

TABLE 110. Federal outlays for research and development, by agency: FYs 2005–15  
(Dollars in millions)

Agency	2005	2006	2007	2008	2009	2010	2011	2012	2013	Preliminary	
										2014	2015
All agencies	117,398.5	116,867.6	121,875.1	123,059.1	126,854.2	131,387.6	131,443.0	128,520.3	127,152.2	129,811.0	129,785.0
Departments											
Department of Agriculture	2,132.1	2,185.0	2,217.6	2,254.1	2,229.4	2,308.9	2,300.5	2,291.8	2,233.5	2,658.1	2,580.5
Agricultural Marketing Service	9.4	6.3	6.4	3.8	4.3	4.4	4.3	4.3	5.0	5.7	8.6
Agricultural Research Service	1,117.3	1,134.7	1,102.8	1,148.6	1,133.7	1,199.9	1,161.5	1,095.0	1,071.2	1,180.0	1,108.0
Animal and Plant Health Inspection Service	24.4	25.5	26.0	28.4	24.6	25.6	24.6	31.8	31.3	37.5	34.2
Economic Research Service	74.6	72.8	90.6	77.8	79.7	86.4	87.9	80.2	78.6	74.0	84.0
Foreign Agricultural Service	1.5	0.9	0.6	0.4	0.4	0.4	0.6	0.7	0.7	0.7	0.7
Forest Service	325.0	341.0	335.0	338.0	336.0	363.0	353.0	355.0	342.0	375.0	328.0
Grain Inspection, Packers, and Stockyards Administration	6.7	7.1	6.7	6.6	6.5	6.3	6.7	6.7	6.2	6.7	7.3
National Agricultural Statistics Service	6.1	6.5	6.8	6.9	7.2	7.5	7.4	7.4	7.5	7.4	10.0
National Institute of Food and Agriculture <sup>a</sup>	563.5	586.0	621.8	639.3	634.0	611.7	653.8	706.8	688.0	968.0	997.0
Rural Business-Cooperative Service	3.6	4.1	21.0	4.2	3.0	3.7	0.7	3.9	3.0	3.0	2.6
Department of Commerce	707.7	664.2	991.1	1,052.1	1,004.4	1,121.6	1,267.0	1,112.1	1,081.7	1,430.6	1,358.6
Economic Development Administration	0.5	0.2	0.8	2.2	2.9	7.3	0.6	NA	NA	NA	NA
National Institute of Standards and Technology	440.6	421.1	422.2	444.1	454.5	534.6	570.6	570.2	524.1	642.0	637.6
National Oceanic and Atmospheric Administration	240.2	215.5	540.7	580.8	510.9	525.4	629.0	432.8	418.6	524.4	533.9
National Telecommunications and Information Administration	3.5	5.3	5.3	0.3	6.9	7.0	7.2	7.4	7.8	9.2	8.9
U.S. Census Bureau	23.0	22.0	22.0	24.7	29.0	47.2	59.5	101.7	131.3	254.9	178.2
Department of Defense	64,311.4	63,724.3	68,557.0	68,731.4	66,775.3	67,614.8	72,527.4	65,252.9	65,019.6	64,772.8	63,994.1
Defense Advanced Research Projects Agency <sup>b</sup>	NA	NA	NA	NA	NA	NA	2,889.3	2,833.3	2,692.2	2,715.0	2,840.9
Defense agencies and activities <sup>b</sup>	17,056.7	13,970.6	14,686.5	15,521.3	15,598.7	15,209.7	na	na	na	na	na
Department of the Air Force	20,915.1	21,407.2	24,483.0	24,121.7	23,458.2	26,106.2	25,854.5	25,042.8	24,789.7	23,744.4	23,731.3
Department of the Army	9,847.2	10,662.1	10,360.0	11,057.1	10,048.3	9,209.6	8,125.0	6,688.5	7,816.8	7,619.5	6,936.0
Department of the Navy	16,172.3	17,422.9	18,834.4	17,851.0	17,491.6	16,905.1	15,345.4	14,363.0	15,487.4	15,435.4	15,778.7
Operational Test and Evaluation, Director <sup>b</sup>	320.1	261.6	193.1	180.3	178.5	184.2	na	na	na	na	na
Other defense agencies <sup>b, c</sup>	NA	NA	NA	NA	NA	NA	20,313.3	16,325.4	14,233.4	15,258.4	14,707.2
Department of Education	264.3	254.5	271.2	286.8	312.0	321.7	105.7	101.6	97.2	98.1	100.3
Department of Energy	7,760.2	7,432.9	7,792.8	8,108.3	8,546.3	8,986.2	9,685.0	9,599.3	9,302.1	9,984.7	10,384.3
Advanced Research Projects Agency—Energy	na	na	na	0.0	0.0	63.8	118.4	142.4	143.6	68.5	0.0
Bonneville Power Administration	11.3	10.7	11.1	13.7	8.1	13.1	13.2	14.5	0.0	0.0	0.0
Civilian Radioactive Waste Management	74.1	52.9	10.5	8.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	71.8	108.3	54.4	89.4	87.1	83.0	89.5	101.1	45.3	59.4	60.6
Energy Efficiency and Renewable Energy	569.1	430.6	646.4	729.1	712.3	915.1	852.6	909.8	704.9	765.0	825.0
Environmental Management	49.8	34.0	32.0	35.8	13.1	69.9	67.5	45.8	9.1	5.0	16.0
Fossil Energy	532.7	365.6	418.6	306.3	343.8	349.7	288.4	285.7	360.4	427.8	337.4
National Nuclear Security Administration	3,624.9	3,547.6	3,589.5	3,730.5	3,488.9	3,488.8	4,033.9	3,919.8	3,855.7	4,293.5	4,713.9
Defense Programs	2,732.9	2,593.6	2,656.9	2,707.4	2,443.7	2,285.1	2,768.7	2,648.2	2,568.1	2,996.1	3,319.8

