

TABLE 113

Federal obligations for applied research, by agency: FYs 2011–20

(Dollars in millions)

Agency	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020 (preliminary)
All agencies	28,751.2	31,027.4	29,753.2	31,603.5	32,298.4	34,812.0	36,599.8	38,392.4	41,100.5	43,507.2
Departments										
Department of Agriculture	1,162.0	1,112.6	1,023.7	1,152.1	1,203.9	1,221.0	1,251.1	1,270.4	1,350.4	1,506.4
Agricultural Marketing Service	2.1	2.1	2.5	2.9	3.4	3.3	3.6	3.6	3.9	3.5
Agricultural Research Service	453.2	435.9	405.7	448.7	452.6	457.8	468.1	480.2	516.9	565.6
Economic Research Service	73.5	70.2	64.5	70.6	85.1	85.1	86.4	86.5	85.6	85.3
Foreign Agricultural Service	0.4	0.5	0.5	0.2	0.4	0.2	0.2	0.0	0.0	0.5
Forest Service	192.0	187.2	204.7	186.8	175.6	190.9	182.1	169.2	170.3	173.2
Grain Inspection, Packers, and Stockyards Administration	0.0	5.0	4.7	5.7	6.0	6.0	0.2	na	na	na
National Agricultural Statistics Service	4.1	3.9	4.1	5.4	5.4	5.4	5.4	5.3	5.3	5.4
National Institute of Food and Agriculture	435.0	403.2	333.5	426.0	471.7	468.8	501.8	521.4	564.5	669.0
Rural Business-Cooperative Service	1.7	4.5	3.6	5.8	3.5	3.6	3.3	4.2	3.9	3.9
Department of Commerce	775.4	814.3	832.6	1,062.8	921.5	905.6	1,056.3	1,001.5	1,028.8	1,108.5
Economic Development Administration	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
National Institute of Standards and Technology	307.9	333.3	335.4	384.9	398.8	377.5	444.6	448.6	449.8	486.0
National Oceanic and Atmospheric Administration	448.8	396.1	374.9	441.8	470.0	427.7	547.4	488.2	541.8	575.8
National Telecommunications and Information Administration	7.8	7.6	7.3	9.6	12.3	10.6	8.2	9.0	7.9	8.2
U.S. Census Bureau	10.8	77.3	115.0	226.5	40.5	89.8	56.1	55.8	29.2	38.5
Department of Defense	4,710.3	4,626.7	4,092.5	4,630.8	4,558.1	4,913.3	5,068.0	5,262.8	5,758.2	5,900.2
Defense Advanced Research Projects Agency	1,129.8	1,151.3	983.3	1,189.2	1,125.2	1,157.9	1,118.1	1,221.6	1,265.0	1,513.2
Department of the Air Force	1,203.2	1,223.2	1,054.7	1,072.2	1,107.8	1,240.2	1,244.0	1,340.7	1,547.5	1,661.3
Department of the Army	1,063.4	915.0	859.0	982.6	941.6	1,060.4	1,233.2	1,217.2	1,461.5	1,262.0
Department of the Navy	748.4	826.1	740.1	871.9	844.7	923.6	970.6	953.3	935.0	909.7
Other defense agencies	565.5	511.1	455.4	515.0	538.9	531.2	502.1	530.1	549.2	554.0
Department of Education	205.5	201.6	177.8	183.4	137.4	140.1	141.4	135.3	131.4	132.6
Department of Energy	3,388.4	3,403.9	3,482.3	4,016.6	4,181.1	4,879.7	5,084.2	5,507.4	6,295.2	7,199.1
Advanced Research Projects Agency—Energy	127.8	56.4	92.0	150.0	138.9	172.1	150.6	80.0	202.5	212.5
Bonneville Power Administration	1.3	0.7	3.5	2.5	2.5	2.5	3.7	0.0	0.0	0.0
Electricity Delivery and Energy Reliability	55.3	57.7	49.8	61.0	56.6	66.6	74.4	81.5	72.3	67.9
Energy Efficiency and Renewable Energy	465.9	434.5	529.8	540.1	472.6	576.4	853.0	1,284.9	1,270.3	1,546.4
Environmental Management	22.3	14.7	3.0	16.2	8.3	9.8	10.4	12.5	8.6	3.8
Fossil Energy	180.7	161.4	150.6	157.5	193.6	225.2	223.7	628.6	626.0	646.0
National Nuclear Security Administration	2,208.3	2,293.2	2,355.0	2,714.3	2,637.2	3,126.6	2,997.2	2,556.3	3,568.3	4,264.1
Defense Programs	1,974.7	2,143.4	2,141.6	2,519.4	2,526.7	3,010.1	2,880.9	2,421.7	3,434.1	4,131.0
Office of Defense Nuclear Nonproliferation	233.6	149.8	213.4	194.9	110.5	116.5	116.3	134.7	134.2	133.1
Nuclear Energy	326.8	336.4	236.1	295.9	596.7	630.9	688.5	762.7	378.3	435.4

