 1,293.7 | 1,275.4 | 1,176.5 | 1,255.8 | 1,263.5 |
| Animal and Plant Health Inspection Service | 25.4 | 23.7 | 28.0 | 24.4 | 24.4 | 25.5 | 26.0 | 28.4 | 24.6 | 25.6 | 24.6 |
| Economic Research Service | 66.1 | 69.9 | 70.3 | 65.7 | 74.6 | 72.8 | 90.6 | 77.8 | 79.7 | 86.4 | 87.9 |
| Food Safety and Inspection Service | 2.6 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Foreign Agricultural Service | 1.4 | 1.4 | 1.6 | 1.6 | 1.5 | 0.9 | 0.6 | 0.4 | 0.4 | 0.4 | 0.6 |
| Forest Service | 263.0 | 292.0 | 321.0 | 345.0 | 343.0 | 354.5 | 360.0 | 358.9 | 367.5 | 432.8 | 370.0 |
| Grain Inspection, Packers, and Stockyards Administration | 6.1 | 6.0 | 5.3 | 6.7 | 6.7 | 7.1 | 6.7 | 6.6 | 6.5 | 6.3 | 6.7 |
| National Agricultural Statistics Service | 4.3 | 4.6 | 5.5 | 6.1 | 6.1 | 6.5 | 6.8 | 6.9 | 7.2 | 7.5 | 7.4 |
| National Institute of Food and Agriculture | 478.9 | 487.6 | 503.1 | 506.8 | 563.5 | 586.0 | 621.8 | 639.3 | 634.0 | 611.7 | 653.8 |
| Rural Business-Cooperative Service | 2.4 | 4.2 | 3.8 | 3.8 | 3.6 | 4.1 | 21.0 | 4.2 | 3.0 | 3.7 | 0.7 |
| Department of Commerce | 1,015.8 | 1,232.6 | 1,248.2 | 1,156.6 | 747.5 | 710.2 | 1,059.3 | 1,165.9 | 1,252.4 | 1,409.3 | 1,589.7 |
| Economic Development Administration | 0.6 | 0.4 | 0.5 | 0.2 | 0.5 | 0.2 | 0.8 | 20.7 | 28.3 | 33.7 | 15.5 |
| National Institute of Standards and Technology | 474.2 | 532.2 | 536.6 | 558.1 | 478.5 | 467.1 | 457.5 | 493.2 | 501.2 | 636.5 | 741.7 |
| National Oceanic and Atmospheric Administration | 501.0 | 651.3 | 667.8 | 550.0 | 242.1 | 215.5 | 573.7 | 627.1 | 686.9 | 684.7 | 765.7 |
| National Telecommunications and Information Administration | 21.0 | 26.0 | 23.5 | 24.2 | 3.5 | 5.3 | 5.3 | 0.3 | 6.9 | 7.0 | 7.2 |
| U.S. Census Bureau | 19.0 | 22.7 | 19.9 | 24.2 | 23.0 | 22.0 | 22.0 | 24.7 | 29.0 | 47.2 | 59.5 |
| Department of Defense | 40,590.1 | 42,032.3 | 49,852.1 | 53,165.3 | 64,521.6 | 63,817.6 | 68,708.7 | 68,861.8 | 66,971.2 | 67,763.1 | 72,659.3 |
| Defense Advanced Research Projects Agency | na | na | na | na | na | na | na | na | na | na | 2,889.3 |
| Defense agencies and activities | 7,287.9 | 10,479.1 | 11,879.0 | 11,140.8 | 17,133.7 | 14,005.4 | 14,722.8 | 15,559.8 | 15,606.9 | 15,209.9 | na |
| Department of the Air Force | 17,599.3 | 14,161.8 | 18,153.0 | 19,721.4 | 20,950.8 | 21,445.9 | 24,498.1 | 24,213.6 | 23,569.4 | 26,235.0 | 25,970.1 |
| Department of the Army | 5,797.0 | 6,619.9 | 7,092.1 | 6,954.2 | 9,847.2 | 10,662.1 | 10,360.0 | 11,057.1 | 10,124.8 | 9,209.6 | 8,125.0 |
| Department of the Navy | 9,675.4 | 10,576.2 | 12,484.9 | 15,043.8 | 16,269.8 | 17,442.7 | 18,934.7 | 17,851.0 | 17,491.6 | 16,924.3 | 15,361.7 |
| Operational Test and Evaluation, Director | 205.3 | 195.5 | 243.1 | 305.0 | 320.1 | 261.6 | 193.1 | 180.3 | 178.5 | 184.2 | NA |
| Other defense agencies | na | na | na | na | na | na | na | na | na | na | 20,313.3 |