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Naval Reactors	746.6	710.7	727.8	724.1	730.1	866.1	941.7	1,040.1	994.0	1,070.6	1,167.2
Nonproliferation and Verification	145.5	243.3	204.8	299.0	315.1	337.6	323.5	231.5	293.6	226.8	226.8
Nuclear Energy	82.8	89.0	80.9	133.1	116.0	368.1	387.8	361.2	263.4	340.1	337.9
Office of Science	2,743.7	2,794.1	2,949.4	3,062.0	3,775.3	3,634.7	3,833.6	3,819.1	3,919.7	4,025.4	4,093.5
Department of Health and Human Services	28,432.3	28,440.6	29,009.6	29,121.0	35,144.2	34,927.8	30,379.4	30,721.0	29,282.5	30,190.2	30,436.0
Administration for Children and Families	38.6	13.4	11.8	19.2	13.7	6.5	9.3	8.1	2.6	2.6	2.6
Administration on Aging	2.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Agency for Healthcare Research and Quality	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	365.0	333.7	321.6
Agency for Toxic Substances and Disease Registry	9.5	9.0	4.2	4.3	4.5	2.8	5.1	1.4	1.1	1.4	0.1
Ctrs. for Disease Control and Prevention	510.8	544.6	544.3	407.2	338.9	343.0	296.5	445.3	300.5	340.0	332.5
Ctrs. for Medicare and Medicaid Services	89.0	62.4	86.0	69.8	57.4	53.9	45.2	33.8	20.0	20.0	16.0
Food and Drug Administration	136.9	138.0	124.6	132.9	159.1	188.4	206.4	315.7	322.8	321.6	321.6
Health Resources and Services Administration	52.9	23.6	23.2	61.6	56.3	66.3	36.8	20.3	36.6	37.2	36.6
National Institutes of Health	27,500.3	27,565.6	28,146.3	28,404.4	34,494.3	34,212.6	29,760.2	29,876.8	28,215.3	29,115.2	29,387.1
Office of the Secretary	24.8	26.8	24.5	21.5	20.0	54.4	19.9	19.5	18.6	18.6	18.0
Office of the Assistant Secretary, Planning and Evaluation	24.8	26.8	24.5	21.5	20.0	54.4	19.9	19.5	18.6	18.6	18.0
Substance Abuse and Mental Health Services Administration	67.6	54.3	41.8	0.0	0.0	NA	NA	NA	NA	NA	NA
Department of Homeland Security	966.4	1,592.7	922.3	798.8	92.2	583.1	471.4	593.4	334.9	414.0	423.0
Science and Technology Directorate	774.5	1,556.1	894.5	783.0	72.6	557.2	450.9	572.7	314.0	376.5	401.1
Transportation Security Administration	180.5	12.2	3.8	0.0	0.0	NA	NA	NA	NA	NA	NA
U.S. Coast Guard	10.4	23.4	23.1	15.1	19.5	25.9	20.5	20.7	20.8	37.6	21.9
U.S. Secret Service	1.0	1.0	0.8	0.7	NA	NA	NA	NA	NA	NA	NA
Department of Housing and Urban Development	47.9	42.0	32.5	32.5	36.4	50.5	50.1	53.5	63.8	67.8	68.9
Department of the Interior	589.7	602.3	615.9	635.3	738.0	720.0	705.4	738.7	698.3	725.8	761.3
Bureau of Ocean Energy Management <sup>d</sup>	na	39.0	30.5	33.2	35.7						
Bureau of Ocean Energy Management, Regulation and Enforcement <sup>d, e</sup>	27.2	28.1	25.8	31.6	37.1	41.7	44.8	na	na	na	na
Bureau of Reclamation	12.7	8.8	8.5	8.9	12.7	9.7	11.5	10.0	10.1	13.3	13.3
Bureau of Safety and Environmental Enforcement <sup>d</sup>	na	11.6	14.4	29.9	27.3						
National Park Service	3.5	3.8	7.7	8.5	14.1	7.6	9.2	5.3	7.0	0.0	0.0
U.S. Geological Survey	546.2	561.5	573.8	586.4	674.1	661.1	640.0	672.8	636.3	649.5	685.1
Department of Justice	66.1	71.4	123.9	111.9	103.4	118.6	102.3	67.0	109.7	111.8	111.9
Bureau of Prisons	12.5	12.1	12.7	10.6	10.5	10.8	11.6	10.5	11.1	10.9	10.9
Federal Bureau of Investigation	33.5	34.3	70.8	26.1	14.5	30.0	17.7	7.7	30.0	30.0	30.0
Office of Justice Programs	20.1	25.0	40.4	75.2	78.4	77.8	72.9	48.8	68.6	71.0	71.0
Department of Labor	162.9	94.3	58.8	83.8	71.0	11.9	10.5	18.8	14.7	11.9	12.1
Bureau of Labor Statistics	22.5	22.8	23.7	24.2	0.0	NA	NA	NA	NA	NA	NA
Employee Benefits Security Administration	1.3	1.6	0.8	1.1	1.1	4.5	4.7	11.5	8.2	5.0	5.0
Employment and Training Administration	133.7	64.1	29.4	53.7	64.2	NA	NA	NA	NA	NA	NA