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Office of Cybersecurity, Energy Security, and Emergency Response	na	na	na	na	na	na	na	0.0	39.0	23.0
Office of Science	0.0	49.1	62.5	79.1	74.7	69.5	82.7	100.9	129.8	0.0
Department of Health and Human Services	14,704.4	15,146.8	14,026.3	14,582.0	15,119.9	16,483.3	16,977.3	18,560.6	19,254.6	20,265.7
Administration for Children and Families	9.6	8.4	2.4	3.2	2.2	3.1	2.4	3.0	2.3	1.6
Administration for Community Living	0.0	0.0	0.0	0.0	72.5	66.1	66.3	65.6	65.9	71.8
Agency for Healthcare Research and Quality	341.0	336.5	335.8	335.0	335.0	306.2	300.1	306.1	308.1	308.1
Agency for Toxic Substances and Disease Registry	5.1	1.4	1.1	1.4	1.8	2.2	2.8	1.6	7.0	7.0
Centers for Disease Control and Prevention	282.8	407.4	276.8	308.6	365.1	408.8	363.9	322.3	288.7	264.0
Centers for Medicare and Medicaid Services	35.4	21.0	20.0	33.6	24.0	29.5	28.9	230.7	133.5	136.0
Food and Drug Administration	225.2	352.6	360.6	389.1	375.7	485.9	375.0	477.6	493.1	495.0
Health Resources and Services Administration	24.1	24.2	24.1	25.5	24.6	23.5	26.8	33.6	30.0	29.2
National Institutes of Health	13,761.3	13,975.6	12,986.9	13,467.2	13,901.0	15,140.0	15,794.0	17,103.0	17,909.0	18,936.0
Office of the Secretary of Health and Human Services	19.9	19.5	18.6	18.6	18.0	18.0	16.9	17.1	17.0	17.0
Office of the Assistant Secretary for Planning and Evaluation	19.9	19.5	18.6	18.6	18.0	18.0	16.9	17.1	17.0	17.0
Department of Homeland Security	134.3	222.3	140.7	214.5	205.1	194.5	264.4	308.7	233.2	187.7
Countering Weapons of Mass Destruction Office	NA	NA	NA	37.7	25.6	24.6	22.7	8.8	25.8	19.7
Cybersecurity and Infrastructure Security Agency	na	na	na	na	na	na	na	7.2	13.1	14.4
Science and Technology Directorate	127.3	210.1	133.7	168.4	173.1	162.8	235.3	286.3	188.4	152.0
U.S. Coast Guard	7.1	12.2	7.0	8.4	6.4	7.0	6.5	6.5	5.9	1.5
Department of Housing and Urban Development	48.8	63.1	44.1	36.5	38.2	42.9	41.2	40.3	21.9	30.7
Department of the Interior	580.6	570.3	551.9	597.1	627.0	672.1	667.5	570.0	608.3	634.0
Bureau of Indian Affairs	NA	NA	NA	NA	NA	NA	NA	5.0	5.0	5.0
Bureau of Land Management	NA	NA	NA	NA	15.4	17.0	17.0	12.9	12.9	12.9
Bureau of Ocean Energy Management	na	39.0	39.5	48.0	43.9	60.1	63.4	65.6	65.1	67.2
Bureau of Ocean Energy Management, Regulation and Enforcement	45.4	na	na	na	na	na	na	na	na	na
Bureau of Reclamation	8.6	7.5	7.5	9.0	7.3	18.6	22.8	16.8	16.5	17.5
Bureau of Safety and Environmental Enforcement	na	7.7	15.2	32.6	16.6	23.6	8.3	4.0	7.4	13.3
National Park Service	8.3	5.4	6.4	14.1	7.5	8.0	8.7	9.1	9.3	9.4
Office of Surface Mining Reclamation and Enforcement	NA	NA	NA	NA	NA	NA	NA	0.0	0.3	0.5
U.S. Fish and Wildlife Service	NA	NA	NA	NA	29.8	32.5	32.8	32.7	32.7	32.7
U.S. Geological Survey	518.3	510.7	483.2	493.4	506.4	512.4	514.6	424.1	459.2	475.5
Department of Justice	66.9	60.1	57.1	134.1	123.0	144.0	84.6	75.0	84.2	68.9
Bureau of Prisons	3.5	1.7	2.5	2.2	2.5	2.5	1.9	1.3	1.2	1.3
Federal Bureau of Investigation	8.1	6.9	2.4	0.0	0.0	0.0	0.0	2.9	1.0	1.0
Office of Justice Programs	55.4	51.5	52.2	131.9	120.5	141.4	82.7	70.8	81.9	66.6
Department of Labor	53.0	18.9	13.9	11.2	10.2	5.6	4.6	4.8	4.4	4.7