| Test and Evaluation, Deputy Under Secretary of Defense | 25.3 | na | na | na | na | na | na | na | na | na | na |
| Department of Education | 251.0 | 243.1 | 315.6 | 226.9 | 264.3 | 254.5 | 271.2 | 286.8 | 312.0 | 321.7 | 105.7 |
| Department of Energy | 7,415.6 | 8,034.6 | 8,424.5 | 8,501.7 | 8,607.0 | 8,213.1 | 8,444.0 | 8,856.6 | 9,770.8 | 9,890.6 | 10,456.2 |
| Advanced Research Projects Agency—Energy | na | na | na | na | na | na | na | 0.0 | 0.0 | 63.8 | 118.4 |
| Bonneville Power Administration | NA | 22.9 | 23.3 | 24.0 | 11.3 | 10.7 | 11.1 | 13.7 | 8.1 | 13.1 | 13.2 |
| Civilian Radioactive Waste Management | NA | 62.5 | 75.8 | 74.1 | 74.1 | 52.9 | 10.5 | 8.4 | 1.7 | 0.0 | 0.0 |
| Electricity Delivery and Energy Reliability | na | na | na | na | 71.8 | 108.3 | 54.4 | 89.4 | 87.1 | 83.0 | 89.5 |
| Energy Efficiency and Renewable Energy | NA | 739.8 | 688.5 | 603.6 | 593.9 | 456.7 | 648.2 | 794.0 | 729.5 | 968.5 | 888.5 |

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(Dollars in millions)

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|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Environmental Management | NA | 160.3 | 69.4 | 42.8 | 49.8 | 34.0 | 32.0 | 35.8 | 13.1 | 69.9 | 67.5 |
| Fossil Energy | NA | 480.5 | 642.7 | 505.5 | 538.8 | 386.1 | 430.6 | 325.0 | 358.6 | 364.5 | 303.1 |
| National Nuclear Security Administration | NA | 3,711.7 | 3,895.1 | 4,005.3 | 3,925.0 | 3,858.1 | 3,794.1 | 3,999.3 | 3,661.1 | 3,769.2 | 4,185.6 |
| Defense Programs | NA | 2,770.0 | 2,996.7 | 3,135.1 | 3,001.3 | 2,865.2 | 2,827.8 | 2,939.4 | 2,575.8 | 2,486.5 | 2,887.8 |
| Fissile Materials Disposition | NA | 22.0 | 16.6 | 1.0 | 0.0 | 0.0 | 0.0 | NA | NA | NA | NA |
| Naval Nuclear Propulsion Program | NA | 654.4 | 658.3 | 706.0 | 778.3 | 749.6 | 761.4 | 760.9 | 770.2 | 945.1 | 974.3 |
| Office of Defense Nuclear Nonproliferation | NA | 265.4 | 223.5 | 163.3 | 145.5 | 243.3 | 204.8 | 299.0 | 315.1 | 337.6 | 323.5 |
| Nuclear Energy | NA | 28.2 | 43.0 | 79.3 | 82.8 | 89.0 | 80.9 | 133.1 | 116.0 | 368.1 | 387.8 |
| Office of Intelligence | NA | 5.2 | 4.0 | 0.0 | NA | NA | NA | NA | NA | NA | NA |
| Office of Science | NA | 2,823.4 | 2,982.7 | 3,167.0 | 3,259.6 | 3,217.3 | 3,382.2 | 3,457.9 | 4,795.7 | 4,190.6 | 4,402.6 |
| Department of Health and Human Services | 21,296.7 | 23,892.1 | 27,316.4 | 28,263.2 | 28,861.7 | 28,799.4 | 29,261.3 | 29,268.4 | 35,295.5 | 36,610.2 | 30,458.6 |
| Administration for Children and Families | 26.4 | 21.7 | 19.4 | 18.7 | 38.6 | 13.4 | 11.8 | 19.2 | 13.7 | 6.5 | 9.3 |
| Administration for Community Living | 1.6 | 2.1 | 4.0 | 3.0 | 2.0 | 3.0 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Agency for Healthcare Research and Quality | 33.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Agency for Toxic Substances and Disease Registry | 13.1 | 12.4 | 14.3 | 10.7 | 9.5 | 9.0 | 4.2 | 4.3 | 4.5 | 2.8 | 5.1 |