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Occupational Safety and Health Administration	3.4	3.5	2.9	3.0	3.8	4.8	3.0	4.6	3.9	4.0	4.0
Office of the Secretary	0.4	0.3	0.3	0.0	0.0	0.0	0.0	NA	NA	NA	NA
Pension Benefit Guaranty Corp.	1.6	1.9	1.8	1.8	1.9	2.6	2.8	2.7	2.6	2.9	3.1
Department of State	2.6	3.4	3.0	3.0	3.7	2.9	3.3	2.2	1.5	1.4	1.4
Department of Transportation	396.3	866.2	755.5	606.9	525.6	760.5	768.5	719.2	659.8	689.5	740.4
Federal Aviation Administration	226.0	290.0	264.0	201.0	180.0	239.0	211.0	224.0	198.0	213.0	225.0
Federal Highway Administration	73.9	400.1	339.9	259.7	214.9	352.4	320.1	311.3	280.9	312.8	338.5
Federal Motor Carrier Safety Administration	6.6	4.2	12.7	6.6	6.9	6.9	6.9	6.7	6.9	7.9	9.7
Federal Railroad Administration	22.0	57.6	34.7	37.8	39.7	44.0	40.9	43.9	40.9	28.7	52.6
Federal Transit Administration	4.2	6.5	4.0	7.0	6.9	21.7	42.0	25.9	10.5	9.1	11.4
National Highway Traffic Safety Administration	31.7	75.0	66.0	58.7	44.3	64.6	116.0	82.6	95.0	93.0	73.0
Office of the Secretary	28.8	15.6	16.2	15.9	19.5	20.3	17.9	13.9	15.6	6.9	6.5
Pipeline and Hazardous Materials Safety Administration	2.2	15.2	15.9	13.3	4.5	7.6	9.7	8.0	7.3	13.6	18.8
Research and Innovative Technology Administration	1.0	2.0	2.0	7.0	9.0	4.0	4.0	3.0	4.7	4.6	4.9
Department of the Treasury	66.4	65.1	63.6	65.5	68.5	68.5	77.6	75.6	74.1	74.1	73.8
Bureau of Engraving and Printing	6.2	6.0	5.3	5.3	3.0	1.2	5.8	5.0	9.4	9.7	9.5
Internal Revenue Service	57.8	55.4	54.8	59.6	64.9	66.3	70.8	69.0	64.5	64.1	64.1
U.S. Mint	2.4	3.7	3.5	0.6	0.7	1.1	1.0	1.6	0.1	0.2	0.2
Department of Veterans Affairs	402.0	411.6	446.1	479.6	510.0	581.0	558.9	614.8	639.0	600.2	600.2
Other agencies											
Agency for International Development	260.4	255.0	234.5	123.8	156.2	168.7	119.2	77.4	125.5	128.0	130.5
Appalachian Regional Commission	0.7	0.7	0.6	0.6	1.0	0.6	0.4	0.6	0.5	0.8	0.8
Broadcasting Board of Governors	*	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Consumer Product Safety Commission	NA	2.0	1.3	2.0	2.0						
Environmental Protection Agency	0.5	0.2	0.5	532.0	552.8	594.7	577.0	576.3	522.8	530.9	532.1
Federal Communications Commission	8.8	7.6	8.5	6.7	7.0	3.7	3.7	4.0	5.2	6.7	4.6
Federal Trade Commission	1.2	1.6	1.5	2.6	2.4	3.0	2.7	2.9	2.7	2.1	2.2
Library of Congress	6.3	7.4	12.0	1.4	0.8	1.2	1.3	1.0	1.0	1.0	1.4
National Aeronautics and Space Administration	6,959.4	6,197.4	5,918.6	5,999.6	5,739.1	7,316.0	6,145.5	10,427.0	11,265.4	11,901.2	11,356.8
National Archives and Records Administration	0.1	0.1	0.1	4.6	4.6	4.6	3.1	2.0	1.1	0.9	0.9
National Science Foundation	3,657.0	3,707.0	3,569.0	3,781.0	3,937.0	4,809.0	5,233.0	5,124.0	5,269.0	5,051.0	5,739.0