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Agency	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020 (preliminary)
Employee Benefits Security Administration	48.5	12.8	9.6	7.5	6.5	4.6	2.6	3.0	2.6	2.9
Occupational Safety and Health Administration	4.3	6.0	4.2	3.6	3.4	0.7	2.0	1.9	1.7	1.8
Pension Benefit Guaranty Corp.	0.2	0.2	0.2	0.2	0.4	0.3	0.0	0.0	NA	NA
Department of State	3.3	2.2	1.5	NA	2.0	2.0	2.1	62.1	62.2	62.3
Department of Transportation	632.6	690.0	647.5	643.8	662.6	625.1	695.6	750.9	745.6	913.3
Federal Aviation Administration	210.1	216.4	196.9	197.5	207.2	207.5	212.3	194.8	193.1	348.2
Federal Highway Administration	295.4	340.5	320.1	337.9	273.2	247.2	305.4	419.6	414.9	391.9
Federal Motor Carrier Safety Administration	5.7	6.9	7.2	7.2	7.6	9.7	11.2	8.8	7.8	11.1
Federal Railroad Administration	20.3	27.5	39.5	29.8	32.9	30.7	34.1	32.6	31.9	32.2
Federal Transit Administration	23.3	24.8	13.6	0.0	72.4	35.3	55.4	10.2	2.8	20.0
National Highway Traffic Safety Administration	71.0	68.7	64.8	65.1	62.5	86.6	69.0	76.0	76.3	74.2
Office of the Secretary of Transportation	0.0	0.0	0.0	4.0	1.9	3.7	2.8	3.4	8.2	15.1
Pipeline and Hazardous Materials Safety Administration	3.4	2.0	2.0	2.4	4.8	4.6	5.4	5.7	10.6	20.5
Research and Innovative Technology Administration	3.4	3.3	3.4	na	na	na	na	na	na	na
Department of the Treasury	76.7	75.2	73.2	73.2	72.3	80.5	1.3	26.6	35.9	44.0
Bureau of Engraving and Printing	4.9	4.6	8.4	8.6	8.7	14.1	0.0	26.6	35.7	43.9
Internal Revenue Service	70.8	69.0	64.5	64.0	63.6	64.6	0.0	0.0	0.0	0.0
U.S. Mint	1.0	1.6	0.2	0.6	*	1.8	1.3	0.0	0.2	0.1
Department of Veterans Affairs	324.9	325.9	355.0	321.5	416.3	458.0	394.7	792.2	848.5	901.7
Other agencies										
Administrative Office of the U.S. Courts	NA	NA	NA	NA	NA	6.8	8.0	6.8	6.4	7.7
Agency for International Development	119.2	77.4	116.5	59.2	212.2	148.5	191.5	120.4	171.7	171.7
Appalachian Regional Commission	0.4	0.6	0.2	0.6	0.4	0.9	0.1	0.5	0.9	0.0
Consumer Product Safety Commission	NA	2.0	1.3	1.8	2.0	2.0	1.9	1.0	0.9	0.2
Environmental Protection Agency	403.4	403.7	446.2	453.5	440.4	430.0	417.5	412.9	404.8	411.9
Federal Communications Commission	3.7	4.0	5.2	6.7	4.8	5.1	6.1	4.8	2.0	1.8
Federal Trade Commission	2.7	2.9	2.7	2.5	1.9	3.0	5.7	5.8	6.0	7.3
Library of Congress	0.9	0.5	0.7	0.7	0.8	1.0	0.9	0.9	0.9	1.1
National Aeronautics and Space Administration	717.8	2,494.3	2,598.2	2,312.7	2,329.7	2,332.3	2,319.5	2,011.4	2,422.5	2,355.7
National Archives and Records Administration	3.1	2.0	1.1	0.9	0.7	0.7	0.5	0.5	0.5	0.0
National Science Foundation	455.0	517.4	594.4	678.1	695.8	760.1	778.6	760.3	784.1	814.4
Nuclear Regulatory Commission	83.8	82.6	75.9	85.0	91.9	80.5	66.0	76.3	74.1	64.5
Patient-Centered Outcomes Research Trust Fund	41.1	41.1	334.4	282.6	152.1	114.9	883.9	491.7	578.4	540.7
Social Security Administration	53.0	64.9	56.7	59.6	58.9	129.0	109.5	71.6	146.2	131.8
Tennessee Valley Authority	NA	NA	NA	NA	NA	NA	2.6	5.9	5.6	5.9
U.S. Agency for Global Media	NA	NA	NA	NA	NA	NA	NA	NA	6.1	6.2

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Agency	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020 (preliminary)
U.S. Postal Service	NA	NA	NA	NA	28.0	29.4	73.3	53.2	26.7	26.6

* = 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 obligations in variables represented by this table appear in the table. FY 2020 preliminary data do not include obligations from supplemental COVID-19 related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act). See technical table A-2 for additional notes associated with the agencies listed in this table.

Source(s):

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