| Centers for Disease Control and Prevention | 544.0 | 521.0 | 564.0 | 539.8 | 510.8 | 688.5 | 678.7 | 413.7 | 338.9 | 343.0 | 296.5 |
| Centers for Medicare and Medicaid Services | 53.0 | 72.9 | 73.6 | 89.0 | 89.0 | 62.4 | 86.0 | 69.8 | 57.4 | 53.9 | 45.2 |
| Food and Drug Administration | 152.4 | 129.7 | 158.1 | 134.0 | 140.0 | 139.8 | 130.2 | 138.0 | 163.9 | 201.1 | 214.9 |
| Health Resources and Services Administration | 51.6 | 54.7 | 439.5 | 48.0 | 53.4 | 24.1 | 23.9 | 62.3 | 56.4 | 67.0 | 37.4 |
| National Institutes of Health | 19,771.3 | 22,343.5 | 25,964.6 | 27,311.8 | 27,926.0 | 27,778.1 | 28,257.4 | 28,539.6 | 34,640.7 | 35,881.7 | 29,830.3 |
| Office of the Secretary of Health and Human Services | 15.6 | 16.5 | 21.7 | 21.1 | 24.8 | 26.8 | 24.5 | 21.5 | 20.0 | 54.4 | 19.9 |
| Office of Public Health and Science | 1.7 | 1.6 | 1.8 | NA | NA | NA | NA | NA | NA | NA | NA |
| Office of the Assistant Secretary for Planning and Evaluation | 13.9 | 14.9 | 19.9 | 21.1 | 24.8 | 26.8 | 24.5 | 21.5 | 20.0 | 54.4 | 19.9 |
| Substance Abuse and Mental Health Services Administration | 634.3 | 717.6 | 57.2 | 87.2 | 67.6 | 54.3 | 41.8 | 0.0 | 0.0 | NA | NA |
| Department of Homeland Security | na | na | NA | 592.3 | 1,027.6 | 1,713.9 | 1,181.3 | 1,009.3 | 438.3 | 976.0 | 1,165.7 |
| Science and Technology Directorate | na | na | NA | 432.4 | 834.7 | 1,677.0 | 1,153.0 | 993.0 | 417.3 | 949.0 | 1,144.0 |
| Transportation Security Administration | na | na | NA | 137.9 | 180.5 | 12.2 | 3.8 | 0.0 | 0.0 | NA | NA |
| U.S. Coast Guard | na | na | NA | 21.1 | 11.4 | 23.8 | 23.7 | 15.6 | 21.0 | 27.0 | 21.7 |
| U.S. Secret Service | na | na | NA | 1.0 | 1.0 | 1.0 | 0.8 | 0.7 | NA | NA | NA |
| Department of Housing and Urban Development | 64.2 | 57.7 | 54.3 | 43.2 | 47.9 | 42.0 | 32.5 | 32.5 | 36.4 | 50.5 | 50.1 |
| Department of the Interior | 623.2 | 633.2 | 600.9 | 612.2 | 597.0 | 607.6 | 625.7 | 644.4 | 744.9 | 725.6 | 713.8 |
| Bureau of Ocean Energy Management, Regulation and Enforcement | 28.0 | 31.7 | 29.5 | 29.5 | 29.9 | 31.2 | 28.7 | 34.3 | 39.4 | 43.7 | 49.6 |
| Bureau of Reclamation | 9.7 | 10.4 | 11.0 | 16.3 | 17.3 | 11.1 | 15.5 | 15.2 | 17.3 | 13.3 | 15.1 |
| National Park Service | 12.9 | 26.2 | 10.3 | 14.3 | 3.5 | 3.8 | 7.7 | 8.5 | 14.1 | 7.6 | 9.2 |
| U.S. Geological Survey | 572.6 | 565.0 | 550.2 | 552.2 | 546.2 | 561.5 | 573.8 | 586.4 | 674.1 | 661.1 | 640.0 |
| Department of Justice | 67.4 | 67.7 | 103.2 | 68.7 | 66.1 | 71.4 | 123.9 | 112.9 | 103.4 | 118.6 | 102.3 |

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(Dollars in millions)

| Agency | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Bureau of Prisons | 12.0 | 8.7 | 9.7 | 9.4 | 12.5 | 12.1 | 12.7 | 10.6 | 10.5 | 10.8 | 11.6 |
| Federal Bureau of Investigation | 19.0 | 33.6 | 42.8 | 34.0 | 33.5 | 34.3 | 70.8 | 26.1 | 14.5 | 30.0 | 17.7 |
| Immigration and Naturalization Service | 0.9 | 0.0 | na | na | na | na | na | na | na | na | na |
