

TABLE 92. Federal outlays for research and development, by agency: FYs 2002–12
(Dollars in millions)

Agency	2002	2003	2004	2005	2006	2007	2008	2009	2010	Preliminary	
										2011	2012
All agencies ^a	88,297.6	100,179.3	105,174.9	117,398.5	116,867.6	121,875.1	123,059.1	126,855.8	131,387.6	131,908.2	133,858.4
Departments											
Department of Agriculture	1,919.1	1,966.3	2,048.2	2,132.1	2,185.0	2,217.6	2,254.1	2,231.0	2,308.9	2,359.3	2,647.0
Agricultural Marketing Service	5.2	4.7	8.4	9.4	6.3	6.4	3.8	4.3	4.4	4.3	4.3
Agricultural Research Service	1,039.4	1,039.0	1,098.7	1,117.3	1,134.7	1,102.8	1,148.6	1,133.7	1,199.9	1,239.4	1,216.0
Animal and Plant Health Inspection Service	23.7	28.0	24.4	24.4	25.5	26.0	28.4	24.6	25.6	25.0	23.8
Economic Research Service	69.9	70.3	65.7	74.6	72.8	90.6	77.8	81.3	86.4	83.5	72.0
Foreign Agricultural Service	1.4	1.6	1.6	1.5	0.9	0.6	0.4	0.4	0.4	0.4	0.4
Forest Service	277.0	305.0	326.0	325.0	341.0	335.0	338.0	336.0	363.0	378.0	391.0
Grain Inspection, Packers, and Stockyards Administration	6.0	5.3	6.7	6.7	7.1	6.7	6.6	6.5	6.3	6.7	6.7
National Agricultural Statistics Service	4.6	5.5	6.1	6.1	6.5	6.8	6.9	7.2	7.5	7.3	7.3
National Institute of Food and Agriculture ^b	487.6	503.1	506.8	563.5	586.0	621.8	639.3	634.0	611.7	611.7	922.4
Rural Business-Cooperative Service	4.2	3.8	3.8	3.6	4.1	21.0	4.2	3.0	3.7	3.1	3.1
Department of Commerce	1,113.7	1,155.2	1,076.4	707.7	664.2	991.1	1,052.1	1,004.4	1,121.6	1,175.4	1,508.9
Economic Development Administration	0.4	0.5	0.2	0.5	0.2	0.8	2.2	2.9	7.3	0.6	5.2
National Institute of Standards and Technology	413.3	459.2	508.8	440.6	421.1	422.2	444.1	454.5	534.6	603.1	808.2
National Oceanic and Atmospheric Administration	651.3	652.0	519.0	240.2	215.5	540.7	580.8	510.9	525.4	524.2	574.6
National Telecommunications and Information Administration	26.0	23.5	24.2	3.5	5.3	5.3	0.3	6.9	7.0	8.0	8.6
U.S. Census Bureau	22.7	19.9	24.2	23.0	22.0	22.0	24.7	29.0	47.2	39.5	112.3
Department of Defense ^a	41,662.9	49,614.9	52,977.5	64,311.4	63,724.3	68,557.0	68,731.4	66,775.3	67,614.8	70,445.2	69,650.4
Defense agencies and activities	10,196.9	11,741.1	11,074.2	17,056.7	13,970.6	14,686.5	15,521.3	15,598.7	15,209.7	16,748.1	13,818.0
Department of the Air Force ^a	14,156.3	18,146.2	19,711.8	20,915.1	21,407.2	24,483.0	24,121.7	23,458.2	26,106.2	27,095.6	30,182.3
Department of the Army	6,619.8	7,092.1	6,954.2	9,847.2	10,662.1	10,360.0	11,057.1	10,048.3	9,209.6	10,993.3	10,126.8
Department of the Navy	10,494.5	12,392.4	14,932.4	16,172.3	17,422.9	18,834.4	17,851.0	17,491.6	16,905.1	15,421.1	15,333.3
Operational Test and Evaluation, Director	195.5	243.1	305.0	320.1	261.6	193.1	180.3	178.5	184.2	187.0	189.9
Department of Education	243.1	315.6	226.9	264.3	254.5	271.2	286.8	312.0	321.7	414.5	350.7
Department of Energy	7,010.3	7,372.7	7,475.8	7,760.2	7,432.9	7,792.8	8,108.3	8,546.3	8,986.2	10,476.1	12,601.0
Advanced Research Projects Agency-Energy	na	na	na	na	na	na	na	na	63.8	109.5	132.0
Bonneville Power Administration	22.9	23.3	24.0	11.3	10.7	11.1	13.7	8.1	13.1	13.2	15.3
Civilian Radioactive Waste Management	62.5	75.8	74.1	74.1	52.9	10.5	8.4	1.7	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	NA	NA	NA	71.8	108.3	54.4	89.4	87.1	83.0	92.5	138.4
Energy Efficiency and Renewable Energy	734.9	682.3	583.9	569.1	430.6	646.4	729.1	712.3	915.1	2,834.1	3,488.2
Environmental Management	160.3	69.4	42.8	49.8	34.0	32.0	35.8	13.1	69.9	69.4	133.2
Fossil Energy	471.3	639.8	499.5	532.7	365.6	418.6	306.3	343.8	349.7	27.2	341.6
National Nuclear Security Administration	3,299.4	3,448.3	3,579.4	3,624.9	3,547.6	3,589.5	3,730.5	3,488.9	3,488.8	3,460.8	3,833.4
Defense Programs	2,372.7	2,576.7	2,727.4	2,732.9	2,593.6	2,656.9	2,707.4	2,443.7	2,285.1	2,338.1	2,566.7
Fissile Materials Disposition	22.0	16.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Naval Reactors	639.3	631.5	687.8	746.6	710.7	727.8	724.1	730.1	866.1	833.2	977.2
Nonproliferation and Verification	265.4	223.5	163.3	145.5	243.3	204.8	299.0	315.1	337.6	289.6	289.6