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Nuclear Regulatory Commission	57.0	59.0	58.8	41.7	74.0	81.0	99.0	81.0	85.0	88.0	90.0
Smithsonian Institution	104.0	113.0	142.0	140.0	151.0	164.0	192.2	195.3	204.0	202.0	214.0
Social Security Administration	35.1	67.8	68.2	54.1	67.9	63.0	53.0	64.9	56.7	65.2	63.8

\* = 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.

<sup>a</sup> The Cooperative State Research, Education, and Extension Service changed its name to the National Institute of Food and Agriculture in FY 2008.

<sup>b</sup> In FY 2011, excepting the Defense Advanced Research Projects Agency, the Office of the Secretary of Defense began reporting for the agencies that had been presented under Department of Defense (DOD) agencies and activities and Operational Test and Evaluation, Director. These are now reported under Other defense agencies.

<sup>c</sup> As of the FYs 2011–13 survey, Other defense agencies displays aggregated data of DOD subagencies engaged in classified R&D projects.

<sup>d</sup> The Bureau of Ocean Energy Management, Regulation and Enforcement was split into the Bureau of Ocean Energy Management and the Bureau of Safety and Environmental Enforcement in FY 2012.

<sup>e</sup> The Minerals Management Service changed its name to the Bureau of Ocean Energy Management, Regulation and Enforcement in FY 2010.

NOTES: Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. The Transportation Security Laboratory (TSL) initially existed under the Transportation Security Administration (TSA) of the Department of Homeland Security (DHS), but in the 2005 DHS reorganization, TSL was moved from TSA to the Science and Technology Directorate. In FY 2006, the National Aeronautics and Space Administration (NASA) reclassified as operational costs funding for Space Operations, the Hubble Space Telescope, the Stratospheric Observatory for Infrared Astronomy, and the James Webb Space Telescope that previously had been reported as R&D plant. Between FY 2006 and FY 2007, 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 the decrease; and (2) there was an overall decrease in obligations between FY 2006 and FY 2007, which accounts for the remainder of the decrease. In FY 2010, NASA resumed reporting International Space Station (ISS) obligations as R&D plant. In FY 2012, NASA began reporting ISS obligations as research rather than R&D plant. Beginning in FY 2011, DOD totals include additional classified R&D projects not previously reported by its subagencies. See appendix C for additional notes associated with the agencies listed in this table. FYs 2009 and 2010 outlays include additional funding provided by the American Recovery and Reinvestment Act of 2009.

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