| Office of Justice Programs | 35.5 | 25.4 | 50.7 | 25.3 | 20.1 | 25.0 | 40.4 | 76.2 | 78.4 | 77.8 | 72.9 |
| Department of Labor | 95.5 | 164.6 | 176.4 | 198.2 | 162.9 | 94.3 | 59.3 | 84.4 | 71.6 | 13.0 | 11.8 |
| Bureau of Labor Statistics | 21.5 | 20.7 | 20.6 | 22.4 | 22.5 | 22.8 | 23.7 | 24.2 | 0.0 | NA | NA |
| Employee Benefits Security Administration | 1.3 | 0.9 | 2.1 | 1.3 | 1.3 | 1.6 | 0.8 | 1.1 | 1.1 | 4.5 | 4.7 |
| Employment and Training Administration | 60.9 | 137.1 | 148.0 | 170.1 | 133.7 | 64.1 | 29.4 | 53.7 | 64.2 | NA | NA |
| Occupational Safety and Health Administration | 5.7 | 3.8 | 3.1 | 3.3 | 3.4 | 3.5 | 3.4 | 3.6 | 4.5 | 5.9 | 4.3 |
| Office of the Secretary of Labor | 5.4 | 1.2 | 1.8 | 0.2 | 0.4 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| Pension Benefit Guaranty Corp. | 0.7 | 0.7 | 0.9 | 0.9 | 1.6 | 1.9 | 1.8 | 1.8 | 1.9 | 2.6 | 2.8 |
| Department of State | 1.6 | 1.6 | 1.6 | 2.3 | 2.6 | 3.4 | 3.0 | 3.0 | 3.7 | 2.9 | 3.3 |
| Department of Transportation | 515.4 | 732.9 | 592.0 | 569.4 | 412.1 | 884.3 | 775.3 | 625.8 | 544.5 | 781.0 | 786.3 |
| Federal Aviation Administration | 203.0 | 309.0 | 250.0 | 262.0 | 241.0 | 307.0 | 282.0 | 218.0 | 197.0 | 258.0 | 228.0 |
| Federal Highway Administration | 201.9 | 209.0 | 230.0 | 238.1 | 73.9 | 400.1 | 339.9 | 259.7 | 214.9 | 352.4 | 320.1 |
| Federal Motor Carrier Safety Administration | 5.5 | 2.0 | 2.9 | 4.3 | 6.6 | 4.2 | 12.7 | 6.6 | 6.9 | 6.9 | 6.9 |
| Federal Railroad Administration | 21.0 | 28.4 | 27.9 | 32.6 | 22.8 | 58.7 | 36.6 | 39.6 | 41.6 | 45.4 | 41.7 |
| Federal Transit Administration | 3.7 | 2.3 | 3.8 | 4.4 | 4.2 | 6.5 | 4.0 | 7.0 | 6.9 | 21.7 | 42.0 |
| National Highway Traffic Safety Administration | 46.7 | 47.1 | 50.7 | 7.0 | 31.7 | 75.0 | 66.0 | 58.7 | 44.3 | 64.6 | 116.0 |
| Office of the Secretary of Transportation | 7.0 | 11.1 | 15.7 | 11.0 | 28.8 | 15.6 | 16.2 | 15.9 | 19.5 | 20.3 | 17.9 |
| Pipeline and Hazardous Materials Safety Administration | na | na | na | 10.0 | 2.2 | 15.2 | 15.9 | 13.3 | 4.5 | 7.6 | 9.7 |
| Research and Innovative Technology Administration | na | na | na | 0.0 | 1.0 | 2.0 | 2.0 | 7.0 | 9.0 | 4.0 | 4.0 |
| Research and Special Programs Administration | 7.5 | 9.0 | 11.0 | na | na | na | na | na | na | na | na |
| Transportation Security Administration | na | 95.0 | na | na | na | na | na | na | na | na | na |
| U.S. Coast Guard | 19.3 | 20.0 | na | na | na | na | na | na | na | na | na |
| Department of the Treasury | 65.1 | 70.7 | 60.0 | 62.4 | 66.4 | 65.1 | 63.6 | 65.5 | 68.5 | 68.5 | 77.6 |
| Bureau of Engraving and Printing | 4.7 | 7.1 | 4.9 | 4.2 | 6.2 | 6.0 | 5.3 | 5.3 | 3.0 | 1.2 | 5.8 |
| Internal Revenue Service | 56.6 | 55.5 | 54.4 | 57.3 | 57.8 | 55.4 | 54.8 | 59.6 | 64.9 | 66.3 | 70.8 |
| Office of Thrift Supervision | 0.1 | 0.1 | NA | NA | NA | NA | NA | NA | NA | NA | na |
| U.S. Customs Service | 2.2 | 7.1 | na | na | na | na | na | na | na | na | na |