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Nuclear Energy	28.2	43.0	79.3	82.8	89.0	80.9	133.1	116.0	368.1	180.8	377.4
Office of Intelligence	5.2	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of Science	2,225.5	2,386.7	2,592.8	2,743.7	2,794.1	2,949.4	3,062.0	3,775.3	3,634.7	3,688.6	4,141.4
Department of Health and Human Services	23,647.8	26,499.3	27,834.6	28,432.3	28,440.6	29,009.6	29,121.0	35,144.2	34,927.8	30,384.0	31,390.2
Administration for Children and Families	21.7	19.4	18.7	38.6	13.4	11.8	19.2	13.7	6.5	6.6	6.8
Administration on Aging	2.1	4.0	3.0	2.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0
Agency for Toxic Substances and Disease Registry	12.4	14.3	10.7	9.5	9.0	4.2	4.3	4.5	2.8	3.8	3.5
Ctrs. for Disease Control and Prevention	521.0	564.0	539.8	510.8	544.6	544.3	407.2	338.9	343.0	332.6	321.5
Ctrs. for Medicare and Medicaid Services	72.9	73.6	89.0	89.0	62.4	86.0	69.8	57.4	53.9	55.9	76.0
Food and Drug Administration	119.4	149.5	127.5	136.9	138.0	124.6	132.9	159.1	188.4	207.3	208.5
Health Resources and Services Administration	54.1	439.2	47.4	52.9	23.6	23.2	61.6	56.3	66.3	36.2	35.9
National Institutes of Health	22,110.1	25,156.4	26,890.4	27,500.3	27,565.6	28,146.3	28,404.4	34,494.3	34,212.6	29,720.9	30,718.5
Office of the Secretary	16.5	21.7	21.1	24.8	26.8	24.5	21.5	20.0	54.4	20.6	19.6
Office of Public Health and Science	1.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Office of the Assistant Secretary, Planning and Evaluation	14.9	19.9	21.1	24.8	26.8	24.5	21.5	20.0	54.4	20.6	19.6
Substance Abuse and Mental Health Services Administration	717.6	57.2	87.2	67.6	54.3	41.8	0.0	0.0	0.0	0.0	0.0
Department of Homeland Security	na	NA	535.9	966.4	1,592.7	922.3	798.8	92.2	583.1	511.8	643.2
Science and Technology Directorate	na	NA	377.0	774.5	1,556.1	894.5	783.0	72.6	557.2	479.7	621.8
Transportation Security Administration	na	NA	137.9	180.5	12.2	3.8	0.0	0.0	0.0	0.0	0.0
U.S. Coast Guard	na	NA	20.1	10.4	23.4	23.1	15.1	19.5	25.9	32.1	21.4
U.S. Secret Service	na	NA	1.0	1.0	1.0	0.8	0.7	0.0	0.0	0.0	0.0
Department of Housing and Urban Development	57.7	54.3	43.2	47.9	42.0	32.5	32.5	36.4	50.5	49.3	71.8
Department of the Interior	631.1	597.4	604.6	589.7	602.3	615.9	635.3	738.0	720.0	689.8	708.4
Bureau of Ocean Energy Management, Regulation and Enforcement ^c	29.6	27.4	27.2	27.2	28.1	25.8	31.6	37.1	41.7	40.6	45.6
Bureau of Reclamation	10.4	9.5	10.9	12.7	8.8	8.5	8.9	12.7	9.7	9.2	9.2
National Park Service	26.2	10.3	14.3	3.5	3.8	7.7	8.5	14.1	7.6	0.0	0.0
U.S. Geological Survey	565.0	550.2	552.2	546.2	561.5	573.8	586.4	674.1	661.1	640.0	653.6
Department of Justice	67.7	103.2	68.7	66.1	71.4	123.9	111.9	103.4	118.6	121.9	56.2
Bureau of Prisons	8.7	9.7	9.4	12.5	12.1	12.7	10.6	10.5	10.8	10.9	11.2
Federal Bureau of Investigation	33.6	42.8	34.0	33.5	34.3	70.8	26.1	14.5	30.0	30.0	30.0
Office of Justice Programs	25.4	50.7	25.3	20.1	25.0	40.4	75.2	78.4	77.8	81.1	15.0
Department of Labor	164.6	176.4	198.2	162.9	94.3	58.8	83.8	71.0	11.9	11.5	8.1
Bureau of Labor Statistics	20.7	20.6	22.4	22.5	22.8	23.7	24.2	0.0	0.0	0.0	0.0
Employee Benefits Security Administration	0.9	2.1	1.3	1.3	1.6	0.8	1.1	1.1	4.5	3.7	1.1
Employment and Training Administration	137.1	148.0	170.1	133.7	64.1	29.4	53.7	64.2	0.0	0.0	0.0
Occupational Safety and Health Administration	3.8	3.1	3.3	3.4	3.5	2.9	3.0	3.8	4.8	5.0	5.1
Office of the Secretary	1.2	1.8	0.2	0.4	0.3	0.3	0.0	0.0	0.0	0.0	0.0
Pension Benefit Guaranty Corp.	0.7	0.9	0.9	1.6	1.9	1.8	1.8	1.9	2.6	2.8	1.8
Department of State	1.6	1.6	2.3	2.6	3.4	3.0	3.0	3.7	2.9	3.3	3.3

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Department of Transportation	681.5	584.6	554.6	396.3	866.2	755.5	606.9	525.6	760.5	827.3	828.0
Federal Aviation Administration	295.0	244.0	248.0	226.0	290.0	264.0	201.0	180.0	239.0	242.0	241.0
Federal Highway Administration	209.0	230.0	238.1	73.9	400.1	339.9	259.7	214.9	352.4	351.7	334.2
Federal Motor Carrier Safety Administration	2.0	2.9	4.3	6.6	4.2	12.7	6.6	6.9	6.9	6.3	6.9
Federal Railroad Administration	27.3	26.5	31.8	22.0	57.6	34.7	37.8	39.7	44.0	40.7	92.6
Federal Transit Administration	2.3	3.8	4.4	4.2	6.5	4.0	7.0	6.9	21.7	27.0	26.0
National Highway Traffic Safety Administration	47.1	50.7	7.0	31.7	75.0	66.0	58.7	44.3	64.6	111.0	99.3
Office of the Secretary	11.1	15.7	11.0	28.8	15.6	16.2	15.9	19.5	20.3	36.3	14.8
Pipeline and Hazardous Materials Safety Administration	0.0	0.0	10.0	2.2	15.2	15.9	13.3	4.5	7.6	9.3	10.2
Research and Special Programs Administration	9.0	11.0	na	na							
Research and Innovative Technology Administration	na	na	0.0	1.0	2.0	2.0	7.0	9.0	4.0	3.0	3.0
Transportation Security Administration	59.0	na	na								
U.S. Coast Guard	19.7	na	na								
Department of the Treasury	70.7	60.0	62.4	66.4	65.1	63.6	65.5	68.5	68.5	77.9	76.0
Bureau of Engraving and Printing	7.1	4.9	4.2	6.2	6.0	5.3	5.3	3.0	1.2	5.5	3.8
Internal Revenue Service	55.5	54.4	57.3	57.8	55.4	54.8	59.6	64.9	66.3	70.5	70.5
Office of Thrift Supervision	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Customs Service	7.1	na	na								
U.S. Mint	*	0.7	1.0	2.4	3.7	3.5	0.6	0.7	1.1	1.9	1.6
U.S. Secret Service	0.8	na	na								
Department of Veterans Affairs	328.8	365.4	405.2	402.0	411.6	446.1	479.6	510.0	581.0	580.0	580.0
Other agencies											
Agency for International Development	202.0	220.0	254.0	260.4	255.0	234.5	123.8	156.2	168.7	160.2	152.2
Appalachian Regional Commission	0.7	0.7	0.6	0.7	0.7	0.6	0.6	1.0	0.6	0.7	0.7
Broadcasting Board of Governors	0.3	0.0	1.2	*	0.2	na	na	na	na	na	na
Environmental Protection Agency	561.0	550.0	0.2	0.5	0.2	0.5	532.0	552.8	594.7	581.7	584.1
Federal Communications Commission	4.4	4.5	8.5	8.8	7.6	8.5	6.7	7.0	3.7	3.7	3.9
Federal Trade Commission	1.8	2.3	1.6	1.2	1.6	1.5	2.6	2.4	3.0	1.9	2.0
Library of Congress	2.8	3.0	1.2	6.3	7.4	12.0	1.4	0.8	1.2	1.1	1.2
National Aeronautics and Space Administration	6,945.0	7,124.1	7,165.5	6,959.4	6,197.4	5,918.6	5,999.6	5,739.1	7,316.0	6,145.5	6,015.8
National Archives and Records Administration	0.1	0.1	0.1	0.1	0.1	0.1	4.6	4.6	4.6	3.1	2.5
National Science Foundation	2,803.0	3,235.0	3,439.0	3,657.0	3,707.0	3,569.0	3,781.0	3,937.0	4,809.0	6,561.0	5,632.0