| U.S. Mint | 0.8 | * | 0.7 | 1.0 | 2.4 | 3.7 | 3.5 | 0.6 | 0.7 | 1.1 | 1.0 |
| U.S. Secret Service | 0.7 | 0.8 | na | na | na | na | na | na | na | na | na |
| Department of Veterans Affairs | 345.3 | 329.2 | 365.7 | 405.6 | 402.3 | 412.0 | 446.5 | 480.0 | 510.0 | 581.0 | 558.9 |
| Other agencies | | | | | | | | | | | |
| Agency for International Development | 195.0 | 202.0 | 220.0 | 254.0 | 260.4 | 255.0 | 234.5 | 123.8 | 156.2 | 168.7 | 119.2 |
| Appalachian Regional Commission | 0.7 | 0.7 | 0.7 | 0.6 | 0.7 | 0.7 | 0.6 | 0.6 | 1.0 | 0.6 | 0.4 |

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|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Consumer Product Safety Commission | 0.1 | 0.0 | 0.0 | NA | NA | NA | NA | NA | NA | NA | NA |
| Environmental Protection Agency | 550.0 | 561.0 | 550.0 | 0.2 | 0.5 | 0.2 | 0.5 | 532.0 | 552.8 | 594.7 | 581.7 |
| Federal Communications Commission | 2.7 | 4.4 | 4.5 | 8.5 | 8.8 | 7.6 | 8.5 | 6.7 | 7.0 | 3.7 | 3.7 |
| Federal Trade Commission | 0.7 | 1.8 | 2.3 | 1.6 | 1.2 | 1.6 | 1.5 | 2.6 | 2.4 | 3.0 | 2.7 |
| General Services Administration | 0.6 | * | 0.0 | 0.0 | 0.0 | 0.0 | NA | NA | NA | NA | NA |
| Library of Congress | 1.8 | 2.8 | 3.0 | 1.2 | 6.3 | 7.4 | 12.0 | 1.4 | 0.8 | 1.2 | 1.3 |
| National Aeronautics and Space Administration | 9,167.0 | 9,142.0 | 8,719.9 | 8,746.3 | 8,656.6 | 6,209.6 | 5,930.3 | 6,071.7 | 5,814.9 | 8,880.9 | 7,723.7 |
| National Archives and Records Administration | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 4.6 | 4.6 | 4.6 | 3.1 |
| National Science Foundation | 2,762.0 | 3,074.0 | 3,507.0 | 3,796.0 | 4,025.0 | 4,102.0 | 4,022.0 | 4,205.0 | 4,370.0 | 5,758.0 | 5,748.0 |
| Nuclear Regulatory Commission | 40.0 | 47.0 | 38.0 | 55.0 | 57.0 | 59.0 | 58.8 | 41.7 | 74.0 | 81.0 | 99.0 |
| Patient-Centered Outcomes Research Trust Fund | na | na | na | na | na | na | na | na | na | na | 8.9 |
| Smithsonian Institution | 95.5 | 103.5 | 100.5 | 106.0 | 110.0 | 139.0 | 172.0 | 182.0 | 200.0 | 217.0 | 249.2 |
| Social Security Administration | 28.9 | 27.9 | 36.8 | 30.4 | 35.1 | 67.8 | 68.2 | 54.1 | 67.9 | 63.0 | 53.0 |
| U.S. Agency for Global Media | * | 0.3 | 0.0 | 1.2 | * | 0.2 | NA | NA | NA | NA | NA |

* = amount greater than \$0 but less than \$50,000; na = not applicable; agency or subagency did not exist as such or in that organization in that year. NA = not available; data were not collected at that level for that fiscal year.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had outlays in variables represented by this table appear in the table. FYs 2009 and 2010 outlays include additional funding provided by the American Recovery and Reinvestment Act of 2009. See technical table A-2 for additional notes associated with agencies listed in this table.

Source(s):

National Science Foundation, National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development.