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Nuclear Regulatory Commission	47.0	38.0	55.0	57.0	59.0	58.8	41.7	74.0	81.0	84.0	78.0
Smithsonian Institution	101.0	98.0	103.0	104.0	113.0	142.0	140.0	151.0	164.0	166.0	168.0
Social Security Administration	27.9	36.8	30.4	35.1	67.8	68.2	54.1	67.9	63.0	72.1	94.8

* = 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 collected for this table were not recorded at that level in that particular fiscal year.

^a From FY 2000 through FY 2007, Department of the Air Force (AF) did not report Budget Authority (BA) 6.7 Operational Systems Development data because agency misunderstood reporting requirements. During volume 57 (FYs 2007–09) data collection cycle, AF edited prior-year data from FY 2000 to FY 2007 to include BA 6.7 Operational Systems Development data.

^b Cooperative State Research, Education, and Extension Service changed its name to National Institute of Food and Agriculture in FY 2008.

^c Minerals Management Service changed its name to Bureau of Ocean Energy Management, Regulation and Enforcement in FY 2010.

NOTES: Because of rounding, detail may not add to total. Data for only those agencies and subdivisions that had obligations in variables represented by this table appear in table. In FY 2003, Substance Abuse and Mental Health Services Administration reclassified some of its funding categories that were considered R&D in prior years. Between FY 2006 and FY 2007, National Aeronautics and Space Administration's (NASA's) R&D obligations decreased for two reasons: (1) in FY 2007 NASA excluded projects that were operational in nature that were not excluded in FY 2006, which accounts for \$850 million of decrease; and (2) there was overall decrease in obligations between FY 2006 and FY 2007, which accounts for remainder of decrease. In FY 2006 NASA reclassified as operational costs funding for Space Operations, Hubble Space Telescope, Stratospheric Observatory for Infrared Astronomy, and James Webb Space Telescope previously reported as R&D plant. In FY 2010 NASA resumed reporting International Space Station obligations as R&D plant. Transportation Security Laboratory (TSL) initially existed under Transportation Security Administration (TSA) of Department of Homeland Security (DHS). In 2005, DHS reorganized, and TSL was moved from TSA to Science and Technology Directorate. See appendix C for additional notes associated with agencies listed in this table